

| LTE Band 41 (class 2&3) WWAN+WLAN<br>2.4G(Chain0)+WLAN 5G(Chain1) Receiver 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         | 17.69                | 17.71   | 17.63   | 17.57   | 17.57   | 18.20   |       |
|  |            | 1       | 13        | 17.80                | 17.73   | 17.80   | 17.73   | 17.78   | 18.20   |       |
|  |            | 1       | 24        | 17.72                | 17.69   | 17.69   | 17.61   | 17.72   | 18.20   |       |
|  |            | 12      | 0         | 17.88                | 17.94   | 17.82   | 17.85   | 17.79   | 18.20   |       |
|  |            | 12      | 6         | 17.87                | 17.93   | 17.95   | 17.91   | 17.86   | 18.20   |       |
|  |            | 12      | 13        | 17.79                | 17.91   | 17.87   | 17.88   | 17.87   | 18.20   |       |
|  | 16QAM      | 25      | 0         | 17.86                | 17.83   | 17.82   | 17.83   | 17.76   | 18.20   |       |
|  |            | 1       | 0         | 17.92                | 17.88   | 17.91   | 17.82   | 17.85   | 18.20   |       |
|  |            | 1       | 13        | 17.99                | 17.95   | 17.96   | 17.93   | 17.95   | 18.20   |       |
|  |            | 1       | 24        | 17.89                | 17.94   | 17.94   | 17.83   | 17.89   | 18.20   |       |
|  |            | 12      | 0         | 17.73                | 17.80   | 17.79   | 17.72   | 17.64   | 18.20   |       |
|  |            | 12      | 6         | 17.86                | 17.84   | 17.80   | 17.91   | 17.68   | 18.20   |       |
|  | 64QAM      | 12      | 13        | 17.85                | 17.88   | 17.75   | 17.75   | 17.83   | 18.20   |       |
|  |            | 25      | 0         | 17.91                | 17.80   | 17.77   | 17.71   | 17.73   | 18.20   |       |
|  |            | 1       | 0         | 17.63                | 17.73   | 17.62   | 17.53   | 17.61   | 18.20   |       |
|  |            | 1       | 13        | 17.84                | 17.70   | 17.86   | 17.67   | 17.75   | 18.20   |       |
|  |            | 1       | 24        | 17.71                | 17.70   | 17.66   | 17.61   | 17.66   | 18.20   |       |
|  |            | 12      | 0         | 17.97                | 17.85   | 17.92   | 17.84   | 17.74   | 18.20   |       |
|  | 10MHz      | QPSK    | 12        | 6                    | 17.82   | 17.90   | 17.96   | 17.84   | 17.82   | 18.20 |
|  |            |         | 12        | 13                   | 17.76   | 17.89   | 17.86   | 17.86   | 17.93   | 18.20 |
|  |            |         | 25        | 0                    | 17.90   | 17.89   | 17.82   | 17.70   | 17.72   | 18.20 |
|  |            |         | Channel   | Channel              | Channel | Channel | Channel |         |         |       |
|  |            |         | 39700     | 40160                | 40620   | 41080   | 41540   |         |         |       |
|  |            |         |           |                      |         |         |         |         | Tune up |       |
| 10MHz  | QPSK       | 1       | 0         | 17.65                | 17.63   | 17.61   | 17.58   | 17.60   | 18.20   |       |
|  |            | 1       | 25        | 17.79                | 17.66   | 17.61   | 17.59   | 17.57   | 18.20   |       |
|  |            | 1       | 49        | 17.80                | 17.58   | 17.71   | 17.62   | 17.74   | 18.20   |       |
|  |            | 25      | 0         | 17.78                | 17.72   | 17.90   | 17.85   | 17.76   | 18.20   |       |
|  |            | 25      | 13        | 17.95                | 17.90   | 17.79   | 17.83   | 17.89   | 18.20   |       |
|  |            | 25      | 25        | 17.85                | 17.84   | 17.81   | 17.77   | 17.95   | 18.20   |       |
|  | 16QAM      | 50      | 0         | 17.90                | 17.92   | 17.80   | 17.79   | 17.85   | 18.20   |       |
|  |            | 1       | 0         | 17.88                | 17.97   | 17.84   | 17.96   | 17.86   | 18.20   |       |
|  |            | 1       | 25        | 17.99                | 17.92   | 17.89   | 17.86   | 17.89   | 18.20   |       |
|  |            | 1       | 49        | 18.04                | 17.86   | 17.82   | 17.86   | 17.75   | 18.20   |       |
|  |            | 25      | 0         | 17.82                | 17.68   | 17.67   | 17.66   | 17.52   | 18.20   |       |
|  |            | 25      | 13        | 17.72                | 17.84   | 17.75   | 17.74   | 17.78   | 18.20   |       |
|  | 64QAM      | 25      | 25        | 17.71                | 17.87   | 17.76   | 17.72   | 17.74   | 18.20   |       |
|  |            | 50      | 0         | 17.96                | 17.83   | 17.73   | 17.81   | 17.84   | 18.20   |       |
|  |            | 1       | 0         | 17.62                | 17.65   | 17.59   | 17.51   | 17.67   | 18.20   |       |
|  |            | 1       | 25        | 17.73                | 17.55   | 17.57   | 17.58   | 17.54   | 18.20   |       |
|  |            | 1       | 49        | 17.81                | 17.62   | 17.74   | 17.62   | 17.71   | 18.20   |       |
|  |            | 25      | 0         | 17.85                | 17.72   | 17.95   | 17.74   | 17.74   | 18.20   |       |
|  | 10MHz      | QPSK    | 25        | 13                   | 17.92   | 17.88   | 17.75   | 17.77   | 17.88   | 18.20 |
|  |            |         | 25        | 25                   | 17.86   | 17.83   | 17.79   | 17.87   | 17.90   | 18.20 |
|  |            |         | 50        | 0                    | 17.88   | 17.87   | 17.79   | 17.81   | 17.88   | 18.20 |

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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         | 17.89   | 17.90   | 17.88   | 17.86   | 17.82   | 18.20   |
|           |            | 1       | 38        | 17.80   | 17.74   | 17.76   | 17.69   | 17.80   | 18.20   |
|           |            | 1       | 74        | 18.00   | 17.90   | 17.95   | 17.97   | 17.86   | 18.20   |
|           |            | 36      | 0         | 17.96   | 17.92   | 17.97   | 17.93   | 17.96   | 18.20   |
|           |            | 36      | 18        | 18.02   | 18.12   | 18.04   | 18.05   | 17.90   | 18.20   |
|           |            | 36      | 39        | 18.10   | 18.03   | 17.91   | 17.89   | 17.98   | 18.20   |
|           |            | 75      | 0         | 18.06   | 18.09   | 18.02   | 17.93   | 17.88   | 18.20   |
|           | 16QAM      | 1       | 0         | 18.11   | 18.05   | 18.03   | 18.03   | 18.00   | 18.20   |
|           |            | 1       | 38        | 18.02   | 17.99   | 18.07   | 18.03   | 18.05   | 18.20   |
|           |            | 1       | 74        | 18.07   | 17.97   | 18.05   | 17.96   | 17.99   | 18.20   |
|           |            | 36      | 0         | 18.01   | 17.84   | 17.85   | 17.90   | 17.76   | 18.20   |
|           |            | 36      | 18        | 17.95   | 17.93   | 17.94   | 17.92   | 17.79   | 18.20   |
|           |            | 36      | 39        | 18.06   | 17.90   | 17.73   | 17.64   | 17.82   | 18.20   |
|           |            | 75      | 0         | 18.04   | 17.99   | 17.93   | 17.94   | 17.79   | 18.20   |
|           | 64QAM      | 1       | 0         | 17.80   | 17.80   | 17.87   | 17.86   | 17.87   | 18.20   |
|           |            | 1       | 38        | 17.87   | 17.80   | 17.75   | 17.73   | 17.82   | 18.20   |
|           |            | 1       | 74        | 18.01   | 17.92   | 17.89   | 17.89   | 17.92   | 18.20   |
|           |            | 36      | 0         | 18.02   | 17.93   | 17.90   | 17.97   | 17.96   | 18.20   |
|           |            | 36      | 18        | 18.00   | 18.05   | 17.99   | 18.03   | 17.97   | 18.20   |
|           |            | 36      | 39        | 18.06   | 18.03   | 17.95   | 17.85   | 18.02   | 18.20   |
|           |            | 75      | 0         | 18.07   | 18.11   | 18.03   | 17.94   | 17.94   | 18.20   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 17.83   | 17.86   | 17.82   | 17.82   | 17.78   | 18.20   |
|           |            | 1       | 50        | 18.04   | 17.78   | 17.02   | 18.03   | 18.04   | 18.20   |
|           |            | 1       | 99        | 17.86   | 18.01   | 17.83   | 17.94   | 17.68   | 18.20   |
|           |            | 50      | 0         | 17.97   | 17.94   | 18.06   | 18.01   | 17.85   | 18.20   |
|           |            | 50      | 25        | 18.07   | 18.03   | 17.90   | 17.86   | 17.92   | 18.20   |
|           |            | 50      | 50        | 18.09   | 17.91   | 17.96   | 18.00   | 18.02   | 18.20   |
|           |            | 100     | 0         | 18.07   | 18.06   | 17.88   | 17.88   | 17.95   | 18.20   |
|           | 16QAM      | 1       | 0         | 17.96   | 17.89   | 18.07   | 18.04   | 17.95   | 18.20   |
|           |            | 1       | 50        | 18.09   | 18.05   | 18.04   | 18.04   | 18.08   | 18.20   |
|           |            | 1       | 99        | 18.08   | 17.99   | 18.08   | 18.03   | 17.93   | 18.20   |
|           |            | 50      | 0         | 18.00   | 17.82   | 17.90   | 17.98   | 17.93   | 18.20   |
|           |            | 50      | 25        | 17.97   | 18.06   | 17.89   | 17.87   | 17.98   | 18.20   |
|           |            | 50      | 50        | 18.03   | 18.03   | 17.89   | 18.01   | 17.83   | 18.20   |
|           |            | 100     | 0         | 18.01   | 18.06   | 17.80   | 17.84   | 17.97   | 18.20   |
|           | 64QAM      | 1       | 0         | 17.91   | 17.84   | 17.80   | 17.84   | 17.85   | 18.20   |
|           |            | 1       | 50        | 17.77   | 17.79   | 17.66   | 17.74   | 17.73   | 18.20   |
|           |            | 1       | 99        | 17.95   | 17.78   | 17.83   | 17.90   | 17.59   | 18.20   |
|           |            | 50      | 0         | 17.96   | 18.01   | 18.04   | 17.96   | 17.82   | 18.20   |
|           |            | 50      | 25        | 18.03   | 18.05   | 17.86   | 17.84   | 17.95   | 18.20   |
|           |            | 50      | 50        | 18.01   | 17.97   | 17.99   | 18.01   | 17.90   | 18.20   |
|           |            | 100     | 0         | 18.03   | 17.97   | 17.92   | 17.85   | 17.94   | 18.20   |

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| LTE Band 41 (class 2&3) WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on |            |            |           | 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         | 14.98                | 14.78   | 14.83   | 14.87   | 14.87   | 15.50   |         |
|   |            | 1          | 13        | 14.85                | 14.82   | 15.00   | 14.97   | 15.11   | 15.50   |         |
|   |            | 1          | 24        | 14.89                | 14.85   | 14.94   | 14.95   | 15.09   | 15.50   |         |
|   |            | 12         | 0         | 15.03                | 15.10   | 15.08   | 15.05   | 15.18   | 15.50   |         |
|   |            | 12         | 6         | 15.09                | 15.14   | 15.12   | 15.06   | 15.26   | 15.50   |         |
|   |            | 12         | 13        | 14.99                | 14.99   | 15.09   | 15.10   | 15.18   | 15.50   |         |
|   | 16QAM      | 25         | 0         | 15.04                | 15.09   | 15.08   | 15.01   | 15.12   | 15.50   |         |
|   |            | 1          | 0         | 15.38                | 15.35   | 15.04   | 15.41   | 15.01   | 15.50   |         |
|   |            | 1          | 13        | 15.40                | 15.03   | 15.09   | 15.15   | 15.04   | 15.50   |         |
|   |            | 1          | 24        | 15.34                | 15.34   | 15.42   | 15.30   | 15.04   | 15.50   |         |
|   |            | 12         | 0         | 15.13                | 15.20   | 15.35   | 15.17   | 15.29   | 15.50   |         |
|   |            | 12         | 6         | 15.22                | 15.25   | 15.34   | 15.13   | 15.36   | 15.50   |         |
|   | 64QAM      | 12         | 13        | 15.21                | 15.23   | 15.20   | 15.17   | 15.34   | 15.50   |         |
|   |            | 25         | 0         | 15.21                | 15.14   | 15.21   | 15.21   | 15.33   | 15.50   |         |
|   |            | 1          | 0         | 15.33                | 15.24   | 15.22   | 15.11   | 15.33   | 15.50   |         |
|   |            | 1          | 13        | 15.34                | 15.41   | 15.14   | 15.23   | 15.05   | 15.50   |         |
|   |            | 1          | 24        | 15.29                | 15.13   | 15.36   | 15.31   | 15.39   | 15.50   |         |
|   |            | 12         | 0         | 15.27                | 15.12   | 15.14   | 15.11   | 15.27   | 15.50   |         |
|   |            | 12         | 6         | 15.28                | 15.16   | 15.26   | 15.15   | 15.27   | 15.50   |         |
|   |            | 12         | 13        | 15.29                | 15.12   | 15.21   | 15.18   | 15.36   | 15.50   |         |
|   | 25         | 0          | 15.20     | 15.19                | 15.18   | 15.09   | 15.24   | 15.50   |         |         |
|   | Bandwidth  | Modulation | RB size   | RB offset            | Channel | Channel | Channel | Channel | Channel | Tune up |
|   | 10MHz      | QPSK       | 39700     | 40160                | 40620   | 41080   | 41540   |         |         |         |
|   |            |            | 1         | 0                    | 14.87   | 14.84   | 14.97   | 14.93   | 14.95   | 15.50   |
| 1   |            |            | 25        | 14.77                | 14.82   | 14.90   | 14.90   | 14.97   | 15.50   |         |
| 1   |            |            | 49        | 14.85                | 14.85   | 14.93   | 14.93   | 15.01   | 15.50   |         |
| 25  |            |            | 0         | 15.09                | 14.97   | 15.03   | 14.97   | 15.19   | 15.50   |         |
| 25  |            |            | 13        | 15.07                | 15.12   | 15.20   | 15.17   | 15.21   | 15.50   |         |
| 16QAM   |            | 25         | 25        | 15.05                | 15.06   | 15.15   | 15.06   | 15.22   | 15.50   |         |
|   |            | 50         | 0         | 15.04                | 15.07   | 15.04   | 15.11   | 15.05   | 15.50   |         |
|   |            | 1          | 0         | 15.31                | 15.25   | 15.08   | 15.39   | 15.05   | 15.50   |         |
|   |            | 1          | 25        | 15.33                | 15.32   | 15.40   | 15.28   | 15.43   | 15.50   |         |
|   |            | 1          | 49        | 15.32                | 15.35   | 15.31   | 15.38   | 15.07   | 15.50   |         |
|   |            | 25         | 0         | 15.24                | 15.17   | 15.08   | 15.01   | 15.20   | 15.50   |         |
|   |            | 25         | 13        | 15.19                | 15.25   | 15.19   | 15.06   | 15.27   | 15.50   |         |
|   |            | 25         | 25        | 15.22                | 15.20   | 15.13   | 15.04   | 15.26   | 15.50   |         |
| 64QAM   |            | 50         | 0         | 15.20                | 15.22   | 15.27   | 15.10   | 15.38   | 15.50   |         |
|   |            | 1          | 0         | 15.08                | 15.17   | 15.45   | 15.41   | 15.03   | 15.50   |         |
|   |            | 1          | 25        | 15.39                | 15.23   | 15.36   | 15.09   | 15.08   | 15.50   |         |
|   |            | 1          | 49        | 15.35                | 15.34   | 15.36   | 15.00   | 15.39   | 15.50   |         |
|   |            | 25         | 0         | 15.25                | 15.06   | 15.22   | 15.02   | 15.25   | 15.50   |         |
|   |            | 25         | 13        | 15.23                | 15.24   | 15.32   | 15.14   | 15.20   | 15.50   |         |
|   |            | 25         | 25        | 15.15                | 15.08   | 15.16   | 15.15   | 15.20   | 15.50   |         |
|   |            | 50         | 0         | 15.26                | 15.20   | 15.18   | 15.10   | 15.23   | 15.50   |         |

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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         | 15.03   | 15.03   | 15.23   | 15.17   | 15.21   | 15.50   |
|           |            | 1       | 38        | 15.07   | 15.12   | 15.12   | 15.05   | 15.25   | 15.50   |
|           |            | 1       | 74        | 14.93   | 15.14   | 15.30   | 15.17   | 15.39   | 15.50   |
|           |            | 36      | 0         | 15.17   | 15.25   | 15.20   | 15.13   | 15.30   | 15.50   |
|           |            | 36      | 18        | 15.22   | 15.24   | 15.23   | 15.25   | 15.29   | 15.50   |
|           |            | 36      | 39        | 15.19   | 15.14   | 15.24   | 15.26   | 15.30   | 15.50   |
|           |            | 75      | 0         | 15.24   | 15.25   | 15.22   | 15.14   | 15.41   | 15.50   |
|           | 16QAM      | 1       | 0         | 15.14   | 15.04   | 15.04   | 15.47   | 15.09   | 15.50   |
|           |            | 1       | 38        | 15.35   | 15.44   | 15.42   | 15.44   | 15.02   | 15.50   |
|           |            | 1       | 74        | 15.43   | 15.03   | 15.08   | 15.05   | 15.00   | 15.50   |
|           |            | 36      | 0         | 15.27   | 15.28   | 15.35   | 15.32   | 15.42   | 15.50   |
|           |            | 36      | 18        | 15.36   | 15.33   | 15.31   | 15.30   | 15.46   | 15.50   |
|           |            | 36      | 39        | 15.28   | 15.34   | 15.37   | 15.33   | 15.44   | 15.50   |
|           |            | 75      | 0         | 15.37   | 15.46   | 15.44   | 15.33   | 15.03   | 15.50   |
|           | 64QAM      | 1       | 0         | 15.02   | 15.37   | 15.26   | 15.19   | 15.37   | 15.50   |
|           |            | 1       | 38        | 15.41   | 15.24   | 15.34   | 15.14   | 15.39   | 15.50   |
|           |            | 1       | 74        | 15.17   | 15.33   | 15.42   | 15.24   | 15.09   | 15.50   |
|           |            | 36      | 0         | 15.37   | 15.34   | 15.44   | 15.31   | 15.41   | 15.50   |
|           |            | 36      | 18        | 15.39   | 15.39   | 15.43   | 15.27   | 15.34   | 15.50   |
|           |            | 36      | 39        | 15.36   | 15.34   | 15.42   | 15.40   | 15.04   | 15.50   |
|           |            | 75      | 0         | 15.46   | 15.44   | 15.44   | 15.37   | 15.46   | 15.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 15.12   | 14.91   | 15.23   | 15.11   | 15.18   | 15.50   |
|           |            | 1       | 50        | 14.83   | 15.01   | 15.04   | 14.93   | 15.15   | 15.50   |
|           |            | 1       | 99        | 14.85   | 14.99   | 15.08   | 15.04   | 15.19   | 15.50   |
|           |            | 50      | 0         | 15.22   | 15.20   | 15.38   | 15.21   | 15.32   | 15.50   |
|           |            | 50      | 25        | 15.05   | 15.25   | 15.24   | 15.30   | 15.37   | 15.50   |
|           |            | 50      | 50        | 15.20   | 15.30   | 15.25   | 15.29   | 15.36   | 15.50   |
|           |            | 100     | 0         | 15.20   | 15.25   | 15.23   | 15.29   | 15.38   | 15.50   |
|           | 16QAM      | 1       | 0         | 15.04   | 15.04   | 15.06   | 15.18   | 15.09   | 15.50   |
|           |            | 1       | 50        | 15.40   | 15.45   | 15.42   | 15.39   | 15.09   | 15.50   |
|           |            | 1       | 99        | 15.28   | 15.47   | 15.02   | 15.42   | 15.05   | 15.50   |
|           |            | 50      | 0         | 15.39   | 15.41   | 15.44   | 15.35   | 15.18   | 15.50   |
|           |            | 50      | 25        | 15.18   | 15.40   | 15.44   | 15.41   | 15.41   | 15.50   |
|           |            | 50      | 50        | 15.36   | 15.39   | 15.44   | 15.40   | 15.02   | 15.50   |
|           |            | 100     | 0         | 15.38   | 15.43   | 15.46   | 15.40   | 15.44   | 15.50   |
|           | 64QAM      | 1       | 0         | 15.24   | 15.17   | 15.35   | 15.29   | 15.43   | 15.50   |
|           |            | 1       | 50        | 15.17   | 15.32   | 15.33   | 15.22   | 15.39   | 15.50   |
|           |            | 1       | 99        | 15.05   | 15.27   | 15.28   | 15.27   | 15.02   | 15.50   |
|           |            | 50      | 0         | 15.31   | 15.17   | 15.41   | 15.39   | 15.17   | 15.50   |
|           |            | 50      | 25        | 15.42   | 15.46   | 15.05   | 15.17   | 15.45   | 15.50   |
|           |            | 50      | 50        | 15.28   | 15.45   | 15.38   | 15.41   | 15.41   | 15.50   |
|           |            | 100     | 0         | 15.42   | 15.40   | 15.00   | 15.40   | 15.43   | 15.50   |

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| LTE Band 41 (class 2&3) WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT Receiver 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         | 18.74                | 18.70   | 18.64   | 18.59   | 18.61   | 19.20   |         |
|   |            | 1          | 13        | 18.82                | 18.74   | 18.78   | 18.74   | 18.74   | 19.20   |         |
|   |            | 1          | 24        | 18.71                | 18.74   | 18.66   | 18.66   | 18.68   | 19.20   |         |
|   |            | 12         | 0         | 18.93                | 18.90   | 18.85   | 18.81   | 18.75   | 19.20   |         |
|   |            | 12         | 6         | 18.87                | 18.93   | 18.92   | 18.91   | 18.83   | 19.20   |         |
|   |            | 12         | 13        | 18.85                | 18.91   | 18.88   | 18.85   | 18.88   | 19.20   |         |
|   | 16QAM      | 25         | 0         | 18.87                | 18.87   | 18.81   | 18.79   | 18.77   | 19.20   |         |
|   |            | 1          | 0         | 18.94                | 18.89   | 18.87   | 18.86   | 18.86   | 19.20   |         |
|   |            | 1          | 13        | 19.01                | 18.98   | 18.98   | 18.95   | 18.92   | 19.20   |         |
|   |            | 1          | 24        | 18.92                | 18.92   | 18.90   | 18.88   | 18.88   | 19.20   |         |
|   |            | 12         | 0         | 18.79                | 18.86   | 18.75   | 18.71   | 18.70   | 19.20   |         |
|   |            | 12         | 6         | 18.84                | 18.88   | 18.85   | 18.88   | 18.73   | 19.20   |         |
|   | 64QAM      | 12         | 13        | 18.83                | 18.85   | 18.81   | 18.81   | 18.82   | 19.20   |         |
|   |            | 25         | 0         | 18.90                | 18.79   | 18.77   | 18.77   | 18.76   | 19.20   |         |
|   |            | 1          | 0         | 18.69                | 18.73   | 18.62   | 18.59   | 18.64   | 19.20   |         |
|   |            | 1          | 13        | 18.82                | 18.74   | 18.83   | 18.73   | 18.72   | 19.20   |         |
|   |            | 1          | 24        | 18.68                | 18.74   | 18.71   | 18.64   | 18.66   | 19.20   |         |
|   |            | 12         | 0         | 18.97                | 18.88   | 18.88   | 18.85   | 18.71   | 19.20   |         |
|   |            | 12         | 6         | 18.88                | 18.96   | 18.97   | 18.89   | 18.87   | 19.20   |         |
|   |            | 12         | 13        | 18.80                | 18.89   | 18.92   | 18.85   | 18.89   | 19.20   |         |
|   | 25         | 0          | 18.88     | 18.92                | 18.85   | 18.74   | 18.78   | 19.20   |         |         |
|   | Bandwidth  | Modulation | RB size   | RB offset            | Channel | Channel | Channel | Channel | Channel | Tune up |
|   |            |            |           |                      | 39700   | 40160   | 40620   | 41080   | 41540   |         |
|   | 10MHz      | QPSK       | 1         | 0                    | 18.65   | 18.63   | 18.62   | 18.60   | 18.64   | 19.20   |
|   |            |            | 1         | 25                   | 18.76   | 18.63   | 18.58   | 18.62   | 18.56   | 19.20   |
| 1   |            |            | 49        | 18.76                | 18.55   | 18.72   | 18.67   | 18.75   | 19.20   |         |
| 25  |            |            | 0         | 18.78                | 18.73   | 18.86   | 18.81   | 18.75   | 19.20   |         |
| 25  |            |            | 13        | 18.92                | 18.90   | 18.81   | 18.80   | 18.94   | 19.20   |         |
| 25  |            |            | 25        | 18.85                | 18.86   | 18.84   | 18.83   | 18.91   | 19.20   |         |
| 16QAM   |            | 50         | 0         | 18.87                | 18.89   | 18.81   | 18.84   | 18.84   | 19.20   |         |
|   |            | 1          | 0         | 18.91                | 19.02   | 18.88   | 18.92   | 18.86   | 19.20   |         |
|   |            | 1          | 25        | 18.98                | 18.94   | 18.88   | 18.87   | 18.94   | 19.20   |         |
|   |            | 1          | 49        | 19.09                | 18.90   | 18.84   | 18.86   | 18.81   | 19.20   |         |
|   |            | 25         | 0         | 18.82                | 18.73   | 18.65   | 18.68   | 18.58   | 19.20   |         |
|   |            | 25         | 13        | 18.76                | 18.86   | 18.76   | 18.78   | 18.78   | 19.20   |         |
|   |            | 25         | 25        | 18.73                | 18.89   | 18.76   | 18.72   | 18.74   | 19.20   |         |
|   |            | 50         | 0         | 18.92                | 18.85   | 18.79   | 18.82   | 18.86   | 19.20   |         |
| 64QAM   |            | 1          | 0         | 18.63                | 18.64   | 18.62   | 18.56   | 18.69   | 19.20   |         |
|   |            | 1          | 25        | 18.72                | 18.61   | 18.53   | 18.59   | 18.60   | 19.20   |         |
|   |            | 1          | 49        | 18.79                | 18.59   | 18.75   | 18.64   | 18.75   | 19.20   |         |
|   |            | 25         | 0         | 18.82                | 18.71   | 18.91   | 18.76   | 18.73   | 19.20   |         |
|   |            | 25         | 13        | 18.97                | 18.88   | 18.81   | 18.79   | 18.90   | 19.20   |         |
|   |            | 25         | 25        | 18.88                | 18.89   | 18.83   | 18.86   | 18.90   | 19.20   |         |
|   |            | 50         | 0         | 18.90                | 18.92   | 18.80   | 18.82   | 18.88   | 19.20   |         |

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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         | 18.87   | 18.88   | 18.88   | 18.86   | 18.84   | 19.20   |
|           |            | 1       | 38        | 18.84   | 18.77   | 18.75   | 18.75   | 18.79   | 19.20   |
|           |            | 1       | 74        | 19.02   | 18.93   | 18.93   | 18.94   | 18.89   | 19.20   |
|           |            | 36      | 0         | 19.00   | 18.95   | 18.93   | 18.98   | 18.94   | 19.20   |
|           |            | 36      | 18        | 19.03   | 19.08   | 19.06   | 19.10   | 18.94   | 19.20   |
|           |            | 36      | 39        | 19.13   | 19.02   | 18.91   | 18.88   | 19.00   | 19.20   |
|           |            | 75      | 0         | 19.09   | 19.07   | 18.99   | 18.96   | 18.94   | 19.20   |
|           | 16QAM      | 1       | 0         | 19.11   | 19.12   | 19.07   | 19.09   | 19.04   | 19.20   |
|           |            | 1       | 38        | 19.04   | 19.00   | 19.06   | 19.08   | 19.06   | 19.20   |
|           |            | 1       | 74        | 19.08   | 19.01   | 19.02   | 19.02   | 19.05   | 19.20   |
|           |            | 36      | 0         | 18.97   | 18.82   | 18.83   | 18.88   | 18.81   | 19.20   |
|           |            | 36      | 18        | 18.94   | 18.94   | 18.95   | 18.96   | 18.79   | 19.20   |
|           |            | 36      | 39        | 19.08   | 18.89   | 18.69   | 18.65   | 18.84   | 19.20   |
|           |            | 75      | 0         | 19.03   | 18.97   | 18.92   | 18.95   | 18.84   | 19.20   |
|           | 64QAM      | 1       | 0         | 18.82   | 18.83   | 18.90   | 18.84   | 18.83   | 19.20   |
|           |            | 1       | 38        | 18.88   | 18.81   | 18.74   | 18.75   | 18.80   | 19.20   |
|           |            | 1       | 74        | 19.06   | 18.93   | 18.89   | 18.90   | 18.90   | 19.20   |
|           |            | 36      | 0         | 19.01   | 18.99   | 18.89   | 18.99   | 18.97   | 19.20   |
|           |            | 36      | 18        | 19.05   | 19.07   | 19.02   | 19.10   | 18.97   | 19.20   |
|           |            | 36      | 39        | 19.10   | 19.07   | 18.96   | 18.91   | 19.02   | 19.20   |
|           |            | 75      | 0         | 19.04   | 19.12   | 19.03   | 18.96   | 18.93   | 19.20   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 18.88   | 18.83   | 18.83   | 18.84   | 18.78   | 19.20   |
|           |            | 1       | 50        | 19.12   | 18.81   | 18.04   | 19.00   | 19.11   | 19.20   |
|           |            | 1       | 99        | 18.87   | 19.06   | 18.85   | 18.90   | 18.70   | 19.20   |
|           |            | 50      | 0         | 18.98   | 18.99   | 19.02   | 18.98   | 18.86   | 19.20   |
|           |            | 50      | 25        | 19.05   | 19.05   | 18.89   | 18.86   | 18.96   | 19.20   |
|           |            | 50      | 50        | 19.05   | 18.95   | 19.00   | 18.99   | 18.98   | 19.20   |
|           |            | 100     | 0         | 19.12   | 19.06   | 18.93   | 18.89   | 18.99   | 19.20   |
|           | 16QAM      | 1       | 0         | 18.93   | 18.92   | 19.07   | 19.03   | 18.99   | 19.20   |
|           |            | 1       | 50        | 19.07   | 19.07   | 19.06   | 19.09   | 19.04   | 19.20   |
|           |            | 1       | 99        | 19.08   | 18.96   | 19.06   | 19.03   | 18.94   | 19.20   |
|           |            | 50      | 0         | 19.00   | 18.86   | 18.95   | 18.98   | 18.89   | 19.20   |
|           |            | 50      | 25        | 19.03   | 19.03   | 18.86   | 18.90   | 18.97   | 19.20   |
|           |            | 50      | 50        | 18.99   | 19.01   | 18.92   | 18.97   | 18.86   | 19.20   |
|           |            | 100     | 0         | 19.09   | 19.03   | 18.84   | 18.82   | 18.96   | 19.20   |
|           | 64QAM      | 1       | 0         | 18.92   | 18.87   | 18.78   | 18.89   | 18.81   | 19.20   |
|           |            | 1       | 50        | 18.74   | 18.77   | 18.72   | 18.77   | 18.76   | 19.20   |
|           |            | 1       | 99        | 18.92   | 18.77   | 18.89   | 18.91   | 18.65   | 19.20   |
|           |            | 50      | 0         | 19.01   | 19.04   | 19.06   | 18.94   | 18.87   | 19.20   |
|           |            | 50      | 25        | 19.00   | 19.05   | 18.86   | 18.87   | 18.92   | 19.20   |
|           |            | 50      | 50        | 19.01   | 18.93   | 19.01   | 18.97   | 18.96   | 19.20   |
|           |            | 100     | 0         | 19.09   | 19.01   | 18.88   | 18.84   | 18.95   | 19.20   |

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| LTE Band 66 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |       |
|-------------------------|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|                         |            |         |           | 131979               | 132322  | 132665  |         |       |
| 1.4MHz                  | QPSK       | 1       | 0         | 14.32                | 14.27   | 14.34   | 15.70   |       |
|                         |            | 1       | 2         | 14.51                | 14.49   | 14.42   | 15.70   |       |
|                         |            | 1       | 5         | 14.47                | 14.47   | 14.27   | 15.70   |       |
|                         |            | 3       | 0         | 14.50                | 14.35   | 14.35   | 15.70   |       |
|                         |            | 3       | 1         | 14.52                | 14.47   | 14.34   | 15.70   |       |
|                         |            | 3       | 3         | 14.44                | 14.41   | 14.28   | 15.70   |       |
|                         | 16QAM      | 6       | 0         | 14.54                | 14.47   | 14.32   | 15.70   |       |
|                         |            | 1       | 0         | 14.87                | 14.70   | 14.76   | 15.70   |       |
|                         |            | 1       | 2         | 15.00                | 14.88   | 14.90   | 15.70   |       |
|                         |            | 1       | 5         | 14.90                | 14.84   | 14.70   | 15.70   |       |
|                         |            | 3       | 0         | 14.62                | 14.62   | 14.70   | 15.70   |       |
|                         |            | 3       | 1         | 14.86                | 14.75   | 14.33   | 15.70   |       |
|                         | 64QAM      | 3       | 3         | 14.64                | 14.70   | 14.46   | 15.70   |       |
|                         |            | 6       | 0         | 14.73                | 14.72   | 14.62   | 15.70   |       |
|                         |            | 1       | 0         | 14.82                | 14.55   | 14.71   | 15.70   |       |
|                         |            | 1       | 2         | 14.78                | 14.60   | 14.66   | 15.70   |       |
|                         |            | 1       | 5         | 14.67                | 14.65   | 14.44   | 15.70   |       |
|                         |            | 3       | 0         | 14.43                | 14.56   | 14.70   | 15.70   |       |
|                         | 3MHz       | QPSK    | 3         | 1                    | 14.86   | 14.47   | 14.21   | 15.70 |
|                         |            |         | 3         | 3                    | 14.56   | 14.53   | 14.31   | 15.70 |
|                         |            |         | 6         | 0                    | 14.65   | 14.52   | 14.43   | 15.70 |
|                         |            |         | 1         | 0                    | 14.41   | 14.35   | 14.28   | 15.70 |
|                         |            |         | 1         | 7                    | 14.50   | 14.51   | 14.24   | 15.70 |
|                         |            |         | 1         | 14                   | 14.41   | 14.57   | 14.41   | 15.70 |
| 16QAM                   |            | 8       | 0         | 14.50                | 14.49   | 14.42   | 15.70   |       |
|                         |            | 8       | 4         | 14.68                | 14.57   | 14.54   | 15.70   |       |
|                         |            | 8       | 7         | 14.66                | 14.66   | 14.50   | 15.70   |       |
|                         |            | 15      | 0         | 14.56                | 14.49   | 14.48   | 15.70   |       |
|                         |            | 1       | 0         | 14.89                | 14.78   | 15.17   | 15.70   |       |
|                         |            | 1       | 7         | 14.84                | 14.59   | 14.62   | 15.70   |       |
| 64QAM                   | 1          | 14      | 15.15     | 14.82                | 14.77   | 15.70   |         |       |
|                         | 8          | 0       | 14.78     | 14.73                | 14.59   | 15.70   |         |       |
|                         | 8          | 4       | 14.80     | 14.70                | 14.60   | 15.70   |         |       |
|                         | 8          | 7       | 14.87     | 14.82                | 14.64   | 15.70   |         |       |
|                         | 15         | 0       | 14.80     | 14.60                | 14.58   | 15.70   |         |       |
|                         | 1          | 0       | 14.61     | 14.66                | 15.00   | 15.70   |         |       |
| 16QAM                   | 1          | 7       | 14.81     | 14.32                | 14.45   | 15.70   |         |       |
|                         | 1          | 14      | 15.12     | 14.70                | 14.61   | 15.70   |         |       |
|                         | 8          | 0       | 14.50     | 14.52                | 14.52   | 15.70   |         |       |
|                         | 8          | 4       | 14.67     | 14.49                | 14.52   | 15.70   |         |       |
|                         | 8          | 7       | 14.63     | 14.57                | 14.57   | 15.70   |         |       |
|                         | 15         | 0       | 14.78     | 14.45                | 14.57   | 15.70   |         |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 14.42   | 14.40   | 14.34   | 15.70   |
|           |            | 1       | 13        | 14.44   | 14.54   | 14.53   | 15.70   |
|           |            | 1       | 24        | 14.46   | 14.46   | 14.34   | 15.70   |
|           |            | 12      | 0         | 14.68   | 14.46   | 14.43   | 15.70   |
|           |            | 12      | 6         | 14.64   | 14.46   | 14.44   | 15.70   |
|           |            | 12      | 13        | 14.61   | 14.48   | 14.50   | 15.70   |
|           |            | 25      | 0         | 14.57   | 14.51   | 14.41   | 15.70   |
|           | 16QAM      | 1       | 0         | 14.94   | 14.97   | 14.79   | 15.70   |
|           |            | 1       | 13        | 14.79   | 14.74   | 15.38   | 15.70   |
|           |            | 1       | 24        | 15.21   | 15.29   | 15.07   | 15.70   |
|           |            | 12      | 0         | 14.77   | 14.61   | 14.64   | 15.70   |
|           |            | 12      | 6         | 14.86   | 14.64   | 14.62   | 15.70   |
|           |            | 12      | 13        | 14.67   | 14.68   | 14.65   | 15.70   |
|           |            | 25      | 0         | 14.77   | 14.66   | 14.55   | 15.70   |
|           | 64QAM      | 1       | 0         | 14.90   | 14.71   | 14.59   | 15.70   |
|           |            | 1       | 13        | 14.71   | 14.61   | 15.36   | 15.70   |
|           |            | 1       | 24        | 15.11   | 15.07   | 14.94   | 15.70   |
|           |            | 12      | 0         | 14.64   | 14.56   | 14.41   | 15.70   |
|           |            | 12      | 6         | 14.61   | 14.43   | 14.37   | 15.70   |
|           |            | 12      | 13        | 14.57   | 14.40   | 14.50   | 15.70   |
|           |            | 25      | 0         | 14.52   | 14.40   | 14.32   | 15.70   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 10MHz     | QPSK       | 1       | 0         | 14.47   | 14.33   | 14.40   | 15.70   |
|           |            | 1       | 25        | 14.51   | 14.41   | 14.36   | 15.70   |
|           |            | 1       | 49        | 14.38   | 14.43   | 14.45   | 15.70   |
|           |            | 25      | 0         | 14.48   | 14.41   | 14.39   | 15.70   |
|           |            | 25      | 13        | 14.59   | 14.54   | 14.48   | 15.70   |
|           |            | 25      | 25        | 14.48   | 14.50   | 14.48   | 15.70   |
|           |            | 50      | 0         | 14.64   | 14.47   | 14.54   | 15.70   |
|           | 16QAM      | 1       | 0         | 14.62   | 15.09   | 14.47   | 15.70   |
|           |            | 1       | 25        | 14.79   | 14.91   | 14.78   | 15.70   |
|           |            | 1       | 49        | 14.99   | 15.20   | 14.93   | 15.70   |
|           |            | 25      | 0         | 14.79   | 14.62   | 14.62   | 15.70   |
|           |            | 25      | 13        | 14.54   | 14.74   | 14.68   | 15.70   |
|           |            | 25      | 25        | 14.71   | 14.73   | 14.53   | 15.70   |
|           |            | 50      | 0         | 14.70   | 14.73   | 14.70   | 15.70   |
|           | 64QAM      | 1       | 0         | 14.55   | 15.08   | 14.32   | 15.70   |
|           |            | 1       | 25        | 14.66   | 14.72   | 14.67   | 15.70   |
|           |            | 1       | 49        | 14.84   | 15.03   | 14.88   | 15.70   |
|           |            | 25      | 0         | 14.55   | 14.43   | 14.35   | 15.70   |
|           |            | 25      | 13        | 14.32   | 14.65   | 14.45   | 15.70   |
|           |            | 25      | 25        | 14.65   | 14.69   | 14.41   | 15.70   |
|           |            | 50      | 0         | 14.43   | 14.59   | 14.49   | 15.70   |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 14.66   | 14.61   | 14.56   | 15.70   |
|           |            | 1       | 38        | 14.73   | 14.45   | 14.41   | 15.70   |
|           |            | 1       | 74        | 14.60   | 14.50   | 14.46   | 15.70   |
|           |            | 36      | 0         | 14.74   | 14.59   | 14.60   | 15.70   |
|           |            | 36      | 18        | 14.74   | 14.57   | 14.67   | 15.70   |
|           |            | 36      | 39        | 14.75   | 14.65   | 14.70   | 15.70   |
|           |            | 75      | 0         | 14.70   | 14.58   | 14.60   | 15.70   |
|           | 16QAM      | 1       | 0         | 15.09   | 15.10   | 15.01   | 15.70   |
|           |            | 1       | 38        | 15.21   | 14.99   | 15.02   | 15.70   |
|           |            | 1       | 74        | 15.11   | 15.10   | 14.92   | 15.70   |
|           |            | 36      | 0         | 14.87   | 14.90   | 14.71   | 15.70   |
|           |            | 36      | 18        | 14.88   | 14.90   | 14.70   | 15.70   |
|           |            | 36      | 39        | 14.88   | 14.79   | 14.72   | 15.70   |
|           |            | 75      | 0         | 14.97   | 14.79   | 14.84   | 15.70   |
|           | 64QAM      | 1       | 0         | 14.82   | 15.03   | 15.01   | 15.70   |
|           |            | 1       | 38        | 15.16   | 14.84   | 14.84   | 15.70   |
|           |            | 1       | 74        | 15.04   | 14.85   | 14.78   | 15.70   |
|           |            | 36      | 0         | 14.63   | 14.82   | 14.44   | 15.70   |
|           |            | 36      | 18        | 14.73   | 14.87   | 14.53   | 15.70   |
|           |            | 36      | 39        | 14.79   | 14.63   | 14.47   | 15.70   |
|           |            | 75      | 0         | 14.82   | 14.67   | 14.79   | 15.70   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 14.71   | 14.72   | 14.36   | 15.70   |
|           |            | 1       | 50        | 14.36   | 14.55   | 14.35   | 15.70   |
|           |            | 1       | 99        | 14.64   | 14.58   | 14.32   | 15.70   |
|           |            | 50      | 0         | 14.67   | 14.59   | 14.68   | 15.70   |
|           |            | 50      | 25        | 14.75   | 14.57   | 14.65   | 15.70   |
|           |            | 50      | 50        | 14.69   | 14.68   | 14.58   | 15.70   |
|           |            | 100     | 0         | 14.67   | 14.60   | 14.49   | 15.70   |
|           | 16QAM      | 1       | 0         | 15.26   | 15.09   | 15.41   | 15.70   |
|           |            | 1       | 50        | 14.88   | 14.74   | 14.65   | 15.70   |
|           |            | 1       | 99        | 15.15   | 15.20   | 14.81   | 15.70   |
|           |            | 50      | 0         | 14.87   | 14.84   | 14.85   | 15.70   |
|           |            | 50      | 25        | 14.94   | 14.87   | 14.88   | 15.70   |
|           |            | 50      | 50        | 14.87   | 14.93   | 14.91   | 15.70   |
|           |            | 100     | 0         | 14.84   | 14.79   | 14.79   | 15.70   |
|           | 64QAM      | 1       | 0         | 15.17   | 15.04   | 15.28   | 15.70   |
|           |            | 1       | 50        | 14.69   | 14.49   | 14.48   | 15.70   |
|           |            | 1       | 99        | 14.97   | 14.92   | 14.62   | 15.70   |
|           |            | 50      | 0         | 14.75   | 14.83   | 14.72   | 15.70   |
|           |            | 50      | 25        | 14.75   | 14.77   | 14.68   | 15.70   |
|           |            | 50      | 50        | 14.86   | 14.69   | 14.84   | 15.70   |
|           |            | 100     | 0         | 14.62   | 14.64   | 14.71   | 15.70   |

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| LTE Band 66 Receiver off |            |         |           | Conducted Power(dBm) |         |         |         |       |
|--------------------------|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth                | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|                          |            |         |           | 131979               | 132322  | 132665  |         |       |
| 1.4MHz                   | QPSK       | 1       | 0         | 17.25                | 17.14   | 17.21   | 18.50   |       |
|                          |            | 1       | 2         | 17.47                | 17.21   | 17.21   | 18.50   |       |
|                          |            | 1       | 5         | 17.27                | 17.18   | 17.21   | 18.50   |       |
|                          |            | 3       | 0         | 17.32                | 17.26   | 17.16   | 18.50   |       |
|                          |            | 3       | 1         | 17.45                | 17.30   | 17.11   | 18.50   |       |
|                          |            | 3       | 3         | 17.47                | 17.22   | 17.07   | 18.50   |       |
|                          | 16QAM      | 6       | 0         | 17.45                | 17.29   | 17.18   | 18.50   |       |
|                          |            | 1       | 0         | 17.67                | 17.39   | 17.31   | 18.50   |       |
|                          |            | 1       | 2         | 18.09                | 17.39   | 17.33   | 18.50   |       |
|                          |            | 1       | 5         | 17.61                | 17.58   | 17.22   | 18.50   |       |
|                          |            | 3       | 0         | 17.17                | 17.08   | 17.26   | 18.50   |       |
|                          |            | 3       | 1         | 17.43                | 17.37   | 17.22   | 18.50   |       |
|                          | 64QAM      | 3       | 3         | 17.37                | 17.39   | 17.20   | 18.50   |       |
|                          |            | 6       | 0         | 17.44                | 17.29   | 17.29   | 18.50   |       |
|                          |            | 1       | 0         | 17.98                | 17.88   | 17.71   | 18.50   |       |
|                          |            | 1       | 2         | 17.57                | 17.45   | 17.47   | 18.50   |       |
|                          |            | 1       | 5         | 17.65                | 17.56   | 17.74   | 18.50   |       |
|                          |            | 3       | 0         | 17.82                | 17.82   | 17.78   | 18.50   |       |
|                          | 3MHz       | QPSK    | 3         | 1                    | 17.86   | 17.64   | 17.84   | 18.50 |
|                          |            |         | 3         | 3                    | 17.79   | 17.95   | 17.72   | 18.50 |
|                          |            |         | 6         | 0                    | 18.07   | 17.77   | 17.79   | 18.50 |
|                          |            |         | 1         | 0                    | 17.44   | 17.23   | 17.17   | 18.50 |
|                          |            |         | 1         | 7                    | 17.23   | 17.39   | 17.11   | 18.50 |
|                          |            |         | 1         | 14                   | 17.44   | 17.23   | 17.06   | 18.50 |
| 16QAM                    | QPSK       | 8       | 0         | 17.52                | 17.39   | 17.29   | 18.50   |       |
|                          |            | 8       | 4         | 17.55                | 17.36   | 17.31   | 18.50   |       |
|                          |            | 8       | 7         | 17.49                | 17.47   | 17.26   | 18.50   |       |
|                          |            | 15      | 0         | 17.46                | 17.32   | 17.29   | 18.50   |       |
|                          |            | 1       | 0         | 17.74                | 17.20   | 17.44   | 18.50   |       |
|                          |            | 1       | 7         | 17.44                | 17.46   | 17.33   | 18.50   |       |
|                          | 16QAM      | 1       | 14        | 17.73                | 17.90   | 17.57   | 18.50   |       |
|                          |            | 8       | 0         | 17.47                | 17.40   | 17.29   | 18.50   |       |
|                          |            | 8       | 4         | 17.52                | 17.42   | 17.34   | 18.50   |       |
|                          |            | 8       | 7         | 17.48                | 17.43   | 17.20   | 18.50   |       |
|                          |            | 15      | 0         | 17.57                | 17.38   | 17.22   | 18.50   |       |
|                          |            | 1       | 0         | 17.66                | 17.38   | 17.21   | 18.50   |       |
| 64QAM                    | 1          | 7       | 17.29     | 17.47                | 17.17   | 18.50   |         |       |
|                          | 1          | 14      | 17.72     | 17.31                | 17.19   | 18.50   |         |       |
|                          | 8          | 0       | 17.74     | 17.52                | 17.43   | 18.50   |         |       |
|                          | 8          | 4       | 17.69     | 17.53                | 17.32   | 18.50   |         |       |
|                          | 8          | 7       | 17.76     | 17.61                | 17.43   | 18.50   |         |       |
|                          | 15         | 0       | 17.49     | 17.41                | 17.32   | 18.50   |         |       |

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| Bandwidth | Modulation | RB size    | RB offset | Channel   | Channel | Channel | Tune up |         |
|-----------|------------|------------|-----------|-----------|---------|---------|---------|---------|
|           |            |            |           | 131997    | 132322  | 132647  |         |         |
| 5MHz      | QPSK       | 1          | 0         | 17.19     | 17.32   | 17.31   | 18.50   |         |
|           |            | 1          | 13        | 17.52     | 17.35   | 17.47   | 18.50   |         |
|           |            | 1          | 24        | 17.45     | 17.39   | 17.41   | 18.50   |         |
|           |            | 12         | 0         | 17.58     | 17.40   | 17.34   | 18.50   |         |
|           |            | 12         | 6         | 17.58     | 17.39   | 17.38   | 18.50   |         |
|           |            | 12         | 13        | 17.52     | 17.44   | 17.44   | 18.50   |         |
|           | 16QAM      | 25         | 0         | 17.49     | 17.37   | 17.38   | 18.50   |         |
|           |            | 1          | 0         | 18.10     | 17.97   | 17.54   | 18.50   |         |
|           |            | 1          | 13        | 17.80     | 17.76   | 17.99   | 18.50   |         |
|           |            | 1          | 24        | 17.75     | 17.98   | 17.44   | 18.50   |         |
|           |            | 12         | 0         | 17.58     | 17.51   | 17.50   | 18.50   |         |
|           |            | 12         | 6         | 17.53     | 17.24   | 17.52   | 18.50   |         |
|           | 64QAM      | 12         | 13        | 17.46     | 17.46   | 17.49   | 18.50   |         |
|           |            | 25         | 0         | 17.39     | 17.44   | 17.36   | 18.50   |         |
|           |            | 1          | 0         | 17.47     | 17.60   | 17.43   | 18.50   |         |
|           |            | 1          | 13        | 17.79     | 17.61   | 17.58   | 18.50   |         |
|           |            | 1          | 24        | 17.65     | 17.47   | 17.63   | 18.50   |         |
|           |            | 12         | 0         | 17.72     | 17.65   | 17.40   | 18.50   |         |
|           | Bandwidth  | Modulation | RB size   | RB offset | Channel | Channel | Channel | Tune up |
|           |            |            |           |           | 132022  | 132322  | 132622  |         |
|           | 10MHz      | QPSK       | 12        | 6         | 17.70   | 17.60   | 17.47   | 18.50   |
| 12        |            |            | 13        | 17.62     | 17.67   | 17.60   | 18.50   |         |
| 25        |            |            | 0         | 17.63     | 17.61   | 17.39   | 18.50   |         |
| 1         |            |            | 0         | 17.32     | 17.47   | 17.39   | 18.50   |         |
| 1         |            |            | 25        | 17.43     | 17.27   | 17.23   | 18.50   |         |
| 1         |            |            | 49        | 17.22     | 17.24   | 17.41   | 18.50   |         |
| 16QAM     |            | 25         | 0         | 17.46     | 17.38   | 17.36   | 18.50   |         |
|           |            | 25         | 13        | 17.55     | 17.39   | 17.49   | 18.50   |         |
|           |            | 25         | 25        | 17.43     | 17.45   | 17.43   | 18.50   |         |
|           |            | 50         | 0         | 17.59     | 17.41   | 17.41   | 18.50   |         |
|           |            | 1          | 0         | 17.80     | 17.72   | 17.92   | 18.50   |         |
|           |            | 1          | 25        | 17.43     | 17.62   | 17.50   | 18.50   |         |
| 64QAM     |            | 1          | 49        | 17.83     | 17.56   | 17.96   | 18.50   |         |
|           |            | 25         | 0         | 17.40     | 17.45   | 17.37   | 18.50   |         |
|           |            | 25         | 13        | 17.64     | 17.44   | 17.52   | 18.50   |         |
|           |            | 25         | 25        | 17.56     | 17.58   | 17.54   | 18.50   |         |
|           |            | 50         | 0         | 17.51     | 17.48   | 17.41   | 18.50   |         |
|           |            | 1          | 0         | 17.49     | 17.70   | 17.56   | 18.50   |         |
| 64QAM     |            | 1          | 25        | 17.62     | 17.31   | 17.42   | 18.50   |         |
|           |            | 1          | 49        | 17.35     | 17.39   | 17.66   | 18.50   |         |
|           |            | 25         | 0         | 17.50     | 17.53   | 17.54   | 18.50   |         |
|           | 25         | 13         | 17.74     | 17.56     | 17.58   | 18.50   |         |         |
|           | 25         | 25         | 17.61     | 17.66     | 17.53   | 18.50   |         |         |
|           | 50         | 0          | 17.81     | 17.68     | 17.49   | 18.50   |         |         |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 17.48   | 17.45   | 17.43   | 18.50   |
|           |            | 1       | 38        | 17.62   | 17.61   | 17.49   | 18.50   |
|           |            | 1       | 74        | 17.55   | 17.48   | 17.56   | 18.50   |
|           |            | 36      | 0         | 17.59   | 17.58   | 17.58   | 18.50   |
|           |            | 36      | 18        | 17.69   | 17.65   | 17.55   | 18.50   |
|           |            | 36      | 39        | 17.69   | 17.65   | 17.68   | 18.50   |
|           |            | 75      | 0         | 17.71   | 17.64   | 17.52   | 18.50   |
|           | 16QAM      | 1       | 0         | 18.09   | 17.82   | 18.13   | 18.50   |
|           |            | 1       | 38        | 17.81   | 17.66   | 18.10   | 18.50   |
|           |            | 1       | 74        | 18.02   | 17.86   | 17.87   | 18.50   |
|           |            | 36      | 0         | 17.74   | 17.50   | 17.63   | 18.50   |
|           |            | 36      | 18        | 17.69   | 17.65   | 17.74   | 18.50   |
|           |            | 36      | 39        | 17.69   | 17.61   | 17.67   | 18.50   |
|           |            | 75      | 0         | 17.67   | 17.58   | 17.60   | 18.50   |
|           | 64QAM      | 1       | 0         | 17.69   | 17.45   | 17.48   | 18.50   |
|           |            | 1       | 38        | 17.76   | 17.88   | 17.75   | 18.50   |
|           |            | 1       | 74        | 17.63   | 17.62   | 17.66   | 18.50   |
|           |            | 36      | 0         | 17.75   | 17.61   | 17.86   | 18.50   |
|           |            | 36      | 18        | 17.96   | 17.69   | 17.69   | 18.50   |
|           |            | 36      | 39        | 17.74   | 17.67   | 17.79   | 18.50   |
|           |            | 75      | 0         | 17.97   | 17.83   | 17.78   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 17.78   | 17.72   | 17.50   | 18.50   |
|           |            | 1       | 50        | 17.79   | 17.42   | 17.44   | 18.50   |
|           |            | 1       | 99        | 17.51   | 17.50   | 17.58   | 18.50   |
|           |            | 50      | 0         | 17.74   | 17.71   | 17.56   | 18.50   |
|           |            | 50      | 25        | 17.80   | 17.57   | 17.71   | 18.50   |
|           |            | 50      | 50        | 17.73   | 17.69   | 17.60   | 18.50   |
|           |            | 100     | 0         | 17.79   | 17.62   | 17.64   | 18.50   |
|           | 16QAM      | 1       | 0         | 18.13   | 17.71   | 17.74   | 18.50   |
|           |            | 1       | 50        | 17.89   | 17.65   | 17.65   | 18.50   |
|           |            | 1       | 99        | 18.15   | 17.89   | 17.83   | 18.50   |
|           |            | 50      | 0         | 17.60   | 17.64   | 17.58   | 18.50   |
|           |            | 50      | 25        | 17.76   | 17.64   | 17.63   | 18.50   |
|           |            | 50      | 50        | 17.65   | 17.62   | 17.65   | 18.50   |
|           |            | 100     | 0         | 17.73   | 17.64   | 17.61   | 18.50   |
|           | 64QAM      | 1       | 0         | 17.93   | 17.98   | 17.69   | 18.50   |
|           |            | 1       | 50        | 17.72   | 17.62   | 17.44   | 18.50   |
|           |            | 1       | 99        | 17.53   | 17.51   | 17.64   | 18.50   |
|           |            | 50      | 0         | 17.81   | 17.78   | 17.68   | 18.50   |
|           |            | 50      | 25        | 17.97   | 17.81   | 17.96   | 18.50   |
|           |            | 50      | 50        | 17.93   | 17.86   | 17.80   | 18.50   |
|           |            | 100     | 0         | 17.84   | 17.81   | 17.70   | 18.50   |

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| LTE Band 66 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1)<br>Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |       |
|---|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|   |            |         |           | 131979               | 132322  | 132665  |         |       |
| 1.4MHz  | QPSK       | 1       | 0         | 12.46                | 12.53   | 12.48   | 14.00   |       |
|   |            | 1       | 2         | 12.67                | 12.65   | 12.51   | 14.00   |       |
|   |            | 1       | 5         | 12.61                | 12.68   | 12.61   | 14.00   |       |
|   |            | 3       | 0         | 12.63                | 12.58   | 12.45   | 14.00   |       |
|   |            | 3       | 1         | 12.65                | 12.71   | 12.49   | 14.00   |       |
|   |            | 3       | 3         | 12.59                | 12.67   | 12.60   | 14.00   |       |
|   | 16QAM      | 6       | 0         | 12.67                | 12.69   | 12.62   | 14.00   |       |
|   |            | 1       | 0         | 12.63                | 12.81   | 12.79   | 14.00   |       |
|   |            | 1       | 2         | 13.01                | 13.04   | 12.75   | 14.00   |       |
|   |            | 1       | 5         | 12.97                | 12.84   | 12.85   | 14.00   |       |
|   |            | 3       | 0         | 12.58                | 12.46   | 12.48   | 14.00   |       |
|   |            | 3       | 1         | 12.86                | 12.72   | 12.57   | 14.00   |       |
|   | 64QAM      | 3       | 3         | 12.61                | 12.60   | 12.70   | 14.00   |       |
|   |            | 6       | 0         | 12.89                | 12.71   | 12.75   | 14.00   |       |
|   |            | 1       | 0         | 12.50                | 12.56   | 12.75   | 14.00   |       |
|   |            | 1       | 2         | 12.95                | 12.89   | 12.56   | 14.00   |       |
|   |            | 1       | 5         | 12.77                | 12.72   | 12.57   | 14.00   |       |
|   |            | 3       | 0         | 12.48                | 12.18   | 12.26   | 14.00   |       |
|   | 3MHz       | QPSK    | 3         | 1                    | 12.85   | 12.64   | 12.57   | 14.00 |
|   |            |         | 3         | 3                    | 12.59   | 12.36   | 12.47   | 14.00 |
|   |            |         | 6         | 0                    | 12.65   | 12.50   | 12.69   | 14.00 |
|   |            |         | 1         | 0                    | 12.58   | 12.57   | 12.44   | 14.00 |
|   |            |         | 1         | 7                    | 12.70   | 12.69   | 12.73   | 14.00 |
|   |            |         | 1         | 14                   | 12.72   | 12.71   | 12.69   | 14.00 |
| 16QAM   |            | 8       | 0         | 12.74                | 12.72   | 12.57   | 14.00   |       |
|   |            | 8       | 4         | 12.86                | 12.78   | 12.72   | 14.00   |       |
|   |            | 8       | 7         | 12.81                | 12.86   | 12.74   | 14.00   |       |
|   |            | 15      | 0         | 12.83                | 12.73   | 12.65   | 14.00   |       |
|   |            | 1       | 0         | 12.81                | 12.76   | 12.41   | 14.00   |       |
|   |            | 1       | 7         | 12.77                | 12.45   | 12.83   | 14.00   |       |
| 64QAM   | 1          | 14      | 12.92     | 13.12                | 12.40   | 14.00   |         |       |
|   | 8          | 0       | 12.79     | 12.70                | 12.44   | 14.00   |         |       |
|   | 8          | 4       | 12.83     | 12.76                | 12.66   | 14.00   |         |       |
|   | 8          | 7       | 12.76     | 12.81                | 12.64   | 14.00   |         |       |
|   | 15         | 0       | 12.86     | 12.70                | 12.68   | 14.00   |         |       |
|   | 1          | 0       | 12.77     | 12.64                | 12.23   | 14.00   |         |       |
| 3MHz  | 64QAM      | 1       | 7         | 12.51                | 12.26   | 12.62   | 14.00   |       |
|   |            | 1       | 14        | 12.81                | 13.04   | 12.37   | 14.00   |       |
|   |            | 8       | 0         | 12.62                | 12.45   | 12.33   | 14.00   |       |
|   |            | 8       | 4         | 12.71                | 12.75   | 12.46   | 14.00   |       |
|   |            | 8       | 7         | 12.49                | 12.60   | 12.58   | 14.00   |       |
|   |            | 15      | 0         | 12.67                | 12.46   | 12.58   | 14.00   |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|-------|
|           |            |         |           | 131997  | 132322  | 132647  |         |       |       |
| 5MHz      | QPSK       | 1       | 0         | 12.65   | 12.73   | 12.62   | 14.00   |       |       |
|           |            | 1       | 13        | 12.89   | 12.87   | 12.69   | 14.00   |       |       |
|           |            | 1       | 24        | 12.68   | 12.78   | 12.67   | 14.00   |       |       |
|           |            | 12      | 0         | 12.90   | 12.74   | 12.75   | 14.00   |       |       |
|           |            | 12      | 6         | 12.87   | 12.78   | 12.72   | 14.00   |       |       |
|           |            | 12      | 13        | 12.83   | 12.79   | 12.79   | 14.00   |       |       |
|           | 16QAM      | 25      | 0         | 12.93   | 12.71   | 12.71   | 14.00   |       |       |
|           |            | 1       | 0         | 12.93   | 12.82   | 12.97   | 14.00   |       |       |
|           |            | 1       | 13        | 13.59   | 13.05   | 12.73   | 14.00   |       |       |
|           |            | 1       | 24        | 13.46   | 12.85   | 12.83   | 14.00   |       |       |
|           |            | 12      | 0         | 12.88   | 12.78   | 12.70   | 14.00   |       |       |
|           |            | 12      | 6         | 13.00   | 12.78   | 12.72   | 14.00   |       |       |
|           | 64QAM      | 12      | 13        | 12.90   | 12.77   | 12.72   | 14.00   |       |       |
|           |            | 25      | 0         | 12.83   | 12.75   | 12.71   | 14.00   |       |       |
|           |            | 1       | 0         | 12.68   | 12.66   | 12.89   | 14.00   |       |       |
|           |            | 1       | 13        | 13.53   | 13.02   | 12.73   | 14.00   |       |       |
|           |            | 1       | 24        | 13.36   | 12.61   | 12.70   | 14.00   |       |       |
|           |            | 12      | 0         | 12.74   | 12.71   | 12.50   | 14.00   |       |       |
|           | 10MHz      | QPSK    | 12        | 6       | 12.81   | 12.55   | 12.60   | 14.00 |       |
|           |            |         | 12        | 13      | 12.88   | 12.49   | 12.71   | 14.00 |       |
|           |            |         | 25        | 0       | 12.83   | 12.67   | 12.60   | 14.00 |       |
| 1         |            |         | 0         | 12.72   | 12.58   | 12.79   | 14.00   |       |       |
| 1         |            |         | 25        | 12.82   | 12.53   | 12.66   | 14.00   |       |       |
| 1         |            |         | 49        | 12.71   | 12.70   | 12.58   | 14.00   |       |       |
| 16QAM     |            | 25      | 0         | 12.65   | 12.72   | 12.73   | 14.00   |       |       |
|           |            | 25      | 13        | 12.84   | 12.77   | 12.80   | 14.00   |       |       |
|           |            | 25      | 25        | 12.82   | 12.77   | 12.81   | 14.00   |       |       |
|           |            | 50      | 0         | 13.00   | 12.75   | 12.77   | 14.00   |       |       |
|           |            | 1       | 0         | 13.13   | 12.47   | 12.86   | 14.00   |       |       |
|           |            | 1       | 25        | 13.52   | 13.06   | 13.41   | 14.00   |       |       |
| 64QAM     |            | 1       | 49        | 13.27   | 13.44   | 12.92   | 14.00   |       |       |
|           |            | 25      | 0         | 12.75   | 12.59   | 12.68   | 14.00   |       |       |
|           |            | 25      | 13        | 12.82   | 12.81   | 12.84   | 14.00   |       |       |
|           |            | 25      | 25        | 12.91   | 12.68   | 12.77   | 14.00   |       |       |
|           |            | 50      | 0         | 12.93   | 12.72   | 12.75   | 14.00   |       |       |
|           |            | 1       | 0         | 13.02   | 12.21   | 12.70   | 14.00   |       |       |
| 132022    |            | 132322  | 132622    | 1       | 25      | 13.30   | 12.95   | 13.13 | 14.00 |
|           |            |         |           | 1       | 49      | 13.14   | 13.32   | 12.92 | 14.00 |
|           |            |         |           | 25      | 0       | 12.69   | 12.40   | 12.53 | 14.00 |
|           | 25         |         |           | 13      | 12.59   | 12.54   | 12.82   | 14.00 |       |
|           | 25         |         |           | 25      | 12.83   | 12.48   | 12.49   | 14.00 |       |
|           | 50         |         |           | 0       | 12.67   | 12.60   | 12.54   | 14.00 |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 12.93   | 12.86   | 12.85   | 14.00   |
|           |            | 1       | 38        | 12.77   | 12.78   | 12.71   | 14.00   |
|           |            | 1       | 74        | 12.80   | 12.80   | 12.63   | 14.00   |
|           |            | 36      | 0         | 13.00   | 12.91   | 12.85   | 14.00   |
|           |            | 36      | 18        | 13.00   | 12.80   | 12.93   | 14.00   |
|           |            | 36      | 39        | 12.96   | 12.93   | 12.94   | 14.00   |
|           |            | 75      | 0         | 13.04   | 12.80   | 12.94   | 14.00   |
|           | 16QAM      | 1       | 0         | 12.95   | 13.11   | 13.49   | 14.00   |
|           |            | 1       | 38        | 12.80   | 13.02   | 13.43   | 14.00   |
|           |            | 1       | 74        | 13.36   | 13.11   | 13.02   | 14.00   |
|           |            | 36      | 0         | 13.10   | 13.01   | 12.81   | 14.00   |
|           |            | 36      | 18        | 13.02   | 12.90   | 12.97   | 14.00   |
|           |            | 36      | 39        | 13.00   | 12.95   | 12.87   | 14.00   |
|           |            | 75      | 0         | 13.00   | 12.89   | 12.89   | 14.00   |
|           | 64QAM      | 1       | 0         | 12.87   | 13.05   | 13.36   | 14.00   |
|           |            | 1       | 38        | 12.69   | 12.95   | 13.43   | 14.00   |
|           |            | 1       | 74        | 13.09   | 12.98   | 12.77   | 14.00   |
|           |            | 36      | 0         | 13.02   | 12.79   | 12.79   | 14.00   |
|           |            | 36      | 18        | 13.02   | 12.67   | 12.79   | 14.00   |
|           |            | 36      | 39        | 12.72   | 12.69   | 12.74   | 14.00   |
|           |            | 75      | 0         | 12.89   | 12.64   | 12.79   | 14.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 13.04   | 13.05   | 12.90   | 14.00   |
|           |            | 1       | 50        | 12.88   | 12.71   | 12.68   | 14.00   |
|           |            | 1       | 99        | 12.98   | 12.79   | 12.78   | 14.00   |
|           |            | 50      | 0         | 13.12   | 12.99   | 12.87   | 14.00   |
|           |            | 50      | 25        | 13.13   | 12.92   | 12.84   | 14.00   |
|           |            | 50      | 50        | 13.01   | 12.90   | 12.87   | 14.00   |
|           |            | 100     | 0         | 13.02   | 12.93   | 12.87   | 14.00   |
|           | 16QAM      | 1       | 0         | 13.33   | 13.10   | 13.33   | 14.00   |
|           |            | 1       | 50        | 13.09   | 13.47   | 12.92   | 14.00   |
|           |            | 1       | 99        | 13.07   | 12.98   | 12.98   | 14.00   |
|           |            | 50      | 0         | 13.12   | 12.94   | 12.97   | 14.00   |
|           |            | 50      | 25        | 13.02   | 12.93   | 12.87   | 14.00   |
|           |            | 50      | 50        | 13.01   | 13.02   | 12.94   | 14.00   |
|           |            | 100     | 0         | 12.99   | 12.91   | 12.95   | 14.00   |
|           | 64QAM      | 1       | 0         | 13.17   | 13.00   | 13.17   | 14.00   |
|           |            | 1       | 50        | 12.86   | 13.20   | 12.86   | 14.00   |
|           |            | 1       | 99        | 13.07   | 12.94   | 12.82   | 14.00   |
|           |            | 50      | 0         | 12.85   | 12.94   | 12.74   | 14.00   |
|           |            | 50      | 25        | 12.84   | 12.81   | 12.63   | 14.00   |
|           |            | 50      | 50        | 12.91   | 12.93   | 12.66   | 14.00   |
|           |            | 100     | 0         | 12.85   | 12.72   | 12.88   | 14.00   |

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| LTE Band 66 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1)<br>Receiver off |            |         |           | Conducted Power(dBm) |         |         |         |       |
|--|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|  |            |         |           | 131979               | 132322  | 132665  |         |       |
| 1.4MHz   | QPSK       | 1       | 0         | 15.59                | 15.43   | 15.36   | 16.80   |       |
|  |            | 1       | 2         | 15.59                | 15.57   | 15.38   | 16.80   |       |
|  |            | 1       | 5         | 15.53                | 15.47   | 15.36   | 16.80   |       |
|  |            | 3       | 0         | 15.56                | 15.48   | 15.43   | 16.80   |       |
|  |            | 3       | 1         | 15.62                | 15.51   | 15.28   | 16.80   |       |
|  |            | 3       | 3         | 15.65                | 15.59   | 15.32   | 16.80   |       |
|  | 16QAM      | 6       | 0         | 15.64                | 15.55   | 15.45   | 16.80   |       |
|  |            | 1       | 0         | 15.97                | 16.18   | 15.72   | 16.80   |       |
|  |            | 1       | 2         | 15.88                | 15.71   | 16.01   | 16.80   |       |
|  |            | 1       | 5         | 16.16                | 15.56   | 15.72   | 16.80   |       |
|  |            | 3       | 0         | 15.57                | 15.52   | 15.53   | 16.80   |       |
|  |            | 3       | 1         | 15.72                | 15.65   | 15.33   | 16.80   |       |
|  | 64QAM      | 3       | 3         | 15.55                | 15.62   | 15.46   | 16.80   |       |
|  |            | 6       | 0         | 15.53                | 15.61   | 15.50   | 16.80   |       |
|  |            | 1       | 0         | 15.93                | 16.07   | 15.54   | 16.80   |       |
|  |            | 1       | 2         | 15.75                | 15.60   | 15.86   | 16.80   |       |
|  |            | 1       | 5         | 16.07                | 15.56   | 15.49   | 16.80   |       |
|  |            | 3       | 0         | 15.33                | 15.48   | 15.44   | 16.80   |       |
|  | 3MHz       | QPSK    | 3         | 1                    | 15.51   | 15.37   | 15.31   | 16.80 |
|  |            |         | 3         | 3                    | 15.33   | 15.54   | 15.38   | 16.80 |
|  |            |         | 6         | 0                    | 15.48   | 15.43   | 15.26   | 16.80 |
|  |            |         | 1         | 0                    | 15.72   | 15.57   | 15.46   | 16.80 |
|  |            |         | 1         | 7                    | 15.61   | 15.56   | 15.41   | 16.80 |
|  |            |         | 1         | 14                   | 15.73   | 15.56   | 15.39   | 16.80 |
| 16QAM  |            | 8       | 0         | 15.74                | 15.57   | 15.59   | 16.80   |       |
|  |            | 8       | 4         | 15.67                | 15.66   | 15.62   | 16.80   |       |
|  |            | 8       | 7         | 15.74                | 15.65   | 15.50   | 16.80   |       |
|  |            | 15      | 0         | 15.71                | 15.63   | 15.63   | 16.80   |       |
|  |            | 1       | 0         | 15.84                | 15.97   | 15.62   | 16.80   |       |
|  |            | 1       | 7         | 15.69                | 15.70   | 15.34   | 16.80   |       |
| 64QAM  | 1          | 14      | 15.75     | 16.31                | 15.85   | 16.80   |         |       |
|  | 8          | 0       | 15.83     | 15.71                | 15.65   | 16.80   |         |       |
|  | 8          | 4       | 15.81     | 15.74                | 15.74   | 16.80   |         |       |
|  | 8          | 7       | 15.84     | 15.79                | 15.63   | 16.80   |         |       |
|  | 15         | 0       | 15.77     | 15.66                | 15.60   | 16.80   |         |       |
|  | 1          | 0       | 15.60     | 15.93                | 15.39   | 16.80   |         |       |
| 64QAM  | 1          | 7       | 15.47     | 15.70                | 15.11   | 16.80   |         |       |
|  | 1          | 14      | 15.60     | 16.20                | 15.83   | 16.80   |         |       |
|  | 8          | 0       | 15.64     | 15.58                | 15.64   | 16.80   |         |       |
|  | 8          | 4       | 15.57     | 15.53                | 15.66   | 16.80   |         |       |
|  | 8          | 7       | 15.66     | 15.57                | 15.57   | 16.80   |         |       |
|  | 15         | 0       | 15.75     | 15.63                | 15.37   | 16.80   |         |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 15.59   | 15.62   | 15.57   | 16.80   |
|           |            | 1       | 13        | 15.67   | 15.58   | 15.72   | 16.80   |
|           |            | 1       | 24        | 15.71   | 15.69   | 15.67   | 16.80   |
|           |            | 12      | 0         | 15.86   | 15.75   | 15.66   | 16.80   |
|           |            | 12      | 6         | 15.82   | 15.71   | 15.65   | 16.80   |
|           |            | 12      | 13        | 15.76   | 15.69   | 15.71   | 16.80   |
|           |            | 25      | 0         | 15.76   | 15.62   | 15.63   | 16.80   |
|           | 16QAM      | 1       | 0         | 16.03   | 15.87   | 15.99   | 16.80   |
|           |            | 1       | 13        | 15.97   | 16.28   | 15.72   | 16.80   |
|           |            | 1       | 24        | 15.98   | 16.30   | 16.16   | 16.80   |
|           |            | 12      | 0         | 15.82   | 15.71   | 15.67   | 16.80   |
|           |            | 12      | 6         | 15.85   | 15.75   | 15.78   | 16.80   |
|           |            | 12      | 13        | 15.90   | 15.84   | 15.78   | 16.80   |
|           |            | 25      | 0         | 15.82   | 15.72   | 15.61   | 16.80   |
|           | 64QAM      | 1       | 0         | 16.03   | 15.60   | 15.96   | 16.80   |
|           |            | 1       | 13        | 15.78   | 16.11   | 15.67   | 16.80   |
|           |            | 1       | 24        | 15.72   | 16.07   | 16.15   | 16.80   |
|           |            | 12      | 0         | 15.61   | 15.53   | 15.44   | 16.80   |
|           |            | 12      | 6         | 15.84   | 15.58   | 15.62   | 16.80   |
|           |            | 12      | 13        | 15.76   | 15.67   | 15.65   | 16.80   |
|           |            | 25      | 0         | 15.82   | 15.54   | 15.48   | 16.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 10MHz     | QPSK       | 1       | 0         | 15.57   | 15.47   | 15.42   | 16.80   |
|           |            | 1       | 25        | 15.50   | 15.65   | 15.56   | 16.80   |
|           |            | 1       | 49        | 15.65   | 15.50   | 15.52   | 16.80   |
|           |            | 25      | 0         | 15.68   | 15.61   | 15.53   | 16.80   |
|           |            | 25      | 13        | 15.79   | 15.66   | 15.70   | 16.80   |
|           |            | 25      | 25        | 15.75   | 15.72   | 15.73   | 16.80   |
|           |            | 50      | 0         | 15.82   | 15.65   | 15.66   | 16.80   |
|           | 16QAM      | 1       | 0         | 15.87   | 15.86   | 16.00   | 16.80   |
|           |            | 1       | 25        | 15.65   | 15.90   | 15.72   | 16.80   |
|           |            | 1       | 49        | 15.92   | 16.09   | 16.36   | 16.80   |
|           |            | 25      | 0         | 15.73   | 15.59   | 15.63   | 16.80   |
|           |            | 25      | 13        | 15.89   | 15.67   | 15.82   | 16.80   |
|           |            | 25      | 25        | 15.90   | 15.71   | 15.69   | 16.80   |
|           |            | 50      | 0         | 15.81   | 15.66   | 15.70   | 16.80   |
|           | 64QAM      | 1       | 0         | 15.84   | 15.77   | 15.91   | 16.80   |
|           |            | 1       | 25        | 15.48   | 15.71   | 15.63   | 16.80   |
|           |            | 1       | 49        | 15.80   | 15.95   | 16.36   | 16.80   |
|           |            | 25      | 0         | 15.60   | 15.54   | 15.53   | 16.80   |
|           |            | 25      | 13        | 15.86   | 15.60   | 15.59   | 16.80   |
|           |            | 25      | 25        | 15.66   | 15.49   | 15.52   | 16.80   |
|           |            | 50      | 0         | 15.64   | 15.45   | 15.54   | 16.80   |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 16.06   | 15.78   | 15.79   | 16.80   |
|           |            | 1       | 38        | 15.75   | 15.78   | 15.80   | 16.80   |
|           |            | 1       | 74        | 15.80   | 15.91   | 15.68   | 16.80   |
|           |            | 36      | 0         | 15.86   | 15.94   | 15.87   | 16.80   |
|           |            | 36      | 18        | 15.97   | 15.83   | 15.86   | 16.80   |
|           |            | 36      | 39        | 15.93   | 15.86   | 15.87   | 16.80   |
|           |            | 75      | 0         | 16.03   | 15.85   | 15.79   | 16.80   |
|           | 16QAM      | 1       | 0         | 16.12   | 16.03   | 15.95   | 16.80   |
|           |            | 1       | 38        | 16.62   | 16.58   | 16.39   | 16.80   |
|           |            | 1       | 74        | 16.52   | 16.69   | 16.19   | 16.80   |
|           |            | 36      | 0         | 16.00   | 15.90   | 15.88   | 16.80   |
|           |            | 36      | 18        | 16.06   | 15.91   | 15.91   | 16.80   |
|           |            | 36      | 39        | 16.07   | 15.96   | 16.06   | 16.80   |
|           | 64QAM      | 75      | 0         | 15.94   | 15.96   | 15.83   | 16.80   |
|           |            | 1       | 0         | 16.12   | 15.76   | 15.82   | 16.80   |
|           |            | 1       | 38        | 16.42   | 16.44   | 16.23   | 16.80   |
|           |            | 1       | 74        | 16.38   | 16.43   | 16.16   | 16.80   |
|           |            | 36      | 0         | 15.81   | 15.89   | 15.74   | 16.80   |
|           |            | 36      | 18        | 16.06   | 15.80   | 15.78   | 16.80   |
|           |            | 36      | 39        | 16.07   | 15.86   | 16.05   | 16.80   |
|           | 75         | 0       | 15.81     | 15.96   | 15.60   | 16.80   |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 16.01   | 15.97   | 15.84   | 16.80   |
|           |            | 1       | 50        | 15.60   | 15.79   | 15.67   | 16.80   |
|           |            | 1       | 99        | 15.78   | 15.77   | 15.62   | 16.80   |
|           |            | 50      | 0         | 16.04   | 15.90   | 15.86   | 16.80   |
|           |            | 50      | 25        | 16.00   | 15.90   | 15.99   | 16.80   |
|           |            | 50      | 50        | 15.93   | 15.94   | 15.85   | 16.80   |
|           |            | 100     | 0         | 16.06   | 15.92   | 15.94   | 16.80   |
|           | 16QAM      | 1       | 0         | 16.15   | 16.67   | 16.26   | 16.80   |
|           |            | 1       | 50        | 16.19   | 16.06   | 16.17   | 16.80   |
|           |            | 1       | 99        | 16.11   | 15.90   | 16.09   | 16.80   |
|           |            | 50      | 0         | 15.95   | 15.88   | 15.91   | 16.80   |
|           |            | 50      | 25        | 16.14   | 15.98   | 15.97   | 16.80   |
|           |            | 50      | 50        | 16.01   | 16.07   | 15.91   | 16.80   |
|           | 64QAM      | 100     | 0         | 16.02   | 15.94   | 15.95   | 16.80   |
|           |            | 1       | 0         | 16.10   | 16.59   | 16.06   | 16.80   |
|           |            | 1       | 50        | 15.96   | 15.97   | 16.02   | 16.80   |
|           |            | 1       | 99        | 16.07   | 15.66   | 16.06   | 16.80   |
|           |            | 50      | 0         | 15.75   | 15.66   | 15.78   | 16.80   |
|           |            | 50      | 25        | 15.97   | 15.87   | 15.83   | 16.80   |
|           |            | 50      | 50        | 15.79   | 15.87   | 15.69   | 16.80   |
|           | 100        | 0       | 15.74     | 15.71   | 15.88   | 16.80   |         |

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| LTE Band 66 WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|---|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|   |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz  | QPSK       | 1       | 0         | 13.49                | 13.43   | 13.34   | 15.00   |
|   |            | 1       | 2         | 13.63                | 13.54   | 13.54   | 15.00   |
|   |            | 1       | 5         | 13.64                | 13.74   | 13.59   | 15.00   |
|   |            | 3       | 0         | 13.58                | 13.57   | 13.49   | 15.00   |
|   |            | 3       | 1         | 13.66                | 13.67   | 13.58   | 15.00   |
|   |            | 3       | 3         | 13.66                | 13.60   | 13.53   | 15.00   |
|   | 16QAM      | 6       | 0         | 13.69                | 13.61   | 13.63   | 15.00   |
|   |            | 1       | 0         | 14.67                | 13.80   | 13.81   | 15.00   |
|   |            | 1       | 2         | 14.63                | 14.38   | 14.33   | 15.00   |
|   |            | 1       | 5         | 14.19                | 14.40   | 13.88   | 15.00   |
|   |            | 3       | 0         | 13.80                | 13.89   | 13.73   | 15.00   |
|   |            | 3       | 1         | 13.88                | 13.85   | 13.44   | 15.00   |
|   | 64QAM      | 3       | 3         | 13.86                | 13.81   | 13.67   | 15.00   |
|   |            | 6       | 0         | 14.11                | 13.96   | 13.73   | 15.00   |
|   |            | 1       | 0         | 13.86                | 14.39   | 13.72   | 15.00   |
|   |            | 1       | 2         | 13.68                | 14.05   | 13.67   | 15.00   |
|   |            | 1       | 5         | 13.98                | 13.79   | 13.73   | 15.00   |
|   |            | 3       | 0         | 13.96                | 13.78   | 13.76   | 15.00   |
|   |            | 3       | 1         | 14.01                | 13.88   | 13.65   | 15.00   |
|   |            | 3       | 3         | 13.93                | 13.86   | 13.47   | 15.00   |
|   |            | 6       | 0         | 13.95                | 13.78   | 13.73   | 15.00   |
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 3MHz  | QPSK       | 1       | 0         | 13.67                | 13.68   | 13.44   | 15.00   |
|   |            | 1       | 7         | 13.59                | 13.64   | 13.69   | 15.00   |
|   |            | 1       | 14        | 13.87                | 13.76   | 13.74   | 15.00   |
|   |            | 8       | 0         | 13.72                | 13.71   | 13.65   | 15.00   |
|   |            | 8       | 4         | 13.78                | 13.75   | 13.66   | 15.00   |
|   |            | 8       | 7         | 13.79                | 13.83   | 13.71   | 15.00   |
|   | 16QAM      | 15      | 0         | 13.81                | 13.73   | 13.61   | 15.00   |
|   |            | 1       | 0         | 14.07                | 14.44   | 13.77   | 15.00   |
|   |            | 1       | 7         | 13.84                | 14.15   | 13.72   | 15.00   |
|   |            | 1       | 14        | 14.00                | 14.00   | 13.96   | 15.00   |
|   |            | 8       | 0         | 14.12                | 13.94   | 13.90   | 15.00   |
|   |            | 8       | 4         | 14.05                | 13.95   | 13.93   | 15.00   |
|   | 64QAM      | 8       | 7         | 13.97                | 13.89   | 13.75   | 15.00   |
|   |            | 15      | 0         | 14.00                | 13.99   | 13.81   | 15.00   |
|   |            | 1       | 0         | 14.67                | 13.62   | 13.79   | 15.00   |
|   |            | 1       | 7         | 14.54                | 14.32   | 14.09   | 15.00   |
|   |            | 1       | 14        | 14.19                | 14.32   | 13.79   | 15.00   |
|   |            | 8       | 0         | 13.75                | 13.63   | 13.54   | 15.00   |
|   |            | 8       | 4         | 13.83                | 13.62   | 13.31   | 15.00   |
|   |            | 8       | 7         | 13.73                | 13.63   | 13.65   | 15.00   |
|   |            | 15      | 0         | 14.11                | 13.90   | 13.50   | 15.00   |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 131997  | 132322  | 132647  |         |       |
| 5MHz      | QPSK       | 1       | 0         | 13.77   | 13.70   | 13.77   | 15.00   |       |
|           |            | 1       | 13        | 13.76   | 13.90   | 13.69   | 15.00   |       |
|           |            | 1       | 24        | 13.88   | 13.72   | 13.75   | 15.00   |       |
|           |            | 12      | 0         | 13.96   | 13.78   | 13.76   | 15.00   |       |
|           |            | 12      | 6         | 13.96   | 13.83   | 13.82   | 15.00   |       |
|           |            | 12      | 13        | 13.89   | 13.82   | 13.81   | 15.00   |       |
|           | 16QAM      | 25      | 0         | 13.89   | 13.75   | 13.73   | 15.00   |       |
|           |            | 1       | 0         | 13.80   | 13.82   | 14.29   | 15.00   |       |
|           |            | 1       | 13        | 14.06   | 13.78   | 14.26   | 15.00   |       |
|           |            | 1       | 24        | 14.02   | 14.31   | 13.90   | 15.00   |       |
|           |            | 12      | 0         | 13.87   | 13.93   | 13.79   | 15.00   |       |
|           |            | 12      | 6         | 13.95   | 13.95   | 13.87   | 15.00   |       |
|           | 64QAM      | 12      | 13        | 13.92   | 13.84   | 13.78   | 15.00   |       |
|           |            | 25      | 0         | 13.89   | 13.82   | 13.72   | 15.00   |       |
|           |            | 1       | 0         | 14.03   | 14.17   | 13.58   | 15.00   |       |
|           |            | 1       | 13        | 13.77   | 13.87   | 13.71   | 15.00   |       |
|           |            | 1       | 24        | 13.98   | 13.92   | 13.87   | 15.00   |       |
|           |            | 12      | 0         | 13.96   | 13.80   | 13.67   | 15.00   |       |
|           | 10MHz      | QPSK    | 12        | 6       | 13.83   | 13.81   | 13.75   | 15.00 |
|           |            |         | 12        | 13      | 13.93   | 13.68   | 13.55   | 15.00 |
|           |            |         | 25        | 0       | 13.93   | 13.96   | 13.63   | 15.00 |
| 1         |            |         | 0         | 13.85   | 13.74   | 13.77   | 15.00   |       |
| 1         |            |         | 25        | 13.82   | 13.82   | 13.60   | 15.00   |       |
| 1         |            |         | 49        | 13.87   | 13.68   | 13.74   | 15.00   |       |
| 16QAM     |            | 25      | 0         | 13.91   | 13.83   | 13.72   | 15.00   |       |
|           |            | 25      | 13        | 13.92   | 13.80   | 13.80   | 15.00   |       |
|           |            | 25      | 25        | 13.81   | 13.83   | 13.79   | 15.00   |       |
|           |            | 50      | 0         | 13.86   | 13.78   | 13.74   | 15.00   |       |
|           |            | 1       | 0         | 14.10   | 14.14   | 14.12   | 15.00   |       |
|           |            | 1       | 25        | 14.14   | 13.96   | 13.74   | 15.00   |       |
| 64QAM     |            | 1       | 49        | 14.02   | 13.80   | 13.90   | 15.00   |       |
|           |            | 25      | 0         | 13.69   | 13.87   | 13.88   | 15.00   |       |
|           |            | 25      | 13        | 13.97   | 13.77   | 13.88   | 15.00   |       |
|           |            | 25      | 25        | 13.78   | 13.96   | 13.86   | 15.00   |       |
|           |            | 50      | 0         | 13.93   | 13.86   | 13.77   | 15.00   |       |
|           |            | 1       | 0         | 13.62   | 13.71   | 14.13   | 15.00   |       |
| QPSK      |            | 1       | 25        | 14.04   | 13.60   | 14.11   | 15.00   |       |
|           |            | 1       | 49        | 13.74   | 14.24   | 13.80   | 15.00   |       |
|           |            | 25      | 0         | 13.61   | 13.74   | 13.72   | 15.00   |       |
|           | 25         | 13      | 13.87     | 13.91   | 13.73   | 15.00   |         |       |
|           | 25         | 25      | 13.77     | 13.77   | 13.53   | 15.00   |         |       |
|           | 50         | 0       | 13.67     | 13.57   | 13.52   | 15.00   |         |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 14.07   | 13.90   | 13.80   | 15.00   |
|           |            | 1       | 38        | 13.84   | 13.84   | 13.71   | 15.00   |
|           |            | 1       | 74        | 13.78   | 13.79   | 13.67   | 15.00   |
|           |            | 36      | 0         | 14.04   | 13.92   | 13.94   | 15.00   |
|           |            | 36      | 18        | 14.05   | 13.88   | 13.97   | 15.00   |
|           |            | 36      | 39        | 13.91   | 13.98   | 14.00   | 15.00   |
|           |            | 75      | 0         | 13.99   | 13.90   | 14.01   | 15.00   |
|           | 16QAM      | 1       | 0         | 14.59   | 14.31   | 14.42   | 15.00   |
|           |            | 1       | 38        | 14.22   | 14.31   | 14.36   | 15.00   |
|           |            | 1       | 74        | 14.01   | 14.08   | 14.54   | 15.00   |
|           |            | 36      | 0         | 13.98   | 13.87   | 13.87   | 15.00   |
|           |            | 36      | 18        | 14.02   | 13.93   | 13.95   | 15.00   |
|           |            | 36      | 39        | 14.07   | 13.87   | 13.88   | 15.00   |
|           |            | 75      | 0         | 14.07   | 13.92   | 13.90   | 15.00   |
|           | 64QAM      | 1       | 0         | 14.03   | 14.01   | 13.98   | 15.00   |
|           |            | 1       | 38        | 14.14   | 13.93   | 13.62   | 15.00   |
|           |            | 1       | 74        | 13.75   | 13.80   | 13.79   | 15.00   |
|           |            | 36      | 0         | 13.51   | 13.70   | 13.71   | 15.00   |
|           |            | 36      | 18        | 13.93   | 13.54   | 13.65   | 15.00   |
|           |            | 36      | 39        | 13.50   | 13.73   | 13.62   | 15.00   |
|           |            | 75      | 0         | 13.79   | 13.68   | 13.60   | 15.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 14.04   | 14.06   | 13.93   | 15.00   |
|           |            | 1       | 50        | 13.93   | 13.62   | 13.72   | 15.00   |
|           |            | 1       | 99        | 13.98   | 13.71   | 13.76   | 15.00   |
|           |            | 50      | 0         | 14.13   | 14.11   | 13.95   | 15.00   |
|           |            | 50      | 25        | 14.15   | 13.90   | 14.00   | 15.00   |
|           |            | 50      | 50        | 13.97   | 14.00   | 13.93   | 15.00   |
|           |            | 100     | 0         | 14.07   | 13.90   | 13.86   | 15.00   |
|           | 16QAM      | 1       | 0         | 14.63   | 14.15   | 14.20   | 15.00   |
|           |            | 1       | 50        | 13.87   | 14.03   | 13.92   | 15.00   |
|           |            | 1       | 99        | 14.37   | 14.13   | 13.70   | 15.00   |
|           |            | 50      | 0         | 13.97   | 14.10   | 13.88   | 15.00   |
|           |            | 50      | 25        | 13.97   | 13.92   | 13.94   | 15.00   |
|           |            | 50      | 50        | 14.00   | 13.94   | 13.93   | 15.00   |
|           |            | 100     | 0         | 14.06   | 13.90   | 13.89   | 15.00   |
|           | 64QAM      | 1       | 0         | 14.34   | 14.10   | 14.16   | 15.00   |
|           |            | 1       | 50        | 14.08   | 14.05   | 14.27   | 15.00   |
|           |            | 1       | 99        | 13.78   | 13.90   | 14.33   | 15.00   |
|           |            | 50      | 0         | 13.90   | 13.82   | 13.75   | 15.00   |
|           |            | 50      | 25        | 14.00   | 13.88   | 13.82   | 15.00   |
|           |            | 50      | 50        | 13.84   | 13.63   | 13.86   | 15.00   |
|           |            | 100     | 0         | 13.96   | 13.82   | 13.68   | 15.00   |

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| LTE Band 66 WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT Receiver off |            |         |           | Conducted Power(dBm) |         |         |         |       |
|---|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|   |            |         |           | 131979               | 132322  | 132665  |         |       |
| 1.4MHz  | QPSK       | 1       | 0         | 16.68                | 16.58   | 16.39   | 17.80   |       |
|   |            | 1       | 2         | 16.75                | 16.61   | 16.46   | 17.80   |       |
|   |            | 1       | 5         | 16.70                | 16.67   | 16.42   | 17.80   |       |
|   |            | 3       | 0         | 16.81                | 16.68   | 16.53   | 17.80   |       |
|   |            | 3       | 1         | 16.83                | 16.75   | 16.58   | 17.80   |       |
|   |            | 3       | 3         | 16.82                | 16.73   | 16.53   | 17.80   |       |
|   | 16QAM      | 6       | 0         | 16.77                | 16.66   | 16.53   | 17.80   |       |
|   |            | 1       | 0         | 16.90                | 16.97   | 16.66   | 17.80   |       |
|   |            | 1       | 2         | 16.88                | 17.29   | 16.97   | 17.80   |       |
|   |            | 1       | 5         | 17.02                | 17.09   | 16.62   | 17.80   |       |
|   |            | 3       | 0         | 16.73                | 16.49   | 16.48   | 17.80   |       |
|   |            | 3       | 1         | 16.67                | 16.74   | 16.66   | 17.80   |       |
|   | 64QAM      | 3       | 3         | 16.83                | 16.74   | 16.44   | 17.80   |       |
|   |            | 6       | 0         | 16.72                | 16.85   | 16.58   | 17.80   |       |
|   |            | 1       | 0         | 16.59                | 16.38   | 16.38   | 17.80   |       |
|   |            | 1       | 2         | 16.61                | 16.47   | 16.29   | 17.80   |       |
|   |            | 1       | 5         | 16.50                | 16.52   | 16.39   | 17.80   |       |
|   |            | 3       | 0         | 16.74                | 16.57   | 16.26   | 17.80   |       |
|   | 3MHz       | QPSK    | 3         | 1                    | 16.83   | 16.47   | 16.31   | 17.80 |
|   |            |         | 3         | 3                    | 16.73   | 16.68   | 16.33   | 17.80 |
|   |            |         | 6         | 0                    | 16.76   | 16.60   | 16.43   | 17.80 |
|   |            |         | 1         | 0                    | 16.67   | 16.65   | 16.60   | 17.80 |
|   |            |         | 1         | 7                    | 16.80   | 16.79   | 16.50   | 17.80 |
|   |            |         | 1         | 14                   | 16.76   | 16.83   | 16.60   | 17.80 |
| 16QAM   |            | 8       | 0         | 16.82                | 16.76   | 16.69   | 17.80   |       |
|   |            | 8       | 4         | 16.92                | 16.82   | 16.75   | 17.80   |       |
|   |            | 8       | 7         | 16.79                | 16.81   | 16.68   | 17.80   |       |
|   |            | 15      | 0         | 16.86                | 16.79   | 16.78   | 17.80   |       |
|   |            | 1       | 0         | 16.83                | 16.77   | 17.29   | 17.80   |       |
|   |            | 1       | 7         | 17.01                | 16.82   | 16.71   | 17.80   |       |
| 64QAM   | 1          | 14      | 16.83     | 16.71                | 16.88   | 17.80   |         |       |
|   | 8          | 0       | 17.00     | 16.84                | 16.69   | 17.80   |         |       |
|   | 8          | 4       | 17.03     | 16.88                | 16.82   | 17.80   |         |       |
|   | 8          | 7       | 16.87     | 16.82                | 16.60   | 17.80   |         |       |
|   | 15         | 0       | 16.96     | 16.81                | 16.71   | 17.80   |         |       |
|   | 1          | 0       | 16.66     | 16.50                | 16.40   | 17.80   |         |       |
| 64QAM   | 1          | 7       | 16.66     | 16.55                | 16.36   | 17.80   |         |       |
|   | 1          | 14      | 16.49     | 16.62                | 16.57   | 17.80   |         |       |
|   | 8          | 0       | 16.65     | 16.56                | 16.59   | 17.80   |         |       |
|   | 8          | 4       | 16.87     | 16.78                | 16.47   | 17.80   |         |       |
|   | 8          | 7       | 16.72     | 16.59                | 16.59   | 17.80   |         |       |
|   | 15         | 0       | 16.59     | 16.70                | 16.69   | 17.80   |         |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 131997  | 132322  | 132647  |         |       |
| 5MHz      | QPSK       | 1       | 0         | 16.74   | 16.63   | 16.60   | 17.80   |       |
|           |            | 1       | 13        | 16.77   | 16.71   | 16.72   | 17.80   |       |
|           |            | 1       | 24        | 16.70   | 16.67   | 16.68   | 17.80   |       |
|           |            | 12      | 0         | 16.87   | 16.77   | 16.68   | 17.80   |       |
|           |            | 12      | 6         | 16.84   | 16.76   | 16.74   | 17.80   |       |
|           |            | 12      | 13        | 16.78   | 16.80   | 16.72   | 17.80   |       |
|           | 16QAM      | 25      | 0         | 16.81   | 16.70   | 16.66   | 17.80   |       |
|           |            | 1       | 0         | 17.20   | 17.12   | 16.77   | 17.80   |       |
|           |            | 1       | 13        | 17.26   | 16.79   | 16.86   | 17.80   |       |
|           |            | 1       | 24        | 16.97   | 16.83   | 16.56   | 17.80   |       |
|           |            | 12      | 0         | 16.92   | 16.83   | 16.74   | 17.80   |       |
|           |            | 12      | 6         | 16.86   | 16.69   | 16.77   | 17.80   |       |
|           | 64QAM      | 12      | 13        | 16.92   | 16.87   | 16.70   | 17.80   |       |
|           |            | 25      | 0         | 16.82   | 16.65   | 16.70   | 17.80   |       |
|           |            | 1       | 0         | 16.62   | 16.54   | 16.44   | 17.80   |       |
|           |            | 1       | 13        | 16.68   | 16.47   | 16.51   | 17.80   |       |
|           |            | 1       | 24        | 16.44   | 16.63   | 16.43   | 17.80   |       |
|           |            | 12      | 0         | 16.72   | 16.64   | 16.40   | 17.80   |       |
|           | 10MHz      | QPSK    | 12        | 6       | 16.76   | 16.54   | 16.64   | 17.80 |
|           |            |         | 12        | 13      | 16.67   | 16.71   | 16.62   | 17.80 |
|           |            |         | 25        | 0       | 16.69   | 16.49   | 16.44   | 17.80 |
| 132022    |            |         | 132322    | 132622  |         |         |         |       |
| 1         |            |         | 0         | 16.78   | 16.73   | 16.71   | 17.80   |       |
| 1         |            |         | 25        | 16.84   | 16.76   | 16.68   | 17.80   |       |
| 16QAM     |            | 1       | 49        | 16.70   | 16.63   | 16.75   | 17.80   |       |
|           |            | 25      | 0         | 16.73   | 16.69   | 16.72   | 17.80   |       |
|           |            | 25      | 13        | 16.88   | 16.80   | 16.80   | 17.80   |       |
|           |            | 25      | 25        | 16.79   | 16.76   | 16.78   | 17.80   |       |
|           |            | 50      | 0         | 16.97   | 16.74   | 16.76   | 17.80   |       |
|           |            | 1       | 0         | 17.68   | 17.09   | 16.92   | 17.80   |       |
| 64QAM     |            | 1       | 25        | 17.16   | 17.21   | 17.09   | 17.80   |       |
|           |            | 1       | 49        | 17.08   | 16.99   | 17.10   | 17.80   |       |
|           |            | 25      | 0         | 16.81   | 16.64   | 16.67   | 17.80   |       |
|           |            | 25      | 13        | 16.91   | 16.75   | 16.77   | 17.80   |       |
|           |            | 25      | 25        | 16.79   | 16.79   | 16.87   | 17.80   |       |
|           |            | 50      | 0         | 16.84   | 16.67   | 16.71   | 17.80   |       |
| QPSK      |            | 1       | 0         | 16.78   | 16.58   | 16.52   | 17.80   |       |
|           |            | 1       | 25        | 16.80   | 16.75   | 16.56   | 17.80   |       |
|           |            | 1       | 49        | 16.57   | 16.56   | 16.60   | 17.80   |       |
|           | 25         | 0       | 16.59     | 16.41   | 16.48   | 17.80   |         |       |
|           | 25         | 13      | 16.76     | 16.67   | 16.75   | 17.80   |         |       |
|           | 25         | 25      | 16.56     | 16.55   | 16.73   | 17.80   |         |       |
| 16QAM     | 50         | 0       | 16.93     | 16.51   | 16.51   | 17.80   |         |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 16.89   | 16.86   | 16.95   | 17.80   |
|           |            | 1       | 38        | 17.01   | 16.82   | 16.88   | 17.80   |
|           |            | 1       | 74        | 16.87   | 16.79   | 16.94   | 17.80   |
|           |            | 36      | 0         | 17.00   | 16.91   | 16.87   | 17.80   |
|           |            | 36      | 18        | 17.07   | 16.90   | 16.99   | 17.80   |
|           |            | 36      | 39        | 17.03   | 17.04   | 16.99   | 17.80   |
|           |            | 75      | 0         | 17.00   | 16.93   | 16.86   | 17.80   |
|           | 16QAM      | 1       | 0         | 17.34   | 17.29   | 17.56   | 17.80   |
|           |            | 1       | 38        | 17.63   | 17.17   | 17.45   | 17.80   |
|           |            | 1       | 74        | 17.44   | 17.26   | 17.19   | 17.80   |
|           |            | 36      | 0         | 16.96   | 16.87   | 16.83   | 17.80   |
|           |            | 36      | 18        | 16.93   | 16.84   | 16.89   | 17.80   |
|           |            | 36      | 39        | 17.04   | 17.05   | 16.94   | 17.80   |
|           |            | 75      | 0         | 17.07   | 16.99   | 17.03   | 17.80   |
|           | 64QAM      | 1       | 0         | 16.77   | 16.73   | 16.67   | 17.80   |
|           |            | 1       | 38        | 16.86   | 16.62   | 16.83   | 17.80   |
|           |            | 1       | 74        | 16.64   | 16.66   | 16.91   | 17.80   |
|           |            | 36      | 0         | 16.80   | 16.68   | 16.83   | 17.80   |
|           |            | 36      | 18        | 16.88   | 16.72   | 16.98   | 17.80   |
|           |            | 36      | 39        | 16.82   | 16.84   | 16.97   | 17.80   |
|           |            | 75      | 0         | 16.96   | 16.79   | 16.82   | 17.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 16.94   | 16.98   | 16.77   | 17.80   |
|           |            | 1       | 50        | 16.94   | 16.81   | 16.85   | 17.80   |
|           |            | 1       | 99        | 16.84   | 16.78   | 16.83   | 17.80   |
|           |            | 50      | 0         | 17.19   | 16.95   | 16.95   | 17.80   |
|           |            | 50      | 25        | 17.04   | 16.87   | 16.93   | 17.80   |
|           |            | 50      | 50        | 17.00   | 17.02   | 16.90   | 17.80   |
|           |            | 100     | 0         | 16.99   | 16.98   | 16.91   | 17.80   |
|           | 16QAM      | 1       | 0         | 17.08   | 17.31   | 17.17   | 17.80   |
|           |            | 1       | 50        | 17.24   | 17.02   | 17.21   | 17.80   |
|           |            | 1       | 99        | 17.48   | 17.20   | 17.16   | 17.80   |
|           |            | 50      | 0         | 17.02   | 16.97   | 16.79   | 17.80   |
|           |            | 50      | 25        | 17.05   | 16.92   | 16.97   | 17.80   |
|           |            | 50      | 50        | 17.07   | 17.03   | 16.93   | 17.80   |
|           |            | 100     | 0         | 17.08   | 16.92   | 16.94   | 17.80   |
|           | 64QAM      | 1       | 0         | 16.90   | 16.77   | 16.53   | 17.80   |
|           |            | 1       | 50        | 16.89   | 16.74   | 16.78   | 17.80   |
|           |            | 1       | 99        | 16.59   | 16.75   | 16.60   | 17.80   |
|           |            | 50      | 0         | 17.11   | 16.70   | 16.76   | 17.80   |
|           |            | 50      | 25        | 17.03   | 16.62   | 16.67   | 17.80   |
|           |            | 50      | 50        | 16.94   | 16.83   | 16.65   | 17.80   |
|           |            | 100     | 0         | 16.97   | 16.73   | 16.85   | 17.80   |

Table 19: Conducted Power of LTE

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## 8.1.4 Conducted Power of Main Antenna(Ant3)

### 8.1.4.1 Conducted Power of GSM

| GSM1900                 |            |       |       |       |         |                  |                                 |       |       |              |
|-------------------------|------------|-------|-------|-------|---------|------------------|---------------------------------|-------|-------|--------------|
| Burst Output Power(dBm) |            |       |       |       | Tune up | Division Factors | Frame-Average Output Power(dBm) |       |       | Tune up      |
| Channel                 |            | 512   | 661   | 810   |         |                  | 512                             | 661   | 810   |              |
| GSM(GMSK)               | GSM        | 28.81 | 28.79 | 28.68 | 30.00   | -9.19            | 19.62                           | 19.60 | 19.49 | 20.81        |
| GPRS/EGPRS<br>(GMSK)    | 1 TX Slot  | 28.78 | 28.78 | 28.75 | 30.00   | -9.19            | 19.59                           | 19.59 | 19.56 | 20.81        |
|                         | 2 TX Slots | 26.78 | 27.03 | 26.88 | 28.50   | -6.18            | 20.60                           | 20.85 | 20.70 | 22.32        |
|                         | 3 TX Slots | 24.68 | 24.98 | 24.68 | 26.50   | -4.42            | 20.26                           | 20.56 | 20.26 | 22.08        |
|                         | 4 TX Slots | 23.62 | 23.82 | 23.75 | 25.50   | -3.17            | 20.45                           | 20.65 | 20.58 | <b>22.33</b> |
| EGPRS(8PSK)             | 1 TX Slot  | 24.73 | 24.84 | 24.92 | 25.00   | -9.19            | 15.54                           | 15.65 | 15.73 | 15.81        |
|                         | 2 TX Slots | 22.85 | 22.88 | 22.81 | 24.00   | -6.18            | 16.67                           | 16.70 | 16.63 | 17.82        |
|                         | 3 TX Slots | 20.74 | 20.73 | 20.84 | 22.00   | -4.42            | 16.32                           | 16.31 | 16.42 | 17.58        |
|                         | 4 TX Slots | 19.82 | 19.92 | 19.72 | 21.00   | -3.17            | 16.65                           | 16.75 | 16.55 | 17.83        |

Table 20: Conducted Power of GSM

Note:

- 4) . CMW500 measures GSM peak and average output power for active timeslots. For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

| No. of timeslots                                     | 1     | 2      | 3      | 4       |
|--|-------|--------|--------|---------|
| Duty Cycle   | 1:8.3 | 1:4.15 | 1:2.77 | 1:2.075 |
| Time based avg. power compared to slotted avg. power | -9.19 | -6.18  | -4.42  | -3.17   |

- 5) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:  
 Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8
- 6) . When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used

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**8.1.4.2 Conducted Power of WCDMA**

| WCDMA Band II Receiver on/Receiver off/<br>WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/<br>WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT Receiver off |              |       |              |       |         |
|--|--------------|-------|--------------|-------|---------|
| Average Conducted Power(dBm)   |              |       |              |       |         |
| Channel  |              | 9262  | 9400         | 9538  | Tune up |
| WCDMA  | 12.2kbps RMC | 22.54 | <b>22.52</b> | 22.61 | 23.50   |
|  | 12.2kbps AMR | 22.51 | 22.49        | 22.57 | 23.50   |
| HSDPA  | Subtest 1    | 22.60 | 22.58        | 22.57 | 23.00   |
|  | Subtest 2    | 22.37 | 22.53        | 22.51 | 23.00   |
|  | Subtest 3    | 22.10 | 22.10        | 22.11 | 22.50   |
|  | Subtest 4    | 22.08 | 22.11        | 22.10 | 22.50   |
| HSUPA  | Subtest 1    | 21.57 | 21.53        | 21.56 | 23.00   |
|  | Subtest 2    | 19.60 | 19.61        | 19.58 | 20.50   |
|  | Subtest 3    | 20.55 | 20.58        | 20.56 | 22.00   |
|  | Subtest 4    | 19.58 | 19.57        | 19.57 | 20.50   |
|  | Subtest 5    | 22.60 | 22.62        | 22.60 | 23.00   |
| DC-HSDPA   | Subtest 1    | 22.59 | 22.56        | 22.53 | 23.00   |
|  | Subtest 2    | 22.53 | 22.54        | 22.50 | 23.00   |
|  | Subtest 3    | 22.09 | 22.07        | 22.15 | 22.50   |
|  | Subtest 4    | 22.12 | 22.10        | 22.13 | 22.50   |
| HSPA+  | 16QAM        | 22.44 | 22.52        | 22.56 | 23.00   |
| WCDMA Band II WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/  |              |       |              |       |         |
| Average Conducted Power(dBm)   |              |       |              |       |         |
| Channel  |              | 9262  | 9400         | 9538  | Tune up |
| WCDMA  | 12.2kbps RMC | 20.11 | 20.13        | 20.03 | 21.00   |
|  | 12.2kbps AMR | 20.13 | 20.14        | 20.00 | 21.00   |
| HSDPA  | Subtest 1    | 20.07 | 20.08        | 20.09 | 20.50   |
|  | Subtest 2    | 20.01 | 20.03        | 20.06 | 20.50   |
|  | Subtest 3    | 19.58 | 19.56        | 19.56 | 20.00   |
|  | Subtest 4    | 19.56 | 19.55        | 19.55 | 20.00   |
| HSUPA  | Subtest 1    | 19.07 | 19.55        | 19.52 | 20.50   |
|  | Subtest 2    | 17.07 | 16.99        | 16.96 | 18.00   |
|  | Subtest 3    | 18.08 | 18.01        | 18.01 | 19.50   |
|  | Subtest 4    | 17.04 | 17.03        | 16.97 | 18.00   |
|  | Subtest 5    | 20.10 | 20.14        | 20.05 | 20.50   |
| DC-HSDPA   | Subtest 1    | 20.10 | 20.05        | 20.05 | 20.50   |
|  | Subtest 2    | 19.99 | 20.03        | 20.01 | 20.50   |
|  | Subtest 3    | 19.54 | 19.58        | 19.51 | 20.00   |
|  | Subtest 4    | 19.56 | 19.58        | 19.59 | 20.00   |
| HSPA+  | 16QAM        | 20.11 | 20.13        | 19.96 | 20.50   |

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| WCDMA Band IV                |              |       |              |       |         |
|------------------------------|--------------|-------|--------------|-------|---------|
| Average Conducted Power(dBm) |              |       |              |       |         |
| Channel                      |              | 1312  | 1412         | 1513  | Tune up |
| WCDMA                        | 12.2kbps RMC | 22.78 | <b>22.81</b> | 22.75 | 23.70   |
|                              | 12.2kbps AMR | 22.71 | 22.84        | 22.74 | 23.70   |
| HSDPA                        | Subtest 1    | 22.82 | 22.77        | 22.78 | 23.20   |
|                              | Subtest 2    | 22.40 | 22.72        | 22.77 | 23.20   |
|                              | Subtest 3    | 22.35 | 22.38        | 22.32 | 22.70   |
|                              | Subtest 4    | 22.37 | 22.36        | 22.29 | 22.70   |
| HSUPA                        | Subtest 1    | 22.25 | 21.88        | 21.76 | 23.20   |
|                              | Subtest 2    | 19.80 | 19.90        | 19.77 | 20.70   |
|                              | Subtest 3    | 20.81 | 20.87        | 20.74 | 22.20   |
|                              | Subtest 4    | 19.77 | 19.89        | 19.74 | 20.70   |
|                              | Subtest 5    | 22.80 | 22.70        | 22.80 | 23.20   |
| DC-HSDPA                     | Subtest 1    | 22.77 | 22.73        | 22.79 | 23.20   |
|                              | Subtest 2    | 22.38 | 22.70        | 22.76 | 23.20   |
|                              | Subtest 3    | 22.34 | 22.42        | 22.35 | 22.70   |
|                              | Subtest 4    | 22.36 | 22.41        | 22.33 | 22.70   |
| HSPA+                        | 16QAM        | 22.77 | 22.70        | 22.73 | 23.20   |

Table 21: Conducted Power of WCDMA

Note:

4) when the maximum output power variation across the required test channels is  $> \frac{1}{2}$  dB, instead of the middle channel, the highest output power channel must be used.

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**8.1.4.3 Conducted Power of LTE**

| LTE Band 2 Receiver on/Receiver off/<br>WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |       |
|---|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|   |            |         |           | 18607                | 18900   | 19193   |         |       |
| 1.4MHz  | QPSK       | 1       | 0         | 22.11                | 22.15   | 22.15   | 23.00   |       |
|   |            | 1       | 2         | 22.27                | 22.21   | 22.23   | 23.00   |       |
|   |            | 1       | 5         | 22.17                | 22.22   | 22.29   | 23.00   |       |
|   |            | 3       | 0         | 22.22                | 22.21   | 22.21   | 23.00   |       |
|   |            | 3       | 2         | 22.28                | 22.25   | 22.30   | 23.00   |       |
|   |            | 3       | 3         | 22.22                | 22.20   | 22.19   | 23.00   |       |
|   | 16QAM      | 6       | 0         | 21.33                | 21.26   | 21.34   | 22.00   |       |
|   |            | 1       | 0         | 21.46                | 21.62   | 21.57   | 22.00   |       |
|   |            | 1       | 2         | 21.58                | 21.67   | 21.64   | 22.00   |       |
|   |            | 1       | 5         | 21.42                | 21.09   | 21.56   | 22.00   |       |
|   |            | 3       | 0         | 21.30                | 21.31   | 21.48   | 22.00   |       |
|   |            | 3       | 2         | 21.33                | 21.43   | 21.46   | 22.00   |       |
|   | 64QAM      | 3       | 3         | 21.28                | 21.18   | 21.43   | 22.00   |       |
|   |            | 6       | 0         | 20.28                | 20.30   | 20.41   | 21.00   |       |
|   |            | 1       | 0         | 20.44                | 20.62   | 20.50   | 21.00   |       |
|   |            | 1       | 2         | 20.43                | 20.64   | 20.48   | 21.00   |       |
|   |            | 1       | 5         | 20.39                | 20.07   | 20.44   | 21.00   |       |
|   |            | 3       | 0         | 20.26                | 20.20   | 20.20   | 21.00   |       |
|   | 3MHz       | QPSK    | 3         | 2                    | 20.28   | 20.27   | 20.23   | 21.00 |
|   |            |         | 3         | 3                    | 20.14   | 19.98   | 20.21   | 21.00 |
|   |            |         | 6         | 0                    | 19.09   | 19.07   | 19.40   | 20.00 |
|   |            |         | 1         | 0                    | 22.27   | 22.14   | 22.18   | 23.00 |
|   |            |         | 1         | 7                    | 22.20   | 22.32   | 22.37   | 23.00 |
|   |            |         | 1         | 14                   | 22.33   | 22.36   | 22.39   | 23.00 |
| 16QAM   |            | 8       | 0         | 21.39                | 21.36   | 21.46   | 22.00   |       |
|   |            | 8       | 4         | 21.34                | 21.39   | 21.45   | 22.00   |       |
|   |            | 8       | 7         | 21.35                | 21.30   | 21.43   | 22.00   |       |
|   |            | 15      | 0         | 21.40                | 21.31   | 21.49   | 22.00   |       |
|   |            | 1       | 0         | 21.51                | 21.65   | 21.41   | 22.00   |       |
|   |            | 1       | 7         | 21.93                | 21.49   | 21.59   | 22.00   |       |
| 64QAM   | 1          | 14      | 21.81     | 21.74                | 21.47   | 22.00   |         |       |
|   | 8          | 0       | 20.40     | 20.23                | 20.47   | 21.00   |         |       |
|   | 8          | 4       | 20.46     | 20.35                | 20.49   | 21.00   |         |       |
|   | 8          | 7       | 20.31     | 20.26                | 20.41   | 21.00   |         |       |
|   | 15         | 0       | 20.32     | 20.29                | 20.38   | 21.00   |         |       |
|   | 1          | 0       | 20.27     | 20.50                | 20.19   | 21.00   |         |       |
| 64QAM   | 1          | 7       | 20.75     | 20.34                | 20.36   | 21.00   |         |       |
|   | 1          | 14      | 20.65     | 20.76                | 20.35   | 21.00   |         |       |
|   | 8          | 0       | 19.26     | 19.08                | 19.22   | 20.00   |         |       |
|   | 8          | 4       | 19.26     | 19.12                | 19.26   | 20.00   |         |       |
|   | 8          | 7       | 19.16     | 19.03                | 19.22   | 20.00   |         |       |
|   | 15         | 0       | 19.27     | 19.22                | 19.19   | 20.00   |         |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 18625   | 18900   | 19175   |         |       |
| 5MHz      | QPSK       | 1       | 0         | 22.39   | 22.18   | 22.13   | 23.00   |       |
|           |            | 1       | 13        | 22.38   | 22.33   | 22.40   | 23.00   |       |
|           |            | 1       | 24        | 22.37   | 22.22   | 22.44   | 23.00   |       |
|           |            | 12      | 0         | 21.31   | 21.27   | 21.29   | 22.00   |       |
|           |            | 12      | 6         | 21.35   | 21.39   | 21.38   | 22.00   |       |
|           |            | 12      | 13        | 21.38   | 21.40   | 21.42   | 22.00   |       |
|           | 16QAM      | 25      | 0         | 21.33   | 21.34   | 21.37   | 22.00   |       |
|           |            | 1       | 0         | 21.03   | 21.50   | 21.63   | 22.00   |       |
|           |            | 1       | 13        | 21.75   | 21.89   | 21.49   | 22.00   |       |
|           |            | 1       | 24        | 21.56   | 21.31   | 21.68   | 22.00   |       |
|           |            | 12      | 0         | 20.44   | 20.31   | 20.31   | 21.00   |       |
|           |            | 12      | 6         | 20.38   | 20.32   | 20.34   | 21.00   |       |
|           | 64QAM      | 12      | 13        | 20.34   | 20.42   | 20.42   | 21.00   |       |
|           |            | 25      | 0         | 20.34   | 20.24   | 20.32   | 21.00   |       |
|           |            | 1       | 0         | 19.80   | 20.23   | 20.56   | 21.00   |       |
|           |            | 1       | 13        | 20.50   | 20.65   | 20.34   | 21.00   |       |
|           |            | 1       | 24        | 20.52   | 20.03   | 20.57   | 21.00   |       |
|           |            | 12      | 0         | 19.30   | 19.09   | 19.12   | 20.00   |       |
|           | 10MHz      | QPSK    | 12        | 6       | 19.24   | 19.26   | 19.32   | 20.00 |
|           |            |         | 12        | 13      | 19.19   | 19.15   | 19.31   | 20.00 |
|           |            |         | 25        | 0       | 19.13   | 19.07   | 19.04   | 20.00 |
| 1         |            |         | 0         | 22.11   | 22.25   | 22.29   | 23.00   |       |
| 1         |            |         | 25        | 22.19   | 22.21   | 22.14   | 23.00   |       |
| 1         |            |         | 49        | 22.14   | 22.37   | 22.26   | 23.00   |       |
| 16QAM     |            | 25      | 0         | 21.39   | 21.30   | 21.30   | 22.00   |       |
|           |            | 25      | 13        | 21.38   | 21.41   | 21.34   | 22.00   |       |
|           |            | 25      | 25        | 21.42   | 21.42   | 21.35   | 22.00   |       |
|           |            | 50      | 0         | 21.32   | 21.63   | 21.32   | 22.00   |       |
|           |            | 1       | 0         | 21.96   | 21.20   | 21.80   | 22.00   |       |
|           |            | 1       | 25        | 21.40   | 21.49   | 21.77   | 22.00   |       |
| 64QAM     | 1          | 49      | 21.90     | 21.67   | 21.79   | 22.00   |         |       |
|           | 25         | 0       | 20.27     | 20.34   | 20.34   | 21.00   |         |       |
|           | 25         | 13      | 20.42     | 20.38   | 20.52   | 21.00   |         |       |
|           | 25         | 25      | 20.36     | 20.32   | 20.34   | 21.00   |         |       |
|           | 50         | 0       | 20.37     | 20.45   | 20.31   | 21.00   |         |       |
|           | 1          | 0       | 20.90     | 19.92   | 20.73   | 21.00   |         |       |
| 10MHz     | 64QAM      | 1       | 25        | 20.29   | 20.32   | 20.77   | 21.00   |       |
|           |            | 1       | 49        | 20.71   | 20.55   | 20.62   | 21.00   |       |
|           |            | 25      | 0         | 19.13   | 19.28   | 19.14   | 20.00   |       |
|           |            | 25      | 13        | 19.34   | 19.22   | 19.37   | 20.00   |       |
|           |            | 25      | 25        | 19.33   | 19.07   | 19.28   | 20.00   |       |
|           |            | 50      | 0         | 19.35   | 19.36   | 19.27   | 20.00   |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.50   | 22.58   | 22.37   | 23.00   |
|           |            | 1       | 38        | 22.48   | 22.44   | 22.52   | 23.00   |
|           |            | 1       | 74        | 22.58   | 22.37   | 22.59   | 23.00   |
|           |            | 36      | 0         | 21.59   | 21.60   | 21.49   | 22.00   |
|           |            | 36      | 18        | 21.58   | 21.52   | 21.58   | 22.00   |
|           |            | 36      | 39        | 21.70   | 21.66   | 21.59   | 22.00   |
|           |            | 75      | 0         | 21.65   | 21.55   | 21.55   | 22.00   |
|           | 16QAM      | 1       | 0         | 21.76   | 21.54   | 21.84   | 22.00   |
|           |            | 1       | 38        | 21.70   | 21.52   | 21.37   | 22.00   |
|           |            | 1       | 74        | 21.89   | 21.62   | 21.85   | 22.00   |
|           |            | 36      | 0         | 20.54   | 20.52   | 20.52   | 21.00   |
|           |            | 36      | 18        | 20.61   | 20.56   | 20.50   | 21.00   |
|           |            | 36      | 39        | 20.70   | 20.57   | 20.63   | 21.00   |
|           |            | 75      | 0         | 20.63   | 20.64   | 20.55   | 21.00   |
|           | 64QAM      | 1       | 0         | 20.57   | 20.41   | 20.88   | 21.00   |
|           |            | 1       | 38        | 20.55   | 20.29   | 20.09   | 21.00   |
|           |            | 1       | 74        | 20.61   | 20.55   | 20.84   | 21.00   |
|           |            | 36      | 0         | 19.33   | 19.38   | 19.48   | 20.00   |
|           |            | 36      | 18        | 19.41   | 19.36   | 19.37   | 20.00   |
|           |            | 36      | 39        | 19.53   | 19.36   | 19.37   | 20.00   |
|           |            | 75      | 0         | 19.50   | 19.58   | 19.44   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 22.78   | 22.77   | 22.52   | 23.00   |
|           |            | 1       | 50        | 22.36   | 22.45   | 22.18   | 23.00   |
|           |            | 1       | 99        | 22.40   | 22.26   | 22.50   | 23.00   |
|           |            | 50      | 0         | 21.48   | 21.49   | 21.44   | 22.00   |
|           |            | 50      | 25        | 21.67   | 21.68   | 21.42   | 22.00   |
|           |            | 50      | 50        | 21.61   | 21.69   | 21.60   | 22.00   |
|           |            | 100     | 0         | 21.60   | 21.63   | 21.47   | 22.00   |
|           | 16QAM      | 1       | 0         | 21.83   | 21.53   | 21.38   | 22.00   |
|           |            | 1       | 50        | 21.97   | 21.50   | 21.47   | 22.00   |
|           |            | 1       | 99        | 21.82   | 21.79   | 21.62   | 22.00   |
|           |            | 50      | 0         | 20.46   | 20.58   | 20.61   | 21.00   |
|           |            | 50      | 25        | 20.72   | 20.60   | 20.47   | 21.00   |
|           |            | 50      | 50        | 20.71   | 20.47   | 20.65   | 21.00   |
|           |            | 100     | 0         | 20.58   | 20.66   | 20.50   | 21.00   |
|           | 64QAM      | 1       | 0         | 20.89   | 20.30   | 20.10   | 21.00   |
|           |            | 1       | 50        | 20.97   | 20.40   | 20.45   | 21.00   |
|           |            | 1       | 99        | 20.68   | 20.74   | 20.44   | 21.00   |
|           |            | 50      | 0         | 19.20   | 19.48   | 19.40   | 20.00   |
|           |            | 50      | 25        | 19.49   | 19.49   | 19.44   | 20.00   |
|           |            | 50      | 50        | 19.60   | 19.24   | 19.55   | 20.00   |
|           |            | 100     | 0         | 19.42   | 19.56   | 19.30   | 20.00   |

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| LTE Band 2 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1)<br>Receiver on/<br>WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT Receiver off |            |         |           | Conducted Power(dBm) |         |         |         |
|--|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|  |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz   | QPSK       | 1       | 0         | 21.20                | 21.22   | 21.32   | 22.10   |
|  |            | 1       | 2         | 21.36                | 21.29   | 21.34   | 22.10   |
|  |            | 1       | 5         | 21.24                | 21.28   | 21.34   | 22.10   |
|  |            | 3       | 0         | 21.26                | 21.30   | 21.34   | 22.10   |
|  |            | 3       | 2         | 21.33                | 21.26   | 21.41   | 22.10   |
|  |            | 3       | 3         | 21.30                | 21.25   | 21.38   | 22.10   |
|  | 16QAM      | 6       | 0         | 21.24                | 21.23   | 21.35   | 22.10   |
|  |            | 1       | 0         | 21.16                | 21.25   | 21.75   | 22.10   |
|  |            | 1       | 2         | 21.43                | 21.75   | 21.52   | 22.10   |
|  |            | 1       | 5         | 21.33                | 21.52   | 21.58   | 22.10   |
|  |            | 3       | 0         | 21.20                | 21.38   | 21.45   | 22.10   |
|  |            | 3       | 2         | 21.42                | 21.27   | 21.41   | 22.10   |
|  | 64QAM      | 3       | 3         | 21.21                | 21.39   | 21.32   | 22.10   |
|  |            | 6       | 0         | 20.32                | 20.30   | 20.37   | 21.10   |
|  |            | 1       | 0         | 20.23                | 20.55   | 20.33   | 21.10   |
|  |            | 1       | 2         | 20.37                | 20.61   | 20.39   | 21.10   |
|  |            | 1       | 5         | 20.12                | 19.95   | 20.35   | 21.10   |
|  |            | 3       | 0         | 20.24                | 20.00   | 20.04   | 21.10   |
|  |            | 3       | 2         | 20.15                | 20.03   | 20.10   | 21.10   |
|  |            | 3       | 3         | 19.99                | 19.84   | 20.05   | 21.10   |
|  |            | 6       | 0         | 19.06                | 19.04   | 19.33   | 20.10   |
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|  |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz   | QPSK       | 1       | 0         | 21.24                | 21.29   | 21.40   | 22.10   |
|  |            | 1       | 7         | 21.34                | 21.37   | 21.43   | 22.10   |
|  |            | 1       | 14        | 21.46                | 21.34   | 21.45   | 22.10   |
|  |            | 8       | 0         | 21.38                | 21.21   | 21.40   | 22.10   |
|  |            | 8       | 4         | 21.34                | 21.29   | 21.46   | 22.10   |
|  |            | 8       | 7         | 21.35                | 21.35   | 21.37   | 22.10   |
|  | 16QAM      | 15      | 0         | 21.35                | 21.32   | 21.40   | 22.10   |
|  |            | 1       | 0         | 21.48                | 21.73   | 21.21   | 22.10   |
|  |            | 1       | 7         | 21.37                | 21.64   | 21.31   | 22.10   |
|  |            | 1       | 14        | 21.05                | 21.29   | 21.47   | 22.10   |
|  |            | 8       | 0         | 20.40                | 20.41   | 20.52   | 21.10   |
|  |            | 8       | 4         | 20.46                | 20.30   | 20.50   | 21.10   |
|  |            | 8       | 7         | 20.50                | 20.50   | 20.48   | 21.10   |
|  |            | 15      | 0         | 20.46                | 20.30   | 20.43   | 21.10   |
|  |            | 64QAM   | 1         | 0                    | 20.13   | 20.24   | 19.94   |
|  | 1          |         | 7         | 20.62                | 20.22   | 20.26   | 21.10   |
|  | 1          |         | 14        | 20.51                | 20.50   | 20.24   | 21.10   |
|  | 8          |         | 0         | 19.15                | 18.84   | 19.22   | 20.10   |
|  | 8          |         | 4         | 19.14                | 18.84   | 19.16   | 20.10   |
|  | 8          |         | 7         | 18.94                | 18.94   | 19.04   | 20.10   |
|  | 15         | 0       | 19.23     | 18.99                | 18.94   | 20.10   |         |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 21.20   | 21.30   | 21.30   | 22.10   |
|           |            | 1       | 13        | 21.41   | 21.45   | 21.48   | 22.10   |
|           |            | 1       | 24        | 21.36   | 21.30   | 21.44   | 22.10   |
|           |            | 12      | 0         | 21.38   | 21.28   | 21.34   | 22.10   |
|           |            | 12      | 6         | 21.39   | 21.35   | 21.39   | 22.10   |
|           |            | 12      | 13        | 21.39   | 21.40   | 21.42   | 22.10   |
|           |            | 25      | 0         | 21.36   | 21.31   | 21.40   | 22.10   |
|           | 16QAM      | 1       | 0         | 21.40   | 21.71   | 21.13   | 22.10   |
|           |            | 1       | 13        | 21.51   | 22.05   | 21.52   | 22.10   |
|           |            | 1       | 24        | 21.18   | 21.57   | 21.31   | 22.10   |
|           |            | 12      | 0         | 20.33   | 20.32   | 20.36   | 21.10   |
|           |            | 12      | 6         | 20.38   | 20.37   | 20.37   | 21.10   |
|           |            | 12      | 13        | 20.44   | 20.41   | 20.52   | 21.10   |
|           |            | 25      | 0         | 20.33   | 20.43   | 20.35   | 21.10   |
|           | 64QAM      | 1       | 0         | 19.67   | 20.22   | 20.55   | 21.10   |
|           |            | 1       | 13        | 20.48   | 20.64   | 20.20   | 21.10   |
|           |            | 1       | 24        | 20.26   | 19.76   | 20.48   | 21.10   |
|           |            | 12      | 0         | 19.28   | 18.81   | 19.01   | 20.10   |
|           |            | 12      | 6         | 18.96   | 19.25   | 19.17   | 20.10   |
|           |            | 12      | 13        | 18.95   | 19.06   | 19.30   | 20.10   |
|           |            | 25      | 0         | 19.00   | 19.07   | 19.04   | 20.10   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 10MHz     | QPSK       | 1       | 0         | 21.26   | 21.30   | 21.20   | 22.10   |
|           |            | 1       | 25        | 21.47   | 21.31   | 21.36   | 22.10   |
|           |            | 1       | 49        | 21.15   | 21.35   | 21.40   | 22.10   |
|           |            | 25      | 0         | 21.39   | 21.24   | 21.28   | 22.10   |
|           |            | 25      | 13        | 21.39   | 21.41   | 21.41   | 22.10   |
|           |            | 25      | 25        | 21.39   | 21.35   | 21.42   | 22.10   |
|           |            | 50      | 0         | 21.30   | 21.38   | 21.36   | 22.10   |
|           | 16QAM      | 1       | 0         | 21.21   | 21.82   | 21.29   | 22.10   |
|           |            | 1       | 25        | 21.84   | 21.57   | 21.71   | 22.10   |
|           |            | 1       | 49        | 21.50   | 21.22   | 21.40   | 22.10   |
|           |            | 25      | 0         | 20.32   | 20.26   | 20.29   | 21.10   |
|           |            | 25      | 13        | 20.40   | 20.37   | 20.48   | 21.10   |
|           |            | 25      | 25        | 20.44   | 20.38   | 20.45   | 21.10   |
|           |            | 50      | 0         | 20.42   | 20.36   | 20.27   | 21.10   |
|           | 64QAM      | 1       | 0         | 20.90   | 19.87   | 20.64   | 21.10   |
|           |            | 1       | 25        | 20.03   | 20.09   | 20.63   | 21.10   |
|           |            | 1       | 49        | 20.59   | 20.55   | 20.45   | 21.10   |
|           |            | 25      | 0         | 18.95   | 19.11   | 18.92   | 20.10   |
|           |            | 25      | 13        | 19.29   | 19.16   | 19.24   | 20.10   |
|           |            | 25      | 25        | 19.16   | 18.96   | 19.02   | 20.10   |
|           |            | 50      | 0         | 19.29   | 19.28   | 18.99   | 20.10   |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 21.49   | 21.49   | 21.47   | 22.10   |
|           |            | 1       | 38        | 21.50   | 21.52   | 21.53   | 22.10   |
|           |            | 1       | 74        | 21.75   | 21.46   | 21.36   | 22.10   |
|           |            | 36      | 0         | 21.47   | 21.45   | 21.41   | 22.10   |
|           |            | 36      | 18        | 21.60   | 21.48   | 21.52   | 22.10   |
|           |            | 36      | 39        | 21.57   | 21.64   | 21.87   | 22.10   |
|           |            | 75      | 0         | 21.57   | 21.54   | 21.53   | 22.10   |
|           | 16QAM      | 1       | 0         | 21.64   | 21.42   | 21.46   | 22.10   |
|           |            | 1       | 38        | 21.46   | 21.51   | 21.65   | 22.10   |
|           |            | 1       | 74        | 21.31   | 21.42   | 21.63   | 22.10   |
|           |            | 36      | 0         | 20.50   | 20.53   | 20.45   | 21.10   |
|           |            | 36      | 18        | 20.58   | 20.50   | 20.50   | 21.10   |
|           |            | 36      | 39        | 20.57   | 20.63   | 20.50   | 21.10   |
|           |            | 75      | 0         | 20.57   | 20.63   | 20.53   | 21.10   |
|           | 64QAM      | 1       | 0         | 20.35   | 20.27   | 20.83   | 21.10   |
|           |            | 1       | 38        | 20.38   | 20.07   | 19.88   | 21.10   |
|           |            | 1       | 74        | 20.59   | 20.47   | 20.69   | 21.10   |
|           |            | 36      | 0         | 19.21   | 19.20   | 19.44   | 20.10   |
|           |            | 36      | 18        | 19.13   | 19.31   | 19.28   | 20.10   |
|           |            | 36      | 39        | 19.34   | 19.25   | 19.33   | 20.10   |
|           |            | 75      | 0         | 19.32   | 19.47   | 19.28   | 20.10   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 21.43   | 21.60   | 21.45   | 22.10   |
|           |            | 1       | 50        | 21.66   | 21.52   | 21.48   | 22.10   |
|           |            | 1       | 99        | 21.52   | 21.50   | 21.56   | 22.10   |
|           |            | 50      | 0         | 21.54   | 21.56   | 21.44   | 22.10   |
|           |            | 50      | 25        | 21.63   | 21.58   | 21.46   | 22.10   |
|           |            | 50      | 50        | 21.62   | 21.62   | 21.49   | 22.10   |
|           |            | 100     | 0         | 21.63   | 21.58   | 21.47   | 22.10   |
|           | 16QAM      | 1       | 0         | 21.63   | 21.77   | 21.63   | 22.10   |
|           |            | 1       | 50        | 21.63   | 21.38   | 21.37   | 22.10   |
|           |            | 1       | 99        | 21.62   | 21.61   | 21.50   | 22.10   |
|           |            | 50      | 0         | 20.56   | 20.49   | 20.40   | 21.10   |
|           |            | 50      | 25        | 20.59   | 20.51   | 20.49   | 21.10   |
|           |            | 50      | 50        | 20.63   | 20.59   | 20.41   | 21.10   |
|           |            | 100     | 0         | 20.58   | 20.59   | 20.36   | 21.10   |
|           | 64QAM      | 1       | 0         | 20.88   | 20.19   | 19.87   | 21.10   |
|           |            | 1       | 50        | 20.81   | 20.29   | 20.40   | 21.10   |
|           |            | 1       | 99        | 20.64   | 20.53   | 20.42   | 21.10   |
|           |            | 50      | 0         | 19.10   | 19.36   | 19.13   | 20.10   |
|           |            | 50      | 25        | 19.49   | 19.39   | 19.41   | 20.10   |
|           |            | 50      | 50        | 19.60   | 19.15   | 19.54   | 20.10   |
|           |            | 100     | 0         | 19.27   | 19.51   | 19.12   | 20.10   |

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| LTE Band 4 |            |         |           | Conducted Power(dBm) |         |         |         |       |
|------------|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|            |            |         |           | 19957                | 20175   | 20393   |         |       |
| 1.4MHz     | QPSK       | 1       | 0         | 22.46                | 22.38   | 22.41   | 23.20   |       |
|            |            | 1       | 2         | 22.68                | 22.64   | 22.34   | 23.20   |       |
|            |            | 1       | 5         | 22.56                | 22.54   | 22.26   | 23.20   |       |
|            |            | 3       | 0         | 22.54                | 22.55   | 22.45   | 23.20   |       |
|            |            | 3       | 2         | 22.58                | 22.53   | 22.44   | 23.20   |       |
|            |            | 3       | 3         | 22.56                | 22.44   | 22.35   | 23.20   |       |
|            | 16QAM      | 6       | 0         | 21.65                | 21.55   | 21.51   | 22.20   |       |
|            |            | 1       | 0         | 21.89                | 21.67   | 21.81   | 22.20   |       |
|            |            | 1       | 2         | 21.76                | 21.83   | 21.54   | 22.20   |       |
|            |            | 1       | 5         | 21.61                | 21.79   | 21.48   | 22.20   |       |
|            |            | 3       | 0         | 21.60                | 21.61   | 21.49   | 22.20   |       |
|            |            | 3       | 2         | 21.62                | 21.67   | 21.41   | 22.20   |       |
|            | 64QAM      | 3       | 3         | 21.72                | 21.76   | 21.42   | 22.20   |       |
|            |            | 6       | 0         | 20.78                | 20.73   | 20.41   | 21.20   |       |
|            |            | 1       | 0         | 20.83                | 20.56   | 20.74   | 21.20   |       |
|            |            | 1       | 2         | 20.55                | 20.60   | 20.36   | 21.20   |       |
|            |            | 1       | 5         | 20.43                | 20.52   | 20.32   | 21.20   |       |
|            |            | 3       | 0         | 20.57                | 20.49   | 20.31   | 21.20   |       |
|            | 3MHz       | QPSK    | 3         | 2                    | 20.60   | 20.50   | 20.28   | 21.20 |
|            |            |         | 3         | 3                    | 20.63   | 20.55   | 20.33   | 21.20 |
|            |            |         | 6         | 0                    | 19.62   | 19.73   | 19.41   | 20.20 |
|            |            |         | 1         | 0                    | 22.68   | 22.50   | 22.44   | 23.20 |
|            |            |         | 1         | 7                    | 22.56   | 22.68   | 22.48   | 23.20 |
|            |            |         | 1         | 14                   | 22.54   | 22.61   | 22.36   | 23.20 |
| 16QAM      |            | 8       | 0         | 21.74                | 21.69   | 21.59   | 22.20   |       |
|            |            | 8       | 4         | 21.67                | 21.71   | 21.60   | 22.20   |       |
|            |            | 8       | 7         | 21.70                | 21.68   | 21.56   | 22.20   |       |
|            |            | 15      | 0         | 21.69                | 21.64   | 21.61   | 22.20   |       |
|            |            | 1       | 0         | 21.87                | 21.89   | 22.00   | 22.20   |       |
|            |            | 1       | 7         | 21.56                | 22.13   | 21.62   | 22.20   |       |
| 64QAM      | 1          | 14      | 21.70     | 21.52                | 21.69   | 22.20   |         |       |
|            | 8          | 0       | 20.64     | 20.56                | 20.53   | 21.20   |         |       |
|            | 8          | 4       | 20.62     | 20.85                | 20.61   | 21.20   |         |       |
|            | 8          | 7       | 20.76     | 20.73                | 20.43   | 21.20   |         |       |
|            | 15         | 0       | 20.72     | 20.74                | 20.57   | 21.20   |         |       |
|            | 1          | 0       | 20.61     | 20.72                | 20.95   | 21.20   |         |       |
| 16QAM      | 1          | 7       | 20.40     | 21.12                | 20.34   | 21.20   |         |       |
|            | 1          | 14      | 20.64     | 20.37                | 20.44   | 21.20   |         |       |
|            | 8          | 0       | 19.58     | 19.39                | 19.33   | 20.20   |         |       |
|            | 8          | 4       | 19.53     | 19.79                | 19.53   | 20.20   |         |       |
|            | 8          | 7       | 19.48     | 19.73                | 19.42   | 20.20   |         |       |
|            | 15         | 0       | 19.69     | 19.60                | 19.43   | 20.20   |         |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 19975   | 20175   | 20375   |         |       |
| 5MHz      | QPSK       | 1       | 0         | 22.32   | 22.54   | 22.48   | 23.20   |       |
|           |            | 1       | 13        | 22.69   | 22.57   | 22.63   | 23.20   |       |
|           |            | 1       | 24        | 22.54   | 22.66   | 22.50   | 23.20   |       |
|           |            | 12      | 0         | 21.73   | 21.63   | 21.53   | 22.20   |       |
|           |            | 12      | 6         | 21.72   | 21.74   | 21.59   | 22.20   |       |
|           |            | 12      | 13        | 21.72   | 21.68   | 21.57   | 22.20   |       |
|           | 16QAM      | 25      | 0         | 21.65   | 21.61   | 21.53   | 22.20   |       |
|           |            | 1       | 0         | 21.74   | 21.68   | 21.56   | 22.20   |       |
|           |            | 1       | 13        | 21.71   | 21.79   | 21.73   | 22.20   |       |
|           |            | 1       | 24        | 21.74   | 21.53   | 21.47   | 22.20   |       |
|           |            | 12      | 0         | 20.70   | 20.68   | 20.55   | 21.20   |       |
|           |            | 12      | 6         | 20.75   | 20.67   | 20.52   | 21.20   |       |
|           | 64QAM      | 12      | 13        | 20.72   | 20.68   | 20.66   | 21.20   |       |
|           |            | 25      | 0         | 20.73   | 20.58   | 20.56   | 21.20   |       |
|           |            | 1       | 0         | 20.65   | 20.53   | 20.48   | 21.20   |       |
|           |            | 1       | 13        | 20.45   | 20.72   | 20.58   | 21.20   |       |
|           |            | 1       | 24        | 21.19   | 20.47   | 20.33   | 21.20   |       |
|           |            | 12      | 0         | 19.43   | 19.40   | 19.50   | 20.20   |       |
|           | 10MHz      | QPSK    | 12        | 6       | 19.73   | 19.63   | 19.36   | 20.20 |
|           |            |         | 12        | 13      | 19.56   | 19.65   | 19.41   | 20.20 |
|           |            |         | 25        | 0       | 19.59   | 19.57   | 19.54   | 20.20 |
| 1         |            |         | 0         | 22.29   | 22.69   | 22.55   | 23.20   |       |
| 1         |            |         | 25        | 22.53   | 22.58   | 22.50   | 23.20   |       |
| 1         |            |         | 49        | 22.72   | 22.62   | 22.48   | 23.20   |       |
| 16QAM     |            | 25      | 0         | 21.70   | 21.64   | 21.59   | 22.20   |       |
|           |            | 25      | 13        | 21.77   | 21.64   | 21.55   | 22.20   |       |
|           |            | 25      | 25        | 21.79   | 21.97   | 21.67   | 22.20   |       |
|           |            | 50      | 0         | 21.78   | 21.73   | 21.53   | 22.20   |       |
|           |            | 1       | 0         | 22.19   | 21.82   | 22.06   | 22.20   |       |
|           |            | 1       | 25        | 21.92   | 21.86   | 21.89   | 22.20   |       |
| 64QAM     | 1          | 49      | 22.00     | 21.98   | 21.84   | 22.20   |         |       |
|           | 25         | 0       | 20.59     | 20.69   | 20.65   | 21.20   |         |       |
|           | 25         | 13      | 20.69     | 20.83   | 20.60   | 21.20   |         |       |
|           | 25         | 25      | 20.73     | 20.68   | 20.70   | 21.20   |         |       |
|           | 50         | 0       | 20.74     | 20.68   | 20.60   | 21.20   |         |       |
|           | 1          | 0       | 21.08     | 20.80   | 20.86   | 21.20   |         |       |
| 10MHz     | QPSK       | 1       | 25        | 20.85   | 20.81   | 20.63   | 21.20   |       |
|           |            | 1       | 49        | 20.93   | 21.01   | 20.66   | 21.20   |       |
|           |            | 25      | 0         | 19.55   | 19.56   | 19.49   | 20.20   |       |
|           |            | 25      | 13        | 19.45   | 19.56   | 19.52   | 20.20   |       |
|           |            | 25      | 25        | 19.47   | 19.63   | 19.63   | 20.20   |       |
|           |            | 50      | 0         | 19.53   | 19.66   | 19.46   | 20.20   |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.39   | 22.27   | 22.30   | 23.20   |
|           |            | 1       | 38        | 22.12   | 22.17   | 22.21   | 23.20   |
|           |            | 1       | 74        | 22.16   | 22.21   | 22.28   | 23.20   |
|           |            | 36      | 0         | 21.34   | 21.26   | 21.35   | 22.20   |
|           |            | 36      | 18        | 21.29   | 21.36   | 21.37   | 22.20   |
|           |            | 36      | 39        | 21.31   | 21.33   | 21.32   | 22.20   |
|           |            | 75      | 0         | 21.31   | 21.35   | 21.25   | 22.20   |
|           | 16QAM      | 1       | 0         | 21.55   | 21.47   | 21.74   | 22.20   |
|           |            | 1       | 38        | 21.38   | 21.44   | 21.43   | 22.20   |
|           |            | 1       | 74        | 21.33   | 21.53   | 21.29   | 22.20   |
|           |            | 36      | 0         | 20.34   | 20.32   | 20.46   | 21.20   |
|           |            | 36      | 18        | 20.33   | 20.36   | 20.28   | 21.20   |
|           |            | 36      | 39        | 20.28   | 20.25   | 20.36   | 21.20   |
|           |            | 75      | 0         | 20.28   | 20.36   | 20.33   | 21.20   |
|           | 64QAM      | 1       | 0         | 20.29   | 20.37   | 20.53   | 21.20   |
|           |            | 1       | 38        | 20.16   | 20.20   | 20.26   | 21.20   |
|           |            | 1       | 74        | 20.17   | 20.47   | 20.02   | 21.20   |
|           |            | 36      | 0         | 19.21   | 19.18   | 19.32   | 20.20   |
|           |            | 36      | 18        | 19.16   | 19.28   | 19.01   | 20.20   |
|           |            | 36      | 39        | 19.04   | 19.05   | 19.15   | 20.20   |
|           |            | 75      | 0         | 19.20   | 19.27   | 19.28   | 20.20   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 23.01   | 23.02   | 22.87   | 23.20   |
|           |            | 1       | 50        | 22.70   | 22.78   | 22.65   | 23.20   |
|           |            | 1       | 99        | 22.72   | 22.77   | 22.76   | 23.20   |
|           |            | 50      | 0         | 21.93   | 21.88   | 21.92   | 22.20   |
|           |            | 50      | 25        | 21.85   | 21.91   | 21.80   | 22.20   |
|           |            | 50      | 50        | 21.88   | 21.90   | 21.80   | 22.20   |
|           |            | 100     | 0         | 22.18   | 21.94   | 21.82   | 22.20   |
|           | 16QAM      | 1       | 0         | 21.71   | 21.95   | 22.20   | 22.20   |
|           |            | 1       | 50        | 22.02   | 22.16   | 21.91   | 22.20   |
|           |            | 1       | 99        | 21.85   | 21.90   | 21.82   | 22.20   |
|           |            | 50      | 0         | 20.91   | 20.92   | 20.84   | 21.20   |
|           |            | 50      | 25        | 20.97   | 20.89   | 20.87   | 21.20   |
|           |            | 50      | 50        | 21.00   | 20.91   | 20.79   | 21.20   |
|           |            | 100     | 0         | 21.01   | 21.02   | 20.79   | 21.20   |
|           | 64QAM      | 1       | 0         | 20.45   | 21.18   | 21.14   | 21.20   |
|           |            | 1       | 50        | 21.01   | 20.99   | 20.75   | 21.20   |
|           |            | 1       | 99        | 20.88   | 20.87   | 20.55   | 21.20   |
|           |            | 50      | 0         | 19.76   | 19.80   | 19.72   | 20.20   |
|           |            | 50      | 25        | 19.76   | 19.85   | 19.60   | 20.20   |
|           |            | 50      | 50        | 19.95   | 19.91   | 19.55   | 20.20   |
|           |            | 100     | 0         | 19.99   | 19.83   | 19.60   | 20.20   |

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| LTE Band 7 Receiver on/<br>WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/<br>WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on/WWAN+WLAN 5G Receiver off<br>WWAN+WLAN 5G+BT Receiver off |            |         |           | Conducted Power(dBm) |         |         |         |       |
|---|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|   |            |         |           | 20775                | 21100   | 21425   |         |       |
| 5MHz  | QPSK       | 1       | 0         | 22.59                | 22.46   | 22.45   | 23.70   |       |
|   |            | 1       | 13        | 22.63                | 22.62   | 22.46   | 23.70   |       |
|   |            | 1       | 24        | 22.57                | 22.54   | 22.45   | 23.70   |       |
|   |            | 12      | 0         | 21.79                | 21.62   | 21.58   | 22.70   |       |
|   |            | 12      | 6         | 21.70                | 21.60   | 21.62   | 22.70   |       |
|   |            | 12      | 13        | 21.74                | 21.65   | 21.56   | 22.70   |       |
|   | 16QAM      | 25      | 0         | 21.66                | 21.58   | 21.54   | 22.70   |       |
|   |            | 1       | 0         | 22.02                | 21.59   | 21.66   | 22.70   |       |
|   |            | 1       | 13        | 21.88                | 21.94   | 21.67   | 22.70   |       |
|   |            | 1       | 24        | 21.89                | 22.19   | 21.70   | 22.70   |       |
|   |            | 12      | 0         | 20.75                | 20.53   | 20.55   | 21.70   |       |
|   |            | 12      | 6         | 20.79                | 20.61   | 20.61   | 21.70   |       |
|   | 64QAM      | 12      | 13        | 20.71                | 20.61   | 20.56   | 21.70   |       |
|   |            | 25      | 0         | 20.66                | 20.52   | 20.46   | 21.70   |       |
|   |            | 1       | 0         | 20.49                | 20.22   | 20.37   | 21.70   |       |
|   |            | 1       | 13        | 20.58                | 20.41   | 20.19   | 21.70   |       |
|   |            | 1       | 24        | 20.42                | 20.35   | 20.41   | 21.70   |       |
|   |            | 12      | 0         | 19.75                | 19.60   | 19.36   | 20.70   |       |
|   | 10MHz      | QPSK    | 12        | 6                    | 19.53   | 19.36   | 19.40   | 20.70 |
|   |            |         | 12        | 13                   | 19.55   | 19.50   | 19.54   | 20.70 |
|   |            |         | 25        | 0                    | 19.47   | 19.45   | 19.38   | 20.70 |
| 1   |            |         | 0         | 22.56                | 22.70   | 22.45   | 23.70   |       |
| 1   |            |         | 25        | 22.45                | 22.65   | 22.43   | 23.70   |       |
| 1   |            |         | 49        | 22.62                | 22.57   | 22.52   | 23.70   |       |
| 16QAM   |            | 25      | 0         | 21.76                | 21.58   | 21.65   | 22.70   |       |
|   |            | 25      | 13        | 21.71                | 21.69   | 21.63   | 22.70   |       |
|   |            | 25      | 25        | 21.73                | 21.74   | 21.65   | 22.70   |       |
|   |            | 50      | 0         | 21.77                | 21.60   | 21.62   | 22.70   |       |
|   |            | 1       | 0         | 21.92                | 22.03   | 21.85   | 22.70   |       |
|   |            | 1       | 25        | 21.62                | 21.68   | 21.83   | 22.70   |       |
| 64QAM   |            | 1       | 49        | 21.84                | 21.94   | 21.89   | 22.70   |       |
|   |            | 25      | 0         | 20.74                | 20.70   | 20.54   | 21.70   |       |
|   |            | 25      | 13        | 20.57                | 20.67   | 20.67   | 21.70   |       |
|   | 25         | 25      | 20.65     | 20.74                | 20.60   | 21.70   |         |       |
|   | 50         | 0       | 20.72     | 20.62                | 20.67   | 21.70   |         |       |
|   | 1          | 0       | 20.32     | 20.49                | 20.44   | 21.70   |         |       |
| 16QAM   | 1          | 25      | 20.36     | 20.41                | 20.29   | 21.70   |         |       |
|   | 1          | 49      | 20.38     | 20.46                | 20.35   | 21.70   |         |       |
|   | 25         | 0       | 19.51     | 19.54                | 19.61   | 20.70   |         |       |
|   | 25         | 13      | 19.49     | 19.56                | 19.48   | 20.70   |         |       |
|   | 25         | 25      | 19.61     | 19.62                | 19.61   | 20.70   |         |       |
|   | 50         | 0       | 19.60     | 19.48                | 19.61   | 20.70   |         |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.93   | 22.71   | 22.82   | 23.70   |
|           |            | 1       | 38        | 22.76   | 22.71   | 22.78   | 23.70   |
|           |            | 1       | 74        | 22.78   | 22.75   | 22.75   | 23.70   |
|           |            | 36      | 0         | 21.85   | 21.92   | 21.86   | 22.70   |
|           |            | 36      | 18        | 21.97   | 21.90   | 21.82   | 22.70   |
|           |            | 36      | 39        | 21.97   | 21.89   | 21.81   | 22.70   |
|           |            | 75      | 0         | 21.97   | 21.92   | 21.81   | 22.70   |
|           | 16QAM      | 1       | 0         | 22.04   | 21.90   | 21.92   | 22.70   |
|           |            | 1       | 38        | 22.12   | 21.91   | 21.80   | 22.70   |
|           |            | 1       | 74        | 21.81   | 22.10   | 21.90   | 22.70   |
|           |            | 36      | 0         | 20.92   | 20.90   | 20.86   | 21.70   |
|           |            | 36      | 18        | 20.96   | 20.85   | 20.90   | 21.70   |
|           |            | 36      | 39        | 21.02   | 20.98   | 20.89   | 21.70   |
|           |            | 75      | 0         | 20.84   | 20.82   | 20.88   | 21.70   |
|           | 64QAM      | 1       | 0         | 20.71   | 20.54   | 20.73   | 21.70   |
|           |            | 1       | 38        | 20.53   | 20.47   | 20.59   | 21.70   |
|           |            | 1       | 74        | 20.61   | 20.56   | 20.57   | 21.70   |
|           |            | 36      | 0         | 19.74   | 19.69   | 19.84   | 20.70   |
|           |            | 36      | 18        | 19.73   | 19.86   | 19.67   | 20.70   |
|           |            | 36      | 39        | 19.79   | 19.61   | 19.74   | 20.70   |
|           |            | 75      | 0         | 19.75   | 19.73   | 19.77   | 20.70   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 23.01   | 22.73   | 22.87   | 23.70   |
|           |            | 1       | 50        | 22.78   | 22.95   | 22.75   | 23.70   |
|           |            | 1       | 99        | 23.02   | 22.77   | 22.71   | 23.70   |
|           |            | 50      | 0         | 22.01   | 21.83   | 21.87   | 22.70   |
|           |            | 50      | 25        | 22.04   | 21.83   | 21.89   | 22.70   |
|           |            | 50      | 50        | 21.99   | 22.05   | 21.83   | 22.70   |
|           |            | 100     | 0         | 22.02   | 21.86   | 21.95   | 22.70   |
|           | 16QAM      | 1       | 0         | 22.11   | 21.93   | 21.99   | 22.70   |
|           |            | 1       | 50        | 22.10   | 21.98   | 21.69   | 22.70   |
|           |            | 1       | 99        | 21.90   | 22.20   | 22.05   | 22.70   |
|           |            | 50      | 0         | 20.85   | 20.94   | 20.76   | 21.70   |
|           |            | 50      | 25        | 21.03   | 20.91   | 20.89   | 21.70   |
|           |            | 50      | 50        | 20.99   | 20.90   | 20.92   | 21.70   |
|           |            | 100     | 0         | 21.03   | 20.96   | 20.88   | 21.70   |
|           | 64QAM      | 1       | 0         | 20.79   | 20.67   | 20.71   | 21.70   |
|           |            | 1       | 50        | 20.63   | 20.92   | 20.68   | 21.70   |
|           |            | 1       | 99        | 20.84   | 20.70   | 20.60   | 21.70   |
|           |            | 50      | 0         | 19.76   | 19.72   | 19.73   | 20.70   |
|           |            | 50      | 25        | 19.76   | 19.81   | 19.88   | 20.70   |
|           |            | 50      | 50        | 19.91   | 19.97   | 19.59   | 20.70   |
|           |            | 100     | 0         | 19.98   | 19.60   | 19.69   | 20.70   |

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| LTE Band 7 Receiver off |            |         |           | Conducted Power(dBm) |         |         |         |       |
|-------------------------|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|                         |            |         |           | 20775                | 21100   | 21425   |         |       |
| 5MHz                    | QPSK       | 1       | 0         | 21.51                | 21.24   | 21.49   | 23.00   |       |
|                         |            | 1       | 13        | 21.51                | 21.48   | 21.51   | 23.00   |       |
|                         |            | 1       | 24        | 21.46                | 21.52   | 21.47   | 23.00   |       |
|                         |            | 12      | 0         | 21.34                | 21.15   | 21.26   | 23.00   |       |
|                         |            | 12      | 6         | 21.31                | 21.20   | 21.28   | 23.00   |       |
|                         |            | 12      | 13        | 21.29                | 21.24   | 21.34   | 23.00   |       |
|                         | 16QAM      | 25      | 0         | 21.29                | 21.28   | 21.23   | 23.00   |       |
|                         |            | 1       | 0         | 21.31                | 21.00   | 21.60   | 23.00   |       |
|                         |            | 1       | 13        | 21.50                | 21.64   | 21.36   | 23.00   |       |
|                         |            | 1       | 24        | 21.58                | 21.36   | 21.49   | 23.00   |       |
|                         |            | 12      | 0         | 20.24                | 20.18   | 20.27   | 21.70   |       |
|                         |            | 12      | 6         | 20.29                | 20.29   | 20.32   | 21.70   |       |
|                         | 64QAM      | 12      | 13        | 20.24                | 20.23   | 20.29   | 21.70   |       |
|                         |            | 25      | 0         | 20.38                | 20.26   | 20.18   | 21.70   |       |
|                         |            | 1       | 0         | 20.44                | 20.36   | 20.62   | 21.70   |       |
|                         |            | 1       | 13        | 20.26                | 20.57   | 20.58   | 21.70   |       |
|                         |            | 1       | 24        | 20.57                | 20.48   | 20.69   | 21.70   |       |
|                         |            | 12      | 0         | 19.58                | 19.38   | 19.58   | 20.70   |       |
|                         | 10MHz      | QPSK    | 12        | 6                    | 19.59   | 19.47   | 19.59   | 20.70 |
|                         |            |         | 12        | 13                   | 19.53   | 19.51   | 19.58   | 20.70 |
|                         |            |         | 25        | 0                    | 19.58   | 19.45   | 19.52   | 20.70 |
|                         |            |         | 1         | 0                    | 21.39   | 21.23   | 21.24   | 23.00 |
|                         |            |         | 1         | 25                   | 21.35   | 21.41   | 21.38   | 23.00 |
|                         |            |         | 1         | 49                   | 21.51   | 21.55   | 21.38   | 23.00 |
| 16QAM                   |            | 25      | 0         | 21.35                | 21.13   | 21.25   | 23.00   |       |
|                         |            | 25      | 13        | 21.32                | 21.20   | 21.34   | 23.00   |       |
|                         |            | 25      | 25        | 21.34                | 21.28   | 21.26   | 23.00   |       |
|                         |            | 50      | 0         | 21.31                | 21.30   | 21.33   | 23.00   |       |
|                         |            | 1       | 0         | 21.43                | 21.19   | 21.45   | 23.00   |       |
|                         |            | 1       | 25        | 21.37                | 21.77   | 21.29   | 23.00   |       |
| 64QAM                   | 1          | 49      | 21.88     | 21.78                | 21.72   | 23.00   |         |       |
|                         | 25         | 0       | 20.25     | 20.11                | 20.14   | 21.70   |         |       |
|                         | 25         | 13      | 20.42     | 20.15                | 20.32   | 21.70   |         |       |
|                         | 25         | 25      | 20.25     | 20.22                | 20.25   | 21.70   |         |       |
|                         | 50         | 0       | 20.29     | 20.29                | 20.30   | 21.70   |         |       |
|                         | 1          | 0       | 20.75     | 20.35                | 20.71   | 21.70   |         |       |
| 10MHz                   | 64QAM      | 1       | 25        | 20.29                | 20.67   | 20.84   | 21.70   |       |
|                         |            | 1       | 49        | 20.67                | 20.65   | 20.47   | 21.70   |       |
|                         |            | 25      | 0         | 19.76                | 19.45   | 19.35   | 20.70   |       |
|                         |            | 25      | 13        | 19.57                | 19.56   | 19.59   | 20.70   |       |
|                         |            | 25      | 25        | 19.55                | 19.44   | 19.59   | 20.70   |       |
|                         |            | 50      | 0         | 19.55                | 19.53   | 19.46   | 20.70   |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 21.70   | 21.57   | 21.59   | 23.00   |
|           |            | 1       | 38        | 21.77   | 21.69   | 21.71   | 23.00   |
|           |            | 1       | 74        | 21.83   | 21.80   | 21.78   | 23.00   |
|           |            | 36      | 0         | 21.53   | 21.38   | 21.46   | 23.00   |
|           |            | 36      | 18        | 21.63   | 21.44   | 21.46   | 23.00   |
|           |            | 36      | 39        | 21.58   | 21.50   | 21.51   | 23.00   |
|           |            | 75      | 0         | 21.55   | 21.44   | 21.55   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.61   | 21.78   | 21.52   | 23.00   |
|           |            | 1       | 38        | 21.60   | 21.50   | 21.43   | 23.00   |
|           |            | 1       | 74        | 21.62   | 21.85   | 21.80   | 23.00   |
|           |            | 36      | 0         | 20.51   | 20.32   | 20.40   | 21.70   |
|           |            | 36      | 18        | 20.58   | 20.49   | 20.48   | 21.70   |
|           |            | 36      | 39        | 20.67   | 20.55   | 20.58   | 21.70   |
|           |            | 75      | 0         | 20.51   | 20.41   | 20.50   | 21.70   |
|           | 64QAM      | 1       | 0         | 20.46   | 20.08   | 20.34   | 21.70   |
|           |            | 1       | 38        | 20.21   | 20.50   | 20.24   | 21.70   |
|           |            | 1       | 74        | 20.09   | 20.38   | 20.52   | 21.70   |
|           |            | 36      | 0         | 19.28   | 19.16   | 19.32   | 20.70   |
|           |            | 36      | 18        | 19.47   | 19.37   | 19.40   | 20.70   |
|           |            | 36      | 39        | 19.38   | 19.25   | 19.32   | 20.70   |
|           |            | 75      | 0         | 19.37   | 19.26   | 19.37   | 20.70   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 21.85   | 21.86   | 22.14   | 23.00   |
|           |            | 1       | 50        | 21.79   | 22.13   | 21.84   | 23.00   |
|           |            | 1       | 99        | 22.15   | 21.85   | 21.89   | 23.00   |
|           |            | 50      | 0         | 21.53   | 21.74   | 21.43   | 23.00   |
|           |            | 50      | 25        | 21.59   | 21.53   | 21.54   | 23.00   |
|           |            | 50      | 50        | 21.75   | 22.01   | 21.90   | 23.00   |
|           |            | 100     | 0         | 21.59   | 21.57   | 21.85   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.65   | 21.87   | 21.84   | 23.00   |
|           |            | 1       | 50        | 21.36   | 21.51   | 21.70   | 23.00   |
|           |            | 1       | 99        | 21.47   | 21.71   | 22.02   | 23.00   |
|           |            | 50      | 0         | 20.37   | 20.30   | 20.40   | 21.70   |
|           |            | 50      | 25        | 20.56   | 20.51   | 20.52   | 21.70   |
|           |            | 50      | 50        | 20.63   | 20.46   | 20.56   | 21.70   |
|           |            | 100     | 0         | 20.52   | 20.45   | 20.52   | 21.70   |
|           | 64QAM      | 1       | 0         | 20.43   | 20.25   | 20.52   | 21.70   |
|           |            | 1       | 50        | 20.64   | 20.52   | 20.61   | 21.70   |
|           |            | 1       | 99        | 20.36   | 20.58   | 20.37   | 21.70   |
|           |            | 50      | 0         | 19.28   | 19.19   | 19.30   | 20.70   |
|           |            | 50      | 25        | 19.40   | 19.37   | 19.22   | 20.70   |
|           |            | 50      | 50        | 19.39   | 19.20   | 19.30   | 20.70   |
|           |            | 100     | 0         | 19.37   | 19.24   | 19.28   | 20.70   |

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| LTE Band 7 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1)<br>Receiver off/<br>WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ |            |         |           | Conducted Power(dBm) |         |         |         |       |
|---|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|   |            |         |           | 20775                | 21100   | 21425   |         |       |
| 5MHz  | QPSK       | 1       | 0         | 19.25                | 19.15   | 19.25   | 20.90   |       |
|   |            | 1       | 13        | 19.54                | 19.32   | 19.32   | 20.90   |       |
|   |            | 1       | 24        | 19.41                | 19.39   | 19.27   | 20.90   |       |
|   |            | 12      | 0         | 19.55                | 19.39   | 19.40   | 20.90   |       |
|   |            | 12      | 6         | 19.52                | 19.46   | 19.44   | 20.90   |       |
|   |            | 12      | 13        | 19.47                | 19.45   | 19.52   | 20.90   |       |
|   | 16QAM      | 25      | 0         | 19.45                | 19.42   | 19.43   | 20.90   |       |
|   |            | 1       | 0         | 19.93                | 19.47   | 19.45   | 20.90   |       |
|   |            | 1       | 13        | 19.61                | 19.98   | 19.39   | 20.90   |       |
|   |            | 1       | 24        | 20.02                | 19.51   | 19.55   | 20.90   |       |
|   |            | 12      | 0         | 19.56                | 19.32   | 19.43   | 20.90   |       |
|   |            | 12      | 6         | 19.43                | 19.47   | 19.51   | 20.90   |       |
|   | 64QAM      | 12      | 13        | 19.51                | 19.44   | 19.52   | 20.90   |       |
|   |            | 25      | 0         | 19.46                | 19.52   | 19.45   | 20.90   |       |
|   |            | 1       | 0         | 19.81                | 19.47   | 19.66   | 20.90   |       |
|   |            | 1       | 13        | 19.76                | 19.54   | 19.82   | 20.90   |       |
|   |            | 1       | 24        | 19.58                | 19.78   | 19.65   | 20.90   |       |
|   |            | 12      | 0         | 19.40                | 19.24   | 19.41   | 20.90   |       |
|   | 10MHz      | QPSK    | 12        | 6                    | 19.36   | 19.32   | 19.26   | 20.90 |
|   |            |         | 12        | 13                   | 19.45   | 19.26   | 19.34   | 20.90 |
|   |            |         | 25        | 0                    | 19.28   | 19.33   | 19.27   | 20.90 |
| 1   |            |         | 0         | 19.65                | 19.19   | 19.38   | 20.90   |       |
| 1   |            |         | 25        | 19.24                | 19.22   | 19.32   | 20.90   |       |
| 1   |            |         | 49        | 19.42                | 19.12   | 19.38   | 20.90   |       |
| 16QAM   |            | 25      | 0         | 19.54                | 19.33   | 19.38   | 20.90   |       |
|   |            | 25      | 13        | 19.51                | 19.44   | 19.48   | 20.90   |       |
|   |            | 25      | 25        | 19.50                | 19.44   | 19.45   | 20.90   |       |
|   |            | 50      | 0         | 19.58                | 19.54   | 19.44   | 20.90   |       |
|   |            | 1       | 0         | 19.57                | 19.54   | 19.94   | 20.90   |       |
|   |            | 1       | 25        | 19.41                | 19.26   | 20.00   | 20.90   |       |
| 64QAM   | 1          | 49      | 20.08     | 19.65                | 19.72   | 20.90   |         |       |
|   | 25         | 0       | 19.49     | 19.46                | 19.43   | 20.90   |         |       |
|   | 25         | 13      | 19.51     | 19.49                | 19.56   | 20.90   |         |       |
|   | 25         | 25      | 19.35     | 19.50                | 19.54   | 20.90   |         |       |
|   | 50         | 0       | 19.59     | 19.41                | 19.47   | 20.90   |         |       |
|   | 1          | 0       | 19.39     | 19.15                | 19.79   | 20.90   |         |       |
| 10MHz   | 64QAM      | 1       | 25        | 19.75                | 19.62   | 19.89   | 20.90   |       |
|   |            | 1       | 49        | 19.49                | 19.60   | 19.77   | 20.90   |       |
|   |            | 25      | 0         | 19.30                | 19.21   | 19.34   | 20.90   |       |
|   |            | 25      | 13        | 19.31                | 19.40   | 19.37   | 20.90   |       |
|   |            | 25      | 25        | 19.27                | 19.29   | 19.20   | 20.90   |       |
|   |            | 50      | 0         | 19.37                | 19.29   | 19.25   | 20.90   |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.51   | 19.61   | 19.52   | 20.90   |
|           |            | 1       | 38        | 19.72   | 19.57   | 19.69   | 20.90   |
|           |            | 1       | 74        | 19.77   | 19.67   | 19.71   | 20.90   |
|           |            | 36      | 0         | 19.76   | 19.58   | 19.63   | 20.90   |
|           |            | 36      | 18        | 19.80   | 19.67   | 19.71   | 20.90   |
|           |            | 36      | 39        | 19.73   | 19.75   | 19.76   | 20.90   |
|           |            | 75      | 0         | 19.82   | 19.66   | 19.66   | 20.90   |
|           | 16QAM      | 1       | 0         | 19.78   | 19.57   | 19.85   | 20.90   |
|           |            | 1       | 38        | 19.79   | 19.78   | 20.28   | 20.90   |
|           |            | 1       | 74        | 20.25   | 19.75   | 20.36   | 20.90   |
|           |            | 36      | 0         | 19.79   | 19.47   | 19.68   | 20.90   |
|           |            | 36      | 18        | 19.79   | 19.60   | 19.77   | 20.90   |
|           |            | 36      | 39        | 19.78   | 19.64   | 19.71   | 20.90   |
|           |            | 75      | 0         | 19.73   | 19.73   | 19.64   | 20.90   |
|           | 64QAM      | 1       | 0         | 19.94   | 19.56   | 19.73   | 20.90   |
|           |            | 1       | 38        | 19.95   | 19.47   | 19.88   | 20.90   |
|           |            | 1       | 74        | 19.67   | 20.07   | 19.63   | 20.90   |
|           |            | 36      | 0         | 19.63   | 19.31   | 19.54   | 20.90   |
|           |            | 36      | 18        | 19.56   | 19.58   | 19.51   | 20.90   |
|           |            | 36      | 39        | 19.62   | 19.55   | 19.64   | 20.90   |
|           |            | 75      | 0         | 19.54   | 19.51   | 19.37   | 20.90   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 19.53   | 19.38   | 19.43   | 20.90   |
|           |            | 1       | 50        | 19.46   | 19.52   | 19.70   | 20.90   |
|           |            | 1       | 99        | 19.75   | 19.49   | 19.72   | 20.90   |
|           |            | 50      | 0         | 19.66   | 19.56   | 19.63   | 20.90   |
|           |            | 50      | 25        | 19.78   | 19.64   | 19.70   | 20.90   |
|           |            | 50      | 50        | 19.78   | 19.66   | 19.79   | 20.90   |
|           |            | 100     | 0         | 19.73   | 19.68   | 19.68   | 20.90   |
|           | 16QAM      | 1       | 0         | 20.10   | 19.99   | 19.74   | 20.90   |
|           |            | 1       | 50        | 20.03   | 20.05   | 19.87   | 20.90   |
|           |            | 1       | 99        | 19.78   | 20.03   | 19.84   | 20.90   |
|           |            | 50      | 0         | 19.67   | 19.60   | 19.57   | 20.90   |
|           |            | 50      | 25        | 19.74   | 19.69   | 19.67   | 20.90   |
|           |            | 50      | 50        | 19.69   | 19.62   | 19.80   | 20.90   |
|           |            | 100     | 0         | 19.70   | 19.70   | 19.69   | 20.90   |
|           | 64QAM      | 1       | 0         | 20.07   | 19.75   | 19.72   | 20.90   |
|           |            | 1       | 50        | 19.75   | 19.70   | 19.82   | 20.90   |
|           |            | 1       | 99        | 19.99   | 19.79   | 20.12   | 20.90   |
|           |            | 50      | 0         | 19.47   | 19.42   | 19.56   | 20.90   |
|           |            | 50      | 25        | 19.61   | 19.50   | 19.61   | 20.90   |
|           |            | 50      | 50        | 19.56   | 19.38   | 19.51   | 20.90   |
|           |            | 100     | 0         | 19.57   | 19.53   | 19.53   | 20.90   |

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| LTE Band 38 |            |         |           | Conducted Power(dBm) |         |         |         |       |
|-------------|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|             |            |         |           | 37775                | 38000   | 38225   |         |       |
| 5MHz        | QPSK       | 1       | 0         | 23.05                | 23.04   | 22.94   | 23.60   |       |
|             |            | 1       | 13        | 23.06                | 23.01   | 23.05   | 23.60   |       |
|             |            | 1       | 24        | 23.04                | 23.00   | 22.97   | 23.60   |       |
|             |            | 12      | 0         | 22.08                | 21.99   | 22.00   | 22.60   |       |
|             |            | 12      | 6         | 22.16                | 22.10   | 22.12   | 22.60   |       |
|             |            | 12      | 13        | 22.09                | 22.06   | 22.10   | 22.60   |       |
|             | 16QAM      | 25      | 0         | 22.11                | 22.11   | 21.98   | 22.60   |       |
|             |            | 1       | 0         | 22.24                | 22.13   | 22.08   | 22.60   |       |
|             |            | 1       | 13        | 22.21                | 22.20   | 22.15   | 22.60   |       |
|             |            | 1       | 24        | 22.25                | 22.14   | 22.19   | 22.60   |       |
|             |            | 12      | 0         | 21.05                | 21.01   | 21.02   | 21.60   |       |
|             |            | 12      | 6         | 21.09                | 21.06   | 21.10   | 21.60   |       |
|             | 64QAM      | 12      | 13        | 21.06                | 21.01   | 21.07   | 21.60   |       |
|             |            | 25      | 0         | 21.18                | 21.07   | 20.99   | 21.60   |       |
|             |            | 1       | 0         | 21.12                | 21.02   | 20.89   | 21.60   |       |
|             |            | 1       | 13        | 20.94                | 21.18   | 21.04   | 21.60   |       |
|             |            | 1       | 24        | 20.99                | 21.12   | 20.92   | 21.60   |       |
|             |            | 12      | 0         | 19.82                | 19.85   | 19.90   | 20.60   |       |
|             | 10MHz      | QPSK    | 12        | 6                    | 19.94   | 19.97   | 19.86   | 20.60 |
|             |            |         | 12        | 13                   | 19.94   | 19.85   | 19.97   | 20.60 |
|             |            |         | 25        | 0                    | 19.92   | 20.05   | 19.82   | 20.60 |
|             |            |         | 1         | 0                    | 22.92   | 22.97   | 22.88   | 23.60 |
|             |            |         | 1         | 25                   | 23.18   | 22.99   | 22.90   | 23.60 |
|             |            |         | 1         | 49                   | 22.96   | 23.08   | 22.98   | 23.60 |
| 16QAM       |            | 25      | 0         | 22.30                | 22.19   | 21.99   | 22.60   |       |
|             |            | 25      | 13        | 22.28                | 22.10   | 22.07   | 22.60   |       |
|             |            | 25      | 25        | 22.19                | 22.13   | 22.12   | 22.60   |       |
|             |            | 50      | 0         | 22.20                | 22.08   | 21.99   | 22.60   |       |
|             |            | 1       | 0         | 22.27                | 22.26   | 22.13   | 22.60   |       |
|             |            | 1       | 25        | 22.24                | 22.11   | 22.21   | 22.60   |       |
| 64QAM       | 1          | 49      | 22.20     | 22.01                | 21.99   | 22.60   |         |       |
|             | 25         | 0       | 21.02     | 20.99                | 21.06   | 21.60   |         |       |
|             | 25         | 13      | 21.07     | 21.10                | 21.04   | 21.60   |         |       |
|             | 25         | 25      | 21.19     | 21.14                | 21.13   | 21.60   |         |       |
|             | 50         | 0       | 21.15     | 21.18                | 21.15   | 21.60   |         |       |
|             | 1          | 0       | 21.10     | 21.08                | 20.96   | 21.60   |         |       |
| 10MHz       | 64QAM      | 1       | 25        | 21.21                | 20.94   | 21.18   | 21.60   |       |
|             |            | 1       | 49        | 21.16                | 20.84   | 20.98   | 21.60   |       |
|             |            | 25      | 0         | 19.86                | 19.97   | 19.86   | 20.60   |       |
|             |            | 25      | 13        | 20.07                | 19.91   | 19.87   | 20.60   |       |
|             |            | 25      | 25        | 19.92                | 20.00   | 20.07   | 20.60   |       |
|             |            | 50      | 0         | 19.88                | 20.01   | 20.01   | 20.60   |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.21   | 23.21   | 23.12   | 23.60   |
|           |            | 1       | 38        | 23.17   | 23.19   | 23.11   | 23.60   |
|           |            | 1       | 74        | 23.26   | 23.11   | 23.21   | 23.60   |
|           |            | 36      | 0         | 22.26   | 22.26   | 22.25   | 22.60   |
|           |            | 36      | 18        | 22.28   | 22.26   | 22.20   | 22.60   |
|           |            | 36      | 39        | 22.28   | 22.33   | 22.25   | 22.60   |
|           |            | 75      | 0         | 22.36   | 22.34   | 22.21   | 22.60   |
|           | 16QAM      | 1       | 0         | 22.51   | 22.42   | 22.38   | 22.60   |
|           |            | 1       | 38        | 22.42   | 22.30   | 22.36   | 22.60   |
|           |            | 1       | 74        | 22.34   | 22.34   | 22.27   | 22.60   |
|           |            | 36      | 0         | 21.30   | 21.24   | 21.34   | 21.60   |
|           |            | 36      | 18        | 21.29   | 21.17   | 21.25   | 21.60   |
|           |            | 36      | 39        | 21.29   | 21.29   | 21.17   | 21.60   |
|           |            | 75      | 0         | 21.43   | 21.29   | 21.32   | 21.60   |
|           | 64QAM      | 1       | 0         | 21.39   | 21.36   | 21.20   | 21.60   |
|           |            | 1       | 38        | 21.30   | 21.28   | 21.29   | 21.60   |
|           |            | 1       | 74        | 21.12   | 21.15   | 21.11   | 21.60   |
|           |            | 36      | 0         | 20.24   | 20.23   | 20.31   | 20.60   |
|           |            | 36      | 18        | 20.07   | 20.04   | 20.12   | 20.60   |
|           |            | 36      | 39        | 20.14   | 20.23   | 20.00   | 20.60   |
|           |            | 75      | 0         | 20.42   | 20.26   | 20.27   | 20.60   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 23.40   | 23.20   | 23.42   | 23.60   |
|           |            | 1       | 50        | 23.19   | 23.07   | 23.19   | 23.60   |
|           |            | 1       | 99        | 23.04   | 23.14   | 23.14   | 23.60   |
|           |            | 50      | 0         | 22.38   | 22.24   | 22.32   | 22.60   |
|           |            | 50      | 25        | 22.42   | 22.42   | 22.25   | 22.60   |
|           |            | 50      | 50        | 22.22   | 22.45   | 22.29   | 22.60   |
|           |            | 100     | 0         | 22.36   | 22.32   | 22.25   | 22.60   |
|           | 16QAM      | 1       | 0         | 22.49   | 22.32   | 22.30   | 22.60   |
|           |            | 1       | 50        | 22.34   | 22.26   | 22.36   | 22.60   |
|           |            | 1       | 99        | 22.10   | 22.18   | 22.27   | 22.60   |
|           |            | 50      | 0         | 21.39   | 21.31   | 21.37   | 21.60   |
|           |            | 50      | 25        | 21.45   | 21.43   | 21.26   | 21.60   |
|           |            | 50      | 50        | 21.34   | 21.31   | 21.28   | 21.60   |
|           |            | 100     | 0         | 21.41   | 21.37   | 21.27   | 21.60   |
|           | 64QAM      | 1       | 0         | 21.25   | 21.31   | 21.02   | 21.60   |
|           |            | 1       | 50        | 21.21   | 21.12   | 21.16   | 21.60   |
|           |            | 1       | 99        | 20.98   | 21.13   | 21.12   | 21.60   |
|           |            | 50      | 0         | 20.30   | 20.06   | 20.11   | 20.60   |
|           |            | 50      | 25        | 20.25   | 20.22   | 20.08   | 20.60   |
|           |            | 50      | 50        | 20.10   | 20.30   | 20.02   | 20.60   |
|           |            | 100     | 0         | 20.18   | 20.36   | 20.04   | 20.60   |

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| LTE Band 41 (class 2) Receiver on/Receiver off/<br>WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1)<br>Receiver on/<br>WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on |            |         |           | 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         | 24.42                | 24.44   | 24.40   | 24.38   | 24.43   | 25.50   |
|  |            | 1       | 13        | 24.52                | 24.56   | 24.43   | 24.45   | 24.42   | 25.50   |
|  |            | 1       | 24        | 24.43                | 24.50   | 23.78   | 23.82   | 24.10   | 25.50   |
|  |            | 12      | 0         | 23.79                | 23.76   | 22.88   | 22.92   | 22.88   | 24.50   |
|  |            | 12      | 6         | 23.72                | 23.78   | 23.32   | 23.32   | 22.60   | 24.50   |
|  |            | 12      | 13        | 23.78                | 23.74   | 22.91   | 22.87   | 23.22   | 24.50   |
|  | 16QAM      | 25      | 0         | 23.75                | 23.71   | 22.95   | 22.94   | 23.12   | 24.50   |
|  |            | 1       | 0         | 23.86                | 23.72   | 23.48   | 23.44   | 22.70   | 24.50   |
|  |            | 1       | 13        | 24.04                | 23.88   | 23.36   | 23.35   | 23.44   | 24.50   |
|  |            | 1       | 24        | 23.86                | 23.94   | 23.55   | 23.52   | 23.36   | 24.50   |
|  |            | 12      | 0         | 22.82                | 22.73   | 22.29   | 22.34   | 21.58   | 23.50   |
|  |            | 12      | 6         | 22.81                | 22.75   | 22.11   | 22.10   | 22.32   | 23.50   |
|  | 64QAM      | 12      | 13        | 22.74                | 22.72   | 22.08   | 22.10   | 21.85   | 23.50   |
|  |            | 25      | 0         | 22.80                | 22.71   | 22.05   | 22.04   | 22.26   | 23.50   |
|  |            | 1       | 0         | 22.66                | 22.47   | 22.27   | 22.27   | 21.52   | 23.50   |
|  |            | 1       | 13        | 22.87                | 22.67   | 22.10   | 22.11   | 22.21   | 23.50   |
|  |            | 1       | 24        | 22.67                | 22.68   | 22.37   | 22.35   | 22.49   | 23.50   |
|  |            | 12      | 0         | 21.57                | 21.47   | 21.57   | 21.72   | 21.62   | 22.50   |
|  |            | 12      | 6         | 21.61                | 21.57   | 21.29   | 21.49   | 21.39   | 22.50   |
|  |            | 12      | 13        | 21.55                | 21.46   | 21.33   | 21.07   | 20.97   | 22.50   |
|  |            | 25      | 0         | 21.60                | 21.47   | 21.23   | 21.45   | 21.35   | 22.50   |
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
| 10MHz  | QPSK       | 1       | 0         | 24.47                | 24.33   | 24.36   | 24.34   | 24.36   | 25.50   |
|  |            | 1       | 25        | 24.48                | 24.47   | 24.07   | 24.07   | 24.39   | 25.50   |
|  |            | 1       | 49        | 24.49                | 24.58   | 24.47   | 24.45   | 24.38   | 25.50   |
|  |            | 25      | 0         | 23.70                | 23.62   | 22.80   | 22.77   | 22.66   | 24.50   |
|  |            | 25      | 13        | 23.75                | 23.77   | 23.24   | 23.29   | 22.99   | 24.50   |
|  |            | 25      | 25        | 23.69                | 23.74   | 23.09   | 23.09   | 23.24   | 24.50   |
|  | 16QAM      | 50      | 0         | 23.70                | 23.58   | 22.98   | 23.00   | 22.92   | 24.50   |
|  |            | 1       | 0         | 23.87                | 23.94   | 23.08   | 23.05   | 23.22   | 24.50   |
|  |            | 1       | 25        | 23.87                | 23.80   | 23.37   | 23.32   | 22.72   | 24.50   |
|  |            | 1       | 49        | 23.94                | 23.91   | 23.59   | 23.59   | 22.82   | 24.50   |
|  |            | 25      | 0         | 22.71                | 22.65   | 22.01   | 22.03   | 21.55   | 23.50   |
|  |            | 25      | 13        | 22.82                | 22.78   | 21.93   | 21.98   | 21.63   | 23.50   |
|  | 64QAM      | 25      | 25        | 22.81                | 22.62   | 22.21   | 22.16   | 22.31   | 23.50   |
|  |            | 50      | 0         | 22.79                | 22.80   | 22.14   | 22.09   | 21.55   | 23.50   |
|  |            | 1       | 0         | 22.70                | 22.72   | 21.83   | 21.88   | 22.05   | 23.50   |
|  |            | 1       | 25        | 22.71                | 22.60   | 22.12   | 22.13   | 22.13   | 23.50   |
|  |            | 1       | 49        | 22.76                | 22.73   | 22.37   | 22.37   | 21.58   | 23.50   |
|  |            | 25      | 0         | 21.50                | 21.49   | 20.82   | 20.79   | 21.42   | 22.50   |
|  |            | 25      | 13        | 21.60                | 21.62   | 20.75   | 20.75   | 21.45   | 22.50   |
|  |            | 25      | 25        | 21.59                | 21.40   | 21.03   | 20.98   | 21.14   | 22.50   |
|  |            | 50      | 0         | 21.59                | 21.62   | 20.92   | 20.84   | 21.04   | 22.50   |

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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         | 24.78   | 24.79   | 24.47   | 24.47   | 24.26   | 25.50   |       |
|           |            | 1       | 38        | 24.79   | 24.52   | 24.48   | 24.52   | 24.18   | 25.50   |       |
|           |            | 1       | 74        | 24.57   | 24.65   | 24.56   | 24.61   | 24.21   | 25.50   |       |
|           |            | 36      | 0         | 23.87   | 23.78   | 23.57   | 23.62   | 22.83   | 24.50   |       |
|           |            | 36      | 18        | 23.76   | 23.77   | 23.26   | 23.22   | 23.09   | 24.50   |       |
|           |            | 36      | 39        | 23.67   | 23.74   | 23.54   | 23.58   | 22.59   | 24.50   |       |
|           | 16QAM      | 75      | 0         | 23.95   | 23.76   | 23.31   | 23.28   | 22.60   | 24.50   |       |
|           |            | 1       | 0         | 24.06   | 23.92   | 23.11   | 23.08   | 23.53   | 24.50   |       |
|           |            | 1       | 38        | 23.91   | 24.23   | 23.74   | 23.73   | 22.75   | 24.50   |       |
|           |            | 1       | 74        | 23.78   | 23.83   | 23.18   | 23.15   | 23.46   | 24.50   |       |
|           |            | 36      | 0         | 22.72   | 22.70   | 22.30   | 22.30   | 21.61   | 23.50   |       |
|           |            | 36      | 18        | 22.89   | 22.81   | 22.61   | 22.66   | 22.34   | 23.50   |       |
|           | 64QAM      | 36      | 39        | 22.75   | 22.78   | 22.44   | 22.39   | 22.27   | 23.50   |       |
|           |            | 75      | 0         | 22.76   | 22.84   | 22.04   | 21.99   | 22.34   | 23.50   |       |
|           |            | 1       | 0         | 22.86   | 22.69   | 21.88   | 21.90   | 22.28   | 23.50   |       |
|           |            | 1       | 38        | 22.70   | 23.00   | 22.53   | 22.53   | 21.54   | 23.50   |       |
|           |            | 1       | 74        | 22.53   | 22.61   | 21.94   | 21.95   | 22.30   | 23.50   |       |
|           |            | 36      | 0         | 21.48   | 21.45   | 21.10   | 21.14   | 21.13   | 22.50   |       |
|           | 20MHz      | QPSK    | 36        | 18      | 21.66   | 21.62   | 21.37   | 21.48   | 21.17   | 22.50 |
|           |            |         | 36        | 39      | 21.55   | 21.57   | 21.21   | 21.18   | 21.05   | 22.50 |
|           |            |         | 75        | 0       | 21.57   | 21.64   | 20.82   | 20.74   | 21.08   | 22.50 |
| 1         |            |         | 0         | 24.81   | 24.80   | 24.81   | 24.37   | 24.15   | 25.50   |       |
| 1         |            |         | 50        | 24.68   | 24.52   | 24.14   | 24.14   | 23.57   | 25.50   |       |
| 1         |            |         | 99        | 24.54   | 24.62   | 24.26   | 24.21   | 23.88   | 25.50   |       |
| 16QAM     |            | 50      | 0         | 23.88   | 23.73   | 23.65   | 23.66   | 22.71   | 24.50   |       |
|           |            | 50      | 25        | 23.88   | 23.80   | 23.49   | 23.49   | 22.92   | 24.50   |       |
|           |            | 50      | 50        | 23.85   | 23.72   | 23.45   | 23.45   | 22.70   | 24.50   |       |
|           |            | 100     | 0         | 23.86   | 23.74   | 23.39   | 23.42   | 22.85   | 24.50   |       |
|           | 1          | 0       | 24.10     | 23.99   | 23.19   | 23.16   | 23.51   | 24.50   |         |       |
|           | 1          | 50      | 23.98     | 23.98   | 23.43   | 23.47   | 22.85   | 24.50   |         |       |
| 64QAM     | 1          | 99      | 24.07     | 23.92   | 23.49   | 23.47   | 23.40   | 24.50   |         |       |
|           | 50         | 0       | 22.85     | 22.78   | 22.62   | 22.67   | 21.93   | 23.50   |         |       |
|           | 50         | 25      | 22.92     | 22.90   | 22.51   | 22.56   | 22.08   | 23.50   |         |       |
|           | 50         | 50      | 22.94     | 22.82   | 22.35   | 22.38   | 21.94   | 23.50   |         |       |
|           | 100        | 0       | 22.98     | 22.85   | 22.44   | 22.42   | 22.02   | 23.50   |         |       |
|           | 1          | 0       | 22.84     | 22.76   | 21.97   | 21.95   | 22.29   | 23.50   |         |       |
| 64QAM     | 1          | 50      | 22.75     | 22.80   | 22.17   | 22.25   | 21.69   | 23.50   |         |       |
|           | 1          | 99      | 22.90     | 22.67   | 22.30   | 22.28   | 22.14   | 23.50   |         |       |
|           | 50         | 0       | 21.61     | 21.53   | 21.36   | 21.50   | 21.67   | 22.50   |         |       |
|           | 50         | 25      | 21.73     | 21.74   | 21.27   | 21.39   | 21.92   | 22.50   |         |       |
|           | 50         | 50      | 21.73     | 21.59   | 21.09   | 21.14   | 21.76   | 22.50   |         |       |
|           | 100        | 0       | 21.82     | 21.68   | 21.18   | 21.23   | 21.86   | 22.50   |         |       |

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| LTE Band 41 (class 2) WWAN+WLAN<br>2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT Receiver 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         | 21.94                | 21.96   | 22.04   | 22.06   | 21.96   | 23.50   |       |
|  |            | 1       | 13        | 22.09                | 21.98   | 22.06   | 22.09   | 22.00   | 23.50   |       |
|  |            | 1       | 24        | 22.01                | 22.04   | 21.98   | 21.98   | 21.86   | 23.50   |       |
|  |            | 12      | 0         | 22.33                | 22.20   | 22.10   | 22.07   | 22.10   | 23.50   |       |
|  |            | 12      | 6         | 22.36                | 22.21   | 22.27   | 22.26   | 22.14   | 23.50   |       |
|  |            | 12      | 13        | 22.30                | 22.18   | 22.25   | 22.30   | 22.20   | 23.50   |       |
|  | 16QAM      | 25      | 0         | 22.33                | 22.26   | 22.28   | 22.29   | 22.06   | 23.50   |       |
|  |            | 1       | 0         | 22.28                | 22.26   | 22.41   | 22.39   | 22.32   | 23.50   |       |
|  |            | 1       | 13        | 22.11                | 22.43   | 22.41   | 22.39   | 22.35   | 23.50   |       |
|  |            | 1       | 24        | 22.15                | 22.37   | 22.39   | 22.43   | 22.43   | 23.50   |       |
|  |            | 12      | 0         | 22.21                | 22.22   | 21.83   | 21.80   | 21.65   | 23.50   |       |
|  |            | 12      | 6         | 22.22                | 22.22   | 21.97   | 21.95   | 22.16   | 23.50   |       |
|  | 64QAM      | 12      | 13        | 22.19                | 22.15   | 21.93   | 21.95   | 22.14   | 23.50   |       |
|  |            | 25      | 0         | 22.27                | 22.23   | 22.10   | 22.10   | 22.12   | 23.50   |       |
|  |            | 1       | 0         | 21.66                | 21.43   | 21.30   | 21.21   | 20.50   | 22.50   |       |
|  |            | 1       | 13        | 21.91                | 21.66   | 21.14   | 21.15   | 21.16   | 22.50   |       |
|  |            | 1       | 24        | 21.71                | 21.69   | 21.33   | 21.33   | 21.51   | 22.50   |       |
|  |            | 12      | 0         | 20.57                | 20.43   | 20.56   | 20.73   | 20.65   | 21.50   |       |
|  | 10MHz      | QPSK    | 12        | 6                    | 20.55   | 20.57   | 20.24   | 20.53   | 20.33   | 21.50 |
|  |            |         | 12        | 13                   | 20.55   | 20.48   | 20.31   | 20.07   | 19.94   | 21.50 |
|  |            |         | 25        | 0                    | 20.59   | 20.43   | 20.24   | 20.42   | 20.29   | 21.50 |
|  |            |         | 1         | 0                    | 22.12   | 21.97   | 21.90   | 21.88   | 21.92   | 23.50 |
|  |            |         | 1         | 25                   | 22.07   | 22.00   | 22.00   | 22.01   | 21.95   | 23.50 |
|  |            |         | 1         | 49                   | 22.04   | 21.91   | 21.89   | 21.94   | 21.98   | 23.50 |
| 16QAM  |            | 25      | 0         | 22.27                | 22.18   | 22.20   | 22.19   | 22.14   | 23.50   |       |
|  |            | 25      | 13        | 22.36                | 22.30   | 22.20   | 22.20   | 22.17   | 23.50   |       |
|  |            | 25      | 25        | 22.29                | 22.25   | 22.20   | 22.15   | 22.21   | 23.50   |       |
|  |            | 50      | 0         | 22.19                | 22.23   | 22.10   | 22.14   | 22.17   | 23.50   |       |
|  |            | 1       | 0         | 22.08                | 22.36   | 22.33   | 22.36   | 22.36   | 23.50   |       |
|  |            | 1       | 25        | 22.35                | 22.37   | 22.38   | 22.42   | 22.30   | 23.50   |       |
| 64QAM  |            | 1       | 49        | 22.37                | 22.22   | 22.27   | 22.30   | 22.40   | 23.50   |       |
|  |            | 25      | 0         | 22.08                | 22.07   | 22.06   | 22.05   | 21.80   | 23.50   |       |
|  |            | 25      | 13        | 21.98                | 22.17   | 21.89   | 21.88   | 21.90   | 23.50   |       |
|  |            | 25      | 25        | 21.93                | 22.24   | 22.01   | 21.97   | 21.88   | 23.50   |       |
|  |            | 50      | 0         | 22.27                | 22.27   | 22.06   | 22.08   | 21.62   | 23.50   |       |
|  |            | 1       | 0         | 21.68                | 21.70   | 20.86   | 20.91   | 21.09   | 22.50   |       |
| 10MHz  | 64QAM      | 1       | 25        | 21.69                | 21.54   | 21.10   | 21.12   | 21.12   | 22.50   |       |
|  |            | 1       | 49        | 21.75                | 21.68   | 21.33   | 21.33   | 20.52   | 22.50   |       |
|  |            | 25      | 0         | 20.52                | 20.50   | 19.80   | 19.78   | 20.46   | 21.50   |       |
|  |            | 25      | 13        | 20.64                | 20.61   | 19.76   | 19.72   | 20.40   | 21.50   |       |
|  |            | 25      | 25        | 20.63                | 20.44   | 20.04   | 19.92   | 20.17   | 21.50   |       |
|  |            | 50      | 0         | 20.57                | 20.60   | 19.91   | 19.85   | 20.00   | 21.50   |       |

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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         | 22.32   | 22.31   | 22.19   | 22.17   | 22.21   | 23.50   |
|           |            | 1       | 38        | 22.35   | 22.17   | 22.21   | 22.26   | 22.06   | 23.50   |
|           |            | 1       | 74        | 22.51   | 22.24   | 22.36   | 22.39   | 22.39   | 23.50   |
|           |            | 36      | 0         | 22.38   | 22.40   | 22.28   | 22.24   | 22.21   | 23.50   |
|           |            | 36      | 18        | 22.44   | 22.37   | 22.32   | 22.33   | 22.20   | 23.50   |
|           |            | 36      | 39        | 22.39   | 22.37   | 22.30   | 22.32   | 22.24   | 23.50   |
|           |            | 75      | 0         | 22.41   | 22.34   | 22.39   | 22.39   | 22.27   | 23.50   |
|           | 16QAM      | 1       | 0         | 22.61   | 22.49   | 22.53   | 22.51   | 22.43   | 23.50   |
|           |            | 1       | 38        | 22.51   | 22.73   | 22.53   | 22.53   | 22.34   | 23.50   |
|           |            | 1       | 74        | 22.64   | 22.62   | 22.59   | 22.56   | 22.35   | 23.50   |
|           |            | 36      | 0         | 22.14   | 22.28   | 21.74   | 21.76   | 21.98   | 23.50   |
|           |            | 36      | 18        | 21.88   | 22.32   | 21.89   | 21.88   | 21.68   | 23.50   |
|           |            | 36      | 39        | 22.37   | 22.29   | 22.02   | 21.97   | 21.53   | 23.50   |
|           |            | 75      | 0         | 22.40   | 22.36   | 21.68   | 21.68   | 21.70   | 23.50   |
|           | 64QAM      | 1       | 0         | 21.85   | 21.64   | 20.84   | 20.85   | 21.22   | 22.50   |
|           |            | 1       | 38        | 21.74   | 21.98   | 21.53   | 21.48   | 20.55   | 22.50   |
|           |            | 1       | 74        | 21.56   | 21.55   | 20.90   | 20.89   | 21.33   | 22.50   |
|           |            | 36      | 0         | 20.52   | 20.48   | 20.08   | 20.11   | 20.14   | 21.50   |
|           |            | 36      | 18        | 20.65   | 20.65   | 20.35   | 20.46   | 20.16   | 21.50   |
|           |            | 36      | 39        | 20.55   | 20.58   | 20.20   | 20.19   | 20.00   | 21.50   |
|           |            | 75      | 0         | 20.61   | 20.62   | 19.86   | 19.69   | 20.04   | 21.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 22.29   | 22.26   | 22.21   | 22.19   | 22.24   | 23.50   |
|           |            | 1       | 50        | 22.19   | 22.08   | 22.11   | 22.10   | 21.98   | 23.50   |
|           |            | 1       | 99        | 22.35   | 22.17   | 22.25   | 22.30   | 22.09   | 23.50   |
|           |            | 50      | 0         | 22.47   | 22.36   | 22.35   | 22.38   | 22.35   | 23.50   |
|           |            | 50      | 25        | 22.01   | 22.38   | 22.29   | 22.29   | 22.35   | 23.50   |
|           |            | 50      | 50        | 22.44   | 22.34   | 22.37   | 22.34   | 22.26   | 23.50   |
|           |            | 100     | 0         | 22.06   | 22.42   | 22.39   | 22.44   | 22.36   | 23.50   |
|           | 16QAM      | 1       | 0         | 22.03   | 22.05   | 22.06   | 22.02   | 22.46   | 23.50   |
|           |            | 1       | 50        | 22.50   | 22.50   | 22.33   | 22.36   | 22.41   | 23.50   |
|           |            | 1       | 99        | 22.50   | 22.45   | 22.39   | 22.41   | 22.46   | 23.50   |
|           |            | 50      | 0         | 22.39   | 22.37   | 22.02   | 22.00   | 22.26   | 23.50   |
|           |            | 50      | 25        | 22.52   | 22.39   | 22.96   | 21.92   | 22.04   | 23.50   |
|           |            | 50      | 50        | 22.40   | 22.44   | 22.77   | 22.75   | 22.66   | 23.50   |
|           |            | 100     | 0         | 22.52   | 22.43   | 22.63   | 22.66   | 22.03   | 23.50   |
|           | 64QAM      | 1       | 0         | 21.87   | 21.75   | 21.00   | 20.90   | 21.25   | 22.50   |
|           |            | 1       | 50        | 21.77   | 21.79   | 21.19   | 21.29   | 20.68   | 22.50   |
|           |            | 1       | 99        | 21.84   | 21.70   | 21.28   | 21.31   | 21.15   | 22.50   |
|           |            | 50      | 0         | 20.65   | 20.52   | 20.39   | 20.54   | 20.70   | 21.50   |
|           |            | 50      | 25        | 20.70   | 20.70   | 20.31   | 20.34   | 20.91   | 21.50   |
|           |            | 50      | 50        | 20.73   | 20.55   | 20.04   | 20.18   | 20.71   | 21.50   |
|           |            | 100     | 0         | 20.78   | 20.64   | 20.20   | 20.27   | 20.82   | 21.50   |

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| LTE Band 41 (class 3) Receiver on/Receiver off/<br>WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1)<br>Receiver on/<br>WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on |            |         |           | 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         | 22.94                | 22.89   | 22.79   | 22.76   | 22.73   | 23.50   |
|  |            | 1       | 13        | 22.93                | 22.86   | 22.82   | 22.77   | 22.86   | 23.50   |
|  |            | 1       | 24        | 22.82                | 22.74   | 22.68   | 22.72   | 22.71   | 23.50   |
|  |            | 12      | 0         | 22.09                | 21.89   | 21.97   | 21.99   | 21.92   | 22.50   |
|  |            | 12      | 6         | 22.10                | 22.05   | 22.00   | 22.05   | 21.93   | 22.50   |
|  |            | 12      | 13        | 22.03                | 21.96   | 21.96   | 21.94   | 21.97   | 22.50   |
|  | 16QAM      | 25      | 0         | 22.07                | 22.04   | 22.02   | 21.98   | 21.98   | 22.50   |
|  |            | 1       | 0         | 22.07                | 21.98   | 21.95   | 21.95   | 21.94   | 22.50   |
|  |            | 1       | 13        | 22.16                | 22.13   | 22.24   | 22.19   | 22.06   | 22.50   |
|  |            | 1       | 24        | 21.99                | 22.05   | 21.95   | 22.00   | 21.99   | 22.50   |
|  |            | 12      | 0         | 20.98                | 20.88   | 20.92   | 20.88   | 20.81   | 21.50   |
|  |            | 12      | 6         | 21.00                | 21.01   | 20.96   | 20.99   | 20.92   | 21.50   |
|  | 64QAM      | 12      | 13        | 20.92                | 20.87   | 20.92   | 20.87   | 20.97   | 21.50   |
|  |            | 25      | 0         | 21.00                | 21.01   | 20.99   | 21.01   | 20.93   | 21.50   |
|  |            | 1       | 0         | 20.87                | 20.75   | 20.73   | 20.79   | 20.78   | 21.50   |
|  |            | 1       | 13        | 20.96                | 20.90   | 21.06   | 21.01   | 20.90   | 21.50   |
|  |            | 1       | 24        | 20.79                | 20.83   | 20.76   | 20.84   | 20.79   | 21.50   |
|  |            | 12      | 0         | 19.73                | 19.65   | 19.73   | 19.67   | 19.57   | 20.50   |
| 10MHz  | QPSK       | 12      | 6         | 19.84                | 19.84   | 19.71   | 19.79   | 19.74   | 20.50   |
|  |            | 12      | 13        | 19.72                | 19.70   | 19.74   | 19.68   | 19.73   | 20.50   |
|  |            | 25      | 0         | 19.84                | 19.79   | 19.76   | 19.80   | 19.73   | 20.50   |
|  |            | 1       | 0         | 22.98                | 23.01   | 22.87   | 22.86   | 23.05   | 23.50   |
|  |            | 1       | 25        | 22.80                | 22.79   | 23.15   | 23.10   | 23.13   | 23.50   |
|  |            | 1       | 49        | 22.80                | 22.85   | 22.78   | 22.82   | 22.80   | 23.50   |
|  | 16QAM      | 25      | 0         | 21.94                | 22.05   | 21.97   | 21.99   | 21.98   | 22.50   |
|  |            | 25      | 13        | 22.02                | 22.00   | 21.93   | 21.98   | 22.08   | 22.50   |
|  |            | 25      | 25        | 22.02                | 21.94   | 21.98   | 21.97   | 22.02   | 22.50   |
|  |            | 50      | 0         | 21.97                | 21.99   | 21.95   | 22.00   | 22.01   | 22.50   |
|  |            | 1       | 0         | 22.08                | 22.06   | 22.13   | 22.08   | 22.09   | 22.50   |
|  |            | 1       | 25        | 22.16                | 21.88   | 22.13   | 22.08   | 22.05   | 22.50   |
|  | 64QAM      | 1       | 49        | 21.95                | 22.02   | 22.07   | 22.09   | 22.04   | 22.50   |
|  |            | 25      | 0         | 20.96                | 21.00   | 21.00   | 20.97   | 21.01   | 21.50   |
|  |            | 25      | 13        | 21.14                | 21.09   | 20.85   | 20.87   | 21.01   | 21.50   |
|  |            | 25      | 25        | 20.89                | 21.02   | 20.86   | 20.81   | 20.83   | 21.50   |
|  |            | 50      | 0         | 21.10                | 21.07   | 20.97   | 21.02   | 21.07   | 21.50   |
|  |            | 1       | 0         | 20.91                | 20.82   | 20.97   | 20.85   | 20.86   | 21.50   |
| 64QAM  | 1          | 25      | 21.00     | 20.70                | 20.93   | 20.90   | 20.81   | 21.50   |         |
|  | 1          | 49      | 20.79     | 20.80                | 20.88   | 20.85   | 20.82   | 21.50   |         |
|  | 25         | 0       | 19.71     | 19.74                | 19.84   | 19.72   | 19.79   | 20.50   |         |
|  | 25         | 13      | 19.97     | 19.84                | 19.62   | 19.67   | 19.77   | 20.50   |         |
|  | 25         | 25      | 19.65     | 19.81                | 19.63   | 19.61   | 19.66   | 20.50   |         |
|  | 50         | 0       | 19.87     | 19.89                | 19.76   | 19.82   | 19.83   | 20.50   |         |

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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         | 23.12   | 23.17   | 22.92   | 22.92   | 23.13   | 23.50   |
|           |            | 1       | 38        | 22.99   | 22.89   | 22.91   | 22.94   | 23.09   | 23.50   |
|           |            | 1       | 74        | 23.07   | 23.19   | 22.98   | 22.96   | 22.91   | 23.50   |
|           |            | 36      | 0         | 22.14   | 22.04   | 22.03   | 22.04   | 22.21   | 22.50   |
|           |            | 36      | 18        | 22.28   | 22.15   | 22.16   | 22.11   | 22.11   | 22.50   |
|           |            | 36      | 39        | 22.18   | 22.15   | 22.12   | 22.13   | 22.06   | 22.50   |
|           |            | 75      | 0         | 22.20   | 22.14   | 22.18   | 22.18   | 22.09   | 22.50   |
|           | 16QAM      | 1       | 0         | 22.33   | 22.22   | 22.23   | 22.25   | 22.38   | 22.50   |
|           |            | 1       | 38        | 22.18   | 22.05   | 22.20   | 22.16   | 22.22   | 22.50   |
|           |            | 1       | 74        | 22.30   | 22.14   | 22.13   | 22.12   | 22.26   | 22.50   |
|           |            | 36      | 0         | 21.13   | 21.05   | 20.99   | 21.00   | 21.16   | 21.50   |
|           |            | 36      | 18        | 21.22   | 21.12   | 21.02   | 21.01   | 21.09   | 21.50   |
|           |            | 36      | 39        | 21.12   | 21.07   | 21.08   | 21.10   | 21.14   | 21.50   |
|           |            | 75      | 0         | 21.26   | 21.19   | 21.23   | 21.27   | 21.11   | 21.50   |
|           | 64QAM      | 1       | 0         | 21.17   | 20.96   | 20.97   | 21.02   | 21.18   | 21.50   |
|           |            | 1       | 38        | 21.02   | 20.80   | 20.95   | 20.98   | 21.04   | 21.50   |
|           |            | 1       | 74        | 21.08   | 20.92   | 20.87   | 20.90   | 21.07   | 21.50   |
|           |            | 36      | 0         | 19.87   | 19.81   | 19.75   | 19.79   | 19.93   | 20.50   |
|           |            | 36      | 18        | 20.01   | 19.93   | 19.82   | 19.84   | 19.89   | 20.50   |
|           |            | 36      | 39        | 19.92   | 19.82   | 19.84   | 19.86   | 19.96   | 20.50   |
|           |            | 75      | 0         | 20.02   | 19.94   | 20.06   | 20.07   | 19.93   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 22.94   | 22.96   | 23.10   | 23.06   | 23.10   | 23.50   |
|           |            | 1       | 50        | 22.91   | 22.95   | 22.96   | 22.98   | 22.83   | 23.50   |
|           |            | 1       | 99        | 22.92   | 22.95   | 22.93   | 22.97   | 22.95   | 23.50   |
|           |            | 50      | 0         | 22.14   | 22.19   | 22.09   | 22.10   | 22.08   | 22.50   |
|           |            | 50      | 25        | 22.25   | 22.31   | 22.03   | 21.99   | 22.20   | 22.50   |
|           |            | 50      | 50        | 22.21   | 22.20   | 22.04   | 22.01   | 22.15   | 22.50   |
|           |            | 100     | 0         | 22.18   | 22.18   | 22.14   | 22.23   | 22.22   | 22.50   |
|           | 16QAM      | 1       | 0         | 22.33   | 21.46   | 22.25   | 22.22   | 22.25   | 22.50   |
|           |            | 1       | 50        | 22.13   | 22.10   | 22.15   | 22.19   | 22.24   | 22.50   |
|           |            | 1       | 99        | 22.16   | 22.10   | 22.10   | 22.09   | 22.20   | 22.50   |
|           |            | 50      | 0         | 21.14   | 21.22   | 21.16   | 21.16   | 21.22   | 21.50   |
|           |            | 50      | 25        | 21.18   | 21.17   | 21.16   | 21.20   | 21.22   | 21.50   |
|           |            | 50      | 50        | 21.27   | 21.16   | 21.10   | 21.15   | 21.12   | 21.50   |
|           |            | 100     | 0         | 21.20   | 21.25   | 21.16   | 21.15   | 21.13   | 21.50   |
|           | 64QAM      | 1       | 0         | 21.12   | 21.26   | 21.02   | 20.97   | 21.09   | 21.50   |
|           |            | 1       | 50        | 20.92   | 20.88   | 20.93   | 21.02   | 20.99   | 21.50   |
|           |            | 1       | 99        | 20.91   | 20.92   | 20.88   | 20.83   | 20.97   | 21.50   |
|           |            | 50      | 0         | 19.91   | 20.06   | 19.94   | 19.95   | 20.00   | 20.50   |
|           |            | 50      | 25        | 19.96   | 19.94   | 19.94   | 19.94   | 20.03   | 20.50   |
|           |            | 50      | 50        | 20.03   | 19.99   | 19.92   | 19.90   | 19.95   | 20.50   |
|           |            | 100     | 0         | 19.94   | 19.99   | 19.99   | 19.95   | 19.97   | 20.50   |

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| LTE Band 41 (class 3) WWAN+WLAN<br>2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT Receiver 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         | 22.32                | 22.35   | 22.25   | 22.17   | 22.12   | 23.00   |
|  |            | 1       | 13        | 22.29                | 22.27   | 22.27   | 22.18   | 22.26   | 23.00   |
|  |            | 1       | 24        | 22.23                | 22.14   | 22.07   | 22.12   | 22.16   | 23.00   |
|  |            | 12      | 0         | 21.96                | 21.77   | 21.84   | 21.90   | 21.82   | 22.50   |
|  |            | 12      | 6         | 21.99                | 21.95   | 21.87   | 21.91   | 21.83   | 22.50   |
|  |            | 12      | 13        | 21.89                | 21.86   | 21.86   | 21.83   | 21.91   | 22.50   |
|  | 16QAM      | 25      | 0         | 22.00                | 21.94   | 21.89   | 21.90   | 21.86   | 22.50   |
|  |            | 1       | 0         | 21.93                | 21.90   | 21.88   | 21.82   | 21.86   | 22.50   |
|  |            | 1       | 13        | 22.08                | 22.01   | 22.16   | 22.06   | 21.90   | 22.50   |
|  |            | 1       | 24        | 21.85                | 21.96   | 21.79   | 21.94   | 21.90   | 22.50   |
|  |            | 12      | 0         | 20.87                | 20.81   | 20.82   | 20.81   | 20.65   | 21.50   |
|  |            | 12      | 6         | 20.88                | 20.86   | 20.82   | 20.93   | 20.85   | 21.50   |
|  | 64QAM      | 12      | 13        | 20.83                | 20.81   | 20.83   | 20.73   | 20.82   | 21.50   |
|  |            | 25      | 0         | 20.93                | 20.95   | 20.83   | 20.88   | 20.86   | 21.50   |
|  |            | 1       | 0         | 20.80                | 20.61   | 20.58   | 20.68   | 20.63   | 21.50   |
|  |            | 1       | 13        | 20.83                | 20.80   | 20.97   | 20.94   | 20.78   | 21.50   |
|  |            | 1       | 24        | 20.68                | 20.74   | 20.62   | 20.73   | 20.69   | 21.50   |
|  |            | 12      | 0         | 19.63                | 19.55   | 19.63   | 19.55   | 19.45   | 20.50   |
|  |            | 12      | 6         | 19.73                | 19.69   | 19.62   | 19.73   | 19.63   | 20.50   |
|  |            | 12      | 13        | 19.57                | 19.56   | 19.58   | 19.59   | 19.62   | 20.50   |
| 25   | 0          | 19.76   | 19.72     | 19.63                | 19.73   | 19.63   | 20.50   |         |         |
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|  |            |         |           | 39700                | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz  | QPSK       | 1       | 0         | 22.39                | 22.44   | 22.23   | 22.27   | 22.42   | 23.00   |
|  |            | 1       | 25        | 22.18                | 22.25   | 22.60   | 22.54   | 22.58   | 23.00   |
|  |            | 1       | 49        | 22.18                | 22.24   | 22.17   | 22.24   | 22.20   | 23.00   |
|  |            | 25      | 0         | 21.83                | 21.93   | 21.89   | 21.93   | 21.88   | 22.50   |
|  |            | 25      | 13        | 21.92                | 21.89   | 21.80   | 21.84   | 21.98   | 22.50   |
|  |            | 25      | 25        | 21.90                | 21.82   | 21.92   | 21.85   | 21.96   | 22.50   |
|  | 16QAM      | 50      | 0         | 21.89                | 21.84   | 21.86   | 21.89   | 21.92   | 22.50   |
|  |            | 1       | 0         | 21.92                | 21.93   | 22.04   | 21.93   | 21.94   | 22.50   |
|  |            | 1       | 25        | 22.03                | 21.72   | 21.97   | 21.98   | 21.93   | 22.50   |
|  |            | 1       | 49        | 21.86                | 21.93   | 21.93   | 21.96   | 21.91   | 22.50   |
|  |            | 25      | 0         | 20.81                | 20.94   | 20.87   | 20.83   | 20.90   | 21.50   |
|  |            | 25      | 13        | 21.08                | 20.99   | 20.71   | 20.81   | 20.91   | 21.50   |
|  |            | 25      | 25        | 20.81                | 20.90   | 20.71   | 20.72   | 20.75   | 21.50   |
|  |            | 50      | 0         | 20.99                | 20.98   | 20.91   | 20.93   | 20.95   | 21.50   |
|  | 64QAM      | 1       | 0         | 20.80                | 20.73   | 20.83   | 20.74   | 20.70   | 21.50   |
|  |            | 1       | 25        | 20.89                | 20.56   | 20.81   | 20.75   | 20.67   | 21.50   |
|  |            | 1       | 49        | 20.69                | 20.69   | 20.81   | 20.71   | 20.70   | 21.50   |
|  |            | 25      | 0         | 19.59                | 19.62   | 19.69   | 19.57   | 19.64   | 20.50   |
|  |            | 25      | 13        | 19.89                | 19.78   | 19.48   | 19.56   | 19.67   | 20.50   |
|  |            | 25      | 25        | 19.54                | 19.66   | 19.49   | 19.54   | 19.60   | 20.50   |
| 50   |            | 0       | 19.80     | 19.75                | 19.65   | 19.69   | 19.76   | 20.50   |         |

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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         | 22.51   | 22.56   | 22.31   | 22.34   | 22.57   | 23.00   |
|           |            | 1       | 38        | 22.41   | 22.33   | 22.29   | 22.33   | 22.53   | 23.00   |
|           |            | 1       | 74        | 22.45   | 22.60   | 22.44   | 22.36   | 22.32   | 23.00   |
|           |            | 36      | 0         | 22.03   | 21.95   | 21.96   | 21.95   | 22.14   | 22.50   |
|           |            | 36      | 18        | 22.12   | 22.02   | 22.04   | 21.97   | 22.02   | 22.50   |
|           |            | 36      | 39        | 22.07   | 22.09   | 22.06   | 22.04   | 21.97   | 22.50   |
|           |            | 75      | 0         | 22.05   | 22.08   | 22.03   | 22.10   | 22.00   | 22.50   |
|           | 16QAM      | 1       | 0         | 22.24   | 22.11   | 22.11   | 22.16   | 22.28   | 22.50   |
|           |            | 1       | 38        | 22.11   | 21.96   | 22.06   | 22.02   | 22.14   | 22.50   |
|           |            | 1       | 74        | 22.16   | 22.08   | 22.04   | 21.99   | 22.14   | 22.50   |
|           |            | 36      | 0         | 20.98   | 20.94   | 20.89   | 20.92   | 21.04   | 21.50   |
|           |            | 36      | 18        | 21.06   | 20.96   | 20.87   | 20.92   | 21.03   | 21.50   |
|           |            | 36      | 39        | 21.00   | 20.96   | 21.01   | 21.01   | 21.01   | 21.50   |
|           | 64QAM      | 75      | 0         | 21.10   | 21.10   | 21.08   | 21.15   | 21.03   | 21.50   |
|           |            | 1       | 0         | 21.10   | 20.86   | 20.83   | 20.96   | 21.12   | 21.50   |
|           |            | 1       | 38        | 20.95   | 20.72   | 20.89   | 20.82   | 20.89   | 21.50   |
|           |            | 1       | 74        | 20.96   | 20.76   | 20.80   | 20.79   | 20.95   | 21.50   |
|           |            | 36      | 0         | 19.73   | 19.70   | 19.59   | 19.65   | 19.84   | 20.50   |
|           |            | 36      | 18        | 19.90   | 19.78   | 19.71   | 19.77   | 19.76   | 20.50   |
|           |            | 36      | 39        | 19.84   | 19.68   | 19.75   | 19.80   | 19.85   | 20.50   |
|           |            | 75      | 0         | 19.94   | 19.86   | 19.92   | 19.94   | 19.82   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 22.34   | 22.32   | 22.50   | 22.51   | 22.50   | 23.00   |
|           |            | 1       | 50        | 22.33   | 22.33   | 22.36   | 22.36   | 22.22   | 23.00   |
|           |            | 1       | 99        | 22.31   | 22.32   | 22.31   | 22.40   | 22.37   | 23.00   |
|           |            | 50      | 0         | 21.98   | 22.09   | 21.97   | 21.97   | 21.95   | 22.50   |
|           |            | 50      | 25        | 22.15   | 22.05   | 21.94   | 21.84   | 22.14   | 22.50   |
|           |            | 50      | 50        | 22.06   | 22.10   | 21.97   | 21.95   | 22.00   | 22.50   |
|           |            | 100     | 0         | 22.10   | 22.03   | 22.04   | 22.08   | 22.08   | 22.50   |
|           | 16QAM      | 1       | 0         | 22.21   | 21.38   | 22.18   | 22.16   | 22.18   | 22.50   |
|           |            | 1       | 50        | 22.04   | 21.95   | 22.02   | 22.12   | 22.16   | 22.50   |
|           |            | 1       | 99        | 22.06   | 21.99   | 22.00   | 21.93   | 22.13   | 22.50   |
|           |            | 50      | 0         | 20.98   | 21.09   | 21.04   | 21.05   | 21.07   | 21.50   |
|           |            | 50      | 25        | 21.12   | 21.06   | 21.09   | 21.11   | 21.13   | 21.50   |
|           |            | 50      | 50        | 21.18   | 21.04   | 21.03   | 21.06   | 21.04   | 21.50   |
|           |            | 100     | 0         | 21.13   | 21.11   | 21.06   | 21.04   | 21.07   | 21.50   |
|           | 64QAM      | 1       | 0         | 21.06   | 21.15   | 20.94   | 20.85   | 21.01   | 21.50   |
|           |            | 1       | 50        | 20.86   | 20.77   | 20.80   | 20.87   | 20.85   | 21.50   |
|           |            | 1       | 99        | 20.82   | 20.77   | 20.74   | 20.67   | 20.88   | 21.50   |
|           |            | 50      | 0         | 19.85   | 19.91   | 19.80   | 19.82   | 19.90   | 20.50   |
|           |            | 50      | 25        | 19.88   | 19.82   | 19.86   | 19.82   | 19.87   | 20.50   |
|           |            | 50      | 50        | 19.90   | 19.88   | 19.84   | 19.78   | 19.88   | 20.50   |
|           |            | 100     | 0         | 19.80   | 19.84   | 19.89   | 19.87   | 19.87   | 20.50   |

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| LTE Band 66 |            |         |           | Conducted Power(dBm) |         |         |         |       |
|-------------|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|             |            |         |           | 131979               | 132322  | 132665  |         |       |
| 1.4MHz      | QPSK       | 1       | 0         | 22.55                | 22.43   | 22.30   | 23.20   |       |
|             |            | 1       | 2         | 22.55                | 22.52   | 22.45   | 23.20   |       |
|             |            | 1       | 5         | 22.56                | 22.49   | 22.35   | 23.20   |       |
|             |            | 3       | 0         | 22.54                | 22.45   | 22.46   | 23.20   |       |
|             |            | 3       | 1         | 22.55                | 22.64   | 22.45   | 23.20   |       |
|             |            | 3       | 3         | 22.55                | 22.48   | 22.44   | 23.20   |       |
|             | 16QAM      | 6       | 0         | 21.63                | 21.62   | 21.49   | 22.20   |       |
|             |            | 1       | 0         | 21.76                | 21.61   | 21.79   | 22.20   |       |
|             |            | 1       | 2         | 21.69                | 21.95   | 21.81   | 22.20   |       |
|             |            | 1       | 5         | 21.59                | 21.89   | 22.13   | 22.20   |       |
|             |            | 3       | 0         | 21.62                | 21.61   | 21.28   | 22.20   |       |
|             |            | 3       | 1         | 21.80                | 21.82   | 21.36   | 22.20   |       |
|             | 64QAM      | 3       | 3         | 21.58                | 21.63   | 21.41   | 22.20   |       |
|             |            | 6       | 0         | 20.76                | 20.80   | 20.36   | 21.20   |       |
|             |            | 1       | 0         | 20.65                | 20.46   | 20.65   | 21.20   |       |
|             |            | 1       | 2         | 20.51                | 20.77   | 20.80   | 21.20   |       |
|             |            | 1       | 5         | 20.39                | 20.69   | 21.05   | 21.20   |       |
|             |            | 3       | 0         | 20.59                | 20.61   | 20.28   | 21.20   |       |
|             | 3MHz       | QPSK    | 3         | 1                    | 20.65   | 20.61   | 20.26   | 21.20 |
|             |            |         | 3         | 3                    | 20.43   | 20.48   | 20.26   | 21.20 |
|             |            |         | 6         | 0                    | 19.68   | 19.69   | 19.34   | 20.20 |
|             |            |         | Channel   | Channel              | Channel | Tune up |         |       |
|             |            |         | 131987    | 132322               | 132657  |         |         |       |
|             |            |         | 1         | 0                    | 22.45   | 22.49   | 22.48   | 23.20 |
| 1           | 7          | 22.58   | 22.67     | 22.40                | 23.20   |         |         |       |
| 1           | 14         | 22.60   | 22.66     | 22.44                | 23.20   |         |         |       |
| 8           | 0          | 21.69   | 21.68     | 21.57                | 22.20   |         |         |       |
| 8           | 4          | 21.76   | 21.65     | 21.63                | 22.20   |         |         |       |
| 8           | 7          | 21.74   | 21.75     | 21.50                | 22.20   |         |         |       |
| 15          | 0          | 21.73   | 21.72     | 21.61                | 22.20   |         |         |       |
| 16QAM       | 1          | 0       | 21.84     | 21.88                | 21.65   | 22.20   |         |       |
|             |            | 7       | 21.85     | 22.09                | 21.66   | 22.20   |         |       |
|             |            | 14      | 22.15     | 22.04                | 21.75   | 22.20   |         |       |
|             |            | 8       | 0         | 20.59                | 20.75   | 20.66   | 21.20   |       |
|             |            | 8       | 4         | 20.71                | 20.76   | 20.70   | 21.20   |       |
|             |            | 8       | 7         | 20.62                | 20.74   | 20.50   | 21.20   |       |
|             | 15         | 0       | 20.74     | 20.72                | 20.67   | 21.20   |         |       |
|             |            | 1       | 0         | 20.73                | 20.64   | 20.61   | 21.20   |       |
|             |            | 1       | 7         | 20.71                | 21.08   | 20.38   | 21.20   |       |
|             |            | 1       | 14        | 20.95                | 20.98   | 20.73   | 21.20   |       |
|             |            | 8       | 0         | 19.42                | 19.54   | 19.57   | 20.20   |       |
|             |            | 8       | 4         | 19.63                | 19.72   | 19.54   | 20.20   |       |
| 64QAM       | 8          | 7       | 19.49     | 19.54                | 19.48   | 20.20   |         |       |
|             | 15         | 0       | 19.65     | 19.58                | 19.67   | 20.20   |         |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 131997  | 132322  | 132647  |         |       |
| 5MHz      | QPSK       | 1       | 0         | 22.47   | 22.42   | 22.05   | 23.20   |       |
|           |            | 1       | 13        | 22.41   | 22.50   | 22.04   | 23.20   |       |
|           |            | 1       | 24        | 22.42   | 22.25   | 22.22   | 23.20   |       |
|           |            | 12      | 0         | 21.48   | 21.46   | 21.32   | 22.20   |       |
|           |            | 12      | 6         | 21.48   | 21.47   | 21.23   | 22.20   |       |
|           |            | 12      | 13        | 21.44   | 21.43   | 20.93   | 22.20   |       |
|           | 16QAM      | 25      | 0         | 21.41   | 21.35   | 20.90   | 22.20   |       |
|           |            | 1       | 0         | 21.74   | 21.82   | 21.42   | 22.20   |       |
|           |            | 1       | 13        | 22.06   | 21.74   | 21.58   | 22.20   |       |
|           |            | 1       | 24        | 21.66   | 21.89   | 21.61   | 22.20   |       |
|           |            | 12      | 0         | 20.48   | 20.47   | 20.19   | 21.20   |       |
|           |            | 12      | 6         | 20.50   | 20.37   | 20.16   | 21.20   |       |
|           | 64QAM      | 12      | 13        | 20.41   | 20.48   | 20.10   | 21.20   |       |
|           |            | 25      | 0         | 20.42   | 20.45   | 20.03   | 21.20   |       |
|           |            | 1       | 0         | 20.56   | 20.72   | 20.17   | 21.20   |       |
|           |            | 1       | 13        | 20.85   | 20.63   | 20.34   | 21.20   |       |
|           |            | 1       | 24        | 20.41   | 20.68   | 20.37   | 21.20   |       |
|           |            | 12      | 0         | 19.26   | 19.23   | 19.18   | 20.20   |       |
|           | 10MHz      | QPSK    | 12        | 6       | 19.42   | 19.09   | 18.92   | 20.20 |
|           |            |         | 12        | 13      | 19.32   | 19.44   | 18.96   | 20.20 |
|           |            |         | 25        | 0       | 19.31   | 19.23   | 18.84   | 20.20 |
| 1         |            |         | 0         | 22.19   | 22.36   | 22.43   | 23.20   |       |
| 1         |            |         | 25        | 22.49   | 22.34   | 22.29   | 23.20   |       |
| 1         |            |         | 49        | 22.33   | 22.38   | 22.26   | 23.20   |       |
| 16QAM     |            | 25      | 0         | 21.44   | 21.43   | 21.29   | 22.20   |       |
|           |            | 25      | 13        | 21.46   | 21.37   | 21.35   | 22.20   |       |
|           |            | 25      | 25        | 21.50   | 21.48   | 21.31   | 22.20   |       |
|           |            | 50      | 0         | 21.49   | 21.38   | 21.36   | 22.20   |       |
|           |            | 1       | 0         | 21.51   | 21.57   | 21.76   | 22.20   |       |
|           |            | 1       | 25        | 21.30   | 21.60   | 21.67   | 22.20   |       |
| 64QAM     | 1          | 49      | 21.93     | 21.67   | 21.50   | 22.20   |         |       |
|           | 25         | 0       | 20.46     | 20.31   | 20.17   | 21.20   |         |       |
|           | 25         | 13      | 20.52     | 20.58   | 20.43   | 21.20   |         |       |
|           | 25         | 25      | 20.46     | 20.45   | 20.32   | 21.20   |         |       |
|           | 50         | 0       | 20.47     | 20.47   | 20.47   | 21.20   |         |       |
|           | 1          | 0       | 20.48     | 20.48   | 21.08   | 21.20   |         |       |
| 10MHz     | 64QAM      | 1       | 25        | 20.02   | 20.41   | 20.44   | 21.20   |       |
|           |            | 1       | 49        | 20.65   | 20.60   | 20.37   | 21.20   |       |
|           |            | 25      | 0         | 19.33   | 19.17   | 19.07   | 20.20   |       |
|           |            | 25      | 13        | 19.32   | 19.34   | 19.36   | 20.20   |       |
|           |            | 25      | 25        | 19.40   | 19.22   | 19.09   | 20.20   |       |
|           |            | 50      | 0         | 19.31   | 19.22   | 19.46   | 20.20   |       |

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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 22.67   | 22.51   | 22.57   | 23.20   |
|           |            | 1       | 38        | 22.50   | 22.71   | 22.53   | 23.20   |
|           |            | 1       | 74        | 22.60   | 22.44   | 22.46   | 23.20   |
|           |            | 36      | 0         | 21.52   | 21.61   | 21.53   | 22.20   |
|           |            | 36      | 18        | 21.75   | 21.62   | 21.57   | 22.20   |
|           |            | 36      | 39        | 21.66   | 21.69   | 21.58   | 22.20   |
|           |            | 75      | 0         | 21.69   | 21.70   | 21.59   | 22.20   |
|           | 16QAM      | 1       | 0         | 21.89   | 21.89   | 21.67   | 22.20   |
|           |            | 1       | 38        | 21.90   | 21.77   | 21.81   | 22.20   |
|           |            | 1       | 74        | 21.58   | 21.86   | 21.58   | 22.20   |
|           |            | 36      | 0         | 20.58   | 20.65   | 20.55   | 21.20   |
|           |            | 36      | 18        | 20.77   | 20.68   | 20.55   | 21.20   |
|           |            | 36      | 39        | 20.67   | 20.68   | 20.60   | 21.20   |
|           |            | 75      | 0         | 20.62   | 20.64   | 20.55   | 21.20   |
|           | 64QAM      | 1       | 0         | 20.80   | 20.87   | 20.42   | 21.20   |
|           |            | 1       | 38        | 20.89   | 20.57   | 20.70   | 21.20   |
|           |            | 1       | 74        | 20.42   | 20.69   | 20.49   | 21.20   |
|           |            | 36      | 0         | 19.55   | 19.65   | 19.45   | 20.20   |
|           |            | 36      | 18        | 19.69   | 19.54   | 19.48   | 20.20   |
|           |            | 36      | 39        | 19.40   | 19.57   | 19.42   | 20.20   |
|           |            | 75      | 0         | 19.47   | 19.60   | 19.52   | 20.20   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 22.68   | 22.54   | 22.56   | 23.20   |
|           |            | 1       | 50        | 22.58   | 22.66   | 22.31   | 23.20   |
|           |            | 1       | 99        | 22.65   | 22.48   | 22.37   | 23.20   |
|           |            | 50      | 0         | 21.65   | 21.71   | 21.64   | 22.20   |
|           |            | 50      | 25        | 21.68   | 21.65   | 21.64   | 22.20   |
|           |            | 50      | 50        | 21.69   | 21.62   | 21.50   | 22.20   |
|           |            | 100     | 0         | 21.71   | 21.72   | 21.64   | 22.20   |
|           | 16QAM      | 1       | 0         | 21.58   | 21.80   | 21.83   | 22.20   |
|           |            | 1       | 50        | 21.81   | 21.80   | 21.79   | 22.20   |
|           |            | 1       | 99        | 21.80   | 21.86   | 21.87   | 22.20   |
|           |            | 50      | 0         | 20.61   | 20.73   | 20.57   | 21.20   |
|           |            | 50      | 25        | 20.69   | 20.60   | 20.64   | 21.20   |
|           |            | 50      | 50        | 20.65   | 20.69   | 20.64   | 21.20   |
|           |            | 100     | 0         | 20.61   | 20.60   | 20.59   | 21.20   |
|           | 64QAM      | 1       | 0         | 20.43   | 20.61   | 20.76   | 21.20   |
|           |            | 1       | 50        | 20.81   | 20.75   | 20.67   | 21.20   |
|           |            | 1       | 99        | 20.54   | 20.62   | 20.86   | 21.20   |
|           |            | 50      | 0         | 19.55   | 19.60   | 19.52   | 20.20   |
|           |            | 50      | 25        | 19.44   | 19.55   | 19.44   | 20.20   |
|           |            | 50      | 50        | 19.47   | 19.69   | 19.54   | 20.20   |
|           |            | 100     | 0         | 19.43   | 19.51   | 19.37   | 20.20   |

Table 22: Conducted Power of LTE

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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### 8.1.5 Conducted Power of Uplink CA

- Uplink LTE CA Conducted Power of Ant0

| Combination | Modulation | PCC  |          |            |        |              |            | SCC  |          |            |        |              |       | Receiver on  |       | Receiver off |       | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/<br>WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on |       | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT Receiver off |  |
|-------------|------------|------|----------|------------|--------|--------------|------------|------|----------|------------|--------|--------------|-------|--------------|-------|--------------|-------|--|-------|---|--|
|             |            | 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) | Power | tune-up(dBm)   | Power | tune-up(dBm)  |  |
| CA_7C       | QPSK       | 7    | 20       | 20850      | 1      | 0            | 2650       | 7    | 20       | 21048      | 0      | 0            | 16.39 | 17.20        | 21.29 | 22.10        | 14.72 | 15.70  | 19.21 | 20.10   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 16.18 | 17.20        | 21.17 | 22.10        | 14.62 | 15.70  | 19.11 | 20.10   |  |
| CA_7C       | QPSK       | 7    | 20       | 21100      | 1      | 0            | 3100       | 7    | 20       | 21298      | 0      | 0            | 16.42 | 17.20        | 21.43 | 22.10        | 14.87 | 15.70  | 19.28 | 20.10   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 16.28 | 17.20        | 21.25 | 22.10        | 14.66 | 15.70  | 19.10 | 20.10   |  |
| CA_7C       | QPSK       | 7    | 20       | 21100      | 1      | 0            | 3100       | 7    | 20       | 20902      | 0      | 0            | 16.33 | 17.20        | 21.33 | 22.10        | 14.77 | 15.70  | 19.19 | 20.10   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 16.25 | 17.20        | 21.19 | 22.10        | 14.62 | 15.70  | 19.04 | 20.10   |  |
| CA_7C       | QPSK       | 7    | 20       | 21350      | 1      | 0            | 3350       | 7    | 20       | 21152      | 0      | 0            | 16.27 | 17.20        | 21.31 | 22.10        | 14.75 | 15.70  | 19.25 | 20.10   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 16.19 | 17.20        | 21.22 | 22.10        | 14.72 | 15.70  | 19.08 | 20.10   |  |

| Combination | Modulation | PCC  |          |            |        |              |            | SCC  |          |            |        |              |       | Receiver on  |       | Receiver off |       | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/<br>WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on |       | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT Receiver off |  |
|-------------|------------|------|----------|------------|--------|--------------|------------|------|----------|------------|--------|--------------|-------|--------------|-------|--------------|-------|--|-------|---|--|
|             |            | 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) | Power | tune-up(dBm)   | Power | tune-up(dBm)  |  |
| CA_38C      | QPSK       | 38   | 20       | 37850      | 1      | 0            | 37850      | 38   | 20       | 38048      | 0      | 0            | 19.68 | 20.10        | 22.58 | 23.00        | 18.11 | 18.60  | 18.11 | 18.60   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 19.48 | 20.10        | 22.49 | 23.00        | 18.02 | 18.60  | 18.02 | 18.60   |  |
| CA_38C      | QPSK       | 38   | 20       | 37901      | 1      | 0            | 37901      | 38   | 20       | 38099      | 0      | 0            | 19.51 | 20.10        | 22.56 | 23.00        | 18.21 | 18.60  | 18.21 | 18.60   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 19.46 | 20.10        | 22.49 | 23.00        | 18.11 | 18.60  | 18.11 | 18.60   |  |
| CA_38C      | QPSK       | 38   | 20       | 38099      | 1      | 0            | 38099      | 38   | 20       | 37901      | 0      | 0            | 18.49 | 20.10        | 22.57 | 23.00        | 18.09 | 18.60  | 18.09 | 18.60   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 19.43 | 20.10        | 22.51 | 23.00        | 18.23 | 18.60  | 18.23 | 18.60   |  |
| CA_38C      | QPSK       | 38   | 20       | 38150      | 1      | 0            | 38150      | 38   | 20       | 37952      | 0      | 0            | 19.53 | 20.10        | 22.55 | 23.00        | 18.13 | 18.60  | 18.13 | 18.60   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 19.51 | 20.10        | 22.43 | 23.00        | 18.02 | 18.60  | 18.02 | 18.60   |  |

| Combination | Modulation | PCC  |          |            |        |              |            | SCC  |          |            |        |              |       | Receiver on  |       | Receiver off |       | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/<br>WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on |       | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT Receiver off |  |
|-------------|------------|------|----------|------------|--------|--------------|------------|------|----------|------------|--------|--------------|-------|--------------|-------|--------------|-------|---|-------|---|--|
|             |            | 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) | Power | tune-up(dBm)  | Power | tune-up(dBm)  |  |
| CA_41C      | QPSK       | 41   | 20       | 39750      | 1      | 0            | 38750      | 41   | 20       | 39948      | 0      | 0            | 19.05 | 19.50        | 19.63 | 20.50        | 18.31 | 18.80   | 18.31 | 18.80   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 19.01 | 19.50        | 19.58 | 20.50        | 18.22 | 18.80   | 18.22 | 18.80   |  |
| CA_41C      | QPSK       | 41   | 20       | 40185      | 1      | 0            | 39150      | 41   | 20       | 40383      | 0      | 0            | 19.11 | 19.50        | 19.55 | 20.50        | 18.29 | 18.80   | 18.29 | 18.80   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 19.06 | 19.50        | 19.62 | 20.50        | 18.17 | 18.80   | 18.17 | 18.80   |  |
| CA_41C      | QPSK       | 41   | 20       | 40185      | 1      | 0            | 39150      | 41   | 20       | 39987      | 0      | 0            | 18.93 | 19.50        | 19.48 | 20.50        | 18.31 | 18.80   | 18.31 | 18.80   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 18.86 | 19.50        | 19.63 | 20.50        | 18.26 | 18.80   | 18.26 | 18.80   |  |
| CA_41C      | QPSK       | 41   | 20       | 40620      | 1      | 0            | 39150      | 41   | 20       | 40818      | 0      | 0            | 18.99 | 19.50        | 19.61 | 20.50        | 18.19 | 18.80   | 18.19 | 18.80   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 18.92 | 19.50        | 19.55 | 20.50        | 18.11 | 18.80   | 18.11 | 18.80   |  |
| CA_41C      | QPSK       | 41   | 20       | 40620      | 1      | 0            | 39150      | 41   | 20       | 40422      | 0      | 0            | 19.03 | 19.50        | 19.53 | 20.50        | 18.22 | 18.80   | 18.22 | 18.80   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 19.01 | 19.50        | 18.55 | 20.50        | 18.14 | 18.80   | 18.14 | 18.80   |  |
| CA_41C      | QPSK       | 41   | 20       | 41055      | 1      | 0            | 39150      | 41   | 20       | 41253      | 0      | 0            | 18.96 | 19.50        | 19.48 | 20.50        | 18.37 | 18.80   | 18.37 | 18.80   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 18.86 | 19.50        | 19.62 | 20.50        | 18.36 | 18.80   | 18.36 | 18.80   |  |
| CA_41C      | QPSK       | 41   | 20       | 41055      | 1      | 0            | 39150      | 41   | 20       | 40857      | 0      | 0            | 18.93 | 19.50        | 19.51 | 20.50        | 18.22 | 18.80   | 18.22 | 18.80   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 18.87 | 19.50        | 19.44 | 20.50        | 18.16 | 18.80   | 18.16 | 18.80   |  |
| CA_41C      | QPSK       | 41   | 20       | 41490      | 1      | 0            | 39550      | 41   | 20       | 41292      | 0      | 0            | 18.99 | 19.50        | 19.58 | 20.50        | 18.55 | 18.80   | 18.55 | 18.80   |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 18.83 | 19.50        | 19.53 | 20.50        | 18.46 | 18.80   | 18.46 | 18.80   |  |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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• Uplink LTE CA Conducted Power of Ant2

| Combination | Modulation | PCC  |          |            |         |              |            | SCC  |          |            |        |                |                | Receiver on    |                | Receiver off   |                | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/<br>WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on |                |                |                | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT Receiver off |                |              |  |
|-------------|------------|------|----------|------------|---------|--------------|------------|------|----------|------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|--|----------------|----------------|----------------|---|----------------|--------------|--|
|             |            | 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)   | Power          |  | tune-up(dBm)   |                | Power          |   | tune-up(dBm)   |              |  |
|             |            |      |          |            |         |              |            |      |          |            |        |                |                |                |                |                | Power          | tune-up(dBm)   | Power          | tune-up(dBm)   | Power          | tune-up(dBm)  | Power          | tune-up(dBm) |  |
| CA_7C       | QPSK       | 7    | 20       | 20850      | 1<br>18 | 0<br>0       | 2850       | 7    | 20       | 21048      | 0<br>0 | 13.82<br>13.71 | 15.00<br>15.00 | 19.32<br>19.18 | 19.80<br>19.80 | 13.55<br>13.29 | 14.00<br>14.00 | 17.32<br>17.14   | 17.70<br>17.70 | 13.55<br>13.50 | 14.00<br>14.00 | 17.32<br>17.19  | 17.70<br>17.70 |              |  |
| CA_7C       | QPSK       | 7    | 20       | 21100      | 1<br>18 | 0<br>0       | 3100       | 7    | 20       | 21298      | 0<br>0 | 13.88<br>13.85 | 15.00<br>15.00 | 19.11<br>19.17 | 19.80<br>19.80 | 13.33<br>13.29 | 14.00<br>14.00 | 17.01<br>17.08   | 17.70<br>17.70 | 13.33<br>13.50 | 14.00<br>14.00 | 17.01<br>17.08  | 17.70<br>17.70 |              |  |
| CA_7C       | QPSK       | 7    | 20       | 21100      | 1<br>18 | 0<br>0       | 3100       | 7    | 20       | 20902      | 0<br>0 | 13.81<br>13.81 | 15.00<br>15.00 | 19.02<br>19.02 | 19.80<br>19.80 | 13.32<br>13.29 | 14.00<br>14.00 | 16.99<br>17.03   | 17.70<br>17.70 | 13.32<br>13.24 | 14.00<br>14.00 | 16.99<br>17.03  | 17.70<br>17.70 |              |  |
| CA_7C       | QPSK       | 7    | 20       | 21350      | 1<br>18 | 0<br>0       | 3350       | 7    | 20       | 21152      | 0<br>0 | 13.79<br>13.71 | 15.00<br>15.00 | 19.12<br>19.00 | 19.80<br>19.80 | 13.24<br>13.18 | 14.00<br>14.00 | 16.95<br>16.95   | 17.70<br>17.70 | 13.24<br>13.18 | 14.00<br>14.00 | 16.95<br>16.95  | 17.70<br>17.70 |              |  |

| Combination | Modulation | PCC  |          |            |         |              |            | SCC  |          |            |        |                |                | Receiver on    |                | Receiver off   |                | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on |                |                |                | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off |                |                |                |
|-------------|------------|------|----------|------------|---------|--------------|------------|------|----------|------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|--|----------------|----------------|----------------|---|----------------|----------------|----------------|
|             |            | 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)   | Power          |  | tune-up(dBm)   |                | Power          |   | tune-up(dBm)   |                |                |
|             |            |      |          |            |         |              |            |      |          |            |        |                |                |                |                |                | Power          | tune-up(dBm)                                       | Power          | tune-up(dBm)   | Power          | tune-up(dBm)  | Power          | tune-up(dBm)   |                |
| CA_38C      | QPSK       | 38   | 20       | 37850      | 1<br>18 | 0<br>0       | 37850      | 38   | 20       | 38048      | 0<br>0 | 15.59<br>15.51 | 16.50<br>16.50 | 20.50<br>20.28 | 21.30<br>21.30 | 14.18<br>13.83 | 14.90<br>14.90 | 14.57<br>14.44                                     | 15.40<br>15.40 | 18.78<br>18.55 | 19.50<br>19.50 | 14.57<br>14.45                                      | 15.40<br>15.40 | 18.78<br>18.51 | 19.50<br>19.50 |
| CA_38C      | QPSK       | 38   | 20       | 37901      | 1<br>18 | 0<br>0       | 37901      | 38   | 20       | 38099      | 0<br>0 | 15.48<br>15.34 | 16.50<br>16.50 | 20.37<br>20.22 | 21.30<br>21.30 | 13.95<br>13.83 | 14.90<br>14.90 | 14.45<br>14.39                                     | 15.40<br>15.40 | 18.51<br>18.38 | 19.50<br>19.50 | 14.45<br>14.39                                      | 15.40<br>15.40 | 18.51<br>18.38 | 19.50<br>19.50 |
| CA_38C      | QPSK       | 38   | 20       | 38099      | 1<br>18 | 0<br>0       | 38099      | 38   | 20       | 37901      | 0<br>0 | 15.60<br>15.42 | 16.50<br>16.50 | 20.39<br>20.18 | 21.30<br>21.30 | 13.93<br>13.82 | 14.90<br>14.90 | 14.52<br>14.24                                     | 15.40<br>15.40 | 18.67<br>18.36 | 19.50<br>19.50 | 14.52<br>14.61                                      | 15.40<br>15.40 | 18.67<br>18.66 | 19.50<br>19.50 |
| CA_38C      | QPSK       | 38   | 20       | 38150      | 1<br>18 | 0<br>0       | 38150      | 38   | 20       | 37952      | 0<br>0 | 15.62<br>15.48 | 16.50<br>16.50 | 20.54<br>20.32 | 21.30<br>21.30 | 14.07<br>13.92 | 14.90<br>14.90 | 14.61<br>14.45                                     | 15.40<br>15.40 | 18.66<br>18.61 | 19.50<br>19.50 | 14.61<br>14.45                                      | 15.40<br>15.40 | 18.66<br>18.61 | 19.50<br>19.50 |

| Combination | Modulation | PCC  |          |            |         |              |            | SCC  |          |            |        |                |                | Receiver on    |                | Receiver off   |                | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on |                |                |                | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off |                |                |                |                |                |                |                |
|-------------|------------|------|----------|------------|---------|--------------|------------|------|----------|------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|--|----------------|----------------|----------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|             |            | 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)   | Power          |  | tune-up(dBm)   |                | Power          |   | tune-up(dBm)   |                |                |                |                |                |                |
|             |            |      |          |            |         |              |            |      |          |            |        |                |                |                |                |                | Power          | tune-up(dBm)                                       | Power          | tune-up(dBm)   | Power          | tune-up(dBm)  | Power          | tune-up(dBm)   |                |                |                |                |                |
| CA_41C      | QPSK       | 41   | 20       | 39750      | 1<br>18 | 0<br>0       | 39750      | 41   | 20       | 39948      | 0<br>0 | 15.05<br>15.93 | 16.40<br>16.40 | 19.21<br>19.17 | 19.50<br>18.50 | 14.68<br>14.60 | 15.00<br>15.00 | 17.82<br>17.97                                     | 18.20<br>15.23 | 15.50<br>15.50 | 18.84<br>18.89 | 19.20<br>19.20                                      | 15.17<br>15.23 | 15.50<br>15.50 | 18.84<br>18.89 | 19.20<br>19.20 |                |                |                |
| CA_41C      | QPSK       | 41   | 20       | 40185      | 1<br>18 | 0<br>0       | 39150      | 41   | 20       | 40383      | 0<br>0 | 16.01<br>15.88 | 18.40<br>18.40 | 19.22<br>19.09 | 19.50<br>19.50 | 14.82<br>14.51 | 15.00<br>15.00 | 18.02<br>17.70                                     | 18.20<br>18.20 | 15.17<br>15.16 | 15.50<br>15.50 | 18.96<br>18.88                                      | 19.20<br>19.20 | 18.02<br>17.70 | 18.20<br>18.20 | 15.17<br>15.16 | 15.50<br>15.50 | 18.96<br>18.88 | 19.20<br>19.20 |
| CA_41C      | QPSK       | 41   | 20       | 40185      | 1<br>18 | 0<br>0       | 39150      | 41   | 20       | 39987      | 0<br>0 | 15.96<br>15.87 | 18.40<br>18.40 | 18.99<br>18.82 | 19.50<br>19.50 | 14.47<br>14.31 | 15.00<br>15.00 | 17.88<br>17.60                                     | 14.92<br>14.75 | 15.50<br>15.50 | 18.98<br>18.50 | 19.20<br>19.20                                      | 17.88<br>17.60 | 14.92<br>14.75 | 15.50<br>15.50 | 18.98<br>18.50 | 19.20<br>19.20 |                |                |
| CA_41C      | QPSK       | 41   | 20       | 40620      | 1<br>18 | 0<br>0       | 39150      | 41   | 20       | 40818      | 0<br>0 | 15.99<br>15.79 | 18.40<br>18.40 | 19.03<br>18.92 | 19.50<br>19.50 | 14.55<br>14.35 | 15.00<br>15.00 | 17.69<br>17.57                                     | 15.11<br>14.99 | 15.50<br>15.50 | 18.77<br>18.50 | 19.20<br>19.20                                      | 17.69<br>17.57 | 15.11<br>14.99 | 15.50<br>15.50 | 18.77<br>18.50 | 19.20<br>19.20 |                |                |
| CA_41C      | QPSK       | 41   | 20       | 40620      | 1<br>18 | 0<br>0       | 39150      | 41   | 20       | 40422      | 0<br>0 | 15.87<br>15.76 | 16.40<br>16.40 | 18.99<br>18.83 | 19.50<br>19.50 | 14.45<br>14.40 | 15.00<br>15.00 | 17.69<br>17.51                                     | 14.95<br>14.74 | 15.50<br>15.50 | 18.61<br>18.47 | 19.20<br>19.20                                      | 14.95<br>14.74 | 15.50<br>15.50 | 18.61<br>18.47 | 19.20<br>19.20 |                |                |                |
| CA_41C      | QPSK       | 41   | 20       | 41055      | 1<br>18 | 0<br>0       | 39150      | 41   | 20       | 41253      | 0<br>0 | 16.95<br>15.82 | 18.40<br>18.40 | 19.32<br>19.20 | 19.50<br>19.50 | 14.76<br>14.65 | 15.00<br>15.00 | 18.10<br>17.81                                     | 18.20<br>18.20 | 15.25<br>15.21 | 15.50<br>15.50 | 18.99<br>18.81                                      | 19.20<br>19.20 | 18.10<br>17.81 | 18.20<br>18.20 | 15.25<br>15.21 | 15.50<br>15.50 | 18.99<br>18.81 | 19.20<br>19.20 |
| CA_41C      | QPSK       | 41   | 20       | 41055      | 1<br>18 | 0<br>0       | 39150      | 41   | 20       | 40957      | 0<br>0 | 15.79<br>15.73 | 18.40<br>18.40 | 19.28<br>19.11 | 19.50<br>19.50 | 14.81<br>14.64 | 15.00<br>15.00 | 17.93<br>17.80                                     | 18.20<br>18.20 | 15.11<br>15.05 | 15.50<br>15.50 | 18.97<br>18.80                                      | 19.20<br>19.20 | 17.93<br>17.80 | 18.20<br>18.20 | 15.11<br>15.05 | 15.50<br>15.50 | 18.97<br>18.80 | 19.20<br>19.20 |
| CA_41C      | QPSK       | 41   | 20       | 41490      | 1<br>18 | 0<br>0       | 39550      | 41   | 20       | 41292      | 0<br>0 | 15.96<br>15.84 | 16.40<br>16.40 | 19.24<br>19.09 | 19.50<br>19.50 | 14.65<br>14.65 | 15.00<br>15.00 | 17.98<br>17.86                                     | 18.20<br>18.20 | 15.29<br>15.03 | 15.50<br>15.50 | 18.98<br>18.87                                      | 19.20<br>19.20 | 17.98<br>17.86 | 18.20<br>18.20 | 15.29<br>15.03 | 15.50<br>15.50 | 18.98<br>18.87 | 19.20<br>19.20 |

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• Uplink LTE CA Conducted Power of Ant3

| Combination | Modulation | PCC  |          |            |        |              |            | SCC  |          |            |        |              |       | Receiver on/<br>WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/<br>WWAN+WLAN 2.4G Receiver on<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on/<br>WWAN+WLAN 5G Receiver off<br>WWAN+WLAN 5G+BT Receiver off |       | Receiver off  |       | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off |  |
|-------------|------------|------|----------|------------|--------|--------------|------------|------|----------|------------|--------|--------------|-------|---|-------|---|-------|--|--|
|             |            | 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)  | Power | tune-up(dBm)   |  |
| CA_7C       | QPSK       | 7    | 20       | 20850      | 1      | 0            | 2850       | 7    | 20       | 21048      | 0      | 0            | 22.98 | 23.70   | 21.83 | 23.00   | 20.26 | 20.90  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 22.91 | 23.70   | 21.73 | 23.00   | 20.09 | 20.90  |  |
| CA_7C       | QPSK       | 7    | 20       | 21100      | 1      | 0            | 3100       | 7    | 20       | 21298      | 0      | 0            | 22.89 | 23.70   | 21.96 | 23.00   | 20.12 | 20.90  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 22.78 | 23.70   | 21.77 | 23.00   | 20.02 | 20.90  |  |
| CA_7C       | QPSK       | 7    | 20       | 21100      | 1      | 0            | 3100       | 7    | 20       | 20902      | 0      | 0            | 22.81 | 23.70   | 21.81 | 23.00   | 20.01 | 20.90  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 22.66 | 23.70   | 21.69 | 23.00   | 19.79 | 20.90  |  |
| CA_7C       | QPSK       | 7    | 20       | 21350      | 1      | 0            | 3350       | 7    | 20       | 21152      | 0      | 0            | 22.79 | 23.70   | 21.78 | 23.00   | 20.08 | 20.90  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 22.67 | 23.70   | 21.66 | 23.00   | 19.82 | 20.90  |  |
| Combination | Modulation | PCC  |          |            |        |              |            | SCC  |          |            |        |              |       | Power   |       | tune-up(dBm)  |       |  |  |
| CA_38C      | QPSK       | 38   | 20       | 37850      | 1      | 0            | 37850      | 38   | 20       | 38048      | 0      | 0            | 23.18 | 23.60   |       |   |       |  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 23.05 | 23.60   |       |   |       |  |  |
| CA_38C      | QPSK       | 38   | 20       | 37901      | 1      | 0            | 37901      | 38   | 20       | 38099      | 0      | 0            | 23.20 | 23.60   |       |   |       |  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 23.09 | 23.60   |       |   |       |  |  |
| CA_38C      | QPSK       | 38   | 20       | 38099      | 1      | 0            | 38099      | 38   | 20       | 37901      | 0      | 0            | 23.21 | 23.60   |       |   |       |  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 23.12 | 23.60   |       |   |       |  |  |
| CA_38C      | QPSK       | 38   | 20       | 38150      | 1      | 0            | 38150      | 38   | 20       | 37952      | 0      | 0            | 23.33 | 23.60   |       |   |       |  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 23.17 | 23.60   |       |   |       |  |  |
| Combination | Modulation | PCC  |          |            |        |              |            | SCC  |          |            |        |              |       | Receiver on/<br>Receiver off/<br>WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/<br>WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on   |       | WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 2.4G Receiver off/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver off/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT Receiver off |       |  |  |
| CA_41C      | QPSK       | 41   | 20       | 39750      | 1      | 0            | 38750      | 41   | 20       | 39948      | 0      | 0            | 22.83 | 23.50   | 22.22 | 23.00   |       |  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 22.76 | 23.50   | 22.29 | 23.00   |       |  |  |
| CA_41C      | QPSK       | 41   | 20       | 40185      | 1      | 0            | 39150      | 41   | 20       | 40383      | 0      | 0            | 22.91 | 23.50   | 22.38 | 23.00   |       |  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 22.78 | 23.50   | 22.33 | 23.00   |       |  |  |
| CA_41C      | QPSK       | 41   | 20       | 40185      | 1      | 0            | 39150      | 41   | 20       | 39987      | 0      | 0            | 22.90 | 23.50   | 22.37 | 23.00   |       |  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 22.83 | 23.50   | 22.34 | 23.00   |       |  |  |
| CA_41C      | QPSK       | 41   | 20       | 40620      | 1      | 0            | 39150      | 41   | 20       | 40818      | 0      | 0            | 22.89 | 23.50   | 22.31 | 23.00   |       |  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 22.77 | 23.50   | 22.28 | 23.00   |       |  |  |
| CA_41C      | QPSK       | 41   | 20       | 40620      | 1      | 0            | 39150      | 41   | 20       | 40422      | 0      | 0            | 22.85 | 23.50   | 22.39 | 23.00   |       |  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 22.76 | 23.50   | 22.11 | 23.00   |       |  |  |
| CA_41C      | QPSK       | 41   | 20       | 41055      | 1      | 0            | 39150      | 41   | 20       | 41253      | 0      | 0            | 22.90 | 23.50   | 22.29 | 23.00   |       |  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 22.81 | 23.50   | 22.35 | 23.00   |       |  |  |
| CA_41C      | QPSK       | 41   | 20       | 41055      | 1      | 0            | 39150      | 41   | 20       | 40857      | 0      | 0            | 22.79 | 23.50   | 22.30 | 23.00   |       |  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 22.73 | 23.50   | 22.26 | 23.00   |       |  |  |
| CA_41C      | QPSK       | 41   | 20       | 41490      | 1      | 0            | 39550      | 41   | 20       | 41292      | 0      | 0            | 22.86 | 23.50   | 22.21 | 23.00   |       |  |  |
|             |            |      |          |            | 18     | 0            |            |      |          |            | 0      | 0            | 22.80 | 23.50   | 22.28 | 23.00   |       |  |  |

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### 8.1.6 Conducted Power of WIFI and BT

| 2.4G WIFI Ant 8(Chain1)   |              |         |                 |                 |         |                     |          |
|---|--------------|---------|-----------------|-----------------|---------|---------------------|----------|
| Antenna   | Mode         | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| Ant8 (Chain1)   | 802.11g      | 1       | 2412            | 6               | 19.50   | 18.19               | No       |
|   |              | 6       | 2437            |                 | 19.50   | <b>18.31</b>        | Yes      |
|   |              | 11      | 2462            |                 | 19.50   | 18.19               | No       |
|   | 802.11n HT20 | 1       | 2412            | 6.5             | 19.50   | 18.08               | No       |
|   |              | 6       | 2437            |                 | 19.50   | 18.15               | No       |
|   |              | 11      | 2462            |                 | 19.50   | 18.01               | No       |
| Receiver on   |              |         |                 |                 |         |                     |          |
| Antenna   | Mode         | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| Ant9 (Chain0)   | 802.11b      | 1       | 2412            | 1               | 15.50   | 14.14               | No       |
|   |              | 6       | 2437            |                 | 15.50   | 14.26               | No       |
|   |              | 11      | 2462            |                 | 15.50   | <b>14.32</b>        | Yes      |
|   | 802.11g      | 1       | 2412            | 6               | 15.00   | 13.36               | No       |
|   |              | 6       | 2437            |                 | 15.00   | 13.50               | No       |
|   |              | 11      | 2462            |                 | 15.00   | 13.71               | No       |
|   | 802.11n HT20 | 1       | 2412            | 6.5             | 15.00   | 13.26               | No       |
|   |              | 6       | 2437            |                 | 15.00   | 13.27               | No       |
|   |              | 11      | 2462            |                 | 15.00   | 13.48               | No       |
| Receiver off/<br>WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off                   |              |         |                 |                 |         |                     |          |
| Antenna   | Mode         | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| Ant9 (Chain0)   | 802.11b      | 1       | 2412            | 1               | 20.00   | 18.66               | No       |
|   |              | 6       | 2437            |                 | 20.00   | 18.77               | No       |
|   |              | 11      | 2462            |                 | 20.00   | <b>18.90</b>        | Yes      |
|   | 802.11g      | 1       | 2412            | 6               | 19.50   | 17.91               | No       |
|   |              | 6       | 2437            |                 | 19.50   | 17.99               | No       |
|   |              | 11      | 2462            |                 | 19.50   | 18.12               | No       |
|   | 802.11n HT20 | 1       | 2412            | 6.5             | 19.50   | 17.79               | No       |
|   |              | 6       | 2437            |                 | 19.50   | 17.81               | No       |
|   |              | 11      | 2462            |                 | 19.50   | 17.97               | No       |
| WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/<br>WWAN+WLAN 2.4G Receiver on |              |         |                 |                 |         |                     |          |
| Antenna   | Mode         | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| Ant9 (Chain0)   | 802.11b      | 1       | 2412            | 1               | 13.80   | 12.62               | No       |
|   |              | 6       | 2437            |                 | 13.80   | 12.72               | No       |
|   |              | 11      | 2462            |                 | 13.80   | 12.80               | Yes      |
|   | 802.11g      | 1       | 2412            | 6               | 13.30   | 11.59               | No       |
|   |              | 6       | 2437            |                 | 13.30   | 11.69               | No       |
|   |              | 11      | 2462            |                 | 13.30   | 11.85               | No       |
|   | 802.11n HT20 | 1       | 2412            | 6.5             | 13.30   | 11.26               | No       |
|   |              | 6       | 2437            |                 | 13.30   | 11.23               | No       |
|   |              | 11      | 2462            |                 | 13.30   | 11.51               | No       |

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| WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 2.4G Receiver off |                 |         |                 |                 |         |                     |          |
|---|-----------------|---------|-----------------|-----------------|---------|---------------------|----------|
| Antenna   | Mode            | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| Ant9<br>(Chain0)  | 802.11b         | 1       | 2412            | 1               | 18.00   | 16.70               | No       |
|   |                 | 6       | 2437            |                 | 18.00   | 16.80               | No       |
|   |                 | 11      | 2462            |                 | 18.00   | 16.97               | Yes      |
|   | 802.11g         | 1       | 2412            | 6               | 17.50   | 15.97               | No       |
|   |                 | 6       | 2437            |                 | 17.50   | 16.05               | No       |
|   |                 | 11      | 2462            |                 | 17.50   | 16.12               | No       |
|   | 802.11n<br>HT20 | 1       | 2412            | 6.5             | 17.50   | 15.76               | No       |
|   |                 | 6       | 2437            |                 | 17.50   | 15.85               | No       |
|   |                 | 11      | 2462            |                 | 17.50   | 16.03               | No       |
| WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on                                       |                 |         |                 |                 |         |                     |          |
| Antenna   | Mode            | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| Ant9<br>(Chain0)  | 802.11b         | 1       | 2412            | 1               | 16.50   | 15.21               | No       |
|   |                 | 6       | 2437            |                 | 16.50   | 15.35               | No       |
|   |                 | 11      | 2462            |                 | 16.50   | 15.31               | No       |
|   | 802.11g         | 1       | 2412            | 6               | 16.00   | 14.50               | No       |
|   |                 | 6       | 2437            |                 | 16.00   | 14.56               | No       |
|   |                 | 11      | 2462            |                 | 16.00   | 14.64               | No       |
|   | 802.11n<br>HT20 | 1       | 2412            | 6.5             | 16.00   | 14.25               | No       |
|   |                 | 6       | 2437            |                 | 16.00   | 14.37               | No       |
|   |                 | 11      | 2462            |                 | 16.00   | 14.49               | No       |

| Receiver on  |                 |         |                |                 |         |                     |          |
|--------------|-----------------|---------|----------------|-----------------|---------|---------------------|----------|
| Antenna      | Mode            | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| MIMO         | 802.11g         | 1       | 2412           | 6               | 18.00   | 16.52               | No       |
|              |                 | 6       | 2437           |                 | 18.00   | 16.66               | No       |
|              |                 | 11      | 2462           |                 | 18.00   | <b>16.72</b>        | Yes      |
|              | 802.11n<br>HT20 | 1       | 2412           | 6.5             | 18.00   | 16.45               | No       |
|              |                 | 6       | 2437           |                 | 18.00   | 16.47               | No       |
|              |                 | 11      | 2462           |                 | 18.00   | 16.49               | No       |
| Receiver off |                 |         |                |                 |         |                     |          |
| Antenna      | Mode            | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| MIMO         | 802.11g         | 1       | 2412           | 6               | 22.50   | 21.06               | No       |
|              |                 | 6       | 2437           |                 | 22.50   | 21.16               | No       |
|              |                 | 11      | 2462           |                 | 22.50   | <b>21.17</b>        | Yes      |
|              | 802.11n<br>HT20 | 1       | 2412           | 6.5             | 22.50   | 20.95               | No       |
|              |                 | 6       | 2437           |                 | 22.50   | 20.99               | No       |
|              |                 | 11      | 2462           |                 | 22.50   | 21.00               | No       |

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| WWAN+WLAN 2.4G Receiver on  |              |         |                |                 |         |                     |          |
|-----------------------------|--------------|---------|----------------|-----------------|---------|---------------------|----------|
| Antenna                     | Mode         | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| MIMO                        | 802.11g      | 1       | 2412           | 6               | 16.30   | 14.60               | No       |
|                             |              | 6       | 2437           |                 | 16.30   | 14.69               | No       |
|                             |              | 11      | 2462           |                 | 16.30   | 14.86               | Yes      |
|                             | 802.11n HT20 | 1       | 2412           | 6.5             | 16.30   | 14.30               | No       |
|                             |              | 6       | 2437           |                 | 16.30   | 14.28               | No       |
|                             |              | 11      | 2462           |                 | 16.30   | 14.51               | No       |
| WWAN+WLAN 2.4G Receiver off |              |         |                |                 |         |                     |          |
| Antenna                     | Mode         | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| MIMO                        | 802.11g      | 1       | 2412           | 6               | 20.50   | 18.93               | No       |
|                             |              | 6       | 2437           |                 | 20.50   | 19.01               | No       |
|                             |              | 11      | 2462           |                 | 20.50   | 19.16               | No       |
|                             | 802.11n HT20 | 1       | 2412           | 6.5             | 20.50   | 18.77               | No       |
|                             |              | 6       | 2437           |                 | 20.50   | 18.83               | No       |
|                             |              | 11      | 2462           |                 | 20.50   | 19.0                | No       |

| Ant 6(chain0) Receiver on/<br>WLAN 5G+BT 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               | 19.5    | 18.00               | No       |
|  |          | 40      | 5200           |                 | 19.5    | 18.17               | No       |
|  |          | 44      | 5220           |                 | 19.5    | 18.11               | No       |
|  |          | 48      | 5240           |                 | 19.5    | 18.05               | No       |
|  | U-NII-2A | 52      | 5260           |                 | 19.5    | 18.15               | No       |
|  |          | 56      | 5280           |                 | 19.5    | 18.08               | No       |
|  |          | 60      | 5300           |                 | 19.5    | 18.07               | No       |
|  |          | 64      | 5320           |                 | 19.5    | <b>18.21</b>        | Yes      |
|  | U-NII-2C | 100     | 5500           |                 | 19.5    | 18.13               | No       |
|  |          | 104     | 5520           |                 | 19.5    | 18.03               | No       |
|  |          | 108     | 5540           |                 | 19.5    | 17.85               | No       |
|  |          | 112     | 5560           |                 | 19.5    | 17.96               | No       |
|  |          | 116     | 5580           |                 | 19.5    | <b>18.29</b>        | Yes      |
|  |          | 120     | 5600           |                 | 19.5    | 18.01               | No       |
|  |          | 124     | 5620           |                 | 19.5    | 18.03               | No       |
|  |          | 128     | 5640           |                 | 19.5    | 18.11               | No       |
|  |          | 132     | 5660           |                 | 19.5    | 18.04               | No       |
|  |          | 136     | 5680           |                 | 19.5    | 18.12               | No       |
|  | U-NII-3  | 140     | 5700           |                 | 19.5    | 18.16               | No       |
|  |          | 149     | 5745           |                 | 12.5    | 10.90               | No       |
| 153  |          | 5765    | 12.5           | 10.89           | No      |                     |          |
| 157  |          | 5785    | 12.5           | 10.99           | No      |                     |          |
| 161  |          | 5805    | 12.5           | 10.95           | No      |                     |          |
|  |          | 165     | 5825           | 12.5            | 11.07   | No                  |          |

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| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|------------------|----------|---------|----------------|-----------------|---------|---------------------|----------|
| 802.11n-<br>HT20 | U-NII-1  | 36      | 5180           | MCS0            | 19.0    | 17.48               | No       |
|                  |          | 40      | 5200           |                 | 19.0    | 17.46               | No       |
|                  |          | 44      | 5220           |                 | 19.0    | 17.42               | No       |
|                  |          | 48      | 5240           |                 | 19.0    | 17.51               | No       |
|                  | U-NII-2A | 52      | 5260           |                 | 19.0    | 17.45               | No       |
|                  |          | 56      | 5280           |                 | 19.0    | 17.44               | No       |
|                  |          | 60      | 5300           |                 | 19.0    | 17.47               | No       |
|                  |          | 64      | 5320           |                 | 19.0    | 17.52               | No       |
|                  | U-NII-2C | 100     | 5500           |                 | 19.0    | 17.43               | No       |
|                  |          | 104     | 5520           |                 | 19.0    | 17.42               | No       |
|                  |          | 108     | 5540           |                 | 19.0    | 17.26               | No       |
|                  |          | 112     | 5560           |                 | 19.0    | 17.41               | No       |
|                  |          | 116     | 5580           |                 | 19.0    | 17.42               | No       |
|                  |          | 120     | 5600           |                 | 19.0    | 17.54               | No       |
|                  |          | 124     | 5620           |                 | 19.0    | 17.37               | No       |
|                  |          | 128     | 5640           |                 | 19.0    | 17.53               | No       |
|                  | U-NII-3  | 132     | 5660           |                 | 19.0    | 17.63               | No       |
|                  |          | 136     | 5680           |                 | 19.0    | 17.57               | No       |
|                  |          | 140     | 5700           |                 | 19.0    | 17.51               | No       |
|                  |          | 149     | 5745           |                 | 12.5    | 10.75               | No       |
| 153              |          | 5765    | 12.5           | 10.74           | No      |                     |          |
|                  |          | 157     | 5785           | 12.5            | 10.73   | No                  |          |
|                  |          | 161     | 5805           | 12.5            | 10.87   | No                  |          |
|                  |          | 165     | 5825           | 12.5            | 10.99   | No                  |          |
| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | MCS0            | 16.0    | 14.97               | No       |
|                  |          | 46      | 5230           |                 | 19.0    | 17.94               | No       |
|                  | U-NII-2A | 54      | 5270           |                 | 19.0    | 17.95               | No       |
|                  |          | 62      | 5310           |                 | 15.0    | 13.94               | No       |
|                  | U-NII-2C | 102     | 5510           |                 | 13.5    | 12.41               | No       |
|                  |          | 110     | 5550           |                 | 19.0    | 17.62               | No       |
|                  |          | 118     | 5590           |                 | 19.0    | 17.99               | No       |
|                  |          | 126     | 5630           |                 | 19.0    | 17.86               | No       |
|                  | U-NII-3  | 134     | 5670           |                 | 19.0    | 17.95               | No       |
|                  |          | 151     | 5755           |                 | 12.5    | 10.49               | No       |
| 159              |          | 5795    | 12.5           | 10.56           | No      |                     |          |

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| 5GHz            | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|-----------------|----------|---------|----------------|-----------------|---------|---------------------|----------|
| 802.11ac<br>20M | U-NII-1  | 36      | 5180           | MCS0            | 18.5    | 16.99               | No       |
|                 |          | 40      | 5200           |                 | 18.5    | 16.98               | No       |
|                 |          | 44      | 5220           |                 | 18.5    | 17.01               | No       |
|                 |          | 48      | 5240           |                 | 18.5    | 17.01               | No       |
|                 | U-NII-2A | 52      | 5260           |                 | 18.5    | 17.03               | No       |
|                 |          | 56      | 5280           |                 | 18.5    | 17.01               | No       |
|                 |          | 60      | 5300           |                 | 18.5    | 16.95               | No       |
|                 |          | 64      | 5320           |                 | 18.5    | 17.08               | No       |
|                 | U-NII-2C | 100     | 5500           |                 | 18.5    | 16.94               | No       |
|                 |          | 104     | 5520           |                 | 18.5    | 16.85               | No       |
|                 |          | 108     | 5540           |                 | 18.5    | 16.83               | No       |
|                 |          | 112     | 5560           |                 | 18.5    | 16.83               | No       |
|                 |          | 116     | 5580           |                 | 18.5    | 17.02               | No       |
|                 |          | 120     | 5600           |                 | 18.5    | 17.07               | No       |
|                 |          | 124     | 5620           |                 | 18.5    | 17.15               | No       |
|                 |          | 128     | 5640           |                 | 18.5    | 17.11               | No       |
|                 | U-NII-3  | 132     | 5660           |                 | 18.5    | 17.20               | No       |
|                 |          | 136     | 5680           |                 | 18.5    | 17.15               | No       |
|                 |          | 140     | 5700           |                 | 18.5    | 17.03               | No       |
|                 |          | 149     | 5745           |                 | 12.5    | 10.81               | No       |
| 153             |          | 5765    | 12.5           | 10.75           | No      |                     |          |
|                 |          | 157     | 5785           | 12.5            | 10.74   | No                  |          |
|                 |          | 161     | 5805           | 12.5            | 10.88   | No                  |          |
|                 |          | 165     | 5825           | 12.5            | 10.99   | 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            | 16.0    | 17.41               | No       |
|                 |          | 46      | 5230           |                 | 18.5    | 17.43               | No       |
|                 | U-NII-2A | 54      | 5270           |                 | 18.5    | 17.45               | No       |
|                 |          | 62      | 5310           |                 | 15.0    | 17.52               | No       |
|                 | U-NII-2C | 102     | 5510           |                 | 13.5    | 17.33               | No       |
|                 |          | 110     | 5550           |                 | 18.5    | 17.19               | No       |
|                 |          | 118     | 5590           |                 | 18.5    | 17.52               | No       |
|                 |          | 126     | 5630           |                 | 18.5    | 17.62               | No       |
|                 | U-NII-3  | 134     | 5670           |                 | 18.5    | 17.63               | No       |
|                 |          | 151     | 5755           |                 | 12.5    | 10.77               | No       |
| 159             |          | 5795    | 12.5           | 10.87           | 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            | 14.5    | 13.19               | No       |
|                 | U-NII-2A | 58      | 5290           |                 | 14.0    | 12.79               | No       |
|                 | U-NII-2C | 106     | 5530           |                 | 13.5    | 11.97               | No       |
|                 |          | 122     | 5610           |                 | 18.5    | 17.21               | No       |
|                 | U-NII-3  | 155     | 5775           |                 | 12.5    | 10.90               | Yes      |

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| Ant 6(chain0) Receiver off/<br>WLAN 5G+BT Receiver off/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT Receiver on/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT 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               | 19.5    | 18.00               | No       |
|  |          | 40      | 5200           |                 | 19.5    | <b>18.17</b>        | Yes      |
|  |          | 44      | 5220           |                 | 19.5    | 18.11               | No       |
|  |          | 48      | 5240           |                 | 19.5    | 18.05               | No       |
|  | U-NII-2A | 52      | 5260           |                 | 19.5    | 18.15               | No       |
|  |          | 56      | 5280           |                 | 19.5    | 18.08               | No       |
|  |          | 60      | 5300           |                 | 19.5    | 18.07               | No       |
|  |          | 64      | 5320           |                 | 19.5    | <b>18.21</b>        | Yes      |
|  | U-NII-2C | 100     | 5500           |                 | 19.5    | 18.13               | No       |
|  |          | 104     | 5520           |                 | 19.5    | 18.03               | No       |
|  |          | 108     | 5540           |                 | 19.5    | 17.85               | No       |
|  |          | 112     | 5560           |                 | 19.5    | 17.96               | No       |
|  |          | 116     | 5580           |                 | 19.5    | <b>18.29</b>        | Yes      |
|  |          | 120     | 5600           |                 | 19.5    | 18.01               | No       |
|  |          | 124     | 5620           |                 | 19.5    | 18.03               | No       |
|  |          | 128     | 5640           |                 | 19.5    | 18.11               | No       |
|  | U-NII-3  | 132     | 5660           |                 | 19.5    | 18.04               | No       |
|  |          | 136     | 5680           |                 | 19.5    | 18.12               | No       |
|  |          | 140     | 5700           |                 | 19.5    | 18.16               | No       |
|  |          | 149     | 5745           |                 | 13.5    | 11.93               | No       |
| 153  |          | 5765    | 13.5           | 11.87           | No      |                     |          |
| U-NII-3  | 157      | 5785    | 13.5           | 11.96           | No      |                     |          |
|  | 161      | 5805    | 13.5           | 11.91           | No      |                     |          |
|  | 165      | 5825    | 13.5           | 12.12           | No      |                     |          |
|  | 165      | 5825    | 13.5           | 12.12           | 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            | 19.0    | 17.48               | No       |
|  |          | 40      | 5200           |                 | 19.0    | 17.46               | No       |
|  |          | 44      | 5220           |                 | 19.0    | 17.42               | No       |
|  |          | 48      | 5240           |                 | 19.0    | 17.51               | No       |
|  | U-NII-2A | 52      | 5260           |                 | 19.0    | 17.45               | No       |
|  |          | 56      | 5280           |                 | 19.0    | 17.44               | No       |
|  |          | 60      | 5300           |                 | 19.0    | 17.47               | No       |
|  |          | 64      | 5320           |                 | 19.0    | 17.52               | No       |
|  | U-NII-2C | 100     | 5500           |                 | 19.0    | 17.43               | No       |
|  |          | 104     | 5520           |                 | 19.0    | 17.42               | No       |
|  |          | 108     | 5540           |                 | 19.0    | 17.26               | No       |
|  |          | 112     | 5560           |                 | 19.0    | 17.41               | No       |
|  |          | 116     | 5580           |                 | 19.0    | 17.42               | No       |
|  |          | 120     | 5600           |                 | 19.0    | 17.54               | No       |
|  |          | 124     | 5620           |                 | 19.0    | 17.37               | No       |
|  |          | 124     | 5620           |                 | 19.0    | 17.37               | No       |

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|                  |          | 128     | 5640           |                 | 19.0    | 17.53               | No       |
|------------------|----------|---------|----------------|-----------------|---------|---------------------|----------|
|                  |          | 132     | 5660           |                 | 19.0    | 17.63               | No       |
|                  |          | 136     | 5680           |                 | 19.0    | 17.57               | No       |
|                  |          | 140     | 5700           |                 | 19.0    | 17.51               | No       |
|                  | U-NII-3  | 149     | 5745           |                 | 13.5    | 11.77               | No       |
|                  |          | 153     | 5765           |                 | 13.5    | 11.75               | No       |
|                  |          | 157     | 5785           |                 | 13.5    | 11.78               | No       |
|                  |          | 161     | 5805           |                 | 13.5    | 11.85               | No       |
|                  |          | 165     | 5825           |                 | 13.5    | 11.97               | No       |
| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | MCS0            | 16.0    | 14.85               | No       |
|                  |          | 46      | 5230           |                 | 19.0    | 17.94               | No       |
|                  | U-NII-2A | 54      | 5270           |                 | 19.0    | 17.95               | No       |
|                  |          | 62      | 5310           |                 | 15.0    | 13.82               | No       |
|                  | U-NII-2C | 102     | 5510           |                 | 13.5    | 12.39               | No       |
|                  |          | 110     | 5550           |                 | 19.0    | 17.62               | No       |
|                  |          | 118     | 5590           |                 | 19.0    | 17.99               | No       |
|                  |          | 126     | 5630           |                 | 19.0    | 17.86               | No       |
|                  | U-NII-3  | 134     | 5670           |                 | 19.0    | 17.95               | No       |
|                  |          | 151     | 5755           |                 | 13.5    | 11.54               | No       |
|                  |          | 159     | 5795           | 13.5            | 11.52   | No                  |          |
| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>20M  | U-NII-1  | 36      | 5180           | MCS0            | 18.5    | 16.99               | No       |
|                  |          | 40      | 5200           |                 | 18.5    | 16.98               | No       |
|                  |          | 44      | 5220           |                 | 18.5    | 17.01               | No       |
|                  |          | 48      | 5240           |                 | 18.5    | 17.01               | No       |
|                  | U-NII-2A | 52      | 5260           |                 | 18.5    | 17.03               | No       |
|                  |          | 56      | 5280           |                 | 18.5    | 17.01               | No       |
|                  |          | 60      | 5300           |                 | 18.5    | 16.95               | No       |
|                  |          | 64      | 5320           |                 | 18.5    | 17.08               | No       |
|                  | U-NII-2C | 100     | 5500           |                 | 18.5    | 16.94               | No       |
|                  |          | 104     | 5520           |                 | 18.5    | 16.85               | No       |
|                  |          | 108     | 5540           |                 | 18.5    | 16.83               | No       |
|                  |          | 112     | 5560           |                 | 18.5    | 16.83               | No       |
|                  |          | 116     | 5580           |                 | 18.5    | 17.02               | No       |
|                  |          | 120     | 5600           |                 | 18.5    | 17.07               | No       |
|                  |          | 124     | 5620           |                 | 18.5    | 17.15               | No       |
|                  |          | 128     | 5640           |                 | 18.5    | 17.11               | No       |
|                  |          | 132     | 5660           |                 | 18.5    | 17.20               | No       |
|                  |          | 136     | 5680           |                 | 18.5    | 17.15               | No       |
|                  | U-NII-3  | 140     | 5700           |                 | 18.5    | 17.03               | No       |
|                  |          | 149     | 5745           |                 | 13.5    | 11.79               | No       |
|                  |          | 153     | 5765           |                 | 13.5    | 11.73               | No       |
|                  |          | 157     | 5785           |                 | 13.5    | 11.76               | No       |
|                  |          | 161     | 5805           |                 | 13.5    | 11.86               | No       |
| 165              |          | 5825    | 13.5           | 12.01           | No      |                     |          |

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| 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            | 16.0    | 15.02               | No       |
|                 |          | 46      | 5230           |                 | 18.5    | 17.43               | No       |
|                 | U-NII-2A | 54      | 5270           |                 | 18.5    | 17.45               | No       |
|                 |          | 62      | 5310           |                 | 15.0    | 14.06               | No       |
|                 | U-NII-2C | 102     | 5510           |                 | 13.5    | 12.43               | No       |
|                 |          | 110     | 5550           |                 | 18.5    | 17.19               | No       |
|                 |          | 118     | 5590           |                 | 18.5    | 17.52               | No       |
|                 |          | 126     | 5630           |                 | 18.5    | 17.62               | No       |
|                 | U-NII-3  | 134     | 5670           |                 | 18.5    | 17.63               | No       |
|                 |          | 151     | 5755           |                 | 13.5    | 11.82               | No       |
|                 |          | 159     | 5795           |                 | 13.5    | 11.91               | 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            | 14.5    | 13.33               | No       |
|                 | U-NII-2A | 58      | 5290           |                 | 14.0    | 12.69               | No       |
|                 | U-NII-2C | 106     | 5530           |                 | 13.5    | 12.03               | No       |
|                 |          | 122     | 5610           |                 | 18.5    | 17.21               | No       |
|                 | U-NII-3  | 155     | 5775           |                 | 13.5    | 11.96               | Yes      |

| Ant 9(chain1) Receiver on/<br>WLAN 5G+BT 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               | 13.1    | 11.60               | No       |
|  |          | 40      | 5200           |                 | 13.1    | 11.62               | No       |
|  |          | 44      | 5220           |                 | 13.1    | 11.85               | No       |
|  |          | 48      | 5240           |                 | 13.1    | 11.91               | No       |
|  | U-NII-2A | 52      | 5260           |                 | 13.1    | <b>12.15</b>        | Yes      |
|  |          | 56      | 5280           |                 | 13.1    | 12.06               | No       |
|  |          | 60      | 5300           |                 | 13.1    | 12.01               | No       |
|  |          | 64      | 5320           |                 | 13.1    | 11.90               | No       |
|  | U-NII-2C | 100     | 5500           |                 | 13.1    | 12.29               | No       |
|  |          | 104     | 5520           |                 | 13.1    | 12.38               | No       |
|  |          | 108     | 5540           |                 | 13.1    | 12.23               | No       |
|  |          | 112     | 5560           |                 | 13.1    | 12.31               | No       |
|  |          | 116     | 5580           |                 | 13.1    | <b>12.41</b>        | Yes      |
|  |          | 120     | 5600           |                 | 13.1    | 12.32               | No       |
|  |          | 124     | 5620           |                 | 13.1    | 12.23               | No       |
|  |          | 128     | 5640           |                 | 13.1    | 12.26               | No       |
|  |          | 132     | 5660           |                 | 13.1    | 12.25               | No       |
|  |          | 136     | 5680           |                 | 13.1    | 12.21               | No       |
|  | U-NII-3  | 140     | 5700           |                 | 13.1    | 12.40               | No       |
|  |          | 149     | 5745           |                 | 12.5    | 12.44               | No       |
|  |          | 153     | 5765           |                 | 12.5    | 12.38               | No       |
|  |          | 157     | 5785           |                 | 12.5    | 12.47               | No       |

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|  |  |     |      |  |      |       |    |
|--|--|-----|------|--|------|-------|----|
|  |  | 161 | 5805 |  | 12.5 | 12.41 | No |
|  |  | 165 | 5825 |  | 12.5 | 12.38 | No |

| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|------------------|----------|---------|----------------|-----------------|---------|---------------------|----------|
| 802.11n-<br>HT20 | U-NII-1  | 36      | 5180           | MCS0            | 12.6    | 11.03               | No       |
|                  |          | 40      | 5200           |                 | 12.6    | 11.12               | No       |
|                  |          | 44      | 5220           |                 | 12.6    | 11.28               | No       |
|                  |          | 48      | 5240           |                 | 12.6    | 11.32               | No       |
|                  | U-NII-2A | 52      | 5260           |                 | 12.6    | 11.37               | No       |
|                  |          | 56      | 5280           |                 | 12.6    | 11.55               | No       |
|                  |          | 60      | 5300           |                 | 12.6    | 11.40               | No       |
|                  |          | 64      | 5320           |                 | 12.6    | 11.40               | No       |
|                  | U-NII-2C | 100     | 5500           |                 | 12.6    | 11.64               | No       |
|                  |          | 104     | 5520           |                 | 12.6    | 11.77               | No       |
|                  |          | 108     | 5540           |                 | 12.6    | 11.71               | No       |
|                  |          | 112     | 5560           |                 | 12.6    | 11.72               | No       |
|                  |          | 116     | 5580           |                 | 12.6    | 11.79               | No       |
|                  |          | 120     | 5600           |                 | 12.6    | 11.72               | No       |
|                  |          | 124     | 5620           |                 | 12.6    | 11.59               | No       |
|                  |          | 128     | 5640           |                 | 12.6    | 11.67               | No       |
|                  |          | 132     | 5660           |                 | 12.6    | 11.63               | No       |
|                  |          | 136     | 5680           |                 | 12.6    | 11.65               | No       |
|                  | U-NII-3  | 140     | 5700           |                 | 12.6    | 11.83               | No       |
|                  |          | 149     | 5745           |                 | 12.5    | 12.40               | No       |
|                  |          | 153     | 5765           |                 | 12.5    | 12.39               | No       |
|                  |          | 157     | 5785           |                 | 12.5    | 12.39               | No       |
|                  |          | 161     | 5805           |                 | 12.5    | 12.41               | No       |
|                  |          | 165     | 5825           |                 | 12.5    | 12.44               | No       |
| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | MCS0            | 12.6    | 11.52               | No       |
|                  |          | 46      | 5230           |                 | 12.6    | 11.68               | No       |
|                  | U-NII-2A | 54      | 5270           |                 | 12.6    | 11.85               | No       |
|                  |          | 62      | 5310           |                 | 12.6    | 11.74               | No       |
|                  | U-NII-2C | 102     | 5510           |                 | 12.6    | 11.97               | No       |
|                  |          | 110     | 5550           |                 | 12.6    | 12.08               | No       |
|                  |          | 118     | 5590           |                 | 12.6    | 12.07               | No       |
|                  |          | 126     | 5630           |                 | 12.6    | 12.05               | No       |
|                  |          | 134     | 5670           |                 | 12.6    | 12.11               | No       |
|                  | U-NII-3  | 151     | 5755           |                 | 12.5    | 12.16               | No       |
|                  |          | 159     | 5795           |                 | 12.5    | 12.27               | No       |

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| 5GHz            | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|-----------------|----------|---------|----------------|-----------------|---------|---------------------|----------|
| 802.11ac<br>20M | U-NII-1  | 36      | 5180           | MCS0            | 12.1    | 10.54               | No       |
|                 |          | 40      | 5200           |                 | 12.1    | 10.64               | No       |
|                 |          | 44      | 5220           |                 | 12.1    | 10.81               | No       |
|                 |          | 48      | 5240           |                 | 12.1    | 10.94               | No       |
|                 | U-NII-2A | 52      | 5260           |                 | 12.1    | 10.99               | No       |
|                 |          | 56      | 5280           |                 | 12.1    | 11.15               | No       |
|                 |          | 60      | 5300           |                 | 12.1    | 10.92               | No       |
|                 |          | 64      | 5320           |                 | 12.1    | 11.05               | No       |
|                 | U-NII-2C | 100     | 5500           |                 | 12.1    | 11.22               | No       |
|                 |          | 104     | 5520           |                 | 12.1    | 11.37               | No       |
|                 |          | 108     | 5540           |                 | 12.1    | 11.30               | No       |
|                 |          | 112     | 5560           |                 | 12.1    | 11.50               | No       |
|                 |          | 116     | 5580           |                 | 12.1    | 11.35               | No       |
|                 |          | 120     | 5600           |                 | 12.1    | 11.30               | No       |
|                 |          | 124     | 5620           |                 | 12.1    | 11.32               | No       |
|                 |          | 128     | 5640           |                 | 12.1    | 11.29               | No       |
|                 | U-NII-3  | 132     | 5660           |                 | 12.1    | 11.35               | No       |
|                 |          | 136     | 5680           |                 | 12.1    | 11.26               | No       |
|                 |          | 140     | 5700           |                 | 12.1    | 11.45               | No       |
|                 |          | 149     | 5745           |                 | 12.5    | 12.45               | No       |
| 153             |          | 5765    | 12.5           | 12.51           | No      |                     |          |
|                 |          | 157     | 5785           | 12.5            | 12.47   | No                  |          |
|                 |          | 161     | 5805           | 12.5            | 12.40   | No                  |          |
|                 |          | 165     | 5825           | 12.5            | 12.42   | 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            | 12.1    | 11.01               | No       |
|                 |          | 46      | 5230           |                 | 12.1    | 11.31               | No       |
|                 | U-NII-2A | 54      | 5270           |                 | 12.1    | 11.37               | No       |
|                 |          | 62      | 5310           |                 | 12.1    | 11.31               | No       |
|                 | U-NII-2C | 102     | 5510           |                 | 12.1    | 11.74               | No       |
|                 |          | 110     | 5550           |                 | 12.1    | 11.74               | No       |
|                 |          | 118     | 5590           |                 | 12.1    | 11.68               | No       |
|                 |          | 126     | 5630           |                 | 12.1    | 11.66               | No       |
|                 | U-NII-3  | 134     | 5670           |                 | 12.1    | 11.66               | No       |
|                 |          | 151     | 5755           |                 | 12.5    | 12.41               | No       |
|                 |          | 159     | 5795           | 12.5            | 12.51   | 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            | 12.1    | 10.80               | No       |
|                 | U-NII-2A | 58      | 5290           |                 | 12.1    | 11.19               | No       |
|                 | U-NII-2C | 106     | 5530           |                 | 12.1    | 11.46               | No       |
|                 |          | 122     | 5610           |                 | 12.1    | 11.43               | No       |
|                 |          | 138     | 5690           |                 | 12.1    | 11.37               | No       |
|                 | U-NII-3  | 155     | 5775           |                 | 12.5    | <b>12.47</b>        | Yes      |

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| Ant 9(chain1) Receiver off/<br>WLAN 5G+BT 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               | 18.5    | 17.19               | No       |    |
|  |          | 40      | 5200           |                 | 18.5    | 17.24               | No       |    |
|  |          | 44      | 5220           |                 | 18.5    | 17.40               | No       |    |
|  |          | 48      | 5240           |                 | 18.5    | <b>17.70</b>        | Yes      |    |
|  | U-NII-2A | 52      | 5260           |                 | 18.5    | 17.60               | No       |    |
|  |          | 56      | 5280           |                 | 18.5    | 17.58               | No       |    |
|  |          | 60      | 5300           |                 | 18.5    | <b>17.76</b>        | Yes      |    |
|  |          | 64      | 5320           |                 | 18.5    | 17.50               | No       |    |
|  | U-NII-2C | 100     | 5500           |                 | 18.5    | 17.88               | No       |    |
|  |          | 104     | 5520           |                 | 18.5    | 17.91               | No       |    |
|  |          | 108     | 5540           |                 | 18.5    | 17.88               | No       |    |
|  |          | 112     | 5560           |                 | 18.5    | 17.89               | No       |    |
|  |          | 116     | 5580           |                 | 18.5    | 17.83               | No       |    |
|  |          | 120     | 5600           |                 | 18.5    | 17.85               | No       |    |
|  |          | 124     | 5620           |                 | 18.5    | 17.79               | No       |    |
|  |          | 128     | 5640           |                 | 18.5    | 17.82               | No       |    |
|  |          | 132     | 5660           |                 | 18.5    | 17.81               | No       |    |
|  |          | 136     | 5680           |                 | 18.5    | 17.87               | No       |    |
|  | U-NII-3  | 140     | 5700           |                 | 18.5    | <b>17.95</b>        | Yes      |    |
|  |          | 149     | 5745           |                 | 13.5    | 13.45               | No       |    |
|  |          | 153     | 5765           |                 | 13.5    | 13.42               | No       |    |
|  |          | 157     | 5785           |                 | 13.5    | 13.47               | No       |    |
|  |          | 161     | 5805           |                 | 13.5    | 13.44               | No       |    |
|  |          |         | 165            |                 | 5825    | 13.5                | 13.42    | No |
| 5GHz   | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |    |
| 802.11n-<br>HT20                                       | U-NII-1  | 36      | 5180           | MCS0            | 18.0    | 16.56               | No       |    |
|  |          | 40      | 5200           |                 | 18.0    | 16.64               | No       |    |
|  |          | 44      | 5220           |                 | 18.0    | 16.88               | No       |    |
|  |          | 48      | 5240           |                 | 18.0    | 16.88               | No       |    |
|  | U-NII-2A | 52      | 5260           |                 | 18.0    | 17.05               | No       |    |
|  |          | 56      | 5280           |                 | 18.0    | 17.15               | No       |    |
|  |          | 60      | 5300           |                 | 18.0    | 16.99               | No       |    |
|  |          | 64      | 5320           |                 | 18.0    | 17.05               | No       |    |
|  | U-NII-2C | 100     | 5500           |                 | 18.0    | 17.29               | No       |    |
|  |          | 104     | 5520           |                 | 18.0    | 17.34               | No       |    |
|  |          | 108     | 5540           |                 | 18.0    | 17.36               | No       |    |
|  |          | 112     | 5560           |                 | 18.0    | 17.36               | No       |    |
|  |          | 116     | 5580           |                 | 18.0    | 17.34               | No       |    |
|  |          | 120     | 5600           |                 | 18.0    | 17.35               | No       |    |
|  |          | 124     | 5620           |                 | 18.0    | 17.12               | No       |    |
|  |          | 128     | 5640           |                 | 18.0    | 17.20               | No       |    |
|  |          | 132     | 5660           |                 | 18.0    | 17.28               | No       |    |
|  |          | 136     | 5680           |                 | 18.0    | 17.26               | No       |    |
|  |          |         | 140            |                 | 5700    | 18.0                | 17.38    | No |

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|                  |          |         |                |                 |                |                     |          |
|------------------|----------|---------|----------------|-----------------|----------------|---------------------|----------|
|                  | U-NII-3  | 149     | 5745           |                 | 13.5           | 13.46               | No       |
|                  |          | 153     | 5765           |                 | 13.5           | 13.42               | No       |
|                  |          | 157     | 5785           |                 | 13.5           | 13.41               | No       |
|                  |          | 161     | 5805           |                 | 13.5           | 13.47               | No       |
|                  |          | 165     | 5825           |                 | 13.5           | 13.45               | No       |
| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up        | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | MCS0            | 16.0           | 15.17               | No       |
|                  |          | 46      | 5230           |                 | 18.0           | 17.33               | No       |
|                  | U-NII-2A | 54      | 5270           |                 | 18.0           | 17.45               | No       |
|                  |          | 62      | 5310           |                 | 15.0           | 14.42               | No       |
|                  | U-NII-2C | 102     | 5510           |                 | 13.5           | 13.14               | No       |
|                  |          | 110     | 5550           |                 | 18.0           | 17.69               | No       |
|                  |          | 118     | 5590           |                 | 18.0           | 17.75               | No       |
|                  |          | 126     | 5630           |                 | 18.0           | 17.58               | No       |
|                  | U-NII-3  | 134     | 5670           |                 | 18.0           | 17.68               | No       |
|                  |          | 151     | 5755           |                 | 13.5           | 13.15               | No       |
|                  |          | 159     | 5795           |                 | 13.5           | 13.24               | No       |
|                  | 5GHz     | mode    | Channel        |                 | Frequency(MHz) | Data Rate(Mbps)     | Tune up  |
| 802.11ac<br>20M  | U-NII-1  | 36      | 5180           | MCS0            | 17.5           | 16.11               | No       |
|                  |          | 40      | 5200           |                 | 17.5           | 16.21               | No       |
|                  |          | 44      | 5220           |                 | 17.5           | 16.44               | No       |
|                  |          | 48      | 5240           |                 | 17.5           | 16.49               | No       |
|                  | U-NII-2A | 52      | 5260           |                 | 17.5           | 16.60               | No       |
|                  |          | 56      | 5280           |                 | 17.5           | 16.74               | No       |
|                  |          | 60      | 5300           |                 | 17.5           | 16.55               | No       |
|                  |          | 64      | 5320           |                 | 17.5           | 16.65               | No       |
|                  | U-NII-2C | 100     | 5500           |                 | 17.5           | 16.90               | No       |
|                  |          | 104     | 5520           |                 | 17.5           | 16.91               | No       |
|                  |          | 108     | 5540           |                 | 17.5           | 16.90               | No       |
|                  |          | 112     | 5560           |                 | 17.5           | 17.04               | No       |
|                  |          | 116     | 5580           |                 | 17.5           | 17.05               | No       |
|                  |          | 120     | 5600           |                 | 17.5           | 16.86               | No       |
|                  |          | 124     | 5620           |                 | 17.5           | 16.90               | No       |
|                  |          | 128     | 5640           |                 | 17.5           | 16.81               | No       |
|                  |          | 132     | 5660           |                 | 17.5           | 16.93               | No       |
|                  |          | 136     | 5680           |                 | 17.5           | 16.91               | No       |
|                  | U-NII-3  | 140     | 5700           |                 | 17.5           | 17.03               | No       |
|                  |          | 149     | 5745           |                 | 13.5           | 13.45               | No       |
|                  |          | 153     | 5765           |                 | 13.5           | 13.48               | No       |
|                  |          | 157     | 5785           |                 | 13.5           | 13.45               | No       |
|                  |          | 161     | 5805           |                 | 13.5           | 13.46               | No       |
|                  |          | 165     | 5825           |                 | 13.5           | 13.43               | No       |

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| 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            | 16.0    | 15.21               | No       |
|   |          | 46       | 5230           |                 | 17.5    | 16.94               | No       |
|   | U-NII-2A | 54       | 5270           |                 | 17.5    | 17.02               | No       |
|   |          | 62       | 5310           |                 | 15.0    | 14.49               | No       |
|   | U-NII-2C | 102      | 5510           |                 | 13.5    | 13.29               | No       |
|   |          | 110      | 5550           |                 | 17.5    | 17.27               | No       |
|   |          | 118      | 5590           |                 | 17.5    | 17.32               | No       |
|   |          | 126      | 5630           |                 | 17.5    | 17.30               | No       |
|   |          | 134      | 5670           |                 | 17.5    | 17.23               | No       |
|   | U-NII-3  | 151      | 5755           |                 | 13.5    | 13.44               | No       |
| 159   |          | 5795     | 13.5           | 13.48           | 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            | 14.5    | 13.38               | No       |
|   | U-NII-2A | 58       | 5290           |                 | 14.0    | 16.29               | No       |
|   | U-NII-2C | 106      | 5530           |                 | 13.5    | 12.95               | No       |
|   |          | 122      | 5610           |                 | 17.5    | 17.01               | No       |
|   | U-NII-3  | 155      | 5775           |                 | 13.5    | 13.47               | Yes      |
| Ant 9(chain1) WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/<br>WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT 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               | 11.3    | 10.04               | No       |
|   |          | 40       | 5200           |                 | 11.3    | 10.17               | No       |
|   |          | 44       | 5220           |                 | 11.3    | 10.33               | No       |
|   |          | 48       | 5240           |                 | 11.3    | 10.45               | No       |
|   | U-NII-2A | 52       | 5260           |                 | 11.3    | 10.49               | Yes      |
|   |          | 56       | 5280           |                 | 11.3    | 10.47               | No       |
|   |          | 60       | 5300           |                 | 11.3    | 10.48               | No       |
|   |          | 64       | 5320           |                 | 11.3    | 10.44               | No       |
|   |          | U-NII-2C | 100            |                 | 5500    | 11.3                | 10.78    |
|   | 104      |          | 5520           |                 | 11.3    | 10.80               | No       |
|   | 108      |          | 5540           |                 | 11.3    | 10.81               | No       |
|   | 112      |          | 5560           |                 | 11.3    | 10.76               | No       |
|   | 116      |          | 5580           |                 | 11.3    | 10.82               | Yes      |
|   | 120      |          | 5600           |                 | 11.3    | 10.74               | No       |
|   | 124      |          | 5620           |                 | 11.3    | 10.73               | No       |
|   | 128      |          | 5640           |                 | 11.3    | 10.67               | No       |
|   | 132      |          | 5660           |                 | 11.3    | 10.65               | No       |
|   | 136      |          | 5680           |                 | 11.3    | 10.78               | No       |
|   | U-NII-3  | 140      | 5700           |                 | 11.3    | 10.80               | No       |
|   |          | 149      | 5745           |                 | 11.0    | 10.86               | No       |
|   |          | 153      | 5765           |                 | 11.0    | 10.88               | No       |
|   |          | 157      | 5785           |                 | 11.0    | 10.93               | No       |
|   |          | 161      | 5805           |                 | 11.0    | 10.91               | No       |
|   |          | 165      | 5825           |                 | 11.0    | 10.91               | No       |

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| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|------------------|----------|---------|----------------|-----------------|---------|---------------------|----------|
| 802.11n-<br>HT20 | U-NII-1  | 36      | 5180           | MCS0            | 10.8    | 9.47                | No       |
|                  |          | 40      | 5200           |                 | 10.8    | 9.52                | No       |
|                  |          | 44      | 5220           |                 | 10.8    | 9.75                | No       |
|                  |          | 48      | 5240           |                 | 10.8    | 9.75                | No       |
|                  | U-NII-2A | 52      | 5260           |                 | 10.8    | 9.90                | No       |
|                  |          | 56      | 5280           |                 | 10.8    | 9.99                | No       |
|                  |          | 60      | 5300           |                 | 10.8    | 9.90                | No       |
|                  |          | 64      | 5320           |                 | 10.8    | 9.90                | No       |
|                  | U-NII-2C | 100     | 5500           |                 | 10.8    | 10.20               | No       |
|                  |          | 104     | 5520           |                 | 10.8    | 10.26               | No       |
|                  |          | 108     | 5540           |                 | 10.8    | 10.23               | No       |
|                  |          | 112     | 5560           |                 | 10.8    | 10.28               | No       |
|                  |          | 116     | 5580           |                 | 10.8    | 10.20               | No       |
|                  |          | 120     | 5600           |                 | 10.8    | 10.28               | No       |
|                  |          | 124     | 5620           |                 | 10.8    | 10.04               | No       |
|                  |          | 128     | 5640           |                 | 10.8    | 10.14               | No       |
|                  | U-NII-3  | 132     | 5660           |                 | 10.8    | 10.13               | No       |
|                  |          | 136     | 5680           |                 | 10.8    | 10.18               | No       |
|                  |          | 140     | 5700           |                 | 10.8    | 10.24               | No       |
|                  |          | 149     | 5745           |                 | 11.0    | 10.99               | No       |
| 153              |          | 5765    | 11.0           | 10.89           | No      |                     |          |
|                  |          | 157     | 5785           | 11.0            | 10.91   | No                  |          |
|                  |          | 161     | 5805           | 11.0            | 10.95   | No                  |          |
|                  |          | 165     | 5825           | 11.0            | 10.99   | No                  |          |
|                  |          |         |                |                 |         |                     |          |
| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | MCS0            | 10.8    | 9.96                | No       |
|                  |          | 46      | 5230           |                 | 10.8    | 10.21               | No       |
|                  | U-NII-2A | 54      | 5270           |                 | 10.8    | 10.33               | No       |
|                  |          | 62      | 5310           |                 | 10.8    | 10.25               | No       |
|                  | U-NII-2C | 102     | 5510           |                 | 10.8    | 10.53               | No       |
|                  |          | 110     | 5550           |                 | 10.8    | 10.63               | No       |
|                  |          | 118     | 5590           |                 | 10.8    | 10.69               | No       |
|                  |          | 126     | 5630           |                 | 10.8    | 10.42               | No       |
|                  | U-NII-3  | 134     | 5670           |                 | 10.8    | 10.57               | No       |
|                  |          | 151     | 5755           |                 | 11.0    | 10.66               | No       |
|                  |          | 159     | 5795           | 11.0            | 10.75   | No                  |          |

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| 5GHz            | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|-----------------|----------|---------|----------------|-----------------|---------|---------------------|----------|
| 802.11ac<br>20M | U-NII-1  | 36      | 5180           | MCS0            | 10.3    | 9.00                | No       |
|                 |          | 40      | 5200           |                 | 10.3    | 9.07                | No       |
|                 |          | 44      | 5220           |                 | 10.3    | 9.38                | No       |
|                 |          | 48      | 5240           |                 | 10.3    | 9.33                | No       |
|                 | U-NII-2A | 52      | 5260           |                 | 10.3    | 9.53                | No       |
|                 |          | 56      | 5280           |                 | 10.3    | 9.62                | No       |
|                 |          | 60      | 5300           |                 | 10.3    | 9.42                | No       |
|                 |          | 64      | 5320           |                 | 10.3    | 9.50                | No       |
|                 | U-NII-2C | 100     | 5500           |                 | 10.3    | 9.80                | No       |
|                 |          | 104     | 5520           |                 | 10.3    | 9.75                | No       |
|                 |          | 108     | 5540           |                 | 10.3    | 9.80                | No       |
|                 |          | 112     | 5560           |                 | 10.3    | 9.95                | No       |
|                 |          | 116     | 5580           |                 | 10.3    | 9.95                | No       |
|                 |          | 120     | 5600           |                 | 10.3    | 9.77                | No       |
|                 |          | 124     | 5620           |                 | 10.3    | 9.84                | No       |
|                 |          | 128     | 5640           |                 | 10.3    | 9.65                | No       |
|                 | U-NII-3  | 132     | 5660           |                 | 10.3    | 9.81                | No       |
|                 |          | 136     | 5680           |                 | 10.3    | 9.75                | No       |
|                 |          | 140     | 5700           |                 | 10.3    | 9.96                | No       |
|                 |          | 149     | 5745           |                 | 11.0    | 10.99               | No       |
| 153             |          | 5765    | 11.0           | 10.98           | No      |                     |          |
|                 |          | 157     | 5785           | 11.0            | 10.96   | No                  |          |
|                 |          | 161     | 5805           | 11.0            | 10.95   | No                  |          |
|                 |          | 165     | 5825           | 11.0            | 10.99   | 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            | 10.3    | 9.58                | No       |
|                 |          | 46      | 5230           |                 | 10.3    | 9.88                | No       |
|                 | U-NII-2A | 54      | 5270           |                 | 10.3    | 9.86                | No       |
|                 |          | 62      | 5310           |                 | 10.3    | 9.88                | No       |
|                 | U-NII-2C | 102     | 5510           |                 | 10.3    | 10.18               | No       |
|                 |          | 110     | 5550           |                 | 10.3    | 10.13               | No       |
|                 |          | 118     | 5590           |                 | 10.3    | 10.24               | No       |
|                 |          | 126     | 5630           |                 | 10.3    | 10.15               | No       |
|                 | U-NII-3  | 134     | 5670           |                 | 10.3    | 10.11               | No       |
|                 |          | 151     | 5755           |                 | 11.0    | 10.94               | No       |
| 159             |          | 5795    | 11.0           | 10.87           | 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            | 10.3    | 9.31                | No       |
|                 | U-NII-2A | 58      | 5290           |                 | 10.3    | 9.58                | No       |
|                 | U-NII-2C | 106     | 5530           |                 | 10.3    | 9.98                | No       |
|                 |          | 122     | 5610           |                 | 10.3    | 9.90                | No       |
|                 | U-NII-3  | 155     | 5775           |                 | 11.0    | 10.96               | Yes      |

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| Ant 9(chain1) WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/<br>WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT 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               | 17.6    | 16.00               | No       |    |
|  |          | 40      | 5200           |                 | 17.6    | 16.18               | No       |    |
|  |          | 44      | 5220           |                 | 17.6    | 16.36               | No       |    |
|  |          | 48      | 5240           |                 | 17.6    | 16.59               | Yes      |    |
|  | U-NII-2A | 52      | 5260           |                 | 17.6    | 16.48               | No       |    |
|  |          | 56      | 5280           |                 | 17.6    | 16.49               | No       |    |
|  |          | 60      | 5300           |                 | 17.6    | 16.53               | No       |    |
|  |          | 64      | 5320           |                 | 17.6    | 16.48               | No       |    |
|  | U-NII-2C | 100     | 5500           |                 | 17.6    | 16.79               | No       |    |
|  |          | 104     | 5520           |                 | 17.6    | 16.86               | No       |    |
|  |          | 108     | 5540           |                 | 17.6    | 16.83               | No       |    |
|  |          | 112     | 5560           |                 | 17.6    | 16.78               | No       |    |
|  |          | 116     | 5580           |                 | 17.6    | 16.85               | No       |    |
|  |          | 120     | 5600           |                 | 17.6    | 16.74               | No       |    |
|  |          | 124     | 5620           |                 | 17.6    | 16.64               | No       |    |
|  |          | 128     | 5640           |                 | 17.6    | 16.76               | No       |    |
|  | U-NII-3  | 132     | 5660           |                 | 17.6    | 16.72               | No       |    |
|  |          | 136     | 5680           |                 | 17.6    | 16.73               | No       |    |
|  |          | 140     | 5700           |                 | 17.6    | 16.89               | No       |    |
|  |          | 149     | 5745           |                 | 13.5    | 13.45               | No       |    |
| 153  |          | 5765    | 13.5           | 13.42           | No      |                     |          |    |
|  |          | 157     | 5785           | 13.5            | 13.47   | No                  |          |    |
|  |          | 161     | 5805           | 13.5            | 13.44   | No                  |          |    |
|  |          | 165     | 5825           | 13.5            | 13.42   | No                  |          |    |
| 5GHz   | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |    |
| 802.11n-<br>HT20   | U-NII-1  | 36      | 5180           | MCS0            | 17.1    | 15.48               | No       |    |
|  |          | 40      | 5200           |                 | 17.1    | 15.60               | No       |    |
|  |          | 44      | 5220           |                 | 17.1    | 15.83               | No       |    |
|  |          | 48      | 5240           |                 | 17.1    | 15.81               | No       |    |
|  | U-NII-2A | 52      | 5260           |                 | 17.1    | 15.91               | No       |    |
|  |          | 56      | 5280           |                 | 17.1    | 16.03               | No       |    |
|  |          | 60      | 5300           |                 | 17.1    | 15.81               | No       |    |
|  |          | 64      | 5320           |                 | 17.1    | 15.90               | No       |    |
|  | U-NII-2C | 100     | 5500           |                 | 17.1    | 16.14               | No       |    |
|  |          | 104     | 5520           |                 | 17.1    | 16.24               | No       |    |
|  |          | 108     | 5540           |                 | 17.1    | 16.24               | No       |    |
|  |          | 112     | 5560           |                 | 17.1    | 16.17               | No       |    |
|  |          | 116     | 5580           |                 | 17.1    | 16.31               | No       |    |
|  |          | 120     | 5600           |                 | 17.1    | 16.24               | No       |    |
|  |          | 124     | 5620           |                 | 17.1    | 16.02               | No       |    |
|  |          | 128     | 5640           |                 | 17.1    | 16.16               | No       |    |
|  |          |         | 132            |                 | 5660    | 17.1                | 16.18    | No |
|  |          |         | 136            |                 | 5680    | 17.1                | 16.15    | No |

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|                  |                 | 140     | 5700           |                 | 17.1           | 16.30               | No       |                     |          |
|------------------|-----------------|---------|----------------|-----------------|----------------|---------------------|----------|---------------------|----------|
|                  | U-NII-3         | 149     | 5745           |                 | 13.5           | 13.46               | No       |                     |          |
|                  |                 | 153     | 5765           |                 | 13.5           | 13.42               | No       |                     |          |
|                  |                 | 157     | 5785           |                 | 13.5           | 13.41               | No       |                     |          |
|                  |                 | 161     | 5805           |                 | 13.5           | 13.47               | No       |                     |          |
|                  |                 | 165     | 5825           |                 | 13.5           | 13.45               | No       |                     |          |
| 5GHz             | mode            | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up        | Average Power (dBm) | SAR Test |                     |          |
| 802.11n-<br>HT40 | U-NII-1         | 38      | 5190           | MCS0            | 16.0           | 14.95               | No       |                     |          |
|                  |                 | 46      | 5230           |                 | 17.1           | 16.18               | No       |                     |          |
|                  | U-NII-2A        | 54      | 5270           |                 | 17.1           | 16.35               | No       |                     |          |
|                  |                 | 62      | 5310           |                 | 15.0           | 14.11               | No       |                     |          |
|                  | U-NII-2C        | 102     | 5510           |                 | 13.5           | 12.87               | No       |                     |          |
|                  |                 | 110     | 5550           |                 | 17.1           | 16.64               | No       |                     |          |
|                  |                 | 118     | 5590           |                 | 17.1           | 16.62               | No       |                     |          |
|                  |                 | 126     | 5630           |                 | 17.1           | 16.48               | No       |                     |          |
|                  |                 | 134     | 5670           |                 | 17.1           | 16.60               | No       |                     |          |
|                  | U-NII-3         | 151     | 5755           |                 | 13.5           | 13.15               | No       |                     |          |
|                  |                 | 159     | 5795           |                 | 13.5           | 13.24               | No       |                     |          |
|                  | 5GHz            | mode    | Channel        |                 | Frequency(MHz) | Data Rate(Mbps)     | Tune up  | Average Power (dBm) | SAR Test |
|                  | 802.11ac<br>20M | U-NII-1 | 36             |                 | 5180           | MCS0                | 16.6     | 15.02               | No       |
| 40               |                 |         | 5200           | 16.6            | 15.16          |                     | No       |                     |          |
| 44               |                 |         | 5220           | 16.6            | 15.35          |                     | No       |                     |          |
| 48               |                 |         | 5240           | 16.6            | 15.47          |                     | No       |                     |          |
| U-NII-2A         |                 | 52      | 5260           | 16.6            | 15.52          |                     | No       |                     |          |
|                  |                 | 56      | 5280           | 16.6            | 15.55          |                     | No       |                     |          |
|                  |                 | 60      | 5300           | 16.6            | 15.44          |                     | No       |                     |          |
|                  |                 | 64      | 5320           | 16.6            | 15.54          |                     | No       |                     |          |
| U-NII-2C         |                 | 100     | 5500           | 16.6            | 15.76          |                     | No       |                     |          |
|                  |                 | 104     | 5520           | 16.6            | 15.82          |                     | No       |                     |          |
|                  |                 | 108     | 5540           | 16.6            | 15.83          |                     | No       |                     |          |
|                  |                 | 112     | 5560           | 16.6            | 15.97          |                     | No       |                     |          |
|                  |                 | 116     | 5580           | 16.6            | 15.90          |                     | No       |                     |          |
|                  |                 | 120     | 5600           | 16.6            | 15.76          |                     | No       |                     |          |
|                  |                 | 124     | 5620           | 16.6            | 15.85          |                     | No       |                     |          |
|                  |                 | 128     | 5640           | 16.6            | 15.72          |                     | No       |                     |          |
|                  |                 | 132     | 5660           | 16.6            | 15.85          |                     | No       |                     |          |
| U-NII-3          |                 | 136     | 5680           | 16.6            | 15.77          |                     | No       |                     |          |
|                  |                 | 140     | 5700           | 16.6            | 15.98          |                     | No       |                     |          |
|                  |                 | 149     | 5745           | 13.5            | 13.45          |                     | No       |                     |          |
|                  |                 | 153     | 5765           | 13.5            | 13.48          |                     | No       |                     |          |
|                  |                 | 157     | 5785           | 13.5            | 13.45          |                     | No       |                     |          |
|                  |                 | 161     | 5805           | 13.5            | 13.46          |                     | No       |                     |          |
|                  |                 | 165     | 5825           | 13.5            | 13.43          |                     | No       |                     |          |

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| 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            | 16.0    | 14.92               | No       |
|                 |          | 46      | 5230           |                 | 16.6    | 15.82               | No       |
|                 | U-NII-2A | 54      | 5270           |                 | 16.6    | 15.94               | No       |
|                 |          | 62      | 5310           |                 | 15.0    | 14.22               | No       |
|                 | U-NII-2C | 102     | 5510           |                 | 13.5    | 13.01               | No       |
|                 |          | 110     | 5550           |                 | 16.6    | 16.20               | No       |
|                 |          | 118     | 5590           |                 | 16.6    | 16.18               | No       |
|                 |          | 126     | 5630           |                 | 16.6    | 16.16               | No       |
|                 |          | 134     | 5670           |                 | 16.6    | 16.20               | No       |
|                 | U-NII-3  | 151     | 5755           |                 | 13.5    | 13.44               | No       |
| 159             |          | 5795    | 13.5           | 13.48           | 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            | 14.5    | 13.20               | No       |
|                 | U-NII-2A | 58      | 5290           |                 | 14.0    | 13.04               | No       |
|                 | U-NII-2C | 106     | 5530           |                 | 13.5    | 12.87               | No       |
|                 |          | 122     | 5610           |                 | 16.6    | 15.89               | No       |
|                 | U-NII-3  | 155     | 5775           |                 | 13.5    | 13.47               | No       |

| Ant 9(chain1) WLAN 2.4G(Chain0)+WLAN 5G(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               | 14.0    | 12.61               | No       |
|   |          | 40      | 5200           |                 | 14.0    | 12.56               | No       |
|   |          | 44      | 5220           |                 | 14.0    | 12.80               | No       |
|   |          | 48      | 5240           |                 | 14.0    | 12.89               | No       |
|   | U-NII-2A | 52      | 5260           |                 | 14.0    | 13.03               | No       |
|   |          | 56      | 5280           |                 | 14.0    | 13.09               | No       |
|   |          | 60      | 5300           |                 | 14.0    | 13.02               | No       |
|   |          | 64      | 5320           |                 | 14.0    | 12.84               | No       |
|   |          | 100     | 5500           |                 | 14.0    | 13.28               | No       |
|   | U-NII-2C | 104     | 5520           |                 | 14.0    | 13.35               | No       |
|   |          | 108     | 5540           |                 | 14.0    | 13.22               | No       |
|   |          | 112     | 5560           |                 | 14.0    | 13.25               | No       |
|   |          | 116     | 5580           |                 | 14.0    | 13.44               | No       |
|   |          | 120     | 5600           |                 | 14.0    | 13.26               | No       |
|   |          | 124     | 5620           |                 | 14.0    | 13.27               | No       |
|   |          | 128     | 5640           |                 | 14.0    | 13.20               | No       |
|   |          | 132     | 5660           |                 | 14.0    | 13.20               | No       |
|   |          | 136     | 5680           |                 | 14.0    | 13.19               | No       |
|   |          | 140     | 5700           |                 | 14.0    | 13.39               | No       |
|   | U-NII-3  | 149     | 5745           |                 | 12.5    | 12.44               | No       |
|   |          | 153     | 5765           |                 | 12.5    | 12.38               | No       |
|   |          | 157     | 5785           |                 | 12.5    | 12.47               | No       |
|   |          | 161     | 5805           |                 | 12.5    | 12.41               | No       |
|   |          | 165     | 5825           |                 | 12.5    | 12.38               | No       |

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| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|------------------|----------|---------|----------------|-----------------|---------|---------------------|----------|
| 802.11n-<br>HT20 | U-NII-1  | 36      | 5180           | MCS0            | 13.5    | 12.02               | No       |
|                  |          | 40      | 5200           |                 | 13.5    | 12.09               | No       |
|                  |          | 44      | 5220           |                 | 13.5    | 12.23               | No       |
|                  |          | 48      | 5240           |                 | 13.5    | 12.34               | No       |
|                  | U-NII-2A | 52      | 5260           |                 | 13.5    | 12.33               | No       |
|                  |          | 56      | 5280           |                 | 13.5    | 12.51               | No       |
|                  |          | 60      | 5300           |                 | 13.5    | 12.36               | No       |
|                  |          | 64      | 5320           |                 | 13.5    | 12.43               | No       |
|                  | U-NII-2C | 100     | 5500           |                 | 13.5    | 12.64               | No       |
|                  |          | 104     | 5520           |                 | 13.5    | 12.74               | No       |
|                  |          | 108     | 5540           |                 | 13.5    | 12.67               | No       |
|                  |          | 112     | 5560           |                 | 13.5    | 12.69               | No       |
|                  |          | 116     | 5580           |                 | 13.5    | 12.79               | No       |
|                  |          | 120     | 5600           |                 | 13.5    | 12.74               | No       |
|                  |          | 124     | 5620           |                 | 13.5    | 12.61               | No       |
|                  |          | 128     | 5640           |                 | 13.5    | 12.67               | No       |
|                  | U-NII-3  | 132     | 5660           |                 | 13.5    | 12.66               | No       |
|                  |          | 136     | 5680           |                 | 13.5    | 12.69               | No       |
|                  |          | 140     | 5700           |                 | 13.5    | 12.80               | No       |
|                  |          | 149     | 5745           |                 | 12.5    | 12.40               | No       |
| 153              |          | 5765    | 12.5           | 12.39           | No      |                     |          |
| 157              |          | 5785    | 12.5           | 12.39           | No      |                     |          |
| 161              |          | 5805    | 12.5           | 12.41           | No      |                     |          |
| 165              |          | 5825    | 12.5           | 12.44           | No      |                     |          |
| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | MCS0            | 13.5    | 12.47               | No       |
|                  |          | 46      | 5230           |                 | 13.5    | 12.70               | No       |
|                  | U-NII-2A | 54      | 5270           |                 | 13.5    | 12.84               | No       |
|                  |          | 62      | 5310           |                 | 13.5    | 12.70               | No       |
|                  | U-NII-2C | 102     | 5510           |                 | 13.5    | 12.96               | No       |
|                  |          | 110     | 5550           |                 | 13.5    | 13.07               | No       |
|                  |          | 118     | 5590           |                 | 13.5    | 13.05               | No       |
|                  |          | 126     | 5630           |                 | 13.5    | 13.05               | No       |
|                  | U-NII-3  | 134     | 5670           |                 | 13.5    | 13.06               | No       |
|                  |          | 151     | 5755           |                 | 12.5    | 12.16               | No       |
|                  |          | 159     | 5795           |                 | 12.5    | 12.27               | No       |

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| 5GHz            | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|-----------------|----------|---------|----------------|-----------------|---------|---------------------|----------|
| 802.11ac<br>20M | U-NII-1  | 36      | 5180           | MCS0            | 13.0    | 11.56               | No       |
|                 |          | 40      | 5200           |                 | 13.0    | 11.67               | No       |
|                 |          | 44      | 5220           |                 | 13.0    | 11.76               | No       |
|                 |          | 48      | 5240           |                 | 13.0    | 11.96               | No       |
|                 | U-NII-2A | 52      | 5260           |                 | 13.0    | 11.95               | No       |
|                 |          | 56      | 5280           |                 | 13.0    | 12.14               | No       |
|                 |          | 60      | 5300           |                 | 13.0    | 11.89               | No       |
|                 |          | 64      | 5320           |                 | 13.0    | 12.03               | No       |
|                 | U-NII-2C | 100     | 5500           |                 | 13.0    | 12.19               | No       |
|                 |          | 104     | 5520           |                 | 13.0    | 12.40               | No       |
|                 |          | 108     | 5540           |                 | 13.0    | 12.32               | No       |
|                 |          | 112     | 5560           |                 | 13.0    | 12.51               | No       |
|                 |          | 116     | 5580           |                 | 13.0    | 12.30               | No       |
|                 |          | 120     | 5600           |                 | 13.0    | 12.25               | No       |
|                 |          | 124     | 5620           |                 | 13.0    | 12.32               | No       |
|                 |          | 128     | 5640           |                 | 13.0    | 12.32               | No       |
|                 | U-NII-3  | 132     | 5660           |                 | 13.0    | 12.32               | No       |
|                 |          | 136     | 5680           |                 | 13.0    | 12.21               | No       |
|                 |          | 140     | 5700           |                 | 13.0    | 12.47               | No       |
|                 |          | 149     | 5745           |                 | 12.5    | 12.45               | No       |
| 153             |          | 5765    | 12.5           | 12.51           | No      |                     |          |
| 157             |          | 5785    | 12.5           | 12.47           | No      |                     |          |
| 161             |          | 5805    | 12.5           | 12.40           | No      |                     |          |
| 165             | 5825     | 12.5    | 12.42          | 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            | 13.0    | 11.97               | No       |
|                 |          | 46      | 5230           |                 | 13.0    | 12.29               | No       |
|                 | U-NII-2A | 54      | 5270           |                 | 13.0    | 12.41               | No       |
|                 |          | 62      | 5310           |                 | 13.0    | 12.27               | No       |
|                 | U-NII-2C | 102     | 5510           |                 | 13.0    | 12.73               | No       |
|                 |          | 110     | 5550           |                 | 13.0    | 12.77               | No       |
|                 |          | 118     | 5590           |                 | 13.0    | 12.64               | No       |
|                 |          | 126     | 5630           |                 | 13.0    | 12.63               | No       |
|                 | U-NII-3  | 134     | 5670           |                 | 13.0    | 12.67               | No       |
|                 |          | 151     | 5755           |                 | 12.5    | 12.41               | No       |
| 159             |          | 5795    | 12.5           | 12.51           | 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            | 13.0    | 11.80               | No       |
|                 | U-NII-2A | 58      | 5290           |                 | 13.0    | 12.13               | No       |
|                 | U-NII-2C | 106     | 5530           |                 | 13.0    | 12.49               | No       |
|                 |          | 122     | 5610           |                 | 13.0    | 12.44               | No       |
|                 | U-NII-3  | 138     | 5690           |                 | 13.0    | 12.32               | No       |
|                 |          | 155     | 5775           |                 | 12.5    | 12.47               | No       |

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| Ant 9(chain1) WLAN 2.4G(Chain0)+WLAN 5G(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               | 18.5    | 17.09               | No       |
|  |          | 40      | 5200           |                 | 18.5    | 17.10               | No       |
|  |          | 44      | 5220           |                 | 18.5    | 17.35               | No       |
|  |          | 48      | 5240           |                 | 18.5    | 17.39               | No       |
|  | U-NII-2A | 52      | 5260           |                 | 18.5    | 17.50               | No       |
|  |          | 56      | 5280           |                 | 18.5    | 17.47               | No       |
|  |          | 60      | 5300           |                 | 18.5    | 17.56               | No       |
|  |          | 64      | 5320           |                 | 18.5    | 17.45               | No       |
|  | U-NII-2C | 100     | 5500           |                 | 18.5    | 17.75               | No       |
|  |          | 104     | 5520           |                 | 18.5    | 17.81               | No       |
|  |          | 108     | 5540           |                 | 18.5    | 17.78               | No       |
|  |          | 112     | 5560           |                 | 18.5    | 17.87               | No       |
|  |          | 116     | 5580           |                 | 18.5    | 17.80               | No       |
|  |          | 120     | 5600           |                 | 18.5    | 17.73               | No       |
|  |          | 124     | 5620           |                 | 18.5    | 17.67               | No       |
|  |          | 128     | 5640           |                 | 18.5    | 17.76               | No       |
|  | U-NII-3  | 132     | 5660           |                 | 18.5    | 17.79               | No       |
|  |          | 136     | 5680           |                 | 18.5    | 17.77               | No       |
|  |          | 140     | 5700           |                 | 18.5    | 17.92               | No       |
|  |          | 149     | 5745           |                 | 13.5    | 13.45               | No       |
| 153  |          | 5765    | 13.5           | 13.42           | No      |                     |          |
|  |          | 157     | 5785           | 13.5            | 13.47   | No                  |          |
|  |          | 161     | 5805           | 13.5            | 13.44   | No                  |          |
|  |          | 165     | 5825           | 13.5            | 13.42   | 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            | 18.0    | 16.53               | No       |
|  |          | 40      | 5200           |                 | 18.0    | 16.58               | No       |
|  |          | 44      | 5220           |                 | 18.0    | 16.87               | No       |
|  |          | 48      | 5240           |                 | 18.0    | 16.85               | No       |
|  | U-NII-2A | 52      | 5260           |                 | 18.0    | 16.87               | No       |
|  |          | 56      | 5280           |                 | 18.0    | 17.06               | No       |
|  |          | 60      | 5300           |                 | 18.0    | 16.83               | No       |
|  |          | 64      | 5320           |                 | 18.0    | 16.97               | No       |
|  | U-NII-2C | 100     | 5500           |                 | 18.0    | 17.23               | No       |
|  |          | 104     | 5520           |                 | 18.0    | 17.24               | No       |
|  |          | 108     | 5540           |                 | 18.0    | 17.30               | No       |
|  |          | 112     | 5560           |                 | 18.0    | 17.27               | No       |
|  |          | 116     | 5580           |                 | 18.0    | 17.26               | No       |
|  |          | 120     | 5600           |                 | 18.0    | 17.19               | No       |
|  |          | 124     | 5620           |                 | 18.0    | 17.05               | No       |
|  |          | 128     | 5640           |                 | 18.0    | 17.13               | No       |
|  |          | 132     | 5660           |                 | 18.0    | 17.10               | No       |
|  |          | 136     | 5680           |                 | 18.0    | 17.15               | No       |
|  |          | 140     | 5700           |                 | 18.0    | 17.32               | No       |

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|                  | U-NII-3         | 149     | 5745           |                 | 13.5           | 13.46               | No       |                     |          |
|------------------|-----------------|---------|----------------|-----------------|----------------|---------------------|----------|---------------------|----------|
|                  |                 | 153     | 5765           |                 | 13.5           | 13.42               | No       |                     |          |
|                  |                 | 157     | 5785           |                 | 13.5           | 13.41               | No       |                     |          |
|                  |                 | 161     | 5805           |                 | 13.5           | 13.47               | No       |                     |          |
|                  |                 | 165     | 5825           |                 | 13.5           | 13.45               | No       |                     |          |
| 5GHz             | mode            | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up        | Average Power (dBm) | SAR Test |                     |          |
| 802.11n-<br>HT40 | U-NII-1         | 38      | 5190           | MCS0            | 16.0           | 15.01               | No       |                     |          |
|                  |                 | 46      | 5230           |                 | 18.0           | 17.23               | No       |                     |          |
|                  | U-NII-2A        | 54      | 5270           |                 | 18.0           | 17.30               | No       |                     |          |
|                  |                 | 62      | 5310           |                 | 15.0           | 14.36               | No       |                     |          |
|                  | U-NII-2C        | 102     | 5510           |                 | 13.5           | 12.99               | No       |                     |          |
|                  |                 | 110     | 5550           |                 | 18.0           | 17.59               | No       |                     |          |
|                  |                 | 118     | 5590           |                 | 18.0           | 17.66               | No       |                     |          |
|                  |                 | 126     | 5630           |                 | 18.0           | 17.49               | No       |                     |          |
|                  |                 | 134     | 5670           |                 | 18.0           | 17.61               | No       |                     |          |
|                  | U-NII-3         | 151     | 5755           |                 | 13.5           | 13.15               | No       |                     |          |
|                  |                 | 159     | 5795           |                 | 13.5           | 13.24               | No       |                     |          |
|                  | 5GHz            | mode    | Channel        |                 | Frequency(MHz) | Data Rate(Mbps)     | Tune up  | Average Power (dBm) | SAR Test |
|                  | 802.11ac<br>20M | U-NII-1 | 36             |                 | 5180           | MCS0                | 17.5     | 16.08               | No       |
|                  |                 |         | 40             |                 | 5200           |                     | 17.5     | 16.13               | No       |
| 44               |                 |         | 5220           | 17.5            | 16.31          |                     | No       |                     |          |
| 48               |                 |         | 5240           | 17.5            | 16.47          |                     | No       |                     |          |
| U-NII-2A         |                 | 52      | 5260           | 17.5            | 16.54          |                     | No       |                     |          |
|                  |                 | 56      | 5280           | 17.5            | 16.64          |                     | No       |                     |          |
|                  |                 | 60      | 5300           | 17.5            | 16.46          |                     | No       |                     |          |
|                  |                 | 64      | 5320           | 17.5            | 16.56          |                     | No       |                     |          |
| U-NII-2C         |                 | 100     | 5500           | 17.5            | 16.73          |                     | No       |                     |          |
|                  |                 | 104     | 5520           | 17.5            | 16.88          |                     | No       |                     |          |
|                  |                 | 108     | 5540           | 17.5            | 16.83          |                     | No       |                     |          |
|                  |                 | 112     | 5560           | 17.5            | 17.01          |                     | No       |                     |          |
|                  |                 | 116     | 5580           | 17.5            | 16.88          |                     | No       |                     |          |
|                  |                 | 120     | 5600           | 17.5            | 16.73          |                     | No       |                     |          |
|                  |                 | 124     | 5620           | 17.5            | 16.82          |                     | No       |                     |          |
|                  |                 | 128     | 5640           | 17.5            | 16.74          |                     | No       |                     |          |
| U-NII-3          |                 | 132     | 5660           | 17.5            | 16.81          |                     | No       |                     |          |
|                  |                 | 136     | 5680           | 17.5            | 16.77          |                     | No       |                     |          |
|                  |                 | 140     | 5700           | 17.5            | 16.96          |                     | No       |                     |          |
|                  |                 | 149     | 5745           | 13.5            | 13.45          |                     | No       |                     |          |
|                  |                 | 153     | 5765           | 13.5            | 13.48          |                     | No       |                     |          |
|                  |                 | 157     | 5785           | 13.5            | 13.45          |                     | No       |                     |          |
|                  |                 | 161     | 5805           | 13.5            | 13.46          |                     | No       |                     |          |
|                  |                 | 165     | 5825           | 13.5            | 13.43          |                     | No       |                     |          |

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| 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            | 16.0           | 15.02               | No       |
|                 |          | 46      | 5230           |                 | 17.5           | 16.84               | No       |
|                 | U-NII-2A | 54      | 5270           |                 | 17.5           | 16.94               | No       |
|                 |          | 62      | 5310           |                 | 15.0           | 14.29               | No       |
|                 | U-NII-2C | 102     | 5510           |                 | 13.5           | 13.11               | No       |
|                 |          | 110     | 5550           |                 | 17.5           | 17.18               | No       |
|                 |          | 118     | 5590           |                 | 17.5           | 17.26               | No       |
|                 |          | 126     | 5630           |                 | 17.5           | 17.18               | No       |
|                 |          | 134     | 5670           |                 | 17.5           | 17.24               | No       |
|                 | U-NII-3  | 151     | 5755           |                 | 13.5           | 13.44               | No       |
|                 |          | 159     | 5795           |                 | 13.5           | 13.48               | No       |
|                 | 5GHz     | mode    | Channel        |                 | Frequency(MHz) | Data Rate(Mbps)     | Tune up  |
| 802.11ac<br>80M | U-NII-1  | 42      | 5210           | MCS0            | 14.5           | 13.22               | No       |
|                 | U-NII-2A | 58      | 5290           |                 | 14.0           | 13.12               | No       |
|                 | U-NII-2C | 106     | 5530           |                 | 13.5           | 12.93               | No       |
|                 |          | 122     | 5610           |                 | 17.5           | 16.86               | No       |
|                 | U-NII-3  | 155     | 5775           |                 | 13.5           | 13.47               | No       |

| MIMO Receiver on/<br>WLAN 5G+BT 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               | 16.1    | 14.55               | No       |
|   |          | 40      | 5200           |                 | 16.1    | 14.64               | No       |
|   |          | 44      | 5220           |                 | 16.1    | 14.75               | No       |
|   |          | 48      | 5240           |                 | 16.1    | 14.72               | No       |
|   | U-NII-2A | 52      | 5260           |                 | 16.1    | <b>14.97</b>        | Yes      |
|   |          | 56      | 5280           |                 | 16.1    | 14.82               | No       |
|   |          | 60      | 5300           |                 | 16.1    | 14.78               | No       |
|   |          | 64      | 5320           |                 | 16.1    | 14.81               | No       |
|   |          | 100     | 5500           |                 | 16.1    | 14.97               | No       |
|   |          | 104     | 5520           |                 | 16.1    | 14.96               | No       |
|   | U-NII-2C | 108     | 5540           |                 | 16.1    | 14.84               | No       |
|   |          | 112     | 5560           |                 | 16.1    | 14.93               | No       |
|   |          | 116     | 5580           |                 | 16.1    | <b>15.11</b>        | Yes      |
|   |          | 120     | 5600           |                 | 16.1    | 14.93               | No       |
|   |          | 124     | 5620           |                 | 16.1    | 14.90               | No       |
|   |          | 128     | 5640           |                 | 16.1    | 14.98               | No       |
|   |          | 132     | 5660           |                 | 16.1    | 14.90               | No       |
|   |          | 136     | 5680           |                 | 16.1    | 14.92               | No       |
|   |          | 140     | 5700           |                 | 16.1    | 15.06               | No       |
|   |          | U-NII-3 | 149            |                 | 5745    | 15.5                | 14.75    |
|   | 153      |         | 5765           |                 | 15.5    | 14.71               | No       |
|   | 157      |         | 5785           |                 | 15.5    | 14.80               | No       |
|   | 161      |         | 5805           |                 | 15.5    | 14.75               | No       |
|   | 165      |         | 5825           |                 | 15.5    | 14.78               | No       |

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| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|------------------|----------|---------|----------------|-----------------|---------|---------------------|----------|
| 802.11n-<br>HT20 | U-NII-1  | 36      | 5180           | MCS0            | 15.6    | 13.99               | No       |
|                  |          | 40      | 5200           |                 | 15.6    | 14.06               | No       |
|                  |          | 44      | 5220           |                 | 15.6    | 14.11               | No       |
|                  |          | 48      | 5240           |                 | 15.6    | 14.16               | No       |
|                  | U-NII-2A | 52      | 5260           |                 | 15.6    | 14.16               | No       |
|                  |          | 56      | 5280           |                 | 15.6    | 14.26               | No       |
|                  |          | 60      | 5300           |                 | 15.6    | 14.20               | No       |
|                  |          | 64      | 5320           |                 | 15.6    | 14.24               | No       |
|                  | U-NII-2C | 100     | 5500           |                 | 15.6    | 14.29               | No       |
|                  |          | 104     | 5520           |                 | 15.6    | 14.36               | No       |
|                  |          | 108     | 5540           |                 | 15.6    | 14.25               | No       |
|                  |          | 112     | 5560           |                 | 15.6    | 14.33               | No       |
|                  |          | 116     | 5580           |                 | 15.6    | 14.40               | No       |
|                  |          | 120     | 5600           |                 | 15.6    | 14.40               | No       |
|                  |          | 124     | 5620           |                 | 15.6    | 14.24               | No       |
|                  |          | 128     | 5640           |                 | 15.6    | 14.36               | No       |
|                  | U-NII-3  | 132     | 5660           |                 | 15.6    | 14.38               | No       |
|                  |          | 136     | 5680           |                 | 15.6    | 14.39               | No       |
|                  |          | 140     | 5700           |                 | 15.6    | 14.45               | No       |
|                  |          | 149     | 5745           |                 | 15.5    | 14.66               | No       |
| 153              |          | 5765    | 15.5           | 14.65           | No      |                     |          |
| 157              |          | 5785    | 15.5           | 14.65           | No      |                     |          |
| 161              |          | 5805    | 15.5           | 14.72           | No      |                     |          |
| 165              | 5825     | 15.5    | 14.79          | No              |         |                     |          |
| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | MCS0            | 15.6    | 14.5                | No       |
|                  |          | 46      | 5230           |                 | 15.6    | 14.58               | No       |
|                  | U-NII-2A | 54      | 5270           |                 | 15.6    | 14.64               | No       |
|                  |          | 62      | 5310           |                 | 15.6    | 14.57               | No       |
|                  | U-NII-2C | 102     | 5510           |                 | 15.6    | 14.66               | No       |
|                  |          | 110     | 5550           |                 | 15.6    | 14.64               | No       |
|                  |          | 118     | 5590           |                 | 15.6    | 14.81               | No       |
|                  |          | 126     | 5630           |                 | 15.6    | 14.71               | No       |
|                  | U-NII-3  | 134     | 5670           |                 | 15.6    | 14.79               | No       |
|                  |          | 151     | 5755           |                 | 15.5    | 14.41               | No       |
| 159              | 5795     | 15.5    | 14.51          | No              |         |                     |          |
| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>20M  | U-NII-1  | 36      | 5180           | MCS0            | 15.1    | 13.54               | No       |
|                  |          | 40      | 5200           |                 | 15.1    | 13.58               | No       |
|                  |          | 44      | 5220           |                 | 15.1    | 13.69               | No       |
|                  |          | 48      | 5240           |                 | 15.1    | 13.72               | No       |
|                  | U-NII-2A | 52      | 5260           |                 | 15.1    | 13.76               | No       |
|                  |          | 56      | 5280           |                 | 15.1    | 13.82               | No       |
|                  |          | 60      | 5300           |                 | 15.1    | 13.71               | No       |
|                  |          | 64      | 5320           |                 | 15.1    | 13.83               | No       |

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|                 | U-NII-2C | 100     | 5500           | MCS0            | 15.1           | 13.87               | No       |                     |
|-----------------|----------|---------|----------------|-----------------|----------------|---------------------|----------|---------------------|
|                 |          | 104     | 5520           |                 | 15.1           | 13.89               | No       |                     |
|                 |          | 108     | 5540           |                 | 15.1           | 13.85               | No       |                     |
|                 |          | 112     | 5560           |                 | 15.1           | 13.98               | No       |                     |
|                 |          | 116     | 5580           |                 | 15.1           | 13.96               | No       |                     |
|                 |          | 120     | 5600           |                 | 15.1           | 13.97               | No       |                     |
|                 |          | 124     | 5620           |                 | 15.1           | 13.99               | No       |                     |
|                 |          | 128     | 5640           |                 | 15.1           | 13.98               | No       |                     |
|                 |          | 132     | 5660           |                 | 15.1           | 14.03               | No       |                     |
|                 |          | 136     | 5680           |                 | 15.1           | 13.99               | No       |                     |
|                 | U-NII-3  | 140     | 5700           |                 | 15.1           | 14.00               | No       |                     |
|                 |          | 149     | 5745           |                 | 15.5           | 14.72               | No       |                     |
|                 |          | 153     | 5765           |                 | 15.5           | 14.73               | No       |                     |
|                 |          | 157     | 5785           |                 | 15.5           | 14.70               | No       |                     |
|                 |          | 161     | 5805           |                 | 15.5           | 14.72               | No       |                     |
|                 |          |         | 165            |                 | 5825           | 15.5                | 14.77    | No                  |
|                 | 5GHz     | mode    | Channel        |                 | Frequency(MHz) | Data Rate(Mbps)     | Tune up  | Average Power (dBm) |
| 802.11ac<br>40M | U-NII-1  | 38      | 5190           | MCS0            | 15.1           | 13.96               | No       |                     |
|                 |          | 46      | 5230           |                 | 15.1           | 14.13               | No       |                     |
|                 | U-NII-2A | 54      | 5270           |                 | 15.1           | 14.17               | No       |                     |
|                 |          | 62      | 5310           |                 | 15.1           | 14.15               | No       |                     |
|                 | U-NII-2C | 102     | 5510           |                 | 15.1           | 14.32               | No       |                     |
|                 |          | 110     | 5550           |                 | 15.1           | 14.27               | No       |                     |
|                 |          | 118     | 5590           |                 | 15.1           | 14.34               | No       |                     |
|                 |          | 126     | 5630           |                 | 15.1           | 14.41               | No       |                     |
|                 | U-NII-3  | 134     | 5670           |                 | 15.1           | 14.42               | No       |                     |
|                 |          | 151     | 5755           |                 | 15.5           | 14.68               | No       |                     |
| 159             |          | 5795    | 15.5           | 14.78           | 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            | 15.1           | 13.77               | No       |                     |
|                 | U-NII-2A | 58      | 5290           |                 | 15.1           | 13.95               | No       |                     |
|                 | U-NII-2C | 106     | 5530           |                 | 15.1           | 13.97               | No       |                     |
|                 |          | 122     | 5610           |                 | 15.1           | 14.09               | No       |                     |
|                 | U-NII-3  | 155     | 5775           |                 | 15.5           | 14.77               | Yes      |                     |

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| MIMO Receiver off/<br>WLAN 5G+BT 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               | 21.5    | 20.12               | No       |    |
|   |          | 40      | 5200           |                 | 21.5    | 20.24               | No       |    |
|   |          | 44      | 5220           |                 | 21.5    | 20.31               | No       |    |
|   |          | 48      | 5240           |                 | 21.5    | <b>20.42</b>        | Yes      |    |
|   | U-NII-2A | 52      | 5260           |                 | 21.5    | 20.41               | No       |    |
|   |          | 56      | 5280           |                 | 21.5    | 20.35               | No       |    |
|   |          | 60      | 5300           |                 | 21.5    | <b>20.49</b>        | Yes      |    |
|   |          | 64      | 5320           |                 | 21.5    | 20.37               | No       |    |
|   | U-NII-2C | 100     | 5500           |                 | 21.5    | 20.53               | No       |    |
|   |          | 104     | 5520           |                 | 21.5    | 20.53               | No       |    |
|   |          | 108     | 5540           |                 | 21.5    | 20.41               | No       |    |
|   |          | 112     | 5560           |                 | 21.5    | 20.48               | No       |    |
|   |          | 116     | 5580           |                 | 21.5    | 20.59               | No       |    |
|   |          | 120     | 5600           |                 | 21.5    | 20.48               | No       |    |
|   |          | 124     | 5620           |                 | 21.5    | 20.45               | No       |    |
|   |          | 128     | 5640           |                 | 21.5    | 20.52               | No       |    |
|   |          | 132     | 5660           |                 | 21.5    | 20.44               | No       |    |
|   |          | 136     | 5680           |                 | 21.5    | 20.54               | No       |    |
|   | U-NII-3  | 140     | 5700           |                 | 21.5    | <b>20.60</b>        | Yes      |    |
|   |          | 149     | 5745           |                 | 16.5    | 15.77               | No       |    |
|   |          | 153     | 5765           |                 | 16.5    | 15.72               | No       |    |
|   |          | 157     | 5785           |                 | 16.5    | 15.79               | No       |    |
|   |          | 161     | 5805           |                 | 16.5    | 15.75               | No       |    |
|   |          |         | 165            |                 | 5825    | 16.5                | 15.83    | No |
| 5GHz  | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |    |
| 802.11n-<br>HT20                              | U-NII-1  | 36      | 5180           | MCS0            | 21      | 19.55               | No       |    |
|   |          | 40      | 5200           |                 | 21      | 19.56               | No       |    |
|   |          | 44      | 5220           |                 | 21      | 19.70               | No       |    |
|   |          | 48      | 5240           |                 | 21      | 19.72               | No       |    |
|   | U-NII-2A | 52      | 5260           |                 | 21      | 19.78               | No       |    |
|   |          | 56      | 5280           |                 | 21      | 19.81               | No       |    |
|   |          | 60      | 5300           |                 | 21      | 19.74               | No       |    |
|   |          | 64      | 5320           |                 | 21      | 19.79               | No       |    |
|   | U-NII-2C | 100     | 5500           |                 | 21      | 19.90               | No       |    |
|   |          | 104     | 5520           |                 | 21      | 19.94               | No       |    |
|   |          | 108     | 5540           |                 | 21      | 19.87               | No       |    |
|   |          | 112     | 5560           |                 | 21      | 19.95               | No       |    |
|   |          | 116     | 5580           |                 | 21      | 19.93               | No       |    |
|   |          | 120     | 5600           |                 | 21      | 19.97               | No       |    |
|   |          | 124     | 5620           |                 | 21      | 19.77               | No       |    |
|   |          | 128     | 5640           |                 | 21      | 19.88               | No       |    |
|   |          | 132     | 5660           |                 | 21      | 19.97               | No       |    |
|   |          | 136     | 5680           |                 | 21      | 19.93               | No       |    |
|   |          |         | 140            |                 | 5700    | 21                  | 20.00    | No |

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|                  | U-NII-3         | 149     | 5745           |                 | 16.5           | 15.71               | No       |                     |          |
|------------------|-----------------|---------|----------------|-----------------|----------------|---------------------|----------|---------------------|----------|
|                  |                 | 153     | 5765           |                 | 16.5           | 15.67               | No       |                     |          |
|                  |                 | 157     | 5785           |                 | 16.5           | 15.68               | No       |                     |          |
|                  |                 | 161     | 5805           |                 | 16.5           | 15.74               | No       |                     |          |
|                  |                 | 165     | 5825           |                 | 16.5           | 15.78               | No       |                     |          |
| 5GHz             | mode            | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up        | Average Power (dBm) | SAR Test |                     |          |
| 802.11n-<br>HT40 | U-NII-1         | 38      | 5190           | MCS0            | 19.0           | 18.04               | No       |                     |          |
|                  |                 | 46      | 5230           |                 | 21.0           | 20.18               | No       |                     |          |
|                  | U-NII-2A        | 54      | 5270           |                 | 21.0           | 20.24               | No       |                     |          |
|                  |                 | 62      | 5310           |                 | 18.0           | 17.20               | No       |                     |          |
|                  | U-NII-2C        | 102     | 5510           |                 | 16.5           | 15.74               | No       |                     |          |
|                  |                 | 110     | 5550           |                 | 21.0           | 20.22               | No       |                     |          |
|                  |                 | 118     | 5590           |                 | 21.0           | 20.42               | No       |                     |          |
|                  |                 | 126     | 5630           |                 | 21.0           | 20.24               | No       |                     |          |
|                  |                 | 134     | 5670           |                 | 21.0           | 20.37               | No       |                     |          |
|                  | U-NII-3         | 151     | 5755           |                 | 16.5           | 15.43               | No       |                     |          |
|                  |                 | 159     | 5795           |                 | 16.5           | 15.48               | No       |                     |          |
|                  | 5GHz            | mode    | Channel        |                 | Frequency(MHz) | Data Rate(Mbps)     | Tune up  | Average Power (dBm) | SAR Test |
|                  | 802.11ac<br>20M | U-NII-1 | 36             |                 | 5180           | MCS0                | 20.5     | 19.08               | No       |
| 40               |                 |         | 5200           | 20.5            | 19.15          |                     | No       |                     |          |
| 44               |                 |         | 5220           | 20.5            | 19.27          |                     | No       |                     |          |
| 48               |                 |         | 5240           | 20.5            | 19.28          |                     | No       |                     |          |
| U-NII-2A         |                 | 52      | 5260           | 20.5            | 19.34          |                     | No       |                     |          |
|                  |                 | 56      | 5280           | 20.5            | 19.41          |                     | No       |                     |          |
|                  |                 | 60      | 5300           | 20.5            | 19.30          |                     | No       |                     |          |
|                  |                 | 64      | 5320           | 20.5            | 19.38          |                     | No       |                     |          |
| U-NII-2C         |                 | 100     | 5500           | 20.5            | 19.46          |                     | No       |                     |          |
|                  |                 | 104     | 5520           | 20.5            | 19.42          |                     | No       |                     |          |
|                  |                 | 108     | 5540           | 20.5            | 19.42          |                     | No       |                     |          |
|                  |                 | 112     | 5560           | 20.5            | 19.48          |                     | No       |                     |          |
|                  |                 | 116     | 5580           | 20.5            | 19.60          |                     | No       |                     |          |
|                  |                 | 120     | 5600           | 20.5            | 19.51          |                     | No       |                     |          |
|                  |                 | 124     | 5620           | 20.5            | 19.56          |                     | No       |                     |          |
|                  |                 | 128     | 5640           | 20.5            | 19.52          |                     | No       |                     |          |
|                  |                 | 132     | 5660           | 20.5            | 19.60          |                     | No       |                     |          |
|                  |                 | 136     | 5680           | 20.5            | 19.56          |                     | No       |                     |          |
| U-NII-3          |                 | 140     | 5700           | 20.5            | 19.58          |                     | No       |                     |          |
|                  |                 | 149     | 5745           | 16.5            | 15.71          |                     | No       |                     |          |
|                  |                 | 153     | 5765           | 16.5            | 15.70          |                     | No       |                     |          |
|                  |                 | 157     | 5785           | 16.5            | 15.70          |                     | No       |                     |          |
|                  |                 | 161     | 5805           | 16.5            | 15.74          |                     | No       |                     |          |
|                  |                 | 165     | 5825           | 16.5            | 15.79          |                     | No       |                     |          |

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| 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            | 19.0           | 18.07               | No       |
|   |          | 46      | 5230           |                 | 20.5           | 19.73               | No       |
|   | U-NII-2A | 54      | 5270           |                 | 20.5           | 19.77               | No       |
|   |          | 62      | 5310           |                 | 18.0           | 17.31               | No       |
|   | U-NII-2C | 102     | 5510           |                 | 16.5           | 15.85               | No       |
|   |          | 110     | 5550           |                 | 20.5           | 19.79               | No       |
|   |          | 118     | 5590           |                 | 20.5           | 19.95               | No       |
|   |          | 126     | 5630           |                 | 20.5           | 20.02               | No       |
|   |          | 134     | 5670           |                 | 20.5           | 19.98               | No       |
|   | U-NII-3  | 151     | 5755           |                 | 16.5           | 15.72               | No       |
|   |          | 159     | 5795           |                 | 16.5           | 15.77               | No       |
|   | 5GHz     | mode    | Channel        |                 | Frequency(MHz) | Data Rate(Mbps)     | Tune up  |
| 802.11ac<br>80M   | U-NII-1  | 42      | 5210           | MCS0            | 17.5           | 16.35               | No       |
|   | U-NII-2A | 58      | 5290           |                 | 17.0           | 17.85               | No       |
|   | U-NII-2C | 106     | 5530           |                 | 16.5           | 15.50               | No       |
|   |          | 122     | 5610           |                 | 20.5           | 19.65               | No       |
|   | U-NII-3  | 155     | 5775           |                 | 16.5           | 15.79               | Yes      |
| MIMO WWAN+WLAN 5G Receiver on/<br>WWAN+WLAN 5G+BT 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               | 14.3           | 13.09               | No       |
|   |          | 40      | 5200           |                 | 14.3           | 13.17               | No       |
|   |          | 44      | 5220           |                 | 14.3           | 13.34               | No       |
|   |          | 48      | 5240           |                 | 14.3           | 13.45               | No       |
|   | U-NII-2A | 52      | 5260           |                 | 14.3           | 13.47               | Yes      |
|   |          | 56      | 5280           |                 | 14.3           | 13.44               | No       |
|   |          | 60      | 5300           |                 | 14.3           | 13.46               | No       |
|   |          | 64      | 5320           |                 | 14.3           | 13.41               | No       |
|   |          | 100     | 5500           |                 | 14.3           | 13.72               | No       |
|   | U-NII-2C | 104     | 5520           |                 | 14.3           | 13.73               | No       |
|   |          | 108     | 5540           |                 | 14.3           | 13.74               | No       |
|   |          | 112     | 5560           |                 | 14.3           | 13.73               | No       |
|   |          | 116     | 5580           |                 | 14.3           | 13.77               | Yes      |
|   |          | 120     | 5600           |                 | 14.3           | 13.69               | No       |
|   |          | 124     | 5620           |                 | 14.3           | 13.73               | No       |
|   |          | 128     | 5640           |                 | 14.3           | 13.68               | No       |
|   |          | 132     | 5660           |                 | 14.3           | 13.69               | No       |
|   |          | 136     | 5680           |                 | 14.3           | 13.73               | No       |
|   |          | 140     | 5700           |                 | 14.3           | 13.71               | No       |
|   | U-NII-3  | 149     | 5745           |                 | 14.0           | 13.23               | No       |
|   |          | 153     | 5765           |                 | 14.0           | 13.22               | No       |
|   |          | 157     | 5785           |                 | 14.0           | 13.27               | No       |
|   |          | 161     | 5805           |                 | 14.0           | 13.26               | No       |
|   |          | 165     | 5825           |                 | 14.0           | 13.31               | No       |

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| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|------------------|----------|---------|----------------|-----------------|---------|---------------------|----------|
| 802.11n-<br>HT20 | U-NII-1  | 36      | 5180           | MCS0            | 13.8    | 12.45               | No       |
|                  |          | 40      | 5200           |                 | 13.8    | 12.55               | No       |
|                  |          | 44      | 5220           |                 | 13.8    | 12.75               | No       |
|                  |          | 48      | 5240           |                 | 13.8    | 12.76               | No       |
|                  | U-NII-2A | 52      | 5260           |                 | 13.8    | 12.94               | No       |
|                  |          | 56      | 5280           |                 | 13.8    | 13.00               | No       |
|                  |          | 60      | 5300           |                 | 13.8    | 12.91               | No       |
|                  |          | 64      | 5320           |                 | 13.8    | 12.90               | No       |
|                  | U-NII-2C | 100     | 5500           |                 | 13.8    | 13.20               | No       |
|                  |          | 104     | 5520           |                 | 13.8    | 13.27               | No       |
|                  |          | 108     | 5540           |                 | 13.8    | 13.27               | No       |
|                  |          | 112     | 5560           |                 | 13.8    | 13.26               | No       |
|                  |          | 116     | 5580           |                 | 13.8    | 13.22               | No       |
|                  |          | 120     | 5600           |                 | 13.8    | 13.29               | No       |
|                  |          | 124     | 5620           |                 | 13.8    | 13.01               | No       |
|                  |          | 128     | 5640           |                 | 13.8    | 13.14               | No       |
|                  |          | 132     | 5660           |                 | 13.8    | 13.16               | No       |
|                  |          | 136     | 5680           |                 | 13.8    | 13.20               | No       |
|                  | U-NII-3  | 140     | 5700           |                 | 13.8    | 13.29               | No       |
|                  |          | 149     | 5745           |                 | 14.0    | 13.21               | No       |
|                  |          | 153     | 5765           |                 | 14.0    | 13.17               | No       |
|                  |          | 157     | 5785           |                 | 14.0    | 13.16               | No       |
|                  |          | 161     | 5805           |                 | 14.0    | 13.26               | No       |
|                  |          |         | 165            |                 | 5825    | 14.0                | 13.33    |
| 5GHz             | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | MCS0            | 13.8    | 12.97               | No       |
|                  |          | 46      | 5230           |                 | 13.8    | 13.24               | No       |
|                  | U-NII-2A | 54      | 5270           |                 | 13.8    | 13.35               | No       |
|                  |          | 62      | 5310           |                 | 13.8    | 13.25               | No       |
|                  | U-NII-2C | 102     | 5510           |                 | 13.8    | 13.54               | No       |
|                  |          | 110     | 5550           |                 | 13.8    | 13.62               | No       |
|                  |          | 118     | 5590           |                 | 13.8    | 13.66               | No       |
|                  |          | 126     | 5630           |                 | 13.8    | 13.45               | No       |
|                  |          | 134     | 5670           |                 | 13.8    | 13.59               | No       |
|                  | U-NII-3  | 151     | 5755           |                 | 14.0    | 12.96               | No       |
|                  |          | 159     | 5795           |                 | 14.0    | 13.00               | No       |

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| 5GHz            | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|-----------------|----------|---------|----------------|-----------------|---------|---------------------|----------|
| 802.11ac<br>20M | U-NII-1  | 36      | 5180           | MCS0            | 13.3    | 12.01               | No       |
|                 |          | 40      | 5200           |                 | 13.3    | 12.07               | No       |
|                 |          | 44      | 5220           |                 | 13.3    | 12.38               | No       |
|                 |          | 48      | 5240           |                 | 13.3    | 12.34               | No       |
|                 | U-NII-2A | 52      | 5260           |                 | 13.3    | 12.53               | No       |
|                 |          | 56      | 5280           |                 | 13.3    | 12.62               | No       |
|                 |          | 60      | 5300           |                 | 13.3    | 12.42               | No       |
|                 |          | 64      | 5320           |                 | 13.3    | 12.55               | No       |
|                 | U-NII-2C | 100     | 5500           |                 | 13.3    | 12.81               | No       |
|                 |          | 104     | 5520           |                 | 13.3    | 12.76               | No       |
|                 |          | 108     | 5540           |                 | 13.3    | 12.81               | No       |
|                 |          | 112     | 5560           |                 | 13.3    | 12.97               | No       |
|                 |          | 116     | 5580           |                 | 13.3    | 12.97               | No       |
|                 |          | 120     | 5600           |                 | 13.3    | 12.75               | No       |
|                 |          | 124     | 5620           |                 | 13.3    | 12.81               | No       |
|                 |          | 128     | 5640           |                 | 13.3    | 12.69               | No       |
|                 | U-NII-3  | 132     | 5660           |                 | 13.3    | 12.82               | No       |
|                 |          | 136     | 5680           |                 | 13.3    | 12.79               | No       |
|                 |          | 140     | 5700           |                 | 13.3    | 12.93               | No       |
|                 |          | 149     | 5745           |                 | 14.0    | 13.24               | No       |
| 153             |          | 5765    | 14.0           | 13.19           | No      |                     |          |
|                 |          | 157     | 5785           | 14.0            | 13.19   | No                  |          |
|                 |          | 161     | 5805           | 14.0            | 13.26   | No                  |          |
|                 |          | 165     | 5825           | 14.0            | 13.32   | 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            | 13.3    | 12.59               | No       |
|                 |          | 46      | 5230           |                 | 13.3    | 12.87               | No       |
|                 | U-NII-2A | 54      | 5270           |                 | 13.3    | 12.90               | No       |
|                 |          | 62      | 5310           |                 | 13.3    | 12.86               | No       |
|                 | U-NII-2C | 102     | 5510           |                 | 13.3    | 13.17               | No       |
|                 |          | 110     | 5550           |                 | 13.3    | 13.14               | No       |
|                 |          | 118     | 5590           |                 | 13.3    | 13.23               | No       |
|                 |          | 126     | 5630           |                 | 13.3    | 13.17               | No       |
|                 | U-NII-3  | 134     | 5670           |                 | 13.3    | 13.11               | No       |
|                 |          | 151     | 5755           |                 | 14.0    | 13.21               | No       |
| 159             |          | 5795    | 14.0           | 13.20           | 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            | 13.3    | 12.33               | No       |
|                 | U-NII-2A | 58      | 5290           |                 | 13.3    | 12.62               | No       |
|                 | U-NII-2C | 106     | 5530           |                 | 13.3    | 12.98               | No       |
|                 |          | 122     | 5610           |                 | 13.3    | 12.93               | No       |
|                 | U-NII-3  | 155     | 5775           |                 | 14.0    | 13.35               | Yes      |

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| MIMO WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT 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               | 20.6    | 19.00               | No       |    |
|   |          | 40      | 5200           |                 | 20.6    | 19.17               | No       |    |
|   |          | 44      | 5220           |                 | 20.6    | 19.22               | No       |    |
|   |          | 48      | 5240           |                 | 20.6    | 19.42               | Yes      |    |
|   | U-NII-2A | 52      | 5260           |                 | 20.6    | 19.33               | No       |    |
|   |          | 56      | 5280           |                 | 20.6    | 19.30               | No       |    |
|   |          | 60      | 5300           |                 | 20.6    | 19.33               | No       |    |
|   |          | 64      | 5320           |                 | 20.6    | 19.36               | No       |    |
|   | U-NII-2C | 100     | 5500           |                 | 20.6    | 19.46               | No       |    |
|   |          | 104     | 5520           |                 | 20.6    | 19.49               | No       |    |
|   |          | 108     | 5540           |                 | 20.6    | 19.38               | No       |    |
|   |          | 112     | 5560           |                 | 20.6    | 19.40               | No       |    |
|   |          | 116     | 5580           |                 | 20.6    | 19.56               | No       |    |
|   |          | 120     | 5600           |                 | 20.6    | 19.40               | No       |    |
|   |          | 124     | 5620           |                 | 20.6    | 19.34               | No       |    |
|   |          | 128     | 5640           |                 | 20.6    | 19.48               | No       |    |
|   |          | 132     | 5660           |                 | 20.6    | 19.41               | No       |    |
|   |          | 136     | 5680           |                 | 20.6    | 19.46               | No       |    |
|   | U-NII-3  | 140     | 5700           |                 | 20.6    | 19.56               | No       |    |
|   |          | 149     | 5745           |                 | 16.5    | 15.77               | No       |    |
|   |          | 153     | 5765           |                 | 16.5    | 15.72               | No       |    |
|   |          | 157     | 5785           |                 | 16.5    | 15.79               | No       |    |
|   |          | 161     | 5805           |                 | 16.5    | 15.75               | No       |    |
|   |          |         | 165            |                 | 5825    | 16.5                | 15.83    | No |
| 5GHz  | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |    |
| 802.11n-<br>HT20  | U-NII-1  | 36      | 5180           | MCS0            | 20.1    | 18.50               | No       |    |
|   |          | 40      | 5200           |                 | 20.1    | 18.54               | No       |    |
|   |          | 44      | 5220           |                 | 20.1    | 18.63               | No       |    |
|   |          | 48      | 5240           |                 | 20.1    | 18.69               | No       |    |
|   | U-NII-2A | 52      | 5260           |                 | 20.1    | 18.69               | No       |    |
|   |          | 56      | 5280           |                 | 20.1    | 18.77               | No       |    |
|   |          | 60      | 5300           |                 | 20.1    | 18.62               | No       |    |
|   |          | 64      | 5320           |                 | 20.1    | 18.71               | No       |    |
|   | U-NII-2C | 100     | 5500           |                 | 20.1    | 18.80               | No       |    |
|   |          | 104     | 5520           |                 | 20.1    | 18.84               | No       |    |
|   |          | 108     | 5540           |                 | 20.1    | 18.81               | No       |    |
|   |          | 112     | 5560           |                 | 20.1    | 18.80               | No       |    |
|   |          | 116     | 5580           |                 | 20.1    | 18.92               | No       |    |
|   |          | 120     | 5600           |                 | 20.1    | 18.92               | No       |    |
|   |          | 124     | 5620           |                 | 20.1    | 18.70               | No       |    |
|   |          | 128     | 5640           |                 | 20.1    | 18.85               | No       |    |
|   |          | 132     | 5660           |                 | 20.1    | 18.90               | No       |    |
|   |          | 136     | 5680           |                 | 20.1    | 18.90               | No       |    |
|   |          |         | 140            |                 | 5700    | 20.1                | 18.95    | No |

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|                  | U-NII-3         | 149     | 5745           |                 | 16.5           | 15.71               | No       |                     |          |
|------------------|-----------------|---------|----------------|-----------------|----------------|---------------------|----------|---------------------|----------|
|                  |                 | 153     | 5765           |                 | 16.5           | 15.67               | No       |                     |          |
|                  |                 | 157     | 5785           |                 | 16.5           | 15.68               | No       |                     |          |
|                  |                 | 161     | 5805           |                 | 16.5           | 15.74               | No       |                     |          |
|                  |                 | 165     | 5825           |                 | 16.5           | 15.78               | No       |                     |          |
| 5GHz             | mode            | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up        | Average Power (dBm) | SAR Test |                     |          |
| 802.11n-<br>HT40 | U-NII-1         | 38      | 5190           | MCS0            | 19.0           | 17.91               | No       |                     |          |
|                  |                 | 46      | 5230           |                 | 20.1           | 19.08               | No       |                     |          |
|                  | U-NII-2A        | 54      | 5270           |                 | 20.1           | 19.16               | No       |                     |          |
|                  |                 | 62      | 5310           |                 | 18.0           | 16.95               | No       |                     |          |
|                  | U-NII-2C        | 102     | 5510           |                 | 16.5           | 15.58               | No       |                     |          |
|                  |                 | 110     | 5550           |                 | 20.1           | 19.14               | No       |                     |          |
|                  |                 | 118     | 5590           |                 | 20.1           | 19.35               | No       |                     |          |
|                  |                 | 126     | 5630           |                 | 20.1           | 19.20               | No       |                     |          |
|                  |                 | 134     | 5670           |                 | 20.1           | 19.30               | No       |                     |          |
|                  | U-NII-3         | 151     | 5755           |                 | 16.5           | 15.43               | No       |                     |          |
|                  |                 | 159     | 5795           |                 | 16.5           | 15.48               | No       |                     |          |
|                  | 5GHz            | mode    | Channel        |                 | Frequency(MHz) | Data Rate(Mbps)     | Tune up  | Average Power (dBm) | SAR Test |
|                  | 802.11ac<br>20M | U-NII-1 | 36             |                 | 5180           | MCS0                | 19.6     | 18.00               | No       |
| 40               |                 |         | 5200           | 19.6            | 18.07          |                     | No       |                     |          |
| 44               |                 |         | 5220           | 19.6            | 18.20          |                     | No       |                     |          |
| 48               |                 |         | 5240           | 19.6            | 18.23          |                     | No       |                     |          |
| U-NII-2A         |                 | 52      | 5260           | 19.6            | 18.31          |                     | No       |                     |          |
|                  |                 | 56      | 5280           | 19.6            | 18.29          |                     | No       |                     |          |
|                  |                 | 60      | 5300           | 19.6            | 18.20          |                     | No       |                     |          |
|                  |                 | 64      | 5320           | 19.6            | 18.30          |                     | No       |                     |          |
| U-NII-2C         |                 | 100     | 5500           | 19.6            | 18.35          |                     | No       |                     |          |
|                  |                 | 104     | 5520           | 19.6            | 18.38          |                     | No       |                     |          |
|                  |                 | 108     | 5540           | 19.6            | 18.36          |                     | No       |                     |          |
|                  |                 | 112     | 5560           | 19.6            | 18.42          |                     | No       |                     |          |
|                  |                 | 116     | 5580           | 19.6            | 18.49          |                     | No       |                     |          |
|                  |                 | 120     | 5600           | 19.6            | 18.45          |                     | No       |                     |          |
|                  |                 | 124     | 5620           | 19.6            | 18.52          |                     | No       |                     |          |
|                  |                 | 128     | 5640           | 19.6            | 18.43          |                     | No       |                     |          |
| U-NII-3          |                 | 132     | 5660           | 19.6            | 18.56          |                     | No       |                     |          |
|                  |                 | 136     | 5680           | 19.6            | 18.46          |                     | No       |                     |          |
|                  |                 | 140     | 5700           | 19.6            | 18.54          |                     | No       |                     |          |
|                  |                 | 149     | 5745           | 16.5            | 15.71          |                     | No       |                     |          |
|                  |                 | 153     | 5765           | 16.5            | 15.70          |                     | No       |                     |          |
|                  |                 | 157     | 5785           | 16.5            | 15.70          |                     | No       |                     |          |
|                  |                 | 161     | 5805           | 16.5            | 15.74          |                     | No       |                     |          |
| 165              |                 | 5825    | 16.5           | 15.79           | No             |                     |          |                     |          |

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| 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            | 19.0           | 17.88               | No       |
|                 |          | 46      | 5230           |                 | 19.6           | 18.63               | No       |
|                 | U-NII-2A | 54      | 5270           |                 | 19.6           | 18.69               | No       |
|                 |          | 62      | 5310           |                 | 18.0           | 17.06               | No       |
|                 | U-NII-2C | 102     | 5510           |                 | 16.5           | 15.66               | No       |
|                 |          | 110     | 5550           |                 | 19.6           | 18.74               | No       |
|                 |          | 118     | 5590           |                 | 19.6           | 18.89               | No       |
|                 |          | 126     | 5630           |                 | 19.6           | 18.89               | No       |
|                 |          | 134     | 5670           |                 | 19.6           | 18.91               | No       |
|                 | U-NII-3  | 151     | 5755           |                 | 16.5           | 15.72               | No       |
|                 |          | 159     | 5795           |                 | 16.5           | 15.77               | No       |
|                 | 5GHz     | mode    | Channel        |                 | Frequency(MHz) | Data Rate(Mbps)     | Tune up  |
| 802.11ac<br>80M | U-NII-1  | 42      | 5210           | MCS0            | 17.5           | 16.17               | No       |
|                 | U-NII-2A | 58      | 5290           |                 | 17.0           | 15.82               | No       |
|                 | U-NII-2C | 106     | 5530           |                 | 16.5           | 15.37               | No       |
|                 |          | 122     | 5610           |                 | 19.6           | 18.56               | No       |
|                 | U-NII-3  | 155     | 5775           |                 | 16.5           | 15.79               | No       |

Table 23: Conducted Power of WiFi

Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
  - 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
  - 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

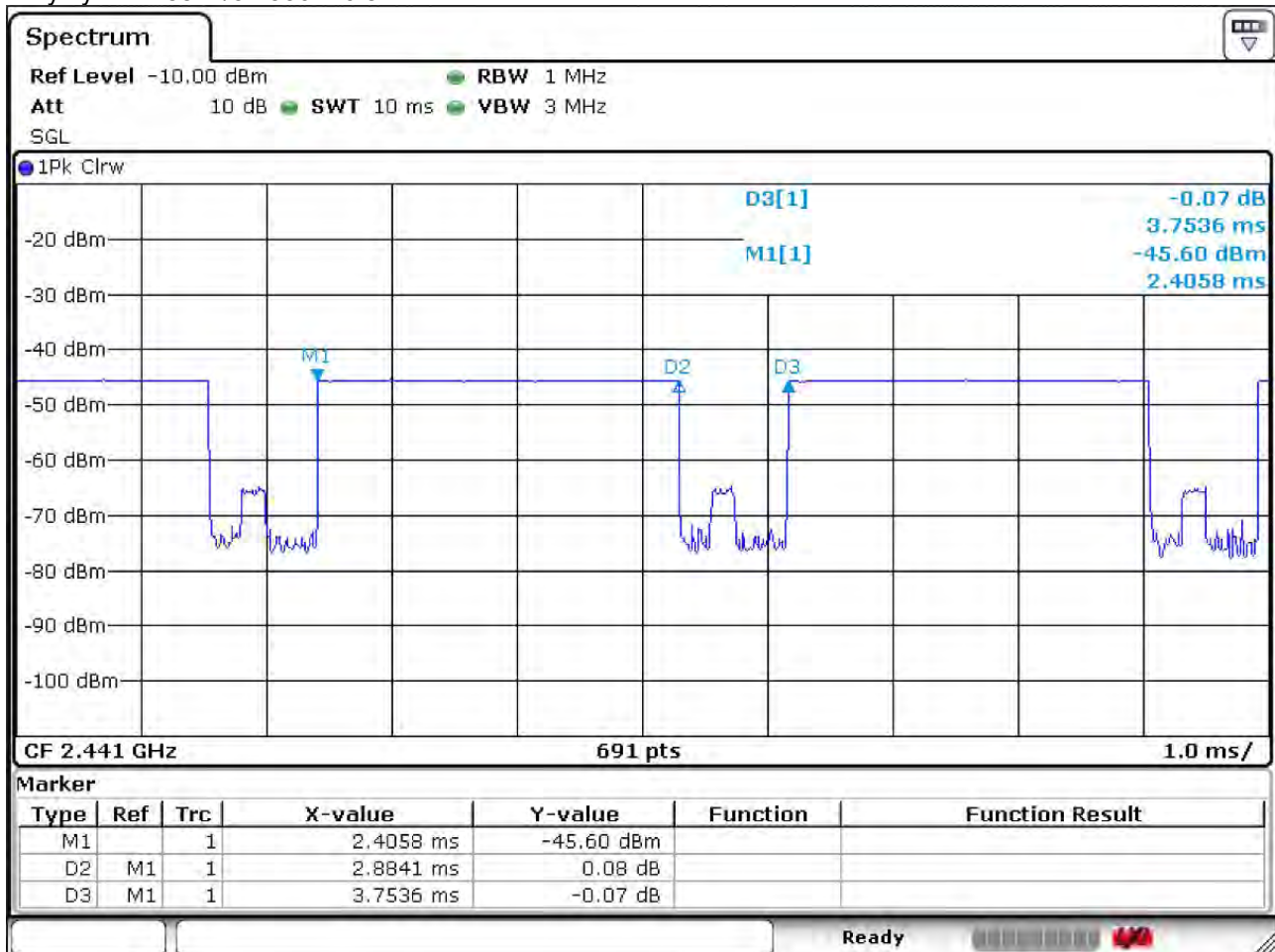
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| BT   |               | Average Conducted Power(dBm) |       |       |         |
|------|---------------|------------------------------|-------|-------|---------|
| Band | Channel       | 0                            | 39    | 78    | Tune up |
| BT   | GFSK          | 13.56                        | 13.64 | 13.53 | 14.5    |
|      | $\pi/4$ DQPSK | 11.04                        | 11.54 | 11.49 | 14.5    |
|      | 8DPSK         | 11.12                        | 11.51 | 11.57 | 14.5    |
|      | Channel       | 0                            | 19    | 39    | Tune up |
| BLE  | GFSK          | 4.34                         | 4.61  | 5.06  | 7.5     |

Table 24: Conducted Power of BT

Duty cycle=2.8841/3.7536=76.84%



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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     |                      |                 |                     |                 |
| WiFi 2.4G<br>Ant8(Chain1) | 2.47            | Head      | 19.5          | 89.13  | 5.0                  | 28.01           | 3.0                 | N               |
|                           |                 | Body-worn | 19.5          | 89.13  | 15.0                 | 9.34            | 3.0                 | N               |
|                           |                 | Hotspot   | 19.5          | 89.13  | 10.0                 | 14.01           | 3.0                 | N               |
| WiFi 2.4G<br>Ant9(Chain0) | 2.47            | Head      | 20.0          | 100.00 | 5.0                  | 31.43           | 3.0                 | N               |
|                           |                 | Body-worn | 20.0          | 100.00 | 15.0                 | 10.48           | 3.0                 | N               |
|                           |                 | Hotspot   | 20.0          | 100.00 | 10.0                 | 15.72           | 3.0                 | N               |
| WiFi 2.4G<br>MIMO         | 2.47            | Head      | 22.5          | 177.83 | 5.0                  | 55.90           | 3.0                 | N               |
|                           |                 | Body-worn | 22.5          | 177.83 | 15.0                 | 18.63           | 3.0                 | N               |
|                           |                 | Hotspot   | 22.5          | 177.83 | 10.0                 | 27.95           | 3.0                 | N               |
| WiFi 5G<br>Ant6(Chain0)   | 5.85            | Head      | 19.5          | 89.13  | 5.0                  | 43.11           | 3.0                 | N               |
|                           |                 | Body-worn | 19.5          | 89.13  | 15.0                 | 14.37           | 3.0                 | N               |
|                           |                 | Hotspot   | 19.5          | 89.13  | 10.0                 | 21.56           | 3.0                 | N               |
| WiFi 5G<br>Ant9(Chain1)   | 5.85            | Head      | 18.5          | 70.79  | 5.0                  | 34.25           | 3.0                 | N               |
|                           |                 | Body-worn | 18.5          | 70.79  | 15.0                 | 11.42           | 3.0                 | N               |
|                           |                 | Hotspot   | 18.5          | 70.79  | 10.0                 | 17.12           | 3.0                 | N               |
| WiFi 5G<br>MIMO           | 5.85            | Head      | 21.5          | 141.25 | 5.0                  | 68.33           | 3.0                 | N               |
|                           |                 | Body-worn | 21.5          | 141.25 | 15.0                 | 22.78           | 3.0                 | N               |
|                           |                 | Hotspot   | 21.5          | 141.25 | 10.0                 | 34.16           | 3.0                 | N               |
| Bluetooth                 | 2.48            | Head      | 14.5          | 28.18  | 5.0                  | 8.88            | 3.0                 | N               |
|                           |                 | Body-worn | 14.5          | 28.18  | 15.0                 | 2.96            | 3.0                 | Yes             |
|                           |                 | Hotspot   | 14.5          | 28.18  | 10.0                 | 4.44            | 3.0                 | N               |

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:

$$\left[ \frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 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 Estimated SAR

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

- $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})} / x] \text{ W/kg}$  for test separation distances  $\leq 50 \text{ mm}$ ;

Where  $x = 7.5$  for 1-g SAR, and  $x = 18.75$  for 10-g SAR.

When the minimum test separation distance is  $< 5 \text{ mm}$ , a distance of  $5 \text{ mm}$  is applied to determine SAR test exclusion.

#### Estimated SAR Result

| Freq. Band | Frequency (GHz) | Test Position | max. power(dBm) | Test Separation (mm) | Estimated  |
|------------|-----------------|---------------|-----------------|----------------------|------------|
|            |                 |               |                 |                      | SAR (W/kg) |
| Bluetooth  | 2.48            | Body-worn     | 14.5            | 15                   | 0.395      |

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## 8.4 Measurement of SAR Data

### 8.4.1 SAR Result of GSM850

| Ant 0 Test Record                                |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
|--|-----------|----------------|------------|----------------|-----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------------|------------------|
| Test position                                    | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                                   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek                                       | GSM       | 190/836.6      | 1:8.3      | 0.683          | 0.379           | 0.13             | 32.55                | 33.20              | 1.161         | <b>0.793</b>          | 0.440                  | 22.0             |
| Left tilted                                      | GSM       | 190/836.6      | 1:8.3      | 0.124          | 0.080           | 0.18             | 32.55                | 33.20              | 1.161         | 0.144                 | 0.093                  | 22.0             |
| Right cheek                                      | GSM       | 190/836.6      | 1:8.3      | 0.659          | 0.303           | 0.06             | 32.55                | 33.20              | 1.161         | 0.765                 | 0.352                  | 22.0             |
| Right tilted                                     | GSM       | 190/836.6      | 1:8.3      | 0.137          | 0.087           | 0.12             | 32.55                | 33.20              | 1.161         | 0.159                 | 0.101                  | 22.0             |
| Head Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek                                       | GSM       | 190/836.6      | 1:8.3      | 0.668          | 0.370           | 0.13             | 32.55                | 33.20              | 1.161         | 0.776                 | 0.430                  | 22.0             |
| Body worn Test data(Separate 15mm)               |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side                                       | GSM       | 190/836.6      | 1:8.3      | 0.126          | 0.083           | 0.08             | 32.55                | 33.20              | 1.161         | 0.146                 | 0.096                  | 22.0             |
| Back side  | GSM       | 190/836.6      | 1:8.3      | 0.187          | 0.120           | -0.03            | 32.55                | 33.20              | 1.161         | <b>0.217</b>          | 0.139                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | GSM       | 190/836.6      | 1:2.075    | 0.183          | 0.117           | -0.02            | 32.51                | 33.20              | 1.172         | 0.215                 | 0.137                  | 22.0             |
| Hotspot Test data(Separate 10mm)                 |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side                                       | GPRS 3TS  | 190/836.6      | 1:2.77     | 0.253          | 0.162           | -0.12            | 28.77                | 30.20              | 1.390         | 0.352                 | 0.225                  | 22.0             |
| Back side  | GPRS 3TS  | 190/836.6      | 1:2.77     | 0.364          | 0.236           | -0.08            | 28.77                | 30.20              | 1.390         | 0.506                 | 0.328                  | 22.0             |
| Left side  | GPRS 3TS  | 190/836.6      | 1:2.77     | 0.571          | 0.319           | 0.08             | 28.77                | 30.20              | 1.390         | <b>0.794</b>          | 0.443                  | 22.0             |
| Top side   | GPRS 3TS  | 190/836.6      | 1:2.77     | 0.024          | 0.016           | 0.02             | 28.77                | 30.20              | 1.390         | 0.033                 | 0.023                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left side  | GPRS 3TS  | 190/836.6      | 1:2.77     | 0.559          | 0.313           | 0.09             | 28.77                | 30.20              | 1.390         | 0.777                 | 0.435                  | 22.0             |

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| Ant 1 Test Record                                |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
|--|-----------|----------------|------------|----------------|-----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------------|------------------|
| Test position                                    | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                                   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek                                       | GSM       | 190/836.6      | 1:8.3      | 0.248          | 0.194           | 0.01             | 32.71                | 34.00              | 1.346         | 0.334                 | 0.261                  | 22.0             |
| Left tilted                                      | GSM       | 190/836.6      | 1:8.3      | 0.161          | 0.114           | 0.17             | 32.71                | 34.00              | 1.346         | 0.217                 | 0.153                  | 22.0             |
| Right cheek                                      | GSM       | 190/836.6      | 1:8.3      | 0.354          | 0.265           | 0.01             | 32.71                | 34.00              | 1.346         | <b>0.476</b>          | 0.357                  | 22.0             |
| Right tilted                                     | GSM       | 190/836.6      | 1:8.3      | 0.176          | 0.124           | -0.01            | 32.71                | 34.00              | 1.346         | 0.237                 | 0.167                  | 22.0             |
| Head Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Right cheek                                      | GSM       | 190/836.6      | 1:8.3      | 0.173          | 0.125           | 0.04             | 32.71                | 34.00              | 1.346         | 0.233                 | 0.168                  | 22.0             |
| Body worn Test data(Separate 15mm)               |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side                                       | GSM       | 190/836.6      | 1:8.3      | 0.105          | 0.070           | 0.01             | 30.82                | 32.20              | 1.374         | 0.144                 | 0.096                  | 22.0             |
| Back side  | GSM       | 190/836.6      | 1:8.3      | 0.118          | 0.072           | 0.03             | 30.82                | 32.20              | 1.374         | <b>0.162</b>          | 0.099                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | GSM       | 190/836.6      | 1:8.3      | 0.115          | 0.071           | 0.15             | 30.82                | 32.20              | 1.374         | 0.158                 | 0.097                  | 22.0             |
| Hotspot Test data(Separate 10mm)                 |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side                                       | GPRS 3TS  | 190/836.6      | 1:2.77     | 0.343          | 0.199           | -0.09            | 27.25                | 29.20              | 1.567         | 0.537                 | 0.312                  | 22.0             |
| Back side  | GPRS 3TS  | 190/836.6      | 1:2.77     | 0.380          | 0.223           | 0.13             | 27.25                | 29.20              | 1.567         | <b>0.595</b>          | 0.349                  | 22.0             |
| Left side  | GPRS 3TS  | 190/836.6      | 1:2.77     | 0.081          | 0.056           | 0.19             | 27.25                | 29.20              | 1.567         | 0.127                 | 0.088                  | 22.0             |
| Right side                                       | GPRS 3TS  | 190/836.6      | 1:2.77     | 0.295          | 0.204           | 0.14             | 27.25                | 29.20              | 1.567         | 0.462                 | 0.320                  | 22.0             |
| Bottom side                                      | GPRS 3TS  | 190/836.6      | 1:2.77     | 0.318          | 0.180           | 0.07             | 27.25                | 29.20              | 1.567         | 0.498                 | 0.282                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | GPRS 3TS  | 190/836.6      | 1:2.77     | 0.262          | 0.156           | -0.06            | 27.25                | 29.20              | 1.567         | 0.410                 | 0.244                  | 22.0             |

Table 25: SAR of GSM850 for Head and Body

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

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### 8.4.2 SAR Result of GSM1900

| Ant 2 Test Record   |           |                |            |                |                 |                  |                      |                     |               |                       |                        |                  |
|---|-----------|----------------|------------|----------------|-----------------|------------------|----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data  |           |                |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Left cheek  | GSM       | 661/1880       | 1:8.3      | 0.599          | 0.293           | 0.07             | 24.45                | 25.30               | 1.216         | 0.728                 | 0.356                  | 22.0             |
| Left tilted   | GSM       | 661/1880       | 1:8.3      | 0.652          | 0.314           | -0.06            | 24.45                | 25.30               | 1.216         | 0.793                 | 0.382                  | 22.0             |
| Right cheek   | GSM       | 661/1880       | 1:8.3      | 0.698          | 0.320           | -0.02            | 24.45                | 25.30               | 1.216         | 0.849                 | 0.389                  | 22.0             |
| Right cheek   | GSM       | 512/1850.2     | 1:8.3      | 0.648          | 0.314           | 0.04             | 24.43                | 25.30               | 1.222         | 0.792                 | 0.384                  | 22.0             |
| Right cheek   | GSM       | 810/1909.8     | 1:8.3      | 0.650          | 0.312           | 0.00             | 24.31                | 25.30               | 1.256         | 0.816                 | 0.392                  | 22.0             |
| Right tilted  | GSM       | 661/1880       | 1:8.3      | 0.711          | 0.325           | 0.00             | 24.45                | 25.30               | 1.216         | 0.865                 | 0.395                  | 22.0             |
| Right tilted  | GSM       | 512/1850.2     | 1:8.3      | 0.692          | 0.319           | 0.03             | 24.43                | 25.30               | 1.222         | 0.845                 | 0.390                  | 22.0             |
| Right tilted  | GSM       | 810/1909.8     | 1:8.3      | 0.719          | 0.327           | 0.01             | 24.31                | 25.30               | 1.256         | <b>0.903</b>          | 0.411                  | 22.0             |
| Head Test Data at the worst case with Battery 2#  |           |                |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Right tilted  | GSM       | 810/1909.8     | 1:8.3      | 0.674          | 0.308           | -0.01            | 24.31                | 25.30               | 1.256         | 0.847                 | 0.387                  | 22.0             |
| Body worn Test data(Separate 15mm)  |           |                |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Front side  | GSM       | 661/1880       | 1:8.3      | 0.088          | 0.052           | 0.00             | 25.67                | 26.40               | 1.183         | 0.061                 | 0.061                  | 22.0             |
| Back side   | GSM       | 661/1880       | 1:8.3      | 0.129          | 0.075           | 0.05             | 25.67                | 26.40               | 1.183         | <b>0.089</b>          | 0.089                  | 22.0             |
| Body Test Data at the worst case with Battery 2#  |           |                |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Back side   | GSM       | 661/1880       | 1:8.3      | 0.125          | 0.073           | 0.17             | 25.67                | 26.40               | 1.183         | 0.086                 | 0.086                  | 22.0             |
| Hotspot Test data(Separate 10mm)  |           |                |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Front side  | GPRS 4TS  | 661/1880       | 1:2.075    | 0.180          | 0.102           | 0.06             | 21.89                | 22.50               | 1.151         | 0.207                 | 0.117                  | 22.0             |
| Back side   | GPRS 4TS  | 661/1880       | 1:2.075    | 0.259          | 0.147           | 0.02             | 21.89                | 22.50               | 1.151         | 0.298                 | 0.169                  | 22.0             |
| Left side   | GPRS 4TS  | 661/1880       | 1:2.075    | 0.032          | 0.018           | 0.06             | 21.89                | 22.50               | 1.151         | 0.037                 | 0.021                  | 22.0             |
| Top side  | GPRS 4TS  | 661/1880       | 1:2.075    | 0.289          | 0.153           | -0.02            | 21.89                | 22.50               | 1.151         | <b>0.333</b>          | 0.176                  | 22.0             |
| Body Test Data at the worst case with Battery 2#  |           |                |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Top side  | GPRS 4TS  | 661/1880       | 1:2.075    | 0.282          | 0.149           | -0.16            | 21.89                | 22.50               | 1.151         | 0.325                 | 0.171                  | 22.0             |
| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on)   |           |                |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Test position   | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data  |           |                |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Left cheek  | GSM       | 661/1880       | 1:8.3      | 0.402          | 0.196           | -0.03            | 22.82                | 23.60               | 1.197         | 0.481                 | 0.235                  | 22.0             |
| Left tilted   | GSM       | 661/1880       | 1:8.3      | 0.435          | 0.219           | 0.02             | 22.82                | 23.60               | 1.197         | 0.521                 | 0.262                  | 22.0             |
| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on |           |                |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Test position   | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data  |           |                |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Left cheek  | GSM       | 661/1880       | 1:8.3      | 0.476          | 0.229           | -0.01            | 23.91                | 24.60               | 1.172         | 0.558                 | 0.268                  | 22.0             |
| Left tilted   | GSM       | 661/1880       | 1:8.3      | 0.535          | 0.242           | 0.05             | 23.91                | 24.60               | 1.172         | 0.627                 | 0.284                  | 22.0             |

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| Ant 3 Test Record                                |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
|--|-----------|----------------|------------|----------------|-----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------------|------------------|
| Test position                                    | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                                   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek                                       | GSM       | 661/1880       | 1:8.3      | 0.035          | 0.021           | 0.13             | 28.79                | 30.00              | 1.321         | 0.028                 | 0.028                  | 22.0             |
| Left tilted                                      | GSM       | 661/1880       | 1:8.3      | 0.051          | 0.030           | 0.12             | 28.79                | 30.00              | 1.321         | 0.039                 | 0.039                  | 22.0             |
| Right cheek                                      | GSM       | 661/1880       | 1:8.3      | 0.071          | 0.048           | 0.15             | 28.79                | 30.00              | 1.321         | 0.063                 | 0.063                  | 22.0             |
| Right tilted                                     | GSM       | 661/1880       | 1:8.3      | 0.053          | 0.036           | 0.04             | 28.79                | 30.00              | 1.321         | 0.047                 | 0.047                  | 22.0             |
| Head Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Right cheek                                      | GSM       | 661/1880       | 1:8.3      | 0.081          | 0.055           | 0.03             | 28.79                | 30.00              | 1.321         | <b>0.073</b>          | 0.073                  | 22.0             |
| Body worn Test data(Separate 15mm)               |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side                                       | GSM       | 661/1880       | 1:8.3      | 0.060          | 0.036           | -0.12            | 28.79                | 30.00              | 1.321         | 0.048                 | 0.048                  | 22.0             |
| Back side  | GSM       | 661/1880       | 1:8.3      | 0.072          | 0.048           | 0.06             | 28.79                | 30.00              | 1.321         | <b>0.063</b>          | 0.063                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | GSM       | 661/1880       | 1:8.3      | 0.071          | 0.046           | 0.07             | 28.79                | 30.00              | 1.321         | 0.061                 | 0.061                  | 22.0             |
| Hotspot Test data(Separate 10mm)                 |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side                                       | GPRS 4TS  | 661/1880       | 1:2.075    | 0.111          | 0.067           | -0.10            | 23.82                | 25.50              | 1.472         | 0.163                 | 0.098                  | 22.0             |
| Back side  | GPRS 4TS  | 661/1880       | 1:2.075    | 0.117          | 0.072           | -0.03            | 23.82                | 25.50              | 1.472         | 0.172                 | 0.106                  | 22.0             |
| Left side  | GPRS 4TS  | 661/1880       | 1:2.075    | 0.021          | 0.011           | -0.05            | 23.82                | 25.50              | 1.472         | 0.031                 | 0.017                  | 22.0             |
| Right side                                       | GPRS 4TS  | 661/1880       | 1:2.075    | 0.151          | 0.087           | -0.03            | 23.82                | 25.50              | 1.472         | <b>0.222</b>          | 0.128                  | 22.0             |
| Bottom side                                      | GPRS 4TS  | 661/1880       | 1:2.075    | 0.129          | 0.069           | 0.01             | 23.82                | 25.50              | 1.472         | 0.190                 | 0.102                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Right side                                       | GPRS 4TS  | 661/1880       | 1:2.075    | 0.149          | 0.085           | -0.02            | 23.82                | 25.50              | 1.472         | 0.219                 | 0.125                  | 22.0             |

Table 26: SAR of GSM1900 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

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### 8.4.3 SAR Result of WCDMA Band II

| Ant 2 Test Record                                |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|--|-----------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position                                    | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                                   |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek                                       | RMC       | 9400/1880      | 1:1        | 0.336          | 0.169           | 0.11             | 14.63                 | 15.30               | 1.167         | 0.392                 | 0.197                  | 22.0             |
| Left tilted                                      | RMC       | 9400/1880      | 1:1        | 0.327          | 0.173           | 0.03             | 14.63                 | 15.30               | 1.167         | 0.382                 | 0.202                  | 22.0             |
| Right cheek                                      | RMC       | 9400/1880      | 1:1        | 0.465          | 0.213           | 0.07             | 14.63                 | 15.30               | 1.167         | 0.543                 | 0.249                  | 22.0             |
| Right tilted                                     | RMC       | 9400/1880      | 1:1        | 0.590          | 0.275           | 0.12             | 14.63                 | 15.30               | 1.167         | <b>0.688</b>          | 0.321                  | 22.0             |
| Head Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right tilted                                     | RMC       | 9400/1880      | 1:1        | 0.582          | 0.271           | 0.09             | 14.63                 | 15.30               | 1.167         | 0.679                 | 0.316                  | 22.0             |
| Body worn Test data(Separate 15mm)               |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side                                       | RMC       | 9400/1880      | 1:1        | 0.135          | 0.079           | 0.11             | 17.48                 | 18.20               | 1.180         | 0.159                 | 0.094                  | 22.0             |
| Back side  | RMC       | 9400/1880      | 1:1        | 0.180          | 0.106           | 0.03             | 17.48                 | 18.20               | 1.180         | <b>0.212</b>          | 0.125                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side  | RMC       | 9400/1880      | 1:1        | 0.174          | 0.103           | 0.04             | 17.48                 | 18.20               | 1.180         | 0.205                 | 0.122                  | 22.0             |
| Hotspot Test data(Separate 10mm)                 |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side                                       | RMC       | 9400/1880      | 1:1        | 0.247          | 0.132           | 0.06             | 17.48                 | 18.20               | 1.180         | 0.292                 | 0.156                  | 22.0             |
| Back side  | RMC       | 9400/1880      | 1:1        | 0.329          | 0.186           | 0.19             | 17.48                 | 18.20               | 1.180         | 0.388                 | 0.220                  | 22.0             |
| Left side  | RMC       | 9400/1880      | 1:1        | 0.048          | 0.027           | 0.03             | 17.48                 | 18.20               | 1.180         | 0.056                 | 0.031                  | 22.0             |
| Top side   | RMC       | 9400/1880      | 1:1        | 0.513          | 0.271           | 0.08             | 17.48                 | 18.20               | 1.180         | <b>0.606</b>          | 0.320                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side   | RMC       | 9400/1880      | 1:1        | 0.495          | 0.262           | 0.04             | 17.48                 | 18.20               | 1.180         | 0.584                 | 0.309                  | 22.0             |
| Ant 3 Test Record                                |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position                                    | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                                   |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek                                       | RMC       | 9400/1880      | 1:1        | 0.065          | 0.040           | 0.09             | 22.52                 | 23.50               | 1.253         | 0.050                 | 22.0                   | 22.0             |
| Left tilted                                      | RMC       | 9400/1880      | 1:1        | 0.090          | 0.051           | 0.07             | 22.52                 | 23.50               | 1.253         | 0.064                 | 22.0                   | 22.0             |
| Right cheek                                      | RMC       | 9400/1880      | 1:1        | 0.156          | 0.101           | 0.07             | 22.52                 | 23.50               | 1.253         | <b>0.127</b>          | 22.0                   | 22.0             |
| Right tilted                                     | RMC       | 9400/1880      | 1:1        | 0.087          | 0.051           | 0.06             | 22.52                 | 23.50               | 1.253         | 0.063                 | 22.0                   | 22.0             |
| Head Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek                                      | RMC       | 9400/1880      | 1:1        | 0.120          | 0.078           | 0.02             | 22.52                 | 23.50               | 1.253         | 0.098                 | 22.0                   | 22.0             |
| Body worn Test data(Separate 15mm)               |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side                                       | RMC       | 9400/1880      | 1:1        | 0.108          | 0.065           | -0.08            | 22.52                 | 23.50               | 1.253         | 0.135                 | 0.082                  | 22.0             |
| Back side  | RMC       | 9400/1880      | 1:1        | 0.127          | 0.084           | -0.16            | 22.52                 | 23.50               | 1.253         | <b>0.159</b>          | 0.106                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side  | RMC       | 9400/1880      | 1:1        | 0.122          | 0.081           | -0.14            | 22.52                 | 23.50               | 1.253         | 0.153                 | 0.102                  | 22.0             |
| Hotspot Test data(Separate 10mm)                 |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side                                       | RMC       | 9400/1880      | 1:1        | 0.192          | 0.112           | -0.03            | 22.52                 | 23.50               | 1.253         | 0.241                 | 0.140                  | 22.0             |
| Back side  | RMC       | 9400/1880      | 1:1        | 0.208          | 0.128           | -0.06            | 22.52                 | 23.50               | 1.253         | 0.261                 | 0.160                  | 22.0             |
| Left side  | RMC       | 9400/1880      | 1:1        | 0.051          | 0.028           | -0.18            | 22.52                 | 23.50               | 1.253         | 0.063                 | 0.035                  | 22.0             |
| Right side                                       | RMC       | 9400/1880      | 1:1        | 0.270          | 0.158           | -0.04            | 22.52                 | 23.50               | 1.253         | <b>0.338</b>          | 0.198                  | 22.0             |
| Bottom side                                      | RMC       | 9400/1880      | 1:1        | 0.247          | 0.134           | -0.18            | 22.52                 | 23.50               | 1.253         | 0.310                 | 0.168                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right side                                       | RMC       | 9400/1880      | 1:1        | 0.261          | 0.153           | 0.11             | 22.52                 | 23.50               | 1.253         | 0.327                 | 0.192                  | 22.0             |

Table 27: SAR of WCDMA Band II for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

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### 8.4.1 SAR Result of WCDMA Band IV

| Ant 2 Test Record                                |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
|--|-----------|----------------|------------|----------------|-----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------------|------------------|
| Test position                                    | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                                   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek                                       | RMC       | 1412/1732.4    | 1:1        | 0.315          | 0.159           | -0.03            | 15.09                | 15.80              | 1.178         | 0.371                 | 0.187                  | 22.0             |
| Left tilted                                      | RMC       | 1412/1732.4    | 1:1        | 0.424          | 0.210           | 0.15             | 15.09                | 15.80              | 1.178         | 0.499                 | 0.247                  | 22.0             |
| Right cheek                                      | RMC       | 1412/1732.4    | 1:1        | 0.527          | 0.243           | 0.17             | 15.09                | 15.80              | 1.178         | 0.621                 | 0.286                  | 22.0             |
| Right tilted                                     | RMC       | 1412/1732.4    | 1:1        | 0.645          | 0.298           | 0.19             | 15.09                | 15.80              | 1.178         | <b>0.760</b>          | 0.351                  | 22.0             |
| Head Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Right tilted                                     | RMC       | 1412/1732.4    | 1:1        | 0.618          | 0.286           | 0.10             | 15.09                | 15.80              | 1.178         | 0.728                 | 0.337                  | 22.0             |
| Body worn Test data(Separate 15mm)               |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side                                       | RMC       | 1412/1732.4    | 1:1        | 0.104          | 0.062           | -0.07            | 17.63                | 18.30              | 1.167         | 0.121                 | 0.072                  | 22.0             |
| Back side  | RMC       | 1412/1732.4    | 1:1        | 0.132          | 0.078           | -0.09            | 17.63                | 18.30              | 1.167         | <b>0.154</b>          | 0.091                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | RMC       | 1412/1732.4    | 1:1        | 0.130          | 0.076           | 0.11             | 17.63                | 18.30              | 1.167         | 0.152                 | 0.089                  | 22.0             |
| Hotspot Test data(Separate 10mm)                 |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side                                       | RMC       | 1412/1732.4    | 1:1        | 0.216          | 0.118           | 0.05             | 17.63                | 18.30              | 1.167         | 0.252                 | 0.138                  | 22.0             |
| Back side  | RMC       | 1412/1732.4    | 1:1        | 0.290          | 0.161           | 0.14             | 17.63                | 18.30              | 1.167         | 0.338                 | 0.188                  | 22.0             |
| Left side  | RMC       | 1412/1732.4    | 1:1        | 0.062          | 0.037           | -0.16            | 17.63                | 18.30              | 1.167         | 0.073                 | 0.043                  | 22.0             |
| Top side   | RMC       | 1412/1732.4    | 1:1        | 0.359          | 0.189           | -0.04            | 17.63                | 18.30              | 1.167         | <b>0.419</b>          | 0.221                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Top side   | RMC       | 1412/1732.4    | 1:1        | 0.352          | 0.185           | -0.02            | 17.63                | 18.30              | 1.167         | 0.411                 | 0.216                  | 22.0             |
| Ant 3 Test Record                                |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Test position                                    | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                                   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek                                       | RMC       | 1412/1732.4    | 1:1        | 0.029          | 0.020           | -0.01            | 22.81                | 23.70              | 1.227         | 0.035                 | 0.024                  | 22.0             |
| Left tilted                                      | RMC       | 1412/1732.4    | 1:1        | 0.034          | 0.022           | 0.04             | 22.81                | 23.70              | 1.227         | 0.042                 | 0.027                  | 22.0             |
| Right cheek                                      | RMC       | 1412/1732.4    | 1:1        | 0.048          | 0.031           | 0.09             | 22.81                | 23.70              | 1.227         | <b>0.058</b>          | 0.038                  | 22.0             |
| Right tilted                                     | RMC       | 1412/1732.4    | 1:1        | 0.036          | 0.023           | -0.01            | 22.81                | 23.70              | 1.227         | 0.044                 | 0.028                  | 22.0             |
| Head Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Right cheek                                      | RMC       | 1412/1732.4    | 1:1        | 0.047          | 0.030           | 0.01             | 22.81                | 23.70              | 1.227         | 0.057                 | 0.037                  | 22.0             |
| Body worn Test data(Separate 15mm)               |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side                                       | RMC       | 1412/1732.4    | 1:1        | 0.032          | 0.019           | -0.06            | 22.81                | 23.70              | 1.227         | 0.039                 | 0.023                  | 22.0             |
| Back side  | RMC       | 1412/1732.4    | 1:1        | 0.050          | 0.033           | 0.04             | 22.81                | 23.70              | 1.227         | <b>0.061</b>          | 0.041                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | RMC       | 1412/1732.4    | 1:1        | 0.049          | 0.033           | 0.01             | 22.81                | 23.70              | 1.227         | 0.060                 | 0.040                  | 22.0             |
| Hotspot Test data(Separate 10mm)                 |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side                                       | RMC       | 1412/1732.4    | 1:1        | 0.068          | 0.038           | 0.07             | 22.81                | 23.70              | 1.227         | 0.083                 | 0.047                  | 22.0             |
| Back side  | RMC       | 1412/1732.4    | 1:1        | 0.072          | 0.041           | 0.01             | 22.81                | 23.70              | 1.227         | 0.088                 | 0.050                  | 22.0             |
| Left side  | RMC       | 1412/1732.4    | 1:1        | 0.020          | 0.012           | 0.04             | 22.81                | 23.70              | 1.227         | 0.025                 | 0.014                  | 22.0             |
| Right side                                       | RMC       | 1412/1732.4    | 1:1        | 0.072          | 0.042           | -0.05            | 22.81                | 23.70              | 1.227         | 0.088                 | 0.051                  | 22.0             |
| Bottom side                                      | RMC       | 1412/1732.4    | 1:1        | 0.088          | 0.047           | -0.02            | 22.81                | 23.70              | 1.227         | <b>0.108</b>          | 0.057                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Bottom side                                      | RMC       | 1412/1732.4    | 1:1        | 0.086          | 0.046           | 0.07             | 22.81                | 23.70              | 1.227         | 0.105                 | 0.056                  | 22.0             |

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

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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### 8.4.2 SAR Result of WCDMA Band V

| Ant 0 Test Record  |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
|--|-----------|----------------|------------|----------------|-----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------------|------------------|
| Test position  | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek   | RMC       | 4182/836.4     | 1:1        | 0.728          | 0.407           | 0.19             | 24.22                | 25.00              | 1.197         | 0.871                 | 0.487                  | 22.0             |
| Left cheek   | RMC       | 4132/826.4     | 1:1        | 0.719          | 0.402           | 0.18             | 24.18                | 25.00              | 1.208         | 0.868                 | 0.486                  | 22.0             |
| Left cheek   | RMC       | 4233/846.6     | 1:1        | 0.735          | 0.412           | 0.06             | 24.09                | 25.00              | 1.233         | 0.906                 | 0.508                  | 22.0             |
| Left tilted  | RMC       | 4182/836.4     | 1:1        | 0.175          | 0.115           | -0.03            | 24.22                | 25.00              | 1.197         | 0.209                 | 0.138                  | 22.0             |
| Right cheek  | RMC       | 4182/836.4     | 1:1        | 0.759          | 0.380           | -0.15            | 24.22                | 25.00              | 1.197         | 0.908                 | 0.455                  | 22.0             |
| Right cheek  | RMC       | 4132/826.4     | 1:1        | 0.796          | 0.398           | 0.10             | 24.18                | 25.00              | 1.208         | 0.961                 | 0.481                  | 22.0             |
| Right cheek  | RMC       | 4233/846.6     | 1:1        | 0.797          | 0.403           | 0.12             | 24.09                | 25.00              | 1.233         | <b>0.983</b>          | 0.497                  | 22.0             |
| Right tilted   | RMC       | 4182/836.4     | 1:1        | 0.181          | 0.108           | 0.03             | 24.22                | 25.00              | 1.197         | 0.217                 | 0.129                  | 22.0             |
| Head Test Data at the worst case with Battery 2#   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Right cheek  | RMC       | 4233/846.6     | 1:1        | 0.780          | 0.394           | 0.12             | 24.09                | 25.00              | 1.233         | 0.962                 | 0.486                  | 22.0             |
| Body worn Test data(Separate 15mm)   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | RMC       | 4182/836.4     | 1:1        | 0.175          | 0.117           | 0.04             | 24.22                | 25.00              | 1.197         | 0.209                 | 0.140                  | 22.0             |
| Back side  | RMC       | 4182/836.4     | 1:1        | 0.256          | 0.164           | -0.01            | 24.22                | 25.00              | 1.197         | <b>0.306</b>          | 0.196                  | 22.0             |
| Body Test Data at the worst case with Battery 2#   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | RMC       | 4182/836.4     | 1:1        | 0.252          | 0.162           | -0.07            | 24.22                | 25.00              | 1.197         | 0.302                 | 0.194                  | 22.0             |
| Hotspot Test data(Separate 10mm)   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | RMC       | 4182/836.4     | 1:1        | 0.301          | 0.196           | 0.02             | 24.22                | 25.00              | 1.197         | 0.360                 | 0.235                  | 22.0             |
| Back side  | RMC       | 4182/836.4     | 1:1        | 0.412          | 0.273           | -0.07            | 24.22                | 25.00              | 1.197         | 0.493                 | 0.327                  | 22.0             |
| Left side  | RMC       | 4182/836.4     | 1:1        | 0.569          | 0.320           | 0.10             | 24.22                | 25.00              | 1.197         | <b>0.681</b>          | 0.383                  | 22.0             |
| Top side   | RMC       | 4182/836.4     | 1:1        | 0.021          | 0.015           | 0.17             | 24.22                | 25.00              | 1.197         | 0.025                 | 0.017                  | 22.0             |
| Body Test Data at the worst case with Battery 2#   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left side  | RMC       | 4182/836.4     | 1:1        | 0.564          | 0.317           | 0.07             | 24.22                | 25.00              | 1.197         | 0.675                 | 0.379                  | 22.0             |
| Ant 0 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on/WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Test position  | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek   | RMC       | 4182/836.4     | 1:1        | 0.389          | 0.201           | 0.06             | 21.98                | 22.70              | 1.180         | 0.459                 | 0.237                  | 22.0             |
| Right cheek  | RMC       | 4182/836.4     | 1:1        | 0.438          | 0.221           | 0.11             | 21.98                | 22.70              | 1.180         | 0.517                 | 0.261                  | 22.0             |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| Ant 1 Test Record                                |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
|--|-----------|----------------|------------|----------------|-----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------------|------------------|
| Test position                                    | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                                   |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek                                       | RMC       | 4182/836.4     | 1:1        | 0.207          | 0.160           | 0.06             | 24.31                | 25.00              | 1.172         | 0.243                 | 0.188                  | 22.0             |
| Left tilted                                      | RMC       | 4182/836.4     | 1:1        | 0.121          | 0.086           | 0.07             | 24.31                | 25.00              | 1.172         | 0.142                 | 0.101                  | 22.0             |
| Right cheek                                      | RMC       | 4182/836.4     | 1:1        | 0.271          | 0.199           | 0.09             | 24.31                | 25.00              | 1.172         | 0.318                 | 0.233                  | 22.0             |
| Right tilted                                     | RMC       | 4182/836.4     | 1:1        | 0.132          | 0.093           | 0.03             | 24.31                | 25.00              | 1.172         | 0.155                 | 0.109                  | 22.0             |
| Head Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Right cheek                                      | RMC       | 4182/836.4     | 1:1        | 0.300          | 0.222           | -0.03            | 24.31                | 25.00              | 1.172         | <b>0.352</b>          | 0.260                  | 22.0             |
| Body worn Test data(Separate 15mm)               |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side                                       | RMC       | 4182/836.4     | 1:1        | 0.187          | 0.121           | -0.03            | 22.71                | 23.40              | 1.172         | 0.219                 | 0.142                  | 22.0             |
| Back side  | RMC       | 4182/836.4     | 1:1        | 0.216          | 0.130           | 0.09             | 22.71                | 23.40              | 1.172         | <b>0.253</b>          | 0.152                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | RMC       | 4182/836.4     | 1:1        | 0.213          | 0.128           | 0.04             | 22.71                | 23.40              | 1.172         | 0.250                 | 0.150                  | 22.0             |
| Hotspot Test data(Separate 10mm)                 |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side                                       | RMC       | 4182/836.4     | 1:1        | 0.422          | 0.248           | -0.05            | 22.71                | 23.40              | 1.172         | 0.495                 | 0.291                  | 22.0             |
| Back side  | RMC       | 4182/836.4     | 1:1        | 0.507          | 0.297           | 0.02             | 22.71                | 23.40              | 1.172         | 0.594                 | 0.348                  | 22.0             |
| Left side  | RMC       | 4182/836.4     | 1:1        | 0.117          | 0.081           | 0.03             | 22.71                | 23.40              | 1.172         | 0.137                 | 0.095                  | 22.0             |
| Right side                                       | RMC       | 4182/836.4     | 1:1        | 0.433          | 0.299           | 0.06             | 22.71                | 23.40              | 1.172         | 0.508                 | 0.350                  | 22.0             |
| Bottom side                                      | RMC       | 4182/836.4     | 1:1        | 0.413          | 0.235           | 0.01             | 22.71                | 23.40              | 1.172         | 0.484                 | 0.275                  | 22.0             |
| Body Test Data at the worst case with Battery 2# |           |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | RMC       | 4182/836.4     | 1:1        | 0.538          | 0.313           | 0.02             | 22.71                | 23.40              | 1.172         | <b>0.631</b>          | 0.367                  | 22.0             |

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

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

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### 8.4.1 SAR Result of LTE Band 2

| Ant 2 Test Record                                     |           |            |                    |               |            |                |                 |                  |                      |                     |               |                       |                        |                  |
|---|-----------|------------|--------------------|---------------|------------|----------------|-----------------|------------------|----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode |            |                    | Test ch./Freq | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW        | Modulation | RB Size_ RB offset |               |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Head Test Data(1RB)                                   |           |            |                    |               |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 1_0                | 19100/1900    | 1:1        | 0.378          | 0.200           | -0.09            | 15.22                | 16.00               | 1.197         | 0.452                 | 0.239                  | 22.1             |
| Left tilted   | 20        | QPSK       | 1_0                | 19100/1900    | 1:1        | 0.438          | 0.221           | -0.04            | 15.22                | 16.00               | 1.197         | 0.524                 | 0.264                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1_0                | 19100/1900    | 1:1        | 0.629          | 0.291           | 0.03             | 15.22                | 16.00               | 1.197         | 0.753                 | 0.348                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1_0                | 19100/1900    | 1:1        | 0.734          | 0.338           | 0.05             | 15.22                | 16.00               | 1.197         | 0.878                 | 0.404                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1_0                | 18700/1860    | 1:1        | 0.643          | 0.298           | -0.06            | 15.16                | 16.00               | 1.213         | 0.780                 | 0.362                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1_50               | 18900/1880    | 1:1        | 0.714          | 0.329           | -0.01            | 15.20                | 16.00               | 1.202         | 0.858                 | 0.396                  | 22.1             |
| Head Test Data(50%RB)                                 |           |            |                    |               |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 50_50              | 18900/1880    | 1:1        | 0.372          | 0.197           | 0.02             | 15.26                | 16.00               | 1.186         | 0.441                 | 0.234                  | 22.1             |
| Left tilted   | 20        | QPSK       | 50_50              | 18900/1880    | 1:1        | 0.443          | 0.224           | -0.08            | 15.26                | 16.00               | 1.186         | 0.525                 | 0.266                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50_50              | 18900/1880    | 1:1        | 0.540          | 0.276           | -0.05            | 15.26                | 16.00               | 1.186         | 0.640                 | 0.327                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50_50              | 18900/1880    | 1:1        | 0.749          | 0.345           | 0.03             | 15.26                | 16.00               | 1.186         | 0.888                 | 0.409                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50_0               | 18700/1860    | 1:1        | 0.671          | 0.310           | -0.02            | 15.19                | 16.00               | 1.205         | 0.809                 | 0.374                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50_50              | 19100/1900    | 1:1        | 0.765          | 0.351           | 0.04             | 15.18                | 16.00               | 1.208         | <b>0.924</b>          | 0.424                  | 22.1             |
| Head Test Data(100%RB)                                |           |            |                    |               |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Right tilted  | 20        | QPSK       | 100_0              | 19100/1900    | 1:1        | 0.760          | 0.349           | 0.05             | 15.26                | 16.00               | 1.186         | 0.901                 | 0.414                  | 22.1             |
| Head Test Data at the worst case with Battery 2#      |           |            |                    |               |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Right tilted  | 20        | QPSK       | 50_50              | 19100/1900    | 1:1        | 0.742          | 0.341           | 0.02             | 15.18                | 16.00               | 1.208         | 0.896                 | 0.412                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)                |           |            |                    |               |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1_99               | 19100/1900    | 1:1        | 0.160          | 0.095           | 0.02             | 18.61                | 19.10               | 1.119         | 0.179                 | 0.106                  | 22.1             |
| Back side   | 20        | QPSK       | 1_99               | 19100/1900    | 1:1        | 0.201          | 0.118           | 0.04             | 18.61                | 19.10               | 1.119         | 0.225                 | 0.132                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)              |           |            |                    |               |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50_50              | 19100/1900    | 1:1        | 0.158          | 0.094           | 0.06             | 18.49                | 19.10               | 1.151         | 0.182                 | 0.108                  | 22.1             |
| Back side   | 20        | QPSK       | 50_50              | 19100/1900    | 1:1        | 0.203          | 0.120           | 0.07             | 18.49                | 19.10               | 1.151         | <b>0.234</b>          | 0.138                  | 22.1             |
| Body worn Test data at the worst case with Battery 2# |           |            |                    |               |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Back side   | 20        | QPSK       | 50_50              | 19100/1900    | 1:1        | 0.195          | 0.115           | 0.03             | 18.49                | 19.10               | 1.151         | 0.224                 | 0.132                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)                  |           |            |                    |               |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1_99               | 19100/1900    | 1:1        | 0.290          | 0.167           | 0.01             | 18.61                | 19.10               | 1.119         | 0.325                 | 0.187                  | 22.1             |
| Back side   | 20        | QPSK       | 1_99               | 19100/1900    | 1:1        | 0.435          | 0.242           | 0.06             | 18.61                | 19.10               | 1.119         | 0.487                 | 0.271                  | 22.1             |
| Left side   | 20        | QPSK       | 1_99               | 19100/1900    | 1:1        | 0.056          | 0.031           | 0.02             | 18.61                | 19.10               | 1.119         | 0.062                 | 0.034                  | 22.1             |
| Top side  | 20        | QPSK       | 1_99               | 19100/1900    | 1:1        | 0.543          | 0.284           | -0.01            | 18.61                | 19.10               | 1.119         | 0.608                 | 0.318                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)                |           |            |                    |               |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50_50              | 19100/1900    | 1:1        | 0.293          | 0.169           | 0.02             | 18.49                | 19.10               | 1.151         | 0.337                 | 0.194                  | 22.1             |
| Back side   | 20        | QPSK       | 50_50              | 19100/1900    | 1:1        | 0.444          | 0.247           | 0.01             | 18.49                | 19.10               | 1.151         | 0.511                 | 0.284                  | 22.1             |
| Left side   | 20        | QPSK       | 50_50              | 19100/1900    | 1:1        | 0.056          | 0.031           | 0.00             | 18.49                | 19.10               | 1.151         | 0.064                 | 0.036                  | 22.1             |
| Top side  | 20        | QPSK       | 50_50              | 19100/1900    | 1:1        | 0.551          | 0.288           | -0.08            | 18.49                | 19.10               | 1.151         | <b>0.634</b>          | 0.331                  | 22.1             |
| Body Test Data at the worst case with Battery 2#      |           |            |                    |               |            |                |                 |                  |                      |                     |               |                       |                        |                  |
| Top side  | 20        | QPSK       | 50_50              | 19100/1900    | 1:1        | 0.535          | 0.280           | -0.02            | 18.49                | 19.10               | 1.151         | 0.616                 | 0.322                  | 22.1             |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| Ant 3 Test Record                                     |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|---|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)                                   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.064          | 0.039           | 0.05             | 22.78                 | 23.00               | 1.052         | 0.067                 | 0.041                  | 22.1             |
| Left tilted   | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.065          | 0.037           | 0.04             | 22.78                 | 23.00               | 1.052         | 0.069                 | 0.039                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.087          | 0.060           | -0.02            | 22.78                 | 23.00               | 1.052         | 0.092                 | 0.063                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.068          | 0.039           | 0.15             | 22.78                 | 23.00               | 1.052         | 0.072                 | 0.041                  | 22.1             |
| Head Test Data(50%RB)                                 |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 50_50              | 18900/1880     | 1:1        | 0.063          | 0.039           | 0.03             | 21.69                 | 22.00               | 1.074         | 0.068                 | 0.042                  | 22.1             |
| Left tilted   | 20        | QPSK       | 50_50              | 18900/1880     | 1:1        | 0.065          | 0.037           | -0.02            | 21.69                 | 22.00               | 1.074         | 0.069                 | 0.039                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50_50              | 18900/1880     | 1:1        | 0.082          | 0.055           | 0.03             | 21.69                 | 22.00               | 1.074         | 0.088                 | 0.059                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50_50              | 18900/1880     | 1:1        | 0.071          | 0.039           | 0.12             | 21.69                 | 22.00               | 1.074         | 0.076                 | 0.042                  | 22.1             |
| Head Test Data at the worst case with Battery 2#      |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek   | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.131          | 0.086           | 0.07             | 22.78                 | 23.00               | 1.052         | <b>0.138</b>          | 0.090                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)                |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.088          | 0.053           | -0.02            | 22.78                 | 23.00               | 1.052         | 0.092                 | 0.056                  | 22.1             |
| Back side   | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.111          | 0.074           | -0.08            | 22.78                 | 23.00               | 1.052         | <b>0.117</b>          | 0.078                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)              |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50_50              | 18900/1880     | 1:1        | 0.085          | 0.051           | 0.06             | 21.69                 | 22.00               | 1.074         | 0.091                 | 0.055                  | 22.1             |
| Back side   | 20        | QPSK       | 50_50              | 18900/1880     | 1:1        | 0.105          | 0.069           | -0.07            | 21.69                 | 22.00               | 1.074         | 0.113                 | 0.074                  | 22.1             |
| Body worn Test data at the worst case with Battery 2# |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side   | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.107          | 0.072           | 0.04             | 22.78                 | 23.00               | 1.052         | 0.113                 | 0.075                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)                  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.153          | 0.090           | 0.01             | 22.78                 | 23.00               | 1.052         | 0.161                 | 0.094                  | 22.1             |
| Back side   | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.173          | 0.107           | -0.02            | 22.78                 | 23.00               | 1.052         | 0.182                 | 0.113                  | 22.1             |
| Left side   | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.039          | 0.022           | 0.08             | 22.78                 | 23.00               | 1.052         | 0.041                 | 0.023                  | 22.1             |
| Right side  | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.192          | 0.112           | -0.14            | 22.78                 | 23.00               | 1.052         | 0.202                 | 0.118                  | 22.1             |
| Bottom side   | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.209          | 0.112           | 0.04             | 22.78                 | 23.00               | 1.052         | <b>0.220</b>          | 0.118                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)                |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50_50              | 18900/1880     | 1:1        | 0.146          | 0.085           | -0.06            | 21.69                 | 22.00               | 1.074         | 0.157                 | 0.092                  | 22.1             |
| Back side   | 20        | QPSK       | 50_50              | 18900/1880     | 1:1        | 0.162          | 0.099           | -0.02            | 21.69                 | 22.00               | 1.074         | 0.174                 | 0.106                  | 22.1             |
| Left side   | 20        | QPSK       | 50_50              | 18900/1880     | 1:1        | 0.037          | 0.020           | -0.03            | 21.69                 | 22.00               | 1.074         | 0.040                 | 0.022                  | 22.1             |
| Right side  | 20        | QPSK       | 50_50              | 18900/1880     | 1:1        | 0.176          | 0.102           | -0.11            | 21.69                 | 22.00               | 1.074         | 0.189                 | 0.110                  | 22.1             |
| Bottom side   | 20        | QPSK       | 50_50              | 18900/1880     | 1:1        | 0.186          | 0.099           | 0.09             | 21.69                 | 22.00               | 1.074         | 0.200                 | 0.106                  | 22.1             |
| Body Test Data at the worst case with Battery 2#      |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Bottom side   | 20        | QPSK       | 1_0                | 18700/1860     | 1:1        | 0.201          | 0.108           | 0.11             | 22.78                 | 23.00               | 1.052         | 0.211                 | 0.114                  | 22.1             |

Table 30: SAR of LTE Band 2 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

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### 8.4.2 SAR Result of LTE Band 4

| Ant 2 Test Record   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|---|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-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        | 0.338          | 0.169           | 0.02             | 15.28                 | 16.00               | 1.180         | 0.399                 | 0.199                  | 22.1             |
| Left tilted   | 20        | QPSK       | 1 50               | 20175/1732.5   | 1:1        | 0.525          | 0.260           | 0.17             | 15.28                 | 16.00               | 1.180         | 0.620                 | 0.307                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1 50               | 20175/1732.5   | 1:1        | 0.452          | 0.210           | 0.16             | 15.28                 | 16.00               | 1.180         | 0.534                 | 0.248                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 50               | 20175/1732.5   | 1:1        | 0.692          | 0.321           | 0.08             | 15.28                 | 16.00               | 1.180         | 0.817                 | 0.379                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 0                | 20050/1720     | 1:1        | 0.712          | 0.334           | -0.07            | 15.28                 | 16.00               | 1.180         | <b>0.840</b>          | 0.394                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 50               | 20300/1745     | 1:1        | 0.584          | 0.251           | 0.04             | 15.15                 | 16.00               | 1.216         | 0.710                 | 0.305                  | 22.1             |
| Head Test Data(50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 50 25              | 20050/1720     | 1:1        | 0.336          | 0.169           | 0.11             | 15.34                 | 16.00               | 1.164         | 0.391                 | 0.197                  | 22.1             |
| Left tilted   | 20        | QPSK       | 50 25              | 20050/1720     | 1:1        | 0.529          | 0.261           | 0.08             | 15.34                 | 16.00               | 1.164         | 0.616                 | 0.304                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 25              | 20050/1720     | 1:1        | 0.458          | 0.213           | 0.19             | 15.34                 | 16.00               | 1.164         | 0.533                 | 0.248                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 25              | 20050/1720     | 1:1        | 0.692          | 0.320           | 0.02             | 15.34                 | 16.00               | 1.164         | 0.806                 | 0.373                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 50              | 20175/1732.5   | 1:1        | 0.593          | 0.255           | 0.19             | 15.25                 | 16.00               | 1.189         | 0.705                 | 0.303                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 25              | 20300/1745     | 1:1        | 0.594          | 0.256           | 0.07             | 15.21                 | 16.00               | 1.199         | 0.713                 | 0.307                  | 22.1             |
| Head Test Data(100%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right tilted  | 20        | QPSK       | 100 0              | 20175/1732.5   | 1:1        | 0.586          | 0.252           | 0.17             | 15.21                 | 16.00               | 1.199         | 0.703                 | 0.302                  | 22.1             |
| Head Test Data at the worst case with Battery 2#  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right tilted  | 20        | QPSK       | 1 0                | 20050/1720     | 1:1        | 0.685          | 0.322           | -0.09            | 15.28                 | 16.00               | 1.180         | 0.809                 | 0.380                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1 0                | 20050/1720     | 1:1        | 0.133          | 0.078           | -0.03            | 18.80                 | 19.20               | 1.096         | 0.146                 | 0.086                  | 22.1             |
| Back side   | 20        | QPSK       | 1 0                | 20050/1720     | 1:1        | 0.176          | 0.103           | 0.00             | 18.80                 | 19.20               | 1.096         | 0.193                 | 0.113                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50 0               | 20050/1720     | 1:1        | 0.137          | 0.080           | 0.12             | 18.69                 | 19.20               | 1.125         | 0.154                 | 0.090                  | 22.1             |
| Back side   | 20        | QPSK       | 50 0               | 20050/1720     | 1:1        | 0.182          | 0.107           | 0.16             | 18.69                 | 19.20               | 1.125         | <b>0.205</b>          | 0.120                  | 22.1             |
| Body worn Test data at the worst case with Battery 2#   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side   | 20        | QPSK       | 50 0               | 20050/1720     | 1:1        | 0.175          | 0.103           | 0.14             | 18.69                 | 19.20               | 1.125         | 0.197                 | 0.116                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1 0                | 20050/1720     | 1:1        | 0.245          | 0.139           | 0.05             | 18.80                 | 19.20               | 1.096         | 0.269                 | 0.152                  | 22.1             |
| Back side   | 20        | QPSK       | 1 0                | 20050/1720     | 1:1        | 0.381          | 0.213           | 0.06             | 18.80                 | 19.20               | 1.096         | 0.418                 | 0.234                  | 22.1             |
| Left side   | 20        | QPSK       | 1 0                | 20050/1720     | 1:1        | 0.054          | 0.032           | 0.02             | 18.80                 | 19.20               | 1.096         | 0.059                 | 0.035                  | 22.1             |
| Top side  | 20        | QPSK       | 1 0                | 20050/1720     | 1:1        | 0.434          | 0.232           | -0.07            | 18.80                 | 19.20               | 1.096         | 0.476                 | 0.254                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50 0               | 20050/1720     | 1:1        | 0.258          | 0.145           | 0.05             | 18.69                 | 19.20               | 1.125         | 0.290                 | 0.163                  | 22.1             |
| Back side   | 20        | QPSK       | 50 0               | 20050/1720     | 1:1        | 0.403          | 0.225           | 0.02             | 18.69                 | 19.20               | 1.125         | 0.453                 | 0.253                  | 22.1             |
| Left side   | 20        | QPSK       | 50 0               | 20050/1720     | 1:1        | 0.054          | 0.032           | -0.01            | 18.69                 | 19.20               | 1.125         | 0.061                 | 0.036                  | 22.1             |
| Top side  | 20        | QPSK       | 50 0               | 20050/1720     | 1:1        | 0.453          | 0.241           | -0.04            | 18.69                 | 19.20               | 1.125         | <b>0.509</b>          | 0.271                  | 22.1             |
| Body Test Data at the worst case with Battery 2#  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side  | 20        | QPSK       | 50 0               | 20050/1720     | 1:1        | 0.436          | 0.232           | 0.01             | 18.69                 | 19.20               | 1.125         | 0.490                 | 0.261                  | 22.1             |
| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on) |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position   | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left tilted   | 20        | QPSK       | 1 50               | 20175/1732.5   | 1:1        | 0.343          | 0.168           | -0.13            | 13.46                 | 14.20               | 1.186         | 0.407                 | 0.199                  | 22.1             |
| Head Test Data(50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left tilted   | 20        | QPSK       | 50 25              | 20050/1720     | 1:1        | 0.348          | 0.170           | 0.14             | 13.57                 | 14.20               | 1.156         | 0.402                 | 0.197                  | 22.1             |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on) |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|--|-----------|------------|--------------------|---------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position  | Test mode |            |                    | Test ch./Freq | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm)  | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW        | Modulation | RB Size_ RB offset |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)  |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left tilted  | 20        | QPSK       | 1 50               | 20175/1732.5  | 1:1        | 0.433          | 0.212           | -0.09            | 14.51                 | 15.20               | 1.172         | 0.508                 | 0.249                  | 22.1             |
| Head Test Data(50%RB)  |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left tilted  | 20        | QPSK       | 50 25              | 20050/1720    | 1:1        | 0.437          | 0.210           | 0.07             | 14.58                 | 15.20               | 1.153         | 0.504                 | 0.242                  | 22.1             |
| Ant 3 Test Record  |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode |            |                    | Test ch./Freq | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW        | Modulation | RB Size_ RB offset |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)  |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.026          | 0.018           | 0.01             | 23.02                 | 23.20               | 1.042         | 0.027                 | 0.019                  | 22.1             |
| Left tilted  | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.032          | 0.020           | -0.13            | 23.02                 | 23.20               | 1.042         | 0.033                 | 0.021                  | 22.1             |
| Right cheek  | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.197          | 0.133           | 0.08             | 23.02                 | 23.20               | 1.042         | <b>0.205</b>          | 0.139                  | 22.1             |
| Right tilted   | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.139          | 0.086           | 0.02             | 23.02                 | 23.20               | 1.042         | 0.145                 | 0.090                  | 22.1             |
| Head Test Data(50%RB)  |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 50 0               | 20050/1720    | 1:1        | 0.018          | 0.012           | 0.02             | 21.93                 | 22.20               | 1.064         | 0.019                 | 0.012                  | 22.1             |
| Left tilted  | 20        | QPSK       | 50 0               | 20050/1720    | 1:1        | 0.024          | 0.015           | 0.07             | 21.93                 | 22.20               | 1.064         | 0.026                 | 0.016                  | 22.1             |
| Right cheek  | 20        | QPSK       | 50 0               | 20050/1720    | 1:1        | 0.045          | 0.030           | 0.01             | 21.93                 | 22.20               | 1.064         | 0.048                 | 0.031                  | 22.1             |
| Right tilted   | 20        | QPSK       | 50 0               | 20050/1720    | 1:1        | 0.031          | 0.019           | 0.04             | 21.93                 | 22.20               | 1.064         | 0.032                 | 0.020                  | 22.1             |
| Head Test Data at the worst case with Battery 2#   |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek  | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.194          | 0.130           | 0.02             | 23.02                 | 23.20               | 1.042         | 0.202                 | 0.136                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)   |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.069          | 0.040           | -0.04            | 23.02                 | 23.20               | 1.042         | 0.072                 | 0.042                  | 22.1             |
| Back side  | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.160          | 0.108           | 0.07             | 23.02                 | 23.20               | 1.042         | <b>0.167</b>          | 0.113                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)   |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 50 0               | 20050/1720    | 1:1        | 0.059          | 0.034           | -0.08            | 21.93                 | 22.20               | 1.064         | 0.063                 | 0.036                  | 22.1             |
| Back side  | 20        | QPSK       | 50 0               | 20050/1720    | 1:1        | 0.129          | 0.082           | 0.09             | 21.93                 | 22.20               | 1.064         | 0.137                 | 0.087                  | 22.1             |
| Body worn Test data at the worst case with Battery 2#  |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side  | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.157          | 0.106           | 0.01             | 23.02                 | 23.20               | 1.042         | 0.164                 | 0.110                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)   |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.251          | 0.155           | -0.06            | 23.02                 | 23.20               | 1.042         | 0.262                 | 0.162                  | 22.1             |
| Back side  | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.222          | 0.141           | 0.06             | 23.02                 | 23.20               | 1.042         | 0.231                 | 0.147                  | 22.1             |
| Left side  | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.015          | 0.009           | 0.18             | 23.02                 | 23.20               | 1.042         | 0.015                 | 0.009                  | 22.1             |
| Right side   | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.075          | 0.046           | 0.02             | 23.02                 | 23.20               | 1.042         | 0.078                 | 0.048                  | 22.1             |
| Bottom side  | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.282          | 0.152           | -0.08            | 23.02                 | 23.20               | 1.042         | <b>0.294</b>          | 0.158                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 50 0               | 20050/1720    | 1:1        | 0.199          | 0.124           | 0.03             | 21.93                 | 22.20               | 1.064         | 0.212                 | 0.132                  | 22.1             |
| Back side  | 20        | QPSK       | 50 0               | 20050/1720    | 1:1        | 0.180          | 0.114           | 0.06             | 21.93                 | 22.20               | 1.064         | 0.192                 | 0.121                  | 22.1             |
| Left side  | 20        | QPSK       | 50 0               | 20050/1720    | 1:1        | 0.012          | 0.007           | 0.03             | 21.93                 | 22.20               | 1.064         | 0.013                 | 0.008                  | 22.1             |
| Right side   | 20        | QPSK       | 50 0               | 20050/1720    | 1:1        | 0.058          | 0.035           | -0.17            | 21.93                 | 22.20               | 1.064         | 0.062                 | 0.037                  | 22.1             |
| Bottom side  | 20        | QPSK       | 50 0               | 20050/1720    | 1:1        | 0.231          | 0.124           | -0.06            | 21.93                 | 22.20               | 1.064         | 0.246                 | 0.132                  | 22.1             |
| Body Test Data at the worst case with Battery 2#   |           |            |                    |               |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Bottom side  | 20        | QPSK       | 1 0                | 20175/1732.5  | 1:1        | 0.277          | 0.149           | -0.10            | 23.02                 | 23.20               | 1.042         | 0.289                 | 0.155                  | 22.1             |

Table 31: SAR of LTE Band 4 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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### 8.4.3 SAR Result of LTE Band 5

| Ant 0 Test Record   |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|---|-----------|------------|-------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode |            |                   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-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        | 0.536          | 0.302           | -0.03            | 23.14                 | 24.30               | 1.306         | 0.700                 | 0.394                  | 22.1             |
| Left tilted   | 10        | QPSK       | 1 0               | 20525/836.5    | 1:1        | 0.114          | 0.076           | 0.19             | 23.14                 | 24.30               | 1.306         | 0.149                 | 0.100                  | 22.1             |
| Right cheek   | 10        | QPSK       | 1 0               | 20525/836.5    | 1:1        | 0.685          | 0.347           | 0.17             | 23.14                 | 24.30               | 1.306         | 0.895                 | 0.453                  | 22.1             |
| Right cheek   | 10        | QPSK       | 1 0               | 20450/829      | 1:1        | 0.720          | 0.365           | 0.14             | 22.96                 | 24.30               | 1.361         | 0.980                 | 0.497                  | 22.1             |
| Right cheek   | 10        | QPSK       | 1 49              | 20600/844      | 1:1        | 0.724          | 0.367           | 0.14             | 22.86                 | 24.30               | 1.393         | <b>1.009</b>          | 0.511                  | 22.1             |
| Right tilted  | 10        | QPSK       | 1 0               | 20525/836.5    | 1:1        | 0.136          | 0.091           | 0.07             | 23.14                 | 24.30               | 1.306         | 0.178                 | 0.119                  | 22.1             |
| Head Test Data(50%RB)   |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 25 13             | 20450/829      | 1:1        | 0.470          | 0.265           | 0.15             | 22.65                 | 23.30               | 1.161         | 0.546                 | 0.308                  | 22.1             |
| Left tilted   | 10        | QPSK       | 25 13             | 20450/829      | 1:1        | 0.099          | 0.066           | 0.18             | 22.65                 | 23.30               | 1.161         | 0.115                 | 0.077                  | 22.1             |
| Right cheek   | 10        | QPSK       | 25 13             | 20450/829      | 1:1        | 0.681          | 0.343           | -0.08            | 22.65                 | 23.30               | 1.161         | 0.791                 | 0.398                  | 22.1             |
| Right tilted  | 10        | QPSK       | 25 13             | 20450/829      | 1:1        | 0.135          | 0.090           | 0.01             | 22.65                 | 23.30               | 1.161         | 0.157                 | 0.105                  | 22.1             |
| Head Test Data(100%RB)  |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek   | 10        | QPSK       | 50 0              | 20525/836.5    | 1:1        | 0.656          | 0.332           | 0.18             | 22.60                 | 23.30               | 1.175         | 0.771                 | 0.390                  | 22.1             |
| Head Test Data at the worst case with Battery 2#  |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek   | 10        | QPSK       | 1 49              | 20600/844      | 1:1        | 0.693          | 0.351           | 0.11             | 22.86                 | 24.30               | 1.393         | 0.965                 | 0.489                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)  |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 10        | QPSK       | 1 25              | 20450/829      | 1:1        | 0.121          | 0.082           | 0.18             | 22.55                 | 23.50               | 1.245         | 0.151                 | 0.101                  | 22.1             |
| Back side   | 10        | QPSK       | 1 25              | 20450/829      | 1:1        | 0.181          | 0.117           | 0.06             | 22.55                 | 23.50               | 1.245         | <b>0.225</b>          | 0.146                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)  |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 10        | QPSK       | 25 13             | 20600/844      | 1:1        | 0.119          | 0.080           | 0.02             | 22.46                 | 23.50               | 1.271         | 0.151                 | 0.102                  | 22.1             |
| Back side   | 10        | QPSK       | 25 13             | 20600/844      | 1:1        | 0.174          | 0.112           | 0.02             | 22.46                 | 23.50               | 1.271         | 0.221                 | 0.142                  | 22.1             |
| Body worn Test data at the worst case with Battery 2#   |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side   | 10        | QPSK       | 1 25              | 20450/829      | 1:1        | 0.177          | 0.114           | 0.01             | 22.55                 | 23.50               | 1.245         | 0.220                 | 0.142                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)  |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 10        | QPSK       | 1 25              | 20450/829      | 1:1        | 0.229          | 0.149           | 0.12             | 22.55                 | 23.50               | 1.245         | 0.285                 | 0.185                  | 22.1             |
| Back side   | 10        | QPSK       | 1 25              | 20450/829      | 1:1        | 0.332          | 0.203           | 0.01             | 22.55                 | 23.50               | 1.245         | 0.413                 | 0.253                  | 22.1             |
| Left side   | 10        | QPSK       | 1 25              | 20450/829      | 1:1        | 0.447          | 0.247           | 0.07             | 22.55                 | 23.50               | 1.245         | <b>0.556</b>          | 0.307                  | 22.1             |
| Top side  | 10        | QPSK       | 1 25              | 20450/829      | 1:1        | 0.014          | 0.010           | 0.18             | 22.55                 | 23.50               | 1.245         | 0.018                 | 0.012                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)  |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 10        | QPSK       | 25 13             | 20600/844      | 1:1        | 0.228          | 0.148           | 0.07             | 22.46                 | 23.50               | 1.271         | 0.290                 | 0.188                  | 22.1             |
| Back side   | 10        | QPSK       | 25 13             | 20600/844      | 1:1        | 0.321          | 0.195           | -0.01            | 22.46                 | 23.50               | 1.271         | 0.408                 | 0.248                  | 22.1             |
| Left side   | 10        | QPSK       | 25 13             | 20600/844      | 1:1        | 0.437          | 0.243           | 0.01             | 22.46                 | 23.50               | 1.271         | 0.555                 | 0.309                  | 22.1             |
| Top side  | 10        | QPSK       | 25 13             | 20600/844      | 1:1        | 0.017          | 0.012           | 0.04             | 22.46                 | 23.50               | 1.271         | 0.022                 | 0.015                  | 22.1             |
| Body Test Data at the worst case with Battery 2#  |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left side   | 10        | QPSK       | 1 25              | 20450/829      | 1:1        | 0.438          | 0.241           | 0.07             | 22.55                 | 23.50               | 1.245         | 0.545                 | 0.300                  | 22.1             |
| Ant 0 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on/WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on) |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position   | Test mode |            |                   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW        | Modulation | RB Size RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)   |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 1 49              | 20600/844      | 1:1        | 0.325          | 0.182           | -0.01            | 20.98                 | 22.20               | 1.324         | 0.430                 | 0.241                  | 22.1             |
| Right cheek   | 10        | QPSK       | 1 49              | 20600/844      | 1:1        | 0.446          | 0.226           | 0.03             | 20.98                 | 22.20               | 1.324         | 0.591                 | 0.299                  | 22.1             |
| Head Test Data(50%RB)   |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 25 13             | 20450/829      | 1:1        | 0.351          | 0.201           | 0.11             | 21.11                 | 22.20               | 1.285         | 0.451                 | 0.258                  | 22.1             |
| Right cheek   | 10        | QPSK       | 25 13             | 20450/829      | 1:1        | 0.529          | 0.266           | 0.05             | 21.11                 | 22.20               | 1.285         | 0.680                 | 0.342                  | 22.1             |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| Ant 1 Test Record                                      |           |            |                    |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
|--|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------------|------------------|
| Test position  | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Head Test Data(1RB)                                    |           |            |                    |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek   | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.159          | 0.126           | 0.06             | 24.10                | 25.00              | 1.230         | 0.196                 | 0.155                  | 22.1             |
| Left tilted  | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.096          | 0.068           | 0.03             | 24.10                | 25.00              | 1.230         | 0.118                 | 0.084                  | 22.1             |
| Right cheek  | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.228          | 0.173           | -0.07            | 24.10                | 25.00              | 1.230         | <b>0.281</b>          | 0.213                  | 22.1             |
| Right tilted   | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.125          | 0.098           | 0.04             | 24.10                | 25.00              | 1.230         | 0.154                 | 0.121                  | 22.1             |
| Head Test Data(50%RB)                                  |           |            |                    |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek   | 10        | QPSK       | 25 25              | 20450/829      | 1:1        | 0.128          | 0.090           | 0.08             | 23.16                | 24.00              | 1.213         | 0.155                 | 0.109                  | 22.1             |
| Left tilted  | 10        | QPSK       | 25 25              | 20450/829      | 1:1        | 0.080          | 0.057           | 0.04             | 23.16                | 24.00              | 1.213         | 0.097                 | 0.069                  | 22.1             |
| Right cheek  | 10        | QPSK       | 25 25              | 20450/829      | 1:1        | 0.191          | 0.145           | 0.07             | 23.16                | 24.00              | 1.213         | 0.232                 | 0.176                  | 22.1             |
| Right tilted   | 10        | QPSK       | 25 25              | 20450/829      | 1:1        | 0.100          | 0.079           | 0.01             | 23.16                | 24.00              | 1.213         | 0.121                 | 0.096                  | 22.1             |
| Head Test Data at the worst case with Battery 2#       |           |            |                    |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Right cheek  | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.218          | 0.165           | -0.14            | 24.10                | 25.00              | 1.230         | 0.268                 | 0.203                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)                 |           |            |                    |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.201          | 0.154           | -0.06            | 22.76                | 23.80              | 1.271         | 0.255                 | 0.196                  | 22.1             |
| Back side  | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.209          | 0.129           | 0.11             | 22.76                | 23.80              | 1.271         | <b>0.266</b>          | 0.164                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)               |           |            |                    |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 10        | QPSK       | 25 25              | 20450/829      | 1:1        | 0.162          | 0.124           | 0.02             | 22.93                | 23.80              | 1.222         | 0.198                 | 0.152                  | 22.1             |
| Back side  | 10        | QPSK       | 25 25              | 20450/829      | 1:1        | 0.171          | 0.105           | 0.10             | 22.93                | 23.80              | 1.222         | 0.209                 | 0.128                  | 22.1             |
| Body worn Test data at the worst case with Battery 2#  |           |            |                    |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.208          | 0.121           | 0.14             | 22.76                | 23.80              | 1.271         | 0.264                 | 0.154                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)                   |           |            |                    |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.388          | 0.226           | -0.01            | 22.76                | 23.80              | 1.271         | 0.493                 | 0.287                  | 22.1             |
| Back side  | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.425          | 0.250           | 0.08             | 22.76                | 23.80              | 1.271         | <b>0.540</b>          | 0.318                  | 22.1             |
| Left side  | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.090          | 0.063           | 0.18             | 22.76                | 23.80              | 1.271         | 0.114                 | 0.080                  | 22.1             |
| Right side   | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.369          | 0.252           | 0.15             | 22.76                | 23.80              | 1.271         | 0.469                 | 0.320                  | 22.1             |
| Bottom side  | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.356          | 0.204           | 0.08             | 22.76                | 23.80              | 1.271         | 0.452                 | 0.259                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)                 |           |            |                    |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 10        | QPSK       | 25 25              | 20450/829      | 1:1        | 0.309          | 0.201           | -0.04            | 22.93                | 23.80              | 1.222         | 0.378                 | 0.246                  | 22.1             |
| Back side  | 10        | QPSK       | 25 25              | 20450/829      | 1:1        | 0.352          | 0.235           | 0.19             | 22.93                | 23.80              | 1.222         | 0.430                 | 0.287                  | 22.1             |
| Left side  | 10        | QPSK       | 25 25              | 20450/829      | 1:1        | 0.073          | 0.051           | -0.02            | 22.93                | 23.80              | 1.222         | 0.089                 | 0.063                  | 22.1             |
| Right side   | 10        | QPSK       | 25 25              | 20450/829      | 1:1        | 0.300          | 0.205           | 0.16             | 22.93                | 23.80              | 1.222         | 0.367                 | 0.250                  | 22.1             |
| Bottom side  | 10        | QPSK       | 25 25              | 20450/829      | 1:1        | 0.290          | 0.166           | 0.04             | 22.93                | 23.80              | 1.222         | 0.354                 | 0.203                  | 22.1             |
| Body Test Data at the worst case with Battery 2#(10mm) |           |            |                    |                |            |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | 10        | QPSK       | 1 25               | 20450/829      | 1:1        | 0.413          | 0.244           | 0.09             | 22.76                | 23.80              | 1.271         | 0.525                 | 0.310                  | 22.1             |

Table 32: SAR of LTE Band 5 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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### 8.4.4 SAR Result of LTE Band 7

| Ant 0 Test Record  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|--|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position  | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW.       | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.252          | 0.127           | -0.08            | 16.45                 | 17.20               | 1.189         | 0.300                 | 0.151                  | 22.1             |
| Left tilted  | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.050          | 0.021           | 0.00             | 16.45                 | 17.20               | 1.189         | 0.059                 | 0.024                  | 22.1             |
| Right cheek  | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.627          | 0.264           | 0.00             | 16.45                 | 17.20               | 1.189         | 0.745                 | 0.314                  | 22.1             |
| Right tilted   | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.178          | 0.080           | 0.15             | 16.45                 | 17.20               | 1.189         | 0.212                 | 0.095                  | 22.1             |
| Head Test Data(50%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 50 25              | 21100/2535     | 1:1        | 0.255          | 0.128           | -0.01            | 16.57                 | 17.20               | 1.156         | 0.295                 | 0.148                  | 22.1             |
| Left tilted  | 20        | QPSK       | 50 25              | 21100/2535     | 1:1        | 0.052          | 0.022           | 0.01             | 16.57                 | 17.20               | 1.156         | 0.060                 | 0.025                  | 22.1             |
| Right cheek  | 20        | QPSK       | 50 25              | 21100/2535     | 1:1        | 0.642          | 0.269           | 0.00             | 16.57                 | 17.20               | 1.156         | 0.742                 | 0.311                  | 22.1             |
| Right tilted   | 20        | QPSK       | 50 25              | 21100/2535     | 1:1        | 0.180          | 0.083           | -0.04            | 16.57                 | 17.20               | 1.156         | 0.208                 | 0.095                  | 22.1             |
| Head Test Data at the worst case with Battery 2#   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek  | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.635          | 0.266           | 0.00             | 16.45                 | 17.20               | 1.189         | <b>0.755</b>          | 0.316                  | 22.1             |
| Right cheek  | 20        | QPSK       | PCC 1 0            | 21100/2535     | 1:1        | 0.626          | 0.263           | -0.03            | 16.42                 | 17.20               | 1.197         | 0.749                 | 0.315                  | 22.1             |
|  |           |            | SCC 0 0            | 21298/2554.8   |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Body worn Test data(Separate 15mm 1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.144          | 0.075           | -0.07            | 21.44                 | 22.10               | 1.164         | 0.168                 | 0.087                  | 22.1             |
| Back side  | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.359          | 0.178           | -0.13            | 21.44                 | 22.10               | 1.164         | <b>0.418</b>          | 0.207                  | 22.1             |
| Back side  | 20        | QPSK       | PCC 1 0            | 21100/2535     | 1:1        | 0.352          | 0.174           | -0.02            | 21.43                 | 22.10               | 1.167         | 0.411                 | 0.203                  | 22.1             |
|  |           |            | SCC 0 0            | 21298/2554.8   |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Body worn Test data(Separate 15mm 50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 50 25              | 21350/2560     | 1:1        | 0.141          | 0.073           | -0.05            | 21.39                 | 22.10               | 1.178         | 0.166                 | 0.086                  | 22.1             |
| Back side  | 20        | QPSK       | 50 25              | 21350/2560     | 1:1        | 0.326          | 0.159           | -0.08            | 21.39                 | 22.10               | 1.178         | 0.384                 | 0.187                  | 22.1             |
| Body worn Test data at the worst case with Battery 2#  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side  | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.356          | 0.176           | -0.03            | 21.44                 | 22.10               | 1.164         | 0.414                 | 0.205                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.282          | 0.141           | 0.03             | 21.44                 | 22.10               | 1.164         | 0.328                 | 0.164                  | 22.1             |
| Back side  | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.661          | 0.301           | -0.04            | 21.44                 | 22.10               | 1.164         | 0.769                 | 0.350                  | 22.1             |
| Left side  | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.696          | 0.300           | -0.02            | 21.44                 | 22.10               | 1.164         | 0.810                 | 0.349                  | 22.1             |
| Left side  | 20        | QPSK       | 1 50               | 20850/2510     | 1:1        | 0.720          | 0.313           | 0.07             | 21.40                 | 22.10               | 1.175         | <b>0.846</b>          | 0.368                  | 22.1             |
| Left side  | 20        | QPSK       | PCC 1 0            | 20850/2510     | 1:1        | 0.708          | 0.308           | -0.01            | 21.35                 | 22.10               | 1.188         | 0.841                 | 0.366                  | 22.1             |
|  |           |            | SCC 0 0            | 21048/2529.8   |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left side  | 20        | QPSK       | 1 99               | 21350/2560     | 1:1        | 0.621          | 0.263           | -0.01            | 21.43                 | 22.10               | 1.167         | 0.725                 | 0.307                  | 22.1             |
| Top side   | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.056          | 0.029           | -0.08            | 21.44                 | 22.10               | 1.164         | 0.065                 | 0.034                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 50 25              | 21350/2560     | 1:1        | 0.280          | 0.139           | -0.03            | 21.39                 | 22.10               | 1.178         | 0.330                 | 0.164                  | 22.1             |
| Back side  | 20        | QPSK       | 50 25              | 21350/2560     | 1:1        | 0.607          | 0.274           | -0.03            | 21.39                 | 22.10               | 1.178         | 0.715                 | 0.323                  | 22.1             |
| Left side  | 20        | QPSK       | 50 25              | 21350/2560     | 1:1        | 0.652          | 0.276           | 0.06             | 21.39                 | 22.10               | 1.178         | 0.768                 | 0.325                  | 22.1             |
| Top side   | 20        | QPSK       | 50 25              | 21350/2560     | 1:1        | 0.056          | 0.029           | 0.03             | 21.39                 | 22.10               | 1.178         | 0.066                 | 0.035                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left side  | 20        | QPSK       | 100 0              | 21350/2560     | 1:1        | 0.647          | 0.275           | 0.06             | 21.36                 | 22.10               | 1.186         | 0.767                 | 0.326                  | 22.1             |
| Body Test Data at the worst case with Battery 2#   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left side  | 20        | QPSK       | 1 50               | 20850/2510     | 1:1        | 0.712          | 0.310           | 0.17             | 21.40                 | 22.10               | 1.175         | 0.837                 | 0.364                  | 22.1             |
| Ant 0 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/ WWAN+WLAN 2.4G Receiver off/WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/WWAN+WLAN 5G+BT Receiver off) |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW.       | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Hotspot Test data(Separate 10mm 1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side  | 20        | QPSK       | 1 50               | 21100/2535     | 1:1        | 0.417          | 0.190           | -0.06            | 19.41                 | 20.10               | 1.172         | 0.489                 | 0.223                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side  | 20        | QPSK       | 50 25              | 21350/2560     | 1:1        | 0.383          | 0.173           | 0.11             | 19.47                 | 20.10               | 1.156         | 0.443                 | 0.200                  | 22.1             |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| Ant 2 Test Record                                     |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|---|-----------|------------|--------------------|----------------------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode |            |                    | Test ch./Freq.             | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW.       | Modulation | RB Size_ RB offset |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)                                   |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 1 50               | 21350/2560                 | 1:1        | 0.518          | 0.239           | -0.02            | 14.15                 | 15.00               | 1.216         | 0.630                 | 0.291                  | 22.1             |
| Left tilted   | 20        | QPSK       | 1 50               | 21350/2560                 | 1:1        | 0.697          | 0.306           | 0.08             | 14.15                 | 15.00               | 1.216         | 0.848                 | 0.372                  | 22.1             |
| Left tilted   | 20        | QPSK       | 1 99               | 20850/2510                 | 1:1        | 0.687          | 0.301           | 0.07             | 14.03                 | 15.00               | 1.250         | 0.859                 | 0.376                  | 22.1             |
| Left tilted   | 20        | QPSK       | 1 99               | 21100/2535                 | 1:1        | 0.694          | 0.304           | 0.11             | 14.15                 | 15.00               | 1.216         | 0.844                 | 0.370                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1 50               | 21350/2560                 | 1:1        | 0.824          | 0.330           | 0.06             | 14.15                 | 15.00               | 1.216         | 1.002                 | 0.401                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1 99               | 20850/2510                 | 1:1        | 0.778          | 0.317           | -0.08            | 14.03                 | 15.00               | 1.250         | 0.973                 | 0.396                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1 99               | 21100/2535                 | 1:1        | 0.849          | 0.342           | 0.03             | 14.15                 | 15.00               | 1.216         | 1.033                 | 0.416                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 50               | 21350/2560                 | 1:1        | 0.841          | 0.339           | 0.05             | 14.15                 | 15.00               | 1.216         | 1.023                 | 0.412                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 99               | 20850/2510                 | 1:1        | 0.754          | 0.305           | 0.02             | 14.03                 | 15.00               | 1.250         | 0.943                 | 0.381                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 99               | 21100/2535                 | 1:1        | 0.866          | 0.343           | 0.07             | 14.15                 | 15.00               | 1.216         | 1.053                 | 0.417                  | 22.1             |
| Head Test Data(50%RB)                                 |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 50 50              | 21350/2560                 | 1:1        | 0.549          | 0.252           | -0.04            | 14.07                 | 15.00               | 1.239         | 0.680                 | 0.312                  | 22.1             |
| Left tilted   | 20        | QPSK       | 50 50              | 21350/2560                 | 1:1        | 0.737          | 0.324           | 0.03             | 14.07                 | 15.00               | 1.239         | 0.913                 | 0.401                  | 22.1             |
| Left tilted   | 20        | QPSK       | 50 25              | 20850/2510                 | 1:1        | 0.592          | 0.275           | -0.03            | 14.06                 | 15.00               | 1.242         | 0.735                 | 0.341                  | 22.1             |
| Left tilted   | 20        | QPSK       | 50 25              | 21100/2535                 | 1:1        | 0.686          | 0.295           | -0.05            | 14.02                 | 15.00               | 1.253         | 0.860                 | 0.370                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 50              | 21350/2560                 | 1:1        | 0.687          | 0.284           | 0.01             | 14.07                 | 15.00               | 1.239         | 0.851                 | 0.352                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 25              | 20850/2510                 | 1:1        | 0.677          | 0.279           | 0.03             | 14.06                 | 15.00               | 1.242         | 0.841                 | 0.346                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 25              | 21100/2535                 | 1:1        | 0.691          | 0.285           | 0.07             | 14.02                 | 15.00               | 1.253         | 0.866                 | 0.357                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 50              | 21350/2560                 | 1:1        | 0.843          | 0.343           | 0.10             | 14.07                 | 15.00               | 1.239         | 1.044                 | 0.425                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 25              | 20850/2510                 | 1:1        | 0.872          | 0.344           | -0.08            | 14.06                 | 15.00               | 1.242         | 1.083                 | 0.427                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 25              | 21100/2535                 | 1:1        | 0.888          | 0.356           | -0.02            | 14.02                 | 15.00               | 1.253         | <b>1.113</b>          | 0.446                  | 22.1             |
| Right tilted-Repeat                                   | 20        | QPSK       | 50_25              | 21100/2535                 | 1:1        | 0.883          | 0.354           | -0.02            | 14.02                 | 15.00               | 1.253         | 1.107                 | 0.444                  | 22.1             |
| Right tilted  | 20        | QPSK       | PCC 1 0<br>SCC 0 0 | 21100/2535<br>21298/2554.8 | 1:1        | 0.865          | 0.347           | -0.03            | 13.96                 | 15.00               | 1.271         | 1.099                 | 0.441                  | 22.1             |
| Head Test Data(100%RB)                                |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left tilted   | 20        | QPSK       | 100 0              | 21350/2560                 | 1:1        | 0.601          | 0.279           | 0.14             | 14.15                 | 15.00               | 1.216         | 0.731                 | 0.339                  | 22.1             |
| Right cheek   | 20        | QPSK       | 100 0              | 21350/2560                 | 1:1        | 0.670          | 0.278           | 0.06             | 14.15                 | 15.00               | 1.216         | 0.815                 | 0.338                  | 22.1             |
| Right tilted  | 20        | QPSK       | 100 0              | 21350/2560                 | 1:1        | 0.835          | 0.340           | 0.05             | 14.15                 | 15.00               | 1.216         | 1.016                 | 0.414                  | 22.1             |
| Head Test Data at the worst case with Battery 2#      |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right tilted  | 20        | QPSK       | 50 25              | 21100/2535                 | 1:1        | 0.879          | 0.353           | -0.02            | 14.02                 | 15.00               | 1.253         | 1.102                 | 0.442                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)                |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1 0                | 21100/2535                 | 1:1        | 0.187          | 0.101           | -0.01            | 19.25                 | 19.80               | 1.135         | 0.212                 | 0.115                  | 22.1             |
| Back side   | 20        | QPSK       | 1 0                | 21100/2535                 | 1:1        | 0.210          | 0.112           | -0.06            | 19.25                 | 19.80               | 1.135         | 0.238                 | 0.127                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)              |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50 0               | 20850/2510                 | 1:1        | 0.199          | 0.107           | -0.07            | 19.36                 | 19.80               | 1.107         | 0.220                 | 0.118                  | 22.1             |
| Back side   | 20        | QPSK       | 50 0               | 20850/2510                 | 1:1        | 0.223          | 0.121           | -0.06            | 19.36                 | 19.80               | 1.107         | <b>0.247</b>          | 0.134                  | 22.1             |
| Back side   | 20        | QPSK       | PCC 1 0<br>SCC 0 0 | 20850/2510<br>21048/2529.8 | 1:1        | 0.219          | 0.119           | -0.04            | 19.32                 | 19.80               | 1.117         | 0.245                 | 0.133                  | 22.1             |
| Body worn Test data at the worst case with Battery 2# |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side   | 20        | QPSK       | 50 0               | 20850/2510                 | 1:1        | 0.221          | 0.120           | -0.07            | 19.36                 | 19.80               | 1.107         | 0.245                 | 0.133                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)                  |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1 0                | 21100/2535                 | 1:1        | 0.381          | 0.206           | 0.08             | 19.25                 | 19.80               | 1.135         | 0.432                 | 0.234                  | 22.1             |
| Back side   | 20        | QPSK       | 1 0                | 21100/2535                 | 1:1        | 0.438          | 0.224           | -0.03            | 19.25                 | 19.80               | 1.135         | 0.497                 | 0.254                  | 22.1             |
| Left side   | 20        | QPSK       | 1 0                | 21100/2535                 | 1:1        | 0.076          | 0.033           | -0.02            | 19.25                 | 19.80               | 1.135         | 0.086                 | 0.037                  | 22.1             |
| Top side  | 20        | QPSK       | 1 0                | 21100/2535                 | 1:1        | 0.764          | 0.349           | 0.07             | 19.25                 | 19.80               | 1.135         | 0.867                 | 0.396                  | 22.1             |
| Top side  | 20        | QPSK       | 1 0                | 20850/2510                 | 1:1        | 0.684          | 0.334           | 0.05             | 19.25                 | 19.80               | 1.135         | 0.776                 | 0.379                  | 22.1             |
| Top side  | 20        | QPSK       | 1 0                | 21350/2560                 | 1:1        | 0.900          | 0.413           | 0.05             | 19.15                 | 19.80               | 1.161         | <b>1.045</b>          | 0.480                  | 22.1             |
| Top side-Repeat                                       | 20        | QPSK       | 1_0                | 21350/2560                 | 1:1        | 0.890          | 0.410           | -0.09            | 19.15                 | 19.80               | 1.161         | 1.034                 | 0.476                  | 22.1             |
| Top side  | 20        | QPSK       | PCC 1 0<br>SCC 0 0 | 21350/2560<br>21152/2540.2 | 1:1        | 0.886          | 0.406           | 0.01             | 19.12                 | 19.80               | 1.169         | 1.036                 | 0.475                  | 22.1             |

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| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|--|-----------|------------|--------------------|----------------------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Front side   | 20        | QPSK       | 50 0               | 20850/2510                 | 1:1        | 0.401          | 0.216           | -0.01            | 19.36                 | 19.80               | 1.107         | 0.444                 | 0.239                  | 22.1             |
| Back side  | 20        | QPSK       | 50 0               | 20850/2510                 | 1:1        | 0.407          | 0.218           | 0.08             | 19.36                 | 19.80               | 1.107         | 0.450                 | 0.241                  | 22.1             |
| Left side  | 20        | QPSK       | 50 0               | 20850/2510                 | 1:1        | 0.036          | 0.012           | 0.00             | 19.36                 | 19.80               | 1.107         | 0.040                 | 0.013                  | 22.1             |
| Top side   | 20        | QPSK       | 50 0               | 20850/2510                 | 1:1        | 0.622          | 0.309           | -0.04            | 19.36                 | 19.80               | 1.107         | 0.688                 | 0.342                  | 22.1             |
| Hotspot Test data(Separate 10mm 100%RB)  |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side   | 20        | QPSK       | 100 0              | 20850/2510                 | 1:1        | 0.597          | 0.293           | -0.16            | 19.31                 | 19.80               | 1.119         | 0.668                 | 0.328                  | 22.1             |
| Body Test Data at the worst case with Battery 2#   |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side   | 20        | QPSK       | 1 0                | 21350/2560                 | 1:1        | 0.891          | 0.409           | 0.06             | 19.15                 | 19.80               | 1.161         | 1.035                 | 0.475                  | 22.1             |
| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on/WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on)      |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode |            |                    | Test ch./Freq.             | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW.       | Modulation | RB Size_ RB offset |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)  |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 1 50               | 21350/2560                 | 1:1        | 0.411          | 0.190           | -0.03            | 13.22                 | 14.00               | 1.197         | 0.492                 | 0.227                  | 22.1             |
| Left tilted  | 20        | QPSK       | 1 50               | 21350/2560                 | 1:1        | 0.514          | 0.213           | 0.04             | 13.22                 | 14.00               | 1.197         | 0.615                 | 0.255                  | 22.1             |
| Right cheek  | 20        | QPSK       | 1 50               | 21350/2560                 | 1:1        | 0.655          | 0.262           | 0.11             | 13.22                 | 14.00               | 1.197         | 0.784                 | 0.314                  | 22.1             |
| Right tilted   | 20        | QPSK       | 1 50               | 21350/2560                 | 1:1        | 0.668          | 0.269           | 0.12             | 13.22                 | 14.00               | 1.197         | 0.799                 | 0.322                  | 22.1             |
| Head Test Data(50%RB)  |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 50 50              | 21350/2560                 | 1:1        | 0.436          | 0.200           | -0.02            | 13.15                 | 14.00               | 1.216         | 0.530                 | 0.243                  | 22.1             |
| Left tilted  | 20        | QPSK       | 50 50              | 21350/2560                 | 1:1        | 0.512          | 0.211           | 0.09             | 13.15                 | 14.00               | 1.216         | 0.623                 | 0.257                  | 22.1             |
| Right cheek  | 20        | QPSK       | 50 50              | 21350/2560                 | 1:1        | 0.546          | 0.226           | 0.11             | 13.15                 | 14.00               | 1.216         | 0.664                 | 0.275                  | 22.1             |
| Right tilted   | 20        | QPSK       | 50 50              | 21350/2560                 | 1:1        | 0.670          | 0.272           | 0.07             | 13.15                 | 14.00               | 1.216         | 0.815                 | 0.331                  | 22.1             |
| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/ WWAN+WLAN 2.4G Receiver off/WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/WWAN+WLAN 5G+BT Receiver off) |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode |            |                    | Test ch./Freq.             | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW.       | Modulation | RB Size_ RB offset |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Hotspot Test data(Separate 10mm 1RB)   |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side   | 20        | QPSK       | 1 0                | 21350/2560                 | 1:1        | 0.555          | 0.255           | -0.02            | 17.15                 | 17.70               | 1.135         | 0.630                 | 0.289                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side   | 20        | QPSK       | 50 0               | 20850/2510                 | 1:1        | 0.384          | 0.191           | -0.13            | 17.29                 | 17.70               | 1.099         | 0.422                 | 0.210                  | 22.1             |
| Ant 3 Test Record  |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode |            |                    | Test ch./Freq.             | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW.       | Modulation | RB Size_ RB offset |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)  |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 1 99               | 20850/2510                 | 1:1        | 0.279          | 0.151           | 0.02             | 23.02                 | 23.70               | 1.169         | 0.326                 | 0.177                  | 22.1             |
| Left tilted  | 20        | QPSK       | 1 99               | 20850/2510                 | 1:1        | 0.175          | 0.090           | 0.00             | 23.02                 | 23.70               | 1.169         | 0.205                 | 0.105                  | 22.1             |
| Right cheek  | 20        | QPSK       | 1 99               | 20850/2510                 | 1:1        | 0.549          | 0.294           | 0.01             | 23.02                 | 23.70               | 1.169         | 0.642                 | 0.344                  | 22.1             |
| Right cheek  | 20        | QPSK       | PCC 1 0<br>SCC 0 0 | 20850/2510<br>21048/2529.8 | 1:1        | 0.537          | 0.288           | -0.02            | 22.98                 | 23.70               | 1.180         | 0.634                 | 0.340                  | 22.1             |
| Right tilted   | 20        | QPSK       | 1 99               | 20850/2510                 | 1:1        | 0.170          | 0.082           | -0.03            | 23.02                 | 23.70               | 1.169         | 0.199                 | 0.095                  | 22.1             |
| Head Test Data(50%RB)  |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 50 50              | 21100/2535                 | 1:1        | 0.241          | 0.130           | 0.04             | 22.05                 | 22.70               | 1.161         | 0.280                 | 0.151                  | 22.1             |
| Left tilted  | 20        | QPSK       | 50 50              | 21100/2535                 | 1:1        | 0.143          | 0.074           | 0.12             | 22.05                 | 22.70               | 1.161         | 0.166                 | 0.086                  | 22.1             |
| Right cheek  | 20        | QPSK       | 50 50              | 21100/2535                 | 1:1        | 0.493          | 0.256           | 0.01             | 22.05                 | 22.70               | 1.161         | 0.573                 | 0.297                  | 22.1             |
| Right tilted   | 20        | QPSK       | 50 50              | 21100/2535                 | 1:1        | 0.149          | 0.068           | 0.05             | 22.05                 | 22.70               | 1.161         | 0.173                 | 0.079                  | 22.1             |
| Head Test Data at the worst case with Battery 2#   |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek  | 20        | QPSK       | 1 99               | 20850/2510                 | 1:1        | 0.542          | 0.291           | -0.01            | 23.02                 | 23.70               | 1.169         | 0.634                 | 0.340                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)   |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 1 99               | 20850/2510                 | 1:1        | 0.274          | 0.150           | 0.00             | 22.15                 | 23.00               | 1.216         | 0.333                 | 0.182                  | 22.1             |
| Back side  | 20        | QPSK       | 1 99               | 20850/2510                 | 1:1        | 0.270          | 0.144           | -0.06            | 22.15                 | 23.00               | 1.216         | 0.328                 | 0.175                  | 22.1             |

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| Body worn Test data(Separate 15mm 50%RB)              |    |      |         |              |     |       |       |       |       |       |       |              |       |      |
|---|----|------|---------|--------------|-----|-------|-------|-------|-------|-------|-------|--------------|-------|------|
| Front side  | 20 | QPSK | 50 50   | 21100/2535   | 1:1 | 0.272 | 0.147 | -0.04 | 22.01 | 23.00 | 1.256 | 0.342        | 0.185 | 22.1 |
| Back side   | 20 | QPSK | 50 50   | 21100/2535   | 1:1 | 0.315 | 0.170 | 0.03  | 22.01 | 23.00 | 1.256 | <b>0.396</b> | 0.214 | 22.1 |
| Back side   | 20 | QPSK | PCC 1 0 | 21100/2535   | 1:1 | 0.301 | 0.162 | -0.13 | 21.96 | 23.00 | 1.271 | 0.382        | 0.206 | 22.1 |
|   |    |      | SCC 0 0 | 21298/2554.8 |     |       |       |       |       |       |       |              |       |      |
| Body worn Test data at the worst case with Battery 2# |    |      |         |              |     |       |       |       |       |       |       |              |       |      |
| Back side   | 20 | QPSK | 50 50   | 21100/2535   | 1:1 | 0.312 | 0.168 | 0.09  | 22.01 | 23.00 | 1.256 | 0.392        | 0.211 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB)                  |    |      |         |              |     |       |       |       |       |       |       |              |       |      |
| Front side  | 20 | QPSK | 1 99    | 20850/2510   | 1:1 | 0.460 | 0.252 | -0.13 | 22.15 | 23.00 | 1.216 | 0.559        | 0.306 | 22.1 |
| Back side   | 20 | QPSK | 1 99    | 20850/2510   | 1:1 | 0.511 | 0.257 | 0.04  | 22.15 | 23.00 | 1.216 | 0.621        | 0.313 | 22.1 |
| Left side   | 20 | QPSK | 1 99    | 20850/2510   | 1:1 | 0.022 | 0.010 | -0.04 | 22.15 | 23.00 | 1.216 | 0.027        | 0.012 | 22.1 |
| Right side  | 20 | QPSK | 1 99    | 20850/2510   | 1:1 | 0.900 | 0.421 | 0.14  | 22.15 | 23.00 | 1.216 | 1.095        | 0.512 | 22.1 |
| Right side  | 20 | QPSK | 1 50    | 21100/2535   | 1:1 | 0.918 | 0.431 | 0.01  | 22.13 | 23.00 | 1.222 | <b>1.122</b> | 0.527 | 22.1 |
| Right side  | 20 | QPSK | PCC 1 0 | 21100/2535   | 1:1 | 0.879 | 0.410 | -0.13 | 21.96 | 23.00 | 1.271 | 1.117        | 0.521 | 22.1 |
|   |    |      | SCC 0 0 | 21298/2554.8 |     |       |       |       |       |       |       |              |       |      |
| Right side-Repeat                                     | 20 | QPSK | 1_50    | 21100/2535   | 1:1 | 0.906 | 0.426 | 0.03  | 22.13 | 23.00 | 1.222 | 1.107        | 0.520 | 22.1 |
| Right side  | 20 | QPSK | 1 0     | 21350/2560   | 1:1 | 0.918 | 0.427 | 0.04  | 22.14 | 23.00 | 1.219 | 1.119        | 0.521 | 22.1 |
| Bottom side   | 20 | QPSK | 1 99    | 20850/2510   | 1:1 | 0.248 | 0.120 | 0.05  | 22.15 | 23.00 | 1.216 | 0.302        | 0.146 | 22.1 |
| Hotspot Test data(Separate 10mm 50%RB)                |    |      |         |              |     |       |       |       |       |       |       |              |       |      |
| Front side  | 20 | QPSK | 50 50   | 21100/2535   | 1:1 | 0.438 | 0.241 | -0.03 | 22.01 | 23.00 | 1.256 | 0.550        | 0.303 | 22.1 |
| Back side   | 20 | QPSK | 50 50   | 21100/2535   | 1:1 | 0.487 | 0.243 | -0.05 | 22.01 | 23.00 | 1.256 | 0.612        | 0.305 | 22.1 |
| Left side   | 20 | QPSK | 50 50   | 21100/2535   | 1:1 | 0.026 | 0.012 | -0.09 | 22.01 | 23.00 | 1.256 | 0.032        | 0.015 | 22.1 |
| Right side  | 20 | QPSK | 50 50   | 21100/2535   | 1:1 | 0.889 | 0.414 | -0.05 | 22.01 | 23.00 | 1.256 | 1.117        | 0.520 | 22.1 |
| Right side  | 20 | QPSK | 50 50   | 20850/2510   | 1:1 | 0.858 | 0.404 | -0.05 | 21.85 | 23.00 | 1.303 | 1.118        | 0.526 | 22.1 |
| Right side  | 20 | QPSK | 50 50   | 21350/2560   | 1:1 | 0.866 | 0.401 | -0.19 | 21.90 | 23.00 | 1.288 | 1.116        | 0.517 | 22.1 |
| Bottom side   | 20 | QPSK | 50 50   | 21100/2535   | 1:1 | 0.241 | 0.115 | -0.03 | 21.90 | 23.00 | 1.288 | 0.310        | 0.148 | 22.1 |
| Hotspot Test data(Separate 10mm 100%RB)               |    |      |         |              |     |       |       |       |       |       |       |              |       |      |
| Right side  | 20 | QPSK | 100 0   | 21350/2560   | 1:1 | 0.855 | 0.397 | -0.02 | 21.85 | 23.00 | 1.303 | 1.114        | 0.517 | 22.1 |
| Body Test Data at the worst case with Battery 2#      |    |      |         |              |     |       |       |       |       |       |       |              |       |      |
| Right side  | 20 | QPSK | 1 50    | 21100/2535   | 1:1 | 0.908 | 0.426 | 0.11  | 22.13 | 23.00 | 1.222 | 1.109        | 0.520 | 22.1 |

Table 33: SAR of LTE Band 7 for Head, Body and Product specific 10g SAR.

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

| Test Position   | Channel/<br>Frequency<br>(MHz) | Measured SAR<br>(1g) | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated | 3 <sup>rd</sup> Repeated |
|-----------------|--------------------------------|----------------------|--------------------------|-------|--------------------------|--------------------------|
|                 |                                |                      | SAR (1g)                 |       | SAR (1g)                 | SAR (1g)                 |
| <b>Ant2</b>     |                                |                      |                          |       |                          |                          |
| Right tilted    | 21100/2535                     | 0.888                | 0.883                    | 1.006 | N/A                      | N/A                      |
| Top side 10mm   | 21350/2560                     | 0.900                | 0.890                    | 1.011 | N/A                      | N/A                      |
| <b>Ant3</b>     |                                |                      |                          |       |                          |                          |
| Right side 10mm | 21100/2535                     | 0.918                | 0.906                    | 1.013 | 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 (~ 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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### 8.4.5 SAR Result of LTE Band 12

| Ant 0 Test Record   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|---|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 1 25               | 23095/707.5    | 1:1        | 0.796          | 0.451           | 0.14             | 23.85                 | 24.40               | 1.135         | 0.903                 | 0.512                  | 22.1             |
| Left cheek  | 10        | QPSK       | 1 49               | 23060/704      | 1:1        | 0.620          | 0.350           | 0.01             | 23.65                 | 24.40               | 1.189         | 0.737                 | 0.416                  | 22.1             |
| Left cheek  | 10        | QPSK       | 1 25               | 23130/711      | 1:1        | 0.799          | 0.453           | 0.14             | 23.85                 | 24.40               | 1.135         | <b>0.907</b>          | 0.514                  | 22.1             |
| Left tilted   | 10        | QPSK       | 1 25               | 23095/707.5    | 1:1        | 0.175          | 0.119           | 0.14             | 23.85                 | 24.40               | 1.135         | 0.199                 | 0.135                  | 22.1             |
| Right cheek   | 10        | QPSK       | 1 25               | 23095/707.5    | 1:1        | 0.752          | 0.396           | 0.15             | 23.85                 | 24.40               | 1.135         | 0.854                 | 0.449                  | 22.1             |
| Right cheek   | 10        | QPSK       | 1 49               | 23060/704      | 1:1        | 0.583          | 0.281           | 0.07             | 23.65                 | 24.40               | 1.189         | 0.693                 | 0.334                  | 22.1             |
| Right cheek   | 10        | QPSK       | 1 25               | 23130/711      | 1:1        | 0.749          | 0.396           | 0.16             | 23.85                 | 24.40               | 1.135         | 0.850                 | 0.449                  | 22.1             |
| Right tilted  | 10        | QPSK       | 1 25               | 23095/707.5    | 1:1        | 0.130          | 0.089           | 0.02             | 23.85                 | 24.40               | 1.135         | 0.148                 | 0.101                  | 22.1             |
| Head Test Data(50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 25 25              | 23060/704      | 1:1        | 0.506          | 0.284           | 0.02             | 22.87                 | 23.40               | 1.130         | 0.572                 | 0.321                  | 22.1             |
| Left tilted   | 20        | QPSK       | 25 25              | 23060/704      | 1:1        | 0.088          | 0.060           | 0.04             | 22.87                 | 23.40               | 1.130         | 0.099                 | 0.068                  | 22.1             |
| Right cheek   | 20        | QPSK       | 25 25              | 23060/704      | 1:1        | 0.492          | 0.237           | 0.02             | 22.87                 | 23.40               | 1.130         | 0.556                 | 0.268                  | 22.1             |
| Right tilted  | 20        | QPSK       | 25 25              | 23060/704      | 1:1        | 0.118          | 0.071           | 0.02             | 22.87                 | 23.40               | 1.130         | 0.133                 | 0.080                  | 22.1             |
| Head Test Data(100%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 50 0               | 23060/704      | 1:1        | 0.556          | 0.312           | 0.14             | 22.77                 | 23.40               | 1.156         | 0.643                 | 0.361                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 0               | 23060/704      | 1:1        | 0.474          | 0.248           | 0.05             | 22.77                 | 23.40               | 1.156         | 0.548                 | 0.287                  | 22.1             |
| Head Test Data at the worst case with Battery 2#  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 1 25               | 23130/711      | 1:1        | 0.717          | 0.417           | 0.03             | 23.85                 | 24.40               | 1.135         | 0.814                 | 0.473                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.180          | 0.121           | 0.02             | 22.92                 | 23.30               | 1.091         | 0.196                 | 0.132                  | 22.1             |
| Back side   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.224          | 0.147           | -0.01            | 22.92                 | 23.30               | 1.091         | <b>0.244</b>          | 0.160                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 25 13              | 23060/704      | 1:1        | 0.153          | 0.102           | 0.03             | 22.76                 | 23.30               | 1.132         | 0.173                 | 0.116                  | 22.1             |
| Back side   | 20        | QPSK       | 25 13              | 23060/704      | 1:1        | 0.192          | 0.126           | -0.04            | 22.76                 | 23.30               | 1.132         | 0.217                 | 0.143                  | 22.1             |
| Body worn Test data at the worst case with Battery 2#   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.219          | 0.144           | -0.07            | 22.92                 | 23.30               | 1.091         | 0.239                 | 0.157                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.279          | 0.186           | 0.07             | 22.92                 | 23.30               | 1.091         | 0.305                 | 0.203                  | 22.1             |
| Back side   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.380          | 0.253           | -0.07            | 22.92                 | 23.30               | 1.091         | 0.415                 | 0.276                  | 22.1             |
| Left side   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.629          | 0.362           | 0.15             | 22.92                 | 23.30               | 1.091         | <b>0.687</b>          | 0.395                  | 22.1             |
| Top side  | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.012          | 0.008           | 0.06             | 22.92                 | 23.30               | 1.091         | 0.013                 | 0.009                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 25 13              | 23060/704      | 1:1        | 0.241          | 0.160           | 0.04             | 22.76                 | 23.30               | 1.132         | 0.273                 | 0.181                  | 22.1             |
| Back side   | 20        | QPSK       | 25 13              | 23060/704      | 1:1        | 0.334          | 0.221           | 0.04             | 22.76                 | 23.30               | 1.132         | 0.378                 | 0.250                  | 22.1             |
| Left side   | 20        | QPSK       | 25 13              | 23060/704      | 1:1        | 0.550          | 0.315           | -0.04            | 22.76                 | 23.30               | 1.132         | 0.623                 | 0.357                  | 22.1             |
| Top side  | 20        | QPSK       | 25 13              | 23060/704      | 1:1        | 0.011          | 0.008           | 0.08             | 22.76                 | 23.30               | 1.132         | 0.012                 | 0.008                  | 22.1             |
| Body Test Data at the worst case with Battery 2#  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left side   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.615          | 0.354           | 0.14             | 22.92                 | 23.30               | 1.091         | 0.671                 | 0.386                  | 22.1             |
| Ant 0 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on/WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on) |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position   | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 1 25               | 23095/707.5    | 1:1        | 0.413          | 0.223           | -0.09            | 21.65                 | 22.10               | 1.109         | 0.458                 | 0.247                  | 22.1             |
| Head Test Data(50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 25 25              | 23060/704      | 1:1        | 0.371          | 0.206           | 0.10             | 21.64                 | 22.10               | 1.112         | 0.412                 | 0.229                  | 22.1             |

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| Ant 1 Test Record                                     |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|---|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)                                   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.168          | 0.132           | 0.09             | 23.93                 | 24.80               | 1.222         | 0.205                 | 0.161                  | 22.1             |
| Left tilted   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.125          | 0.100           | 0.01             | 23.93                 | 24.80               | 1.222         | 0.153                 | 0.122                  | 22.1             |
| Right cheek   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.178          | 0.146           | 0.08             | 23.93                 | 24.80               | 1.222         | <b>0.217</b>          | 0.178                  | 22.1             |
| Right tilted  | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.091          | 0.065           | 0.15             | 23.93                 | 24.80               | 1.222         | 0.111                 | 0.079                  | 22.1             |
| Head Test Data(50%RB)                                 |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 25 25              | 23130/711      | 1:1        | 0.129          | 0.102           | 0.03             | 23.08                 | 23.80               | 1.180         | 0.152                 | 0.120                  | 22.1             |
| Left tilted   | 10        | QPSK       | 25 25              | 23130/711      | 1:1        | 0.096          | 0.076           | 0.14             | 23.08                 | 23.80               | 1.180         | 0.113                 | 0.089                  | 22.1             |
| Right cheek   | 10        | QPSK       | 25 25              | 23130/711      | 1:1        | 0.137          | 0.113           | 0.04             | 23.08                 | 23.80               | 1.180         | 0.162                 | 0.133                  | 22.1             |
| Right tilted  | 10        | QPSK       | 25 25              | 23130/711      | 1:1        | 0.085          | 0.061           | 0.16             | 23.08                 | 23.80               | 1.180         | 0.101                 | 0.072                  | 22.1             |
| Head Test Data at the worst case with Battery 2#      |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.173          | 0.142           | 0.05             | 23.93                 | 24.80               | 1.222         | 0.211                 | 0.173                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)                |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.229          | 0.180           | 0.01             | 23.93                 | 24.80               | 1.222         | 0.280                 | 0.220                  | 22.1             |
| Back side   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.273          | 0.214           | 0.02             | 23.93                 | 24.80               | 1.222         | <b>0.334</b>          | 0.261                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)              |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 25 25              | 23130/711      | 1:1        | 0.182          | 0.143           | 0.04             | 23.08                 | 23.80               | 1.180         | 0.215                 | 0.169                  | 22.1             |
| Back side   | 20        | QPSK       | 25 25              | 23130/711      | 1:1        | 0.218          | 0.170           | 0.03             | 23.08                 | 23.80               | 1.180         | 0.257                 | 0.201                  | 22.1             |
| Body worn Test data at the worst case with Battery 2# |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.266          | 0.209           | 0.02             | 23.93                 | 24.80               | 1.222         | 0.325                 | 0.255                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)                  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.333          | 0.192           | 0.08             | 23.93                 | 24.80               | 1.222         | 0.407                 | 0.235                  | 22.1             |
| Back side   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.390          | 0.232           | 0.04             | 23.93                 | 24.80               | 1.222         | 0.477                 | 0.283                  | 22.1             |
| Left side   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.169          | 0.119           | 0.15             | 23.93                 | 24.80               | 1.222         | 0.206                 | 0.145                  | 22.1             |
| Right side  | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.517          | 0.366           | 0.01             | 23.93                 | 24.80               | 1.222         | <b>0.632</b>          | 0.447                  | 22.1             |
| Bottom side   | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.275          | 0.144           | 0.16             | 23.93                 | 24.80               | 1.222         | 0.336                 | 0.176                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)                |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 25 25              | 23130/711      | 1:1        | 0.279          | 0.162           | -0.03            | 23.08                 | 23.80               | 1.180         | 0.329                 | 0.191                  | 22.1             |
| Back side   | 20        | QPSK       | 25 25              | 23130/711      | 1:1        | 0.334          | 0.197           | 0.06             | 23.08                 | 23.80               | 1.180         | 0.394                 | 0.233                  | 22.1             |
| Left side   | 20        | QPSK       | 25 25              | 23130/711      | 1:1        | 0.115          | 0.081           | 0.07             | 23.08                 | 23.80               | 1.180         | 0.136                 | 0.095                  | 22.1             |
| Right side  | 20        | QPSK       | 25 25              | 23130/711      | 1:1        | 0.423          | 0.298           | 0.03             | 23.08                 | 23.80               | 1.180         | 0.499                 | 0.352                  | 22.1             |
| Bottom side   | 20        | QPSK       | 25 25              | 23130/711      | 1:1        | 0.267          | 0.153           | 0.07             | 23.08                 | 23.80               | 1.180         | 0.315                 | 0.181                  | 22.1             |
| Body Test Data at the worst case with Battery 2#      |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right side  | 10        | QPSK       | 1 0                | 23130/711      | 1:1        | 0.487          | 0.341           | 0.03             | 23.93                 | 24.80               | 1.222         | 0.595                 | 0.417                  | 22.1             |

Table 34: SAR of LTE Band 12 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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### 8.4.6 SAR Result of LTE Band 17

| Ant 0 Test Record                                     |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|---|-----------|------------|-------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode |            |                   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW        | Modulation | RB Size RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)                                   |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 1 49              | 23790/710      | 1:1        | 0.838          | 0.479           | 0.05             | 23.72                 | 24.40               | 1.169         | 0.980                 | 0.560                  | 22.1             |
| Left cheek  | 10        | QPSK       | 1 49              | 23780/709      | 1:1        | 0.854          | 0.483           | 0.17             | 23.67                 | 24.40               | 1.183         | <b>1.010</b>          | 0.571                  | 22.1             |
| Left cheek-Repeat                                     | 10        | QPSK       | 1 49              | 23780/709      | 1:1        | 0.833          | 0.475           | 0.18             | 23.67                 | 24.40               | 1.183         | 0.985                 | 0.562                  | 22.1             |
| Left cheek  | 10        | QPSK       | 1 0               | 23800/711      | 1:1        | 0.842          | 0.475           | 0.02             | 23.67                 | 24.40               | 1.183         | 0.996                 | 0.562                  | 22.1             |
| Left tilted   | 10        | QPSK       | 1 49              | 23790/710      | 1:1        | 0.168          | 0.114           | 0.02             | 23.72                 | 24.40               | 1.169         | 0.196                 | 0.133                  | 22.1             |
| Right cheek   | 10        | QPSK       | 1 49              | 23790/710      | 1:1        | 0.825          | 0.399           | 0.05             | 23.72                 | 24.40               | 1.169         | 0.965                 | 0.467                  | 22.1             |
| Right cheek   | 10        | QPSK       | 1 49              | 23780/709      | 1:1        | 0.770          | 0.407           | 0.16             | 23.67                 | 24.40               | 1.183         | 0.911                 | 0.481                  | 22.1             |
| Right cheek   | 10        | QPSK       | 1 0               | 23800/711      | 1:1        | 0.773          | 0.410           | 0.05             | 23.67                 | 24.40               | 1.183         | 0.914                 | 0.485                  | 22.1             |
| Right tilted  | 10        | QPSK       | 1 49              | 23790/710      | 1:1        | 0.205          | 0.123           | -0.03            | 23.72                 | 24.40               | 1.169         | 0.240                 | 0.144                  | 22.1             |
| Head Test Data(50%RB)                                 |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 25 25             | 23800/711      | 1:1        | 0.773          | 0.426           | 0.03             | 22.75                 | 23.40               | 1.161         | 0.898                 | 0.495                  | 22.1             |
| Left cheek  | 20        | QPSK       | 25 25             | 23780/709      | 1:1        | 0.692          | 0.398           | 0.05             | 22.70                 | 23.40               | 1.175         | 0.813                 | 0.468                  | 22.1             |
| Left cheek  | 20        | QPSK       | 25 25             | 23790/710      | 1:1        | 0.695          | 0.400           | -0.02            | 22.75                 | 23.40               | 1.161         | 0.807                 | 0.465                  | 22.1             |
| Left tilted   | 20        | QPSK       | 25 25             | 23800/711      | 1:1        | 0.141          | 0.096           | 0.05             | 22.75                 | 23.40               | 1.161         | 0.164                 | 0.112                  | 22.1             |
| Right cheek   | 20        | QPSK       | 25 25             | 23800/711      | 1:1        | 0.709          | 0.340           | 0.05             | 22.75                 | 23.40               | 1.161         | 0.823                 | 0.395                  | 22.1             |
| Right cheek   | 20        | QPSK       | 25 25             | 23780/709      | 1:1        | 0.652          | 0.342           | 0.01             | 22.70                 | 23.40               | 1.175         | 0.766                 | 0.402                  | 22.1             |
| Right cheek   | 20        | QPSK       | 25 25             | 23790/710      | 1:1        | 0.648          | 0.340           | 0.02             | 22.75                 | 23.40               | 1.161         | 0.753                 | 0.395                  | 22.1             |
| Right tilted  | 20        | QPSK       | 25 25             | 23800/711      | 1:1        | 0.171          | 0.103           | 0.01             | 22.75                 | 23.40               | 1.161         | 0.199                 | 0.120                  | 22.1             |
| Head Test Data(100%RB)                                |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 50 0              | 23780/709      | 1:1        | 0.721          | 0.407           | -0.04            | 22.75                 | 23.40               | 1.161         | 0.837                 | 0.473                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 0              | 23780/709      | 1:1        | 0.655          | 0.341           | -0.03            | 22.75                 | 23.40               | 1.161         | 0.761                 | 0.396                  | 22.1             |
| Head Test Data at the worst case with Battery 2#      |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 1 0               | 23800/711      | 1:1        | 0.822          | 0.464           | 0.03             | 23.67                 | 24.40               | 1.183         | 0.972                 | 0.549                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)                |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 10        | QPSK       | 1 0               | 23800/711      | 1:1        | 0.167          | 0.111           | 0.07             | 22.54                 | 23.30               | 1.191         | 0.199                 | 0.132                  | 22.1             |
| Back side   | 10        | QPSK       | 1 0               | 23800/711      | 1:1        | 0.207          | 0.135           | -0.02            | 22.54                 | 23.30               | 1.191         | 0.247                 | 0.161                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)              |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 25 25             | 23800/711      | 1:1        | 0.181          | 0.121           | 0.02             | 22.54                 | 23.30               | 1.191         | 0.216                 | 0.144                  | 22.1             |
| Back side   | 20        | QPSK       | 25 25             | 23800/711      | 1:1        | 0.224          | 0.146           | 0.06             | 22.54                 | 23.30               | 1.191         | <b>0.267</b>          | 0.174                  | 22.1             |
| Body worn Test data at the worst case with Battery 2# |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side   | 20        | QPSK       | 25 25             | 23800/711      | 1:1        | 0.219          | 0.143           | 0.09             | 22.54                 | 23.30               | 1.191         | 0.261                 | 0.170                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)                  |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 10        | QPSK       | 1 0               | 23800/711      | 1:1        | 0.255          | 0.170           | -0.03            | 22.54                 | 23.30               | 1.191         | 0.304                 | 0.203                  | 22.1             |
| Back side   | 10        | QPSK       | 1 0               | 23800/711      | 1:1        | 0.352          | 0.233           | -0.02            | 22.54                 | 23.30               | 1.191         | 0.419                 | 0.278                  | 22.1             |
| Left side   | 10        | QPSK       | 1 0               | 23800/711      | 1:1        | 0.578          | 0.333           | -0.18            | 22.54                 | 23.30               | 1.191         | 0.689                 | 0.397                  | 22.1             |
| Top side  | 10        | QPSK       | 1 0               | 23800/711      | 1:1        | 0.011          | 0.007           | -0.09            | 22.54                 | 23.30               | 1.191         | 0.013                 | 0.009                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)                |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 25 25             | 23800/711      | 1:1        | 0.280          | 0.186           | 0.04             | 22.54                 | 23.30               | 1.191         | 0.334                 | 0.222                  | 22.1             |
| Back side   | 20        | QPSK       | 25 25             | 23800/711      | 1:1        | 0.383          | 0.254           | 0.04             | 22.54                 | 23.30               | 1.191         | 0.456                 | 0.303                  | 22.1             |
| Left side   | 20        | QPSK       | 25 25             | 23800/711      | 1:1        | 0.617          | 0.351           | 0.09             | 22.54                 | 23.30               | 1.191         | <b>0.735</b>          | 0.418                  | 22.1             |
| Top side  | 20        | QPSK       | 25 25             | 23800/711      | 1:1        | 0.012          | 0.008           | 0.13             | 22.54                 | 23.30               | 1.191         | 0.014                 | 0.010                  | 22.1             |
| Body Test Data at the worst case with Battery 2#      |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left side   | 20        | QPSK       | 25 25             | 23800/711      | 1:1        | 0.603          | 0.343           | 0.04             | 22.54                 | 23.30               | 1.191         | 0.718                 | 0.409                  | 22.1             |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| Ant 0 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on/WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on) |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|---|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.471          | 0.253           | -0.03            | 21.49                 | 22.10               | 1.151         | 0.542                 | 0.291                  | 22.1             |
| Head Test Data(50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 25 25              | 23800/711      | 1:1        | 0.447          | 0.240           | 0.17             | 21.29                 | 22.10               | 1.205         | 0.539                 | 0.289                  | 22.1             |

| Ant 1 Test Record                                     |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|---|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)                                   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.154          | 0.107           | 0.07             | 23.96                 | 24.80               | 1.213         | 0.187                 | 0.130                  | 22.1             |
| Left tilted   | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.110          | 0.077           | 0.10             | 23.96                 | 24.80               | 1.213         | 0.133                 | 0.094                  | 22.1             |
| Right cheek   | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.161          | 0.132           | 0.03             | 23.96                 | 24.80               | 1.213         | <b>0.195</b>          | 0.160                  | 22.1             |
| Right tilted  | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.091          | 0.065           | 0.16             | 23.96                 | 24.80               | 1.213         | 0.111                 | 0.079                  | 22.1             |
| Head Test Data(50%RB)                                 |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 10        | QPSK       | 25 25              | 23780/709      | 1:1        | 0.134          | 0.105           | 0.04             | 23.03                 | 23.80               | 1.194         | 0.160                 | 0.125                  | 22.1             |
| Left tilted   | 10        | QPSK       | 25 25              | 23780/709      | 1:1        | 0.098          | 0.078           | 0.12             | 23.03                 | 23.80               | 1.194         | 0.117                 | 0.093                  | 22.1             |
| Right cheek   | 10        | QPSK       | 25 25              | 23780/709      | 1:1        | 0.138          | 0.113           | 0.16             | 23.03                 | 23.80               | 1.194         | 0.165                 | 0.135                  | 22.1             |
| Right tilted  | 10        | QPSK       | 25 25              | 23780/709      | 1:1        | 0.093          | 0.066           | 0.07             | 23.03                 | 23.80               | 1.194         | 0.110                 | 0.079                  | 22.1             |
| Head Test Data at the worst case with Battery 2#      |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek   | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.157          | 0.129           | 0.04             | 23.96                 | 24.80               | 1.213         | 0.191                 | 0.157                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)                |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.221          | 0.173           | 0.00             | 23.96                 | 24.80               | 1.213         | 0.268                 | 0.210                  | 22.1             |
| Back side   | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.260          | 0.204           | 0.03             | 23.96                 | 24.80               | 1.213         | <b>0.315</b>          | 0.248                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)              |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 25 25              | 23780/709      | 1:1        | 0.185          | 0.146           | 0.05             | 23.03                 | 23.80               | 1.194         | 0.221                 | 0.174                  | 22.1             |
| Back side   | 20        | QPSK       | 25 25              | 23780/709      | 1:1        | 0.219          | 0.171           | 0.01             | 23.03                 | 23.80               | 1.194         | 0.261                 | 0.204                  | 22.1             |
| Body worn Test data at the worst case with Battery 2# |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side   | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.254          | 0.199           | 0.04             | 23.96                 | 24.80               | 1.213         | 0.308                 | 0.241                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)                  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.346          | 0.201           | 0.03             | 23.96                 | 24.80               | 1.213         | 0.420                 | 0.244                  | 22.1             |
| Back side   | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.404          | 0.239           | -0.05            | 23.96                 | 24.80               | 1.213         | 0.490                 | 0.290                  | 22.1             |
| Left side   | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.137          | 0.094           | 0.04             | 23.96                 | 24.80               | 1.213         | 0.166                 | 0.114                  | 22.1             |
| Right side  | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.512          | 0.360           | 0.15             | 23.96                 | 24.80               | 1.213         | <b>0.621</b>          | 0.437                  | 22.1             |
| Bottom side   | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.298          | 0.155           | 0.02             | 23.96                 | 24.80               | 1.213         | 0.362                 | 0.188                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)                |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 25 25              | 23780/709      | 1:1        | 0.284          | 0.164           | 0.03             | 23.03                 | 23.80               | 1.194         | 0.339                 | 0.196                  | 22.1             |
| Back side   | 20        | QPSK       | 25 25              | 23780/709      | 1:1        | 0.328          | 0.195           | 0.04             | 23.03                 | 23.80               | 1.194         | 0.392                 | 0.233                  | 22.1             |
| Left side   | 20        | QPSK       | 25 25              | 23780/709      | 1:1        | 0.122          | 0.086           | 0.01             | 23.03                 | 23.80               | 1.194         | 0.146                 | 0.102                  | 22.1             |
| Right side  | 20        | QPSK       | 25 25              | 23780/709      | 1:1        | 0.422          | 0.297           | -0.11            | 23.03                 | 23.80               | 1.194         | 0.504                 | 0.355                  | 22.1             |
| Bottom side   | 20        | QPSK       | 25 25              | 23780/709      | 1:1        | 0.238          | 0.124           | 0.01             | 23.03                 | 23.80               | 1.194         | 0.284                 | 0.148                  | 22.1             |
| Body Test Data at the worst case with Battery 2#      |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right side  | 10        | QPSK       | 1 49               | 23780/709      | 1:1        | 0.470          | 0.328           | -0.04            | 23.96                 | 24.80               | 1.213         | 0.570                 | 0.398                  | 22.1             |

Table 35: SAR of LTE Band 17 for Head and Body.

Note:

- The maximum measured SAR value and Scaled SAR value are marked in bold. Graph results refer to Appendix B.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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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).

| Test Position   | Channel/<br>Frequency | Measured SAR<br>(1g) | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated | 3 <sup>rd</sup> Repeated |
|---|-----------------------|----------------------|--------------------------|-------|--------------------------|--------------------------|
|   | (MHz)                 |                      | SAR (1g)                 |       | SAR (1g)                 | SAR (1g)                 |
| <b>Ant0</b>   |                       |                      |                          |       |                          |                          |
| Left cheek  | 23780/709             | 0.854                | 0.833                    | 1.025 | N/A                      | N/A                      |
| Note: 1) When the original highest measured SAR is $\geq 0.80$ W/kg, the measurement was repeated once.<br>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 (~ 10% from the 1-g SAR limit).<br>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 $> 1.20$ .<br>4) Repeated measurements are not required when the original highest measured SAR is $< 0.80$ W/kg |                       |                      |                          |       |                          |                          |

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### 8.4.7 SAR Result of LTE Band 26

| Ant 0 Test Record                                |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|--|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position                                    | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW.       | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)                              |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek                                       | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.320          | 0.178           | 0.06             | 23.75                 | 24.60               | 1.216         | 0.389                 | 0.216                  | 22.1             |
| Left tilted                                      | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.063          | 0.043           | 0.04             | 23.75                 | 24.60               | 1.216         | 0.076                 | 0.052                  | 22.1             |
| Right cheek                                      | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.576          | 0.285           | 0.09             | 23.75                 | 24.60               | 1.216         | <b>0.701</b>          | 0.347                  | 22.1             |
| Right tilted                                     | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.126          | 0.082           | 0.11             | 23.75                 | 24.60               | 1.216         | 0.153                 | 0.100                  | 22.1             |
| Head Test Data(50%RB)                            |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek                                       | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.284          | 0.182           | 0.02             | 22.85                 | 23.60               | 1.189         | 0.338                 | 0.216                  | 22.1             |
| Left tilted                                      | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.058          | 0.040           | 0.05             | 22.85                 | 23.60               | 1.189         | 0.069                 | 0.047                  | 22.1             |
| Right cheek                                      | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.348          | 0.174           | 0.03             | 22.85                 | 23.60               | 1.189         | 0.414                 | 0.207                  | 22.1             |
| Right tilted                                     | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.082          | 0.054           | 0.03             | 22.85                 | 23.60               | 1.189         | 0.098                 | 0.064                  | 22.1             |
| Head Test Data at the worst case with Battery 2# |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek                                      | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.570          | 0.282           | 0.03             | 23.75                 | 24.60               | 1.216         | 0.693                 | 0.343                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)           |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side                                       | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.090          | 0.061           | 0.03             | 23.75                 | 24.60               | 1.216         | 0.109                 | 0.074                  | 22.1             |
| Back side  | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.130          | 0.084           | 0.03             | 23.75                 | 24.60               | 1.216         | <b>0.158</b>          | 0.102                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)         |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side                                       | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.060          | 0.041           | 0.09             | 22.85                 | 23.60               | 1.189         | 0.071                 | 0.048                  | 22.1             |
| Back side  | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.083          | 0.054           | 0.01             | 22.85                 | 23.60               | 1.189         | 0.099                 | 0.064                  | 22.1             |
| Body Test Data at the worst case with Battery 2# |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side  | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.128          | 0.083           | 0.03             | 23.75                 | 24.60               | 1.216         | 0.156                 | 0.101                  | 22.1             |
| Body Test Data (10mm)(1RB)                       |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side                                       | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.154          | 0.095           | 0.17             | 23.75                 | 24.60               | 1.216         | 0.187                 | 0.115                  | 22.1             |
| Back side  | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.158          | 0.096           | -0.04            | 23.75                 | 24.60               | 1.216         | 0.192                 | 0.117                  | 22.1             |
| Left side  | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.289          | 0.164           | 0.11             | 23.75                 | 24.60               | 1.216         | <b>0.351</b>          | 0.199                  | 22.1             |
| Top side   | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.009          | 0.006           | 0.12             | 23.75                 | 24.60               | 1.216         | 0.011                 | 0.007                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)           |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side                                       | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.100          | 0.067           | 0.04             | 22.85                 | 23.60               | 1.189         | 0.119                 | 0.079                  | 22.1             |
| Back side  | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.146          | 0.088           | 0.05             | 22.85                 | 23.60               | 1.189         | 0.174                 | 0.105                  | 22.1             |
| Left side  | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.194          | 0.110           | -0.04            | 22.85                 | 23.60               | 1.189         | 0.231                 | 0.131                  | 22.1             |
| Top side   | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.004          | 0.002           | 0.05             | 22.85                 | 23.60               | 1.189         | 0.005                 | 0.002                  | 22.1             |
| Body Test Data at the worst case with Battery 2# |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left side  | 15        | QPSK       | 1_0                | 26965/841.5    | 1:1        | 0.286          | 0.162           | 0.14             | 23.75                 | 24.60               | 1.216         | 0.348                 | 0.197                  | 22.1             |

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| Ant 1 Test Record                                      |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|--|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position  | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)                                    |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.095          | 0.074           | 0.04             | 24.09                 | 24.80               | 1.178         | 0.112                 | 0.087                  | 22.1             |
| Left tilted  | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.058          | 0.041           | 0.03             | 24.09                 | 24.80               | 1.178         | 0.069                 | 0.049                  | 22.1             |
| Right cheek  | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.125          | 0.094           | 0.07             | 24.09                 | 24.80               | 1.178         | <b>0.147</b>          | 0.111                  | 22.1             |
| Right tilted   | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.077          | 0.060           | 0.01             | 24.09                 | 24.80               | 1.178         | 0.090                 | 0.071                  | 22.1             |
| Head Test Data(50%RB)                                  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.071          | 0.050           | 0.02             | 23.19                 | 23.80               | 1.151         | 0.082                 | 0.057                  | 22.1             |
| Left tilted  | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.044          | 0.031           | 0.08             | 23.19                 | 23.80               | 1.151         | 0.051                 | 0.036                  | 22.1             |
| Right cheek  | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.092          | 0.070           | 0.09             | 23.19                 | 23.80               | 1.151         | 0.106                 | 0.081                  | 22.1             |
| Right tilted   | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.058          | 0.046           | 0.06             | 23.19                 | 23.80               | 1.151         | 0.067                 | 0.053                  | 22.1             |
| Head Test Data at the worst case with Battery 2#       |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek  | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.122          | 0.092           | 0.01             | 24.09                 | 24.80               | 1.178         | 0.144                 | 0.108                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)                 |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.113          | 0.087           | 0.03             | 24.09                 | 24.80               | 1.178         | 0.133                 | 0.102                  | 22.1             |
| Back side  | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.142          | 0.108           | 0.11             | 24.09                 | 24.80               | 1.178         | <b>0.167</b>          | 0.127                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)               |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.098          | 0.075           | 0.02             | 23.19                 | 23.80               | 1.151         | 0.113                 | 0.086                  | 22.1             |
| Back side  | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.111          | 0.085           | 0.14             | 23.19                 | 23.80               | 1.151         | 0.128                 | 0.098                  | 22.1             |
| Body worn Test data at the worst case with Battery 2#  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side  | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.128          | 0.097           | -0.03            | 24.09                 | 24.80               | 1.178         | 0.151                 | 0.115                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)                   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.197          | 0.130           | -0.08            | 24.09                 | 24.80               | 1.178         | 0.232                 | 0.153                  | 22.1             |
| Back side  | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.221          | 0.130           | 0.08             | 24.09                 | 24.80               | 1.178         | <b>0.260</b>          | 0.153                  | 22.1             |
| Left side  | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.063          | 0.044           | 0.02             | 24.09                 | 24.80               | 1.178         | 0.074                 | 0.052                  | 22.1             |
| Right side   | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.207          | 0.141           | 0.15             | 24.09                 | 24.80               | 1.178         | 0.244                 | 0.166                  | 22.1             |
| Bottom side  | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.163          | 0.095           | 0.07             | 24.09                 | 24.80               | 1.178         | 0.192                 | 0.111                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)                 |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.152          | 0.100           | -0.01            | 23.19                 | 23.80               | 1.151         | 0.175                 | 0.115                  | 22.1             |
| Back side  | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.174          | 0.114           | 0.01             | 23.19                 | 23.80               | 1.151         | 0.200                 | 0.131                  | 22.1             |
| Left side  | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.051          | 0.036           | 0.16             | 23.19                 | 23.80               | 1.151         | 0.059                 | 0.041                  | 22.1             |
| Right side   | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.165          | 0.114           | 0.02             | 23.19                 | 23.80               | 1.151         | 0.190                 | 0.131                  | 22.1             |
| Bottom side  | 15        | QPSK       | 36_39              | 26765/821.5    | 1:1        | 0.126          | 0.073           | 0.06             | 23.19                 | 23.80               | 1.151         | 0.145                 | 0.084                  | 22.1             |
| Body Test Data at the worst case with Battery 2#(10mm) |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side  | 15        | QPSK       | 1_74               | 26765/821.5    | 1:1        | 0.195          | 0.117           | 0.09             | 24.09                 | 24.80               | 1.178         | 0.230                 | 0.138                  | 22.1             |

Table 36: SAR of LTE Band 26 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

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### 8.4.1 SAR Result of LTE Band 38

| Test position   | Test mode |            |                    | Test ch./Freq.             | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|---|-----------|------------|--------------------|----------------------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
|   | BW.       | Modulation | RB Size_ RB offset |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Ant 0 Test Record                                     |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)                                   |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 1 50               | 38000/2595                 | 1:1.58     | 0.305          | 0.155           | 0.17             | 19.79                 | 20.10               | 1.074         | 0.328                 | 0.166                  | 22.1             |
| Left tilted   | 20        | QPSK       | 1 50               | 38000/2595                 | 1:1.58     | 0.097          | 0.045           | -0.08            | 19.79                 | 20.10               | 1.074         | 0.104                 | 0.048                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1 50               | 38000/2595                 | 1:1.58     | 0.747          | 0.313           | 0.00             | 19.79                 | 20.10               | 1.074         | 0.802                 | 0.336                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1 0                | 37850/2580                 | 1:1.58     | 0.800          | 0.341           | 0.00             | 19.65                 | 20.10               | 1.109         | 0.887                 | 0.378                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1 0                | 38150/2610                 | 1:1.58     | 0.733          | 0.309           | 0.04             | 19.79                 | 20.10               | 1.074         | 0.787                 | 0.332                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 50               | 38000/2595                 | 1:1.58     | 0.292          | 0.130           | 0.00             | 19.79                 | 20.10               | 1.074         | 0.314                 | 0.140                  | 22.1             |
| Head Test Data(50%RB)                                 |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 50 0               | 38000/2595                 | 1:1.58     | 0.315          | 0.163           | -0.08            | 19.85                 | 20.10               | 1.059         | 0.334                 | 0.173                  | 22.1             |
| Left tilted   | 20        | QPSK       | 50 0               | 38000/2595                 | 1:1.58     | 0.100          | 0.045           | 0.07             | 19.85                 | 20.10               | 1.059         | 0.106                 | 0.048                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 0               | 38000/2595                 | 1:1.58     | 0.790          | 0.335           | 0.00             | 19.85                 | 20.10               | 1.059         | 0.837                 | 0.355                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 0               | 37850/2580                 | 1:1.58     | 0.911          | 0.376           | -0.03            | 19.84                 | 20.10               | 1.062         | <b>0.967</b>          | 0.399                  | 22.1             |
| Right cheek-Repeat                                    | 20        | QPSK       | 50_0               | 37850/2580                 | 1:1.58     | 0.806          | 0.344           | 0.00             | 19.84                 | 20.10               | 1.062         | 0.856                 | 0.365                  | 22.1             |
| Right cheek   | 20        | QPSK       | PCC 1 0<br>SCC 0 0 | 37850/2580<br>38048/2599.8 | 1:1.58     | 0.788          | 0.336           | -0.02            | 19.68                 | 20.10               | 1.102         | 0.868                 | 0.370                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 0               | 38150/2610                 | 1:1.58     | 0.745          | 0.313           | 0.00             | 19.76                 | 20.10               | 1.081         | 0.806                 | 0.338                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 0               | 38000/2595                 | 1:1.58     | 0.284          | 0.124           | -0.06            | 19.85                 | 20.10               | 1.059         | 0.301                 | 0.131                  | 22.1             |
| Head Test Data(100%RB)                                |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek   | 20        | QPSK       | 100 0              | 38150/2610                 | 1:1.58     | 0.837          | 0.344           | 0.00             | 19.79                 | 20.10               | 1.074         | 0.899                 | 0.369                  | 22.1             |
| Head Test Data at the worst case with Battery 2#      |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek   | 20        | QPSK       | 50 0               | 37850/2580                 | 1:1.58     | 0.798          | 0.341           | 0.09             | 19.84                 | 20.10               | 1.062         | 0.847                 | 0.362                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)                |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1 50               | 38000/2595                 | 1:1.58     | 0.145          | 0.074           | 0.08             | 22.66                 | 23.00               | 1.081         | 0.157                 | 0.080                  | 22.1             |
| Back side   | 20        | QPSK       | 1 50               | 38000/2595                 | 1:1.58     | 0.240          | 0.115           | -0.14            | 22.66                 | 23.00               | 1.081         | <b>0.260</b>          | 0.124                  | 22.1             |
| Back side   | 20        | QPSK       | PCC 1 0<br>SCC 0 0 | 37850/2580<br>38048/2599.8 | 1:1.58     | 0.231          | 0.114           | 0.01             | 22.58                 | 23.00               | 1.102         | 0.254                 | 0.126                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)              |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50 0               | 38000/2595                 | 1:1.58     | 0.120          | 0.061           | -0.02            | 21.66                 | 22.00               | 1.081         | 0.130                 | 0.066                  | 22.1             |
| Back side   | 20        | QPSK       | 50 0               | 38000/2595                 | 1:1.58     | 0.199          | 0.096           | -0.09            | 21.66                 | 22.00               | 1.081         | 0.215                 | 0.104                  | 22.1             |
| Body worn Test data at the worst case with Battery 2# |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side   | 20        | QPSK       | 1 50               | 38000/2595                 | 1:1.58     | 0.237          | 0.114           | -0.16            | 22.66                 | 23.00               | 1.081         | 0.256                 | 0.123                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)                  |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1 50               | 38000/2595                 | 1:1.58     | 0.283          | 0.138           | -0.07            | 22.66                 | 23.00               | 1.081         | 0.306                 | 0.149                  | 22.1             |
| Back side   | 20        | QPSK       | 1 50               | 38000/2595                 | 1:1.58     | 0.537          | 0.239           | 0.06             | 22.66                 | 23.00               | 1.081         | 0.581                 | 0.258                  | 22.1             |
| Left side   | 20        | QPSK       | 1 50               | 38000/2595                 | 1:1.58     | 0.659          | 0.283           | -0.07            | 22.66                 | 23.00               | 1.081         | <b>0.713</b>          | 0.306                  | 22.1             |
| Left side   | 20        | QPSK       | PCC 1 0<br>SCC 0 0 | 37850/2580<br>38048/2599.8 | 1:1.58     | 0.635          | 0.278           | 0.04             | 22.58                 | 23.00               | 1.102         | 0.699                 | 0.306                  | 22.1             |
| Top side  | 20        | QPSK       | 1 50               | 38000/2595                 | 1:1.58     | 0.053          | 0.028           | 0.08             | 22.66                 | 23.00               | 1.081         | 0.057                 | 0.030                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)                |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50 0               | 38000/2595                 | 1:1.58     | 0.237          | 0.114           | 0.16             | 21.66                 | 22.00               | 1.081         | 0.256                 | 0.123                  | 22.1             |
| Back side   | 20        | QPSK       | 50 0               | 38000/2595                 | 1:1.58     | 0.450          | 0.201           | -0.16            | 21.66                 | 22.00               | 1.081         | 0.487                 | 0.217                  | 22.1             |
| Left side   | 20        | QPSK       | 50 0               | 38000/2595                 | 1:1.58     | 0.544          | 0.233           | -0.08            | 21.66                 | 22.00               | 1.081         | 0.588                 | 0.252                  | 22.1             |
| Top side  | 20        | QPSK       | 50 0               | 38000/2595                 | 1:1.58     | 0.044          | 0.023           | -0.02            | 21.66                 | 22.00               | 1.081         | 0.048                 | 0.025                  | 22.1             |
| Body Test Data at the worst case with Battery 2#      |           |            |                    |                            |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left side   | 20        | QPSK       | 1 50               | 38000/2595                 | 1:1.58     | 0.655          | 0.282           | -0.13            | 22.66                 | 23.00               | 1.081         | 0.708                 | 0.305                  | 22.1             |

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| Ant 2 Test Record                                     |           |            |                    |                            |                  |                |                 |                  |                       |                     |               |                       |                        |                  |
|---|-----------|------------|--------------------|----------------------------|------------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode |            |                    | Test ch./Freq.             | Duty Cycle       | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW.       | Modulation | RB Size_RB offset  |                            |                  |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)                                   |           |            |                    |                            |                  |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 1 0                | 37850/2580                 | 1:1.58           | 0.409          | 0.188           | 0.10             | 15.78                 | 16.50               | 1.180         | 0.483                 | 0.222                  | 22.1             |
| Left tilted   | 20        | QPSK       | 1 0                | 37850/2580                 | 1:1.58           | 0.541          | 0.242           | -0.03            | 15.78                 | 16.50               | 1.180         | 0.639                 | 0.286                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1 0                | 37850/2580                 | 1:1.58           | 0.759          | 0.305           | 0.07             | 15.78                 | 16.50               | 1.180         | 0.896                 | 0.360                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1 0                | 38000/2595                 | 1:1.58           | 0.763          | 0.303           | -0.07            | 15.77                 | 16.50               | 1.183         | 0.903                 | 0.358                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1 0                | 38150/2610                 | 1:1.58           | 0.754          | 0.299           | -0.19            | 15.78                 | 16.50               | 1.180         | 0.890                 | 0.353                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 0                | 37850/2580                 | 1:1.58           | 0.725          | 0.302           | 0.03             | 15.78                 | 16.50               | 1.180         | 0.856                 | 0.356                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 0                | 38000/2595                 | 1:1.58           | 0.720          | 0.300           | 0.04             | 15.77                 | 16.50               | 1.183         | 0.852                 | 0.355                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 0                | 38150/2610                 | 1:1.58           | 0.692          | 0.286           | 0.02             | 15.78                 | 16.50               | 1.180         | 0.817                 | 0.338                  | 22.1             |
| Head Test Data(50%RB)                                 |           |            |                    |                            |                  |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 50 25              | 38150/2610                 | 1:1.58           | 0.411          | 0.189           | 0.18             | 15.78                 | 16.50               | 1.180         | 0.485                 | 0.223                  | 22.1             |
| Left tilted   | 20        | QPSK       | 50 25              | 38150/2610                 | 1:1.58           | 0.558          | 0.249           | 0.05             | 15.78                 | 16.50               | 1.180         | 0.659                 | 0.294                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 25              | 38150/2610                 | 1:1.58           | 0.766          | 0.303           | -0.16            | 15.78                 | 16.50               | 1.180         | <b>0.904</b>          | 0.358                  | 22.1             |
| Right cheek   | 20        | QPSK       | PCC 1 0<br>SCC 0 0 | 38150/2610<br>37952/2590.2 | 1:1.58<br>1:1.58 | 0.681          | 0.282           | -0.06            | 15.62                 | 16.50               | 1.225         | 0.834                 | 0.345                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 25              | 37850/2580                 | 1:1.58           | 0.764          | 0.305           | 0.01             | 15.77                 | 16.50               | 1.183         | 0.904                 | 0.361                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 25              | 38000/2595                 | 1:1.58           | 0.745          | 0.297           | 0.01             | 15.72                 | 16.50               | 1.197         | 0.892                 | 0.355                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 25              | 38150/2610                 | 1:1.58           | 0.695          | 0.271           | -0.01            | 15.78                 | 16.50               | 1.180         | 0.820                 | 0.320                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 25              | 37850/2580                 | 1:1.58           | 0.719          | 0.301           | 0.02             | 15.77                 | 16.50               | 1.183         | 0.851                 | 0.356                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 25              | 38000/2595                 | 1:1.58           | 0.724          | 0.300           | 0.19             | 15.72                 | 16.50               | 1.197         | 0.866                 | 0.359                  | 22.1             |
| Head Test Data(100%RB)                                |           |            |                    |                            |                  |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek   | 20        | QPSK       | 100 0              | 38150/2610                 | 1:1.58           | 0.643          | 0.258           | 0.06             | 15.75                 | 16.50               | 1.189         | 0.764                 | 0.307                  | 22.1             |
| Right tilted  | 20        | QPSK       | 100 0              | 38150/2610                 | 1:1.58           | 0.627          | 0.252           | 0.05             | 15.75                 | 16.50               | 1.189         | 0.745                 | 0.300                  | 22.1             |
| Head Test Data at the worst case with Battery 2#      |           |            |                    |                            |                  |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek   | 20        | QPSK       | 50 25              | 38150/2610                 | 1:1.58           | 0.758          | 0.300           | -0.17            | 15.78                 | 16.50               | 1.180         | 0.895                 | 0.354                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)                |           |            |                    |                            |                  |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1 0                | 38150/2610                 | 1:1.58           | 0.186          | 0.097           | -0.04            | 20.66                 | 21.30               | 1.159         | 0.216                 | 0.113                  | 22.1             |
| Back side   | 20        | QPSK       | 1 0                | 38150/2610                 | 1:1.58           | 0.232          | 0.121           | 0.00             | 20.66                 | 21.30               | 1.159         | <b>0.269</b>          | 0.140                  | 22.1             |
| Back side   | 20        | QPSK       | PCC 1 0<br>SCC 0 0 | 38150/2610<br>37952/2590.2 | 1:1.58<br>1:1.58 | 0.218          | 0.116           | -0.03            | 20.54                 | 21.30               | 1.191         | 0.260                 | 0.138                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)              |           |            |                    |                            |                  |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50 25              | 37850/2580                 | 1:1.58           | 0.186          | 0.097           | -0.01            | 20.65                 | 21.30               | 1.161         | 0.216                 | 0.113                  | 22.1             |
| Back side   | 20        | QPSK       | 50 25              | 37850/2580                 | 1:1.58           | 0.227          | 0.118           | -0.04            | 20.65                 | 21.30               | 1.161         | 0.264                 | 0.137                  | 22.1             |
| Body worn Test data at the worst case with Battery 2# |           |            |                    |                            |                  |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side   | 20        | QPSK       | 1 0                | 38150/2610                 | 1:1.58           | 0.229          | 0.120           | -0.09            | 20.66                 | 21.30               | 1.159         | 0.265                 | 0.139                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)                  |           |            |                    |                            |                  |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1 0                | 38150/2610                 | 1:1.58           | 0.424          | 0.212           | -0.05            | 20.66                 | 21.30               | 1.159         | 0.491                 | 0.246                  | 22.1             |
| Back side   | 20        | QPSK       | 1 0                | 38150/2610                 | 1:1.58           | 0.428          | 0.216           | -0.02            | 20.66                 | 21.30               | 1.159         | 0.496                 | 0.250                  | 22.1             |
| Left side   | 20        | QPSK       | 1 0                | 38150/2610                 | 1:1.58           | 0.077          | 0.030           | -0.01            | 20.66                 | 21.30               | 1.159         | 0.089                 | 0.035                  | 22.1             |
| Top side  | 20        | QPSK       | 1 0                | 38150/2610                 | 1:1.58           | 0.870          | 0.400           | 0.12             | 20.66                 | 21.30               | 1.159         | 1.008                 | 0.464                  | 22.1             |
| Top side  | 20        | QPSK       | 1 0                | 37850/2580                 | 1:1.58           | 0.870          | 0.400           | 0.10             | 20.51                 | 21.30               | 1.199         | 1.044                 | 0.480                  | 22.1             |
| Top side  | 20        | QPSK       | 1 0                | 38000/2595                 | 1:1.58           | 0.888          | 0.410           | 0.13             | 20.61                 | 21.30               | 1.172         | 1.041                 | 0.481                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)                |           |            |                    |                            |                  |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50 25              | 37850/2580                 | 1:1.58           | 0.432          | 0.216           | -0.02            | 20.65                 | 21.30               | 1.161         | 0.502                 | 0.251                  | 22.1             |
| Back side   | 20        | QPSK       | 50 25              | 37850/2580                 | 1:1.58           | 0.464          | 0.222           | -0.01            | 20.65                 | 21.30               | 1.161         | 0.539                 | 0.258                  | 22.1             |
| Left side   | 20        | QPSK       | 50 25              | 37850/2580                 | 1:1.58           | 0.071          | 0.029           | 0.04             | 20.65                 | 21.30               | 1.161         | 0.083                 | 0.033                  | 22.1             |
| Top side  | 20        | QPSK       | 50 25              | 37850/2580                 | 1:1.58           | 0.900          | 0.414           | 0.03             | 20.65                 | 21.30               | 1.161         | <b>1.045</b>          | 0.481                  | 22.1             |
| Top side  | 20        | QPSK       | PCC 1 0<br>SCC 0 0 | 37850/2580<br>38048/2599.8 | 1:1.58<br>1:1.58 | 0.861          | 0.391           | 0.01             | 20.50                 | 21.30               | 1.202         | 1.035                 | 0.470                  | 22.1             |
| Top side-Repeat                                       | 20        | QPSK       | 50 25              | 37850/2580                 | 1:1.58           | 0.808          | 0.371           | 0.03             | 20.65                 | 21.30               | 1.161         | 0.938                 | 0.431                  | 22.1             |
| Top side  | 20        | QPSK       | 50 25              | 38000/2595                 | 1:1.58           | 0.897          | 0.414           | 0.02             | 20.64                 | 21.30               | 1.164         | 1.044                 | 0.482                  | 22.1             |
| Top side  | 20        | QPSK       | 50 25              | 38150/2610                 | 1:1.58           | 0.891          | 0.413           | 0.08             | 20.62                 | 21.30               | 1.169         | 1.042                 | 0.483                  | 22.1             |
| Hotspot Test data(Separate 10mm 100%RB)               |           |            |                    |                            |                  |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side  | 20        | QPSK       | 100 0              | 37850/2580                 | 1:1.58           | 0.892          | 0.411           | 0.03             | 20.63                 | 21.30               | 1.167         | 1.041                 | 0.480                  | 22.1             |

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| Body Test Data at the worst case with Battery 2#   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|--|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Top side   | 20        | QPSK       | 50 25              | 37850/2580     | 1:1.58     | 0.891          | 0.410           | 0.09             | 20.65                 | 21.30               | 1.161         | 1.035                 | 0.476                  | 22.1             |
| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW.       | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 1 0                | 37850/2580     | 1:1.58     | 0.283          | 0.130           | -0.09            | 14.01                 | 14.90               | 1.227         | 0.347                 | 0.160                  | 22.1             |
| Left tilted  | 20        | QPSK       | 1 0                | 37850/2580     | 1:1.58     | 0.374          | 0.167           | 0.06             | 14.01                 | 14.90               | 1.227         | 0.459                 | 0.205                  | 22.1             |
| Head Test Data(50%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 50 25              | 38150/2610     | 1:1.58     | 0.284          | 0.131           | 0.13             | 14.11                 | 14.90               | 1.199         | 0.341                 | 0.157                  | 22.1             |
| Left tilted  | 20        | QPSK       | 50 25              | 38150/2610     | 1:1.58     | 0.386          | 0.172           | 0.01             | 14.11                 | 14.90               | 1.199         | 0.463                 | 0.206                  | 22.1             |
| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW.       | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 1 0                | 37850/2580     | 1:1.58     | 0.317          | 0.146           | -0.04            | 14.55                 | 15.40               | 1.216         | 0.386                 | 0.178                  | 22.1             |
| Left tilted  | 20        | QPSK       | 1 0                | 37850/2580     | 1:1.58     | 0.420          | 0.188           | 0.05             | 14.55                 | 15.40               | 1.216         | 0.511                 | 0.229                  | 22.1             |
| Head Test Data(50%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 50 25              | 38150/2610     | 1:1.58     | 0.319          | 0.147           | 0.17             | 14.59                 | 15.40               | 1.205         | 0.384                 | 0.177                  | 22.1             |
| Left tilted  | 20        | QPSK       | 50 25              | 38150/2610     | 1:1.58     | 0.433          | 0.193           | 0.16             | 14.59                 | 15.40               | 1.205         | 0.522                 | 0.233                  | 22.1             |
| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/ WWAN+WLAN 2.4G Receiver off/WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/WWAN+WLAN 5G+BT Receiver off) |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW.       | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Hotspot Test data(Separate 10mm 1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side   | 20        | QPSK       | 1 0                | 37850/2580     | 1:1.58     | 0.556          | 0.259           | -0.07            | 18.78                 | 19.50               | 1.180         | 0.656                 | 0.306                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side   | 20        | QPSK       | 50 25              | 37850/2580     | 1:1.58     | 0.565          | 0.265           | 0.09             | 18.93                 | 19.50               | 1.140         | 0.644                 | 0.302                  | 22.1             |
| Ant 3 Test Record  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-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     | 0.137          | 0.073           | 0.12             | 23.42                 | 23.60               | 1.042         | 0.143                 | 0.077                  | 22.1             |
| Left tilted  | 20        | QPSK       | 1 0                | 38150/2610     | 1:1.58     | 0.091          | 0.046           | 0.02             | 23.42                 | 23.60               | 1.042         | 0.095                 | 0.048                  | 22.1             |
| Right cheek  | 20        | QPSK       | 1 0                | 38150/2610     | 1:1.58     | 0.289          | 0.151           | 0.05             | 23.42                 | 23.60               | 1.042         | <b>0.301</b>          | 0.157                  | 22.1             |
| Right cheek  | 20        | QPSK       | PCC 1 0            | 38150/2610     | 1:1.58     | 0.212          | 0.112           | -0.03            | 23.33                 | 23.60               | 1.064         | 0.226                 | 0.119                  | 22.1             |
|  |           |            | SCC 0 0            | 37952/2590.2   | 1:1.58     |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right tilted   | 20        | QPSK       | 1 0                | 38150/2610     | 1:1.58     | 0.079          | 0.040           | 0.03             | 23.42                 | 23.60               | 1.042         | 0.082                 | 0.041                  | 22.1             |
| Head Test Data(50%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 50 50              | 38000/2595     | 1:1.58     | 0.107          | 0.055           | 0.09             | 22.45                 | 22.60               | 1.035         | 0.111                 | 0.057                  | 22.1             |
| Left tilted  | 20        | QPSK       | 50 50              | 38000/2595     | 1:1.58     | 0.070          | 0.035           | 0.05             | 22.45                 | 22.60               | 1.035         | 0.073                 | 0.036                  | 22.1             |
| Right cheek  | 20        | QPSK       | 50 50              | 38000/2595     | 1:1.58     | 0.216          | 0.114           | 0.06             | 22.45                 | 22.60               | 1.035         | 0.224                 | 0.118                  | 22.1             |
| Right tilted   | 20        | QPSK       | 50 50              | 38000/2595     | 1:1.58     | 0.060          | 0.029           | 0.01             | 22.45                 | 22.60               | 1.035         | 0.062                 | 0.030                  | 22.1             |
| Head Test Data at the worst case with Battery 2#   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek  | 20        | QPSK       | 1 0                | 38150/2610     | 1:1.58     | 0.279          | 0.144           | 0.09             | 23.42                 | 23.60               | 1.042         | 0.291                 | 0.150                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 1 0                | 38150/2610     | 1:1.58     | 0.162          | 0.089           | -0.02            | 23.42                 | 23.60               | 1.042         | <b>0.169</b>          | 0.093                  | 22.1             |
| Front side   | 20        | QPSK       | PCC 1 0            | 38150/2610     | 1:1.58     | 0.150          | 0.076           | -0.04            | 23.33                 | 23.60               | 1.064         | 0.160                 | 0.081                  | 22.1             |
|  |           |            | SCC 0 0            | 37952/2590.2   | 1:1.58     |                |                 |                  |                       |                     |               |                       |                        |                  |

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|   |    |      |         |              |        |       |       |       |       |       |       |              |       |      |
|---|----|------|---------|--------------|--------|-------|-------|-------|-------|-------|-------|--------------|-------|------|
| Back side   | 20 | QPSK | 1 0     | 38150/2610   | 1:1.58 | 0.151 | 0.077 | 0.01  | 23.42 | 23.60 | 1.042 | 0.157        | 0.080 | 22.1 |
| Body worn Test data(Separate 15mm 50%RB)              |    |      |         |              |        |       |       |       |       |       |       |              |       |      |
| Front side  | 20 | QPSK | 50 50   | 38000/2595   | 1:1.58 | 0.137 | 0.075 | -0.01 | 22.45 | 22.60 | 1.035 | 0.142        | 0.077 | 22.1 |
| Back side   | 20 | QPSK | 50 50   | 38000/2595   | 1:1.58 | 0.124 | 0.064 | 0.05  | 22.45 | 22.60 | 1.035 | 0.128        | 0.067 | 22.1 |
| Body worn Test data at the worst case with Battery 2# |    |      |         |              |        |       |       |       |       |       |       |              |       |      |
| Front side  | 20 | QPSK | 1 0     | 38150/2610   | 1:1.58 | 0.161 | 0.089 | 0.01  | 23.42 | 23.60 | 1.042 | 0.168        | 0.092 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB)                  |    |      |         |              |        |       |       |       |       |       |       |              |       |      |
| Front side  | 20 | QPSK | 1 0     | 38150/2610   | 1:1.58 | 0.296 | 0.156 | -0.07 | 23.42 | 23.60 | 1.042 | 0.309        | 0.163 | 22.1 |
| Back side   | 20 | QPSK | 1 0     | 38150/2610   | 1:1.58 | 0.303 | 0.152 | 0.05  | 23.42 | 23.60 | 1.042 | 0.316        | 0.158 | 22.1 |
| Left side   | 20 | QPSK | 1 0     | 38150/2610   | 1:1.58 | 0.003 | 0.001 | 0.05  | 23.42 | 23.60 | 1.042 | 0.003        | 0.001 | 22.1 |
| Right side  | 20 | QPSK | 1 0     | 38150/2610   | 1:1.58 | 0.594 | 0.280 | -0.05 | 23.42 | 23.60 | 1.042 | <b>0.619</b> | 0.292 | 22.1 |
| Right side  | 20 | QPSK | PCC 1 0 | 38150/2610   | 1:1.58 | 0.574 | 0.266 | -0.01 | 23.33 | 23.60 | 1.064 | 0.611        | 0.283 | 22.1 |
|   |    |      | SCC 0 0 | 37952/2590.2 | 1:1.58 |       |       |       |       |       |       |              |       |      |
| Bottom side   | 20 | QPSK | 1 0     | 38150/2610   | 1:1.58 | 0.196 | 0.085 | -0.02 | 23.42 | 23.60 | 1.042 | 0.204        | 0.089 | 22.1 |
| Hotspot Test data(Separate 10mm 50%RB)                |    |      |         |              |        |       |       |       |       |       |       |              |       |      |
| Front side  | 20 | QPSK | 50 50   | 38000/2595   | 1:1.58 | 0.240 | 0.126 | -0.01 | 22.45 | 22.60 | 1.035 | 0.248        | 0.130 | 22.1 |
| Back side   | 20 | QPSK | 50 50   | 38000/2595   | 1:1.58 | 0.246 | 0.124 | -0.03 | 22.45 | 22.60 | 1.035 | 0.255        | 0.128 | 22.1 |
| Left side   | 20 | QPSK | 50 50   | 38000/2595   | 1:1.58 | 0.002 | 0.001 | -0.04 | 22.45 | 22.60 | 1.035 | 0.002        | 0.001 | 22.1 |
| Right side  | 20 | QPSK | 50 50   | 38000/2595   | 1:1.58 | 0.489 | 0.228 | -0.02 | 22.45 | 22.60 | 1.035 | 0.506        | 0.236 | 22.1 |
| Bottom side   | 20 | QPSK | 50 50   | 38000/2595   | 1:1.58 | 0.160 | 0.069 | -0.09 | 22.45 | 22.60 | 1.035 | 0.166        | 0.072 | 22.1 |
| Body Test Data at the worst case with Battery 2#      |    |      |         |              |        |       |       |       |       |       |       |              |       |      |
| Right side  | 20 | QPSK | 1 0     | 38150/2610   | 1:1.58 | 0.589 | 0.277 | -0.08 | 23.42 | 23.60 | 1.042 | 0.614        | 0.289 | 22.1 |

Table 37: SAR of LTE Band 38 for Head, Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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(1g SAR) or  $\leq 2.0$  W/kg(10g SAR) then testing at the other channels is not required for such test configuration(s).

| Test Position   | Channel/<br>Frequency<br>(MHz) | Measured SAR<br>(1g) | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated | 3 <sup>rd</sup> Repeated |
|---|--------------------------------|----------------------|--------------------------|-------|--------------------------|--------------------------|
|   |                                |                      | SAR (1g)                 |       | SAR (1g)                 | SAR (1g)                 |
| <b>Ant0</b>   |                                |                      |                          |       |                          |                          |
| Right cheek   | 37850/2580                     | 0.911                | 0.806                    | 1.130 | N/A                      | N/A                      |
| <b>Ant2</b>   |                                |                      |                          |       |                          |                          |
| Top side 10mm   | 37850/2580                     | 0.900                | 0.808                    | 1.114 | 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 (~ 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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**8.4.2 SAR Result of LTE Band 41**

| Ant 0 Test Record                                |           |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|--|-----------|------------|--------------------|------------------------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position                                    | Test mode |            |                    | Test ch./Freq.               | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW.       | Modulation | RB Size_ RB offset |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)                              |           |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek Class3                                | 20        | QPSK       | 1_0                | 39750/2506                   | 1:1.58     | 0.331          | 0.172           | 0.05             | 19.21                 | 19.50               | 1.069         | 0.354                 | 0.184                  | 22.1             |
| Left tilted (Class3)                             | 20        | QPSK       | 1_0                | 39750/2506                   | 1:1.58     | 0.094          | 0.042           | 0.06             | 19.21                 | 19.50               | 1.069         | 0.101                 | 0.044                  | 22.1             |
| Right cheek (Class3)                             | 20        | QPSK       | 1_0                | 39750/2506                   | 1:1.58     | 0.854          | 0.356           | 0.01             | 19.21                 | 19.50               | 1.069         | 0.913                 | 0.381                  | 22.1             |
| Right cheek (Class3)                             | 20        | QPSK       | 1_0                | 40185/2549.5                 | 1:1.58     | 0.903          | 0.378           | 0.02             | 19.21                 | 19.50               | 1.069         | 0.965                 | 0.404                  | 22.1             |
| Right cheek (Class3)                             | 20        | QPSK       | 1_0                | 40620/2593                   | 1:1.58     | 0.857          | 0.362           | -0.12            | 19.13                 | 19.50               | 1.089         | 0.933                 | 0.394                  | 22.1             |
| Right cheek (Class3)                             | 20        | QPSK       | 1_0                | 41055/2636.5                 | 1:1.58     | 0.739          | 0.308           | -0.05            | 19.05                 | 19.50               | 1.109         | 0.820                 | 0.342                  | 22.1             |
| Right cheek (Class3)                             | 20        | QPSK       | 1_99               | 41490/2680                   | 1:1.58     | 0.533          | 0.213           | -0.09            | 19.14                 | 19.50               | 1.086         | 0.579                 | 0.231                  | 22.1             |
| Right tilted (Class3)                            | 20        | QPSK       | 1_0                | 39750/2506                   | 1:1.58     | 0.273          | 0.119           | 0.02             | 19.19                 | 19.50               | 1.074         | 0.293                 | 0.128                  | 22.1             |
| Head Test Data(50%RB)                            |           |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek (Class3)                              | 20        | QPSK       | 50_25              | 39750/2506                   | 1:1.58     | 0.354          | 0.183           | 0.04             | 19.40                 | 19.50               | 1.023         | 0.362                 | 0.187                  | 22.1             |
| Left tilted (Class3)                             | 20        | QPSK       | 50_25              | 39750/2506                   | 1:1.58     | 0.104          | 0.046           | 0.04             | 19.40                 | 19.50               | 1.023         | 0.106                 | 0.047                  | 22.1             |
| Right cheek (Class3)                             | 20        | QPSK       | 50_25              | 39750/2506                   | 1:1.58     | 0.905          | 0.378           | 0.08             | 19.40                 | 19.50               | 1.023         | 0.926                 | 0.387                  | 22.1             |
| Right cheek (Class3)                             | 20        | QPSK       | 50_25              | 40185/2549.5                 | 1:1.58     | 0.944          | 0.399           | -0.07            | 19.39                 | 19.50               | 1.026         | <b>0.968</b>          | 0.409                  | 22.1             |
| Right cheek (Class2)                             | 20        | QPSK       | 50_25              | 40185/2549.5                 | 1:2.308    | 0.851          | 0.357           | -0.03            | 19.39                 | 19.50               | 1.026         | 0.873                 | 0.366                  | 22.1             |
| Right cheek-Repeat(Class3)                       | 20        | QPSK       | 50_25              | 40185/2549.5                 | 1:1.58     | 0.943          | 0.394           | 0.05             | 19.39                 | 19.50               | 1.026         | 0.967                 | 0.404                  | 22.1             |
| Right cheek (Class3)                             | 20        | QPSK       | PCC 1_0<br>SCC 0_0 | 40185/2549.5<br>40383/2569.3 | 1:1.58     | 0.707          | 0.295           | -0.04            | 19.11                 | 19.50               | 1.094         | 0.773                 | 0.323                  | 22.1             |
| Right cheek (Class3)                             | 20        | QPSK       | 50_50              | 40620/2593                   | 1:1.58     | 0.835          | 0.350           | -0.08            | 19.21                 | 19.50               | 1.069         | 0.893                 | 0.374                  | 22.1             |
| Right cheek (Class3)                             | 20        | QPSK       | 50_25              | 41055/2636.5                 | 1:1.58     | 0.721          | 0.298           | -0.14            | 19.25                 | 19.50               | 1.059         | 0.764                 | 0.316                  | 22.1             |
| Right cheek (Class3)                             | 20        | QPSK       | 50_0               | 41490/2680                   | 1:1.58     | 0.600          | 0.242           | -0.03            | 19.22                 | 19.50               | 1.067         | 0.640                 | 0.258                  | 22.1             |
| Right tilted (Class3)                            | 20        | QPSK       | 50_25              | 39750/2506                   | 1:1.58     | 0.286          | 0.125           | 0.07             | 19.40                 | 19.50               | 1.023         | 0.293                 | 0.128                  | 22.1             |
| Head Test Data(100%RB)                           |           |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek (Class3)                             | 20        | QPSK       | 100_0              | 39750/2506                   | 1:1.58     | 0.908          | 0.379           | 0.08             | 19.32                 | 19.50               | 1.042         | 0.946                 | 0.395                  | 22.1             |
| Head Test Data at the worst case with Battery 2# |           |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek (Class3)                             | 20        | QPSK       | 50_25              | 40185/2549.5                 | 1:1.58     | 0.939          | 0.397           | -0.08            | 19.39                 | 19.50               | 1.026         | 0.963                 | 0.407                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)           |           |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side (Class3)                              | 20        | QPSK       | 1_0                | 40620/2593                   | 1:1.58     | 0.086          | 0.044           | 0.06             | 19.67                 | 20.50               | 1.211         | 0.104                 | 0.053                  | 22.1             |
| Back side (Class3)                               | 20        | QPSK       | 1_0                | 40620/2593                   | 1:1.58     | 0.162          | 0.077           | 0.12             | 19.67                 | 20.50               | 1.211         | <b>0.196</b>          | 0.094                  | 22.1             |
| Back side (Class2)                               | 20        | QPSK       | 1_0                | 40620/2593                   | 1:2.308    | 0.115          | 0.057           | -0.04            | 19.67                 | 20.50               | 1.211         | 0.139                 | 0.069                  | 22.1             |
| Back side  | 20        | QPSK       | PCC 1_0            | 40620/2593                   | 1:1.58     | 0.157          | 0.079           | 0.01             | 19.61                 | 20.50               | 1.227         | 0.193                 | 0.097                  | 22.1             |

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| (Class3)  |           | SCC 0 0    |                    | 40818/2612.8   |            |                |                 |                  |                       |                     |               |                       |                        |                  |  |
|---|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|--|
| Body worn Test data(Separate 15mm 50%RB)              |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |  |
| Front side (Class3)                                   | 20        | QPSK       | 50_50              | 40620/2593     | 1:1.58     | 0.085          | 0.043           | 0.02             | 19.88                 | 20.50               | 1.153         | 0.098                 | 0.049                  | 22.1             |  |
| Back side (Class3)                                    | 20        | QPSK       | 50_50              | 40620/2593     | 1:1.58     | 0.159          | 0.076           | 0.00             | 19.88                 | 20.50               | 1.153         | 0.183                 | 0.087                  | 22.1             |  |
| Body worn Test data at the worst case with Battery 2# |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |  |
| Back side (Class3)                                    | 20        | QPSK       | 1_0                | 40620/2593     | 1:1.58     | 0.160          | 0.076           | 0.01             | 19.67                 | 20.50               | 1.211         | 0.194                 | 0.092                  | 22.1             |  |
| Hotspot Test data(Separate 10mm 1RB)                  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |  |
| Front side (Class3)                                   | 20        | QPSK       | 1_0                | 40620/2593     | 1:1.58     | 0.171          | 0.084           | 0.02             | 19.67                 | 20.50               | 1.211         | 0.207                 | 0.101                  | 22.1             |  |
| Back side (Class3)                                    | 20        | QPSK       | 1_0                | 40620/2593     | 1:1.58     | 0.343          | 0.150           | 0.11             | 19.67                 | 20.50               | 1.211         | 0.415                 | 0.182                  | 22.1             |  |
| Left side (Class3)                                    | 20        | QPSK       | 1_0                | 40620/2593     | 1:1.58     | 0.431          | 0.186           | 0.06             | 19.67                 | 20.50               | 1.211         | <b>0.522</b>          | 0.225                  | 22.1             |  |
| Left side (Class2)                                    | 20        | QPSK       | 1_0                | 40620/2593     | 1:2.308    | 0.263          | 0.115           | 0.02             | 19.67                 | 20.50               | 1.211         | 0.318                 | 0.139                  | 22.1             |  |
| Left side (Class3)                                    | 20        | QPSK       | PCC 1 0            | 40620/2593     | 1:1.58     | 0.406          | 0.182           | 0.01             | 19.61                 | 20.50               | 1.227         | 0.498                 | 0.223                  | 22.1             |  |
|   |           |            | SCC 0 0            | 40818/2612.8   |            |                |                 |                  |                       |                     |               |                       |                        |                  |  |
| Top side (Class3)                                     | 20        | QPSK       | 1_0                | 40620/2593     | 1:1.58     | 0.021          | 0.010           | 0.05             | 19.67                 | 20.50               | 1.211         | 0.025                 | 0.012                  | 22.1             |  |
| Hotspot Test data(Separate 10mm 50%RB)                |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |  |
| Front side (Class3)                                   | 20        | QPSK       | 50_50              | 40620/2593     | 1:1.58     | 0.176          | 0.087           | 0.01             | 19.88                 | 20.50               | 1.153         | 0.203                 | 0.100                  | 22.1             |  |
| Back side (Class3)                                    | 20        | QPSK       | 50_50              | 40620/2593     | 1:1.58     | 0.383          | 0.170           | 0.16             | 19.88                 | 20.50               | 1.153         | 0.442                 | 0.196                  | 22.1             |  |
| Left side (Class3)                                    | 20        | QPSK       | 50_50              | 40620/2593     | 1:1.58     | 0.446          | 0.192           | 0.05             | 19.88                 | 20.50               | 1.153         | 0.514                 | 0.221                  | 22.1             |  |
| Top side (Class3)                                     | 20        | QPSK       | 50_50              | 40620/2593     | 1:1.58     | 0.023          | 0.011           | -0.01            | 19.88                 | 20.50               | 1.153         | 0.027                 | 0.012                  | 22.1             |  |
| Body Test Data at the worst case with Battery 2#      |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |  |
| Left side (Class3)                                    | 20        | QPSK       | 1_0                | 40620/2593     | 1:1.58     | 0.412          | 0.177           | 0.02             | 19.67                 | 20.50               | 1.211         | 0.499                 | 0.214                  | 22.1             |  |
| Ant 2 Test Record                                     |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |  |
| Test position   | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |  |
|   | BW.       | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |  |
| Head Test Data(1RB)                                   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |  |
| Left cheek (Class3)                                   | 20        | QPSK       | 1_0                | 40620/2593     | 1:1.58     | 0.497          | 0.232           | 0.02             | 16.35                 | 16.40               | 1.012         | 0.503                 | 0.235                  | 22.1             |  |
| Left tilted (Class3)                                  | 20        | QPSK       | 1_0                | 40620/2593     | 1:1.58     | 0.586          | 0.264           | 0.05             | 16.35                 | 16.40               | 1.012         | 0.593                 | 0.267                  | 22.1             |  |
| Right cheek (Class3)                                  | 20        | QPSK       | 1_0                | 40620/2593     | 1:1.58     | 0.865          | 0.348           | 0.03             | 16.35                 | 16.40               | 1.012         | 0.875                 | 0.352                  | 22.1             |  |
| Right cheek (Class3)                                  | 20        | QPSK       | 1_0                | 39750/2506     | 1:1.58     | 0.801          | 0.324           | 0.04             | 16.07                 | 16.40               | 1.079         | 0.864                 | 0.350                  | 22.1             |  |
| Right cheek (Class3)                                  | 20        | QPSK       | 1_0                | 40185/2549.5   | 1:1.58     | 0.899          | 0.364           | -0.13            | 16.25                 | 16.40               | 1.035         | 0.931                 | 0.377                  | 22.1             |  |
| Right cheek (Class3)                                  | 20        | QPSK       | 1_0                | 41055/2636.5   | 1:1.58     | 0.840          | 0.336           | 0.03             | 16.24                 | 16.40               | 1.038         | 0.872                 | 0.349                  | 22.1             |  |
| Right cheek (Class3)                                  | 20        | QPSK       | 1_99               | 41490/2680     | 1:1.58     | 0.875          | 0.349           | -0.16            | 16.35                 | 16.40               | 1.012         | 0.885                 | 0.353                  | 22.1             |  |
| Right tilted (Class3)                                 | 20        | QPSK       | 1_0                | 40620/2593     | 1:1.58     | 0.944          | 0.370           | 0.01             | 16.35                 | 16.40               | 1.012         | 0.955                 | 0.374                  | 22.1             |  |
| Right tilted (Class3)                                 | 20        | QPSK       | 1_0                | 39750/2506     | 1:1.58     | 0.886          | 0.350           | 0.07             | 16.07                 | 16.40               | 1.079         | 0.956                 | 0.378                  | 22.1             |  |
| Right tilted (Class3)                                 | 20        | QPSK       | 1_0                | 40185/2549.5   | 1:1.58     | 0.875          | 0.354           | 0.04             | 16.25                 | 16.40               | 1.035         | 0.906                 | 0.366                  | 22.1             |  |
| Right tilted (Class3)                                 | 20        | QPSK       | 1_0                | 41055/2636.5   | 1:1.58     | 0.770          | 0.309           | 0.16             | 16.24                 | 16.40               | 1.038         | 0.799                 | 0.321                  | 22.1             |  |

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|   |    |      |                    |                              |         |       |       |       |       |       |       |              |       |      |
|---|----|------|--------------------|------------------------------|---------|-------|-------|-------|-------|-------|-------|--------------|-------|------|
| Right tilted (Class3)                                 | 20 | QPSK | 1_99               | 41490/2680                   | 1:1.58  | 0.746 | 0.288 | -0.07 | 16.35 | 16.40 | 1.012 | 0.755        | 0.291 | 22.1 |
| Head Test Data(50%RB)                                 |    |      |                    |                              |         |       |       |       |       |       |       |              |       |      |
| Left cheek (Class3)                                   | 20 | QPSK | 50_0               | 40620/2593                   | 1:1.58  | 0.497 | 0.231 | 0.08  | 16.30 | 16.40 | 1.023 | 0.509        | 0.236 | 22.1 |
| Left tilted (Class3)                                  | 20 | QPSK | 50_0               | 40620/2593                   | 1:1.58  | 0.578 | 0.260 | 0.05  | 16.30 | 16.40 | 1.023 | 0.591        | 0.266 | 22.1 |
| Right cheek (Class3)                                  | 20 | QPSK | 50_0               | 40620/2593                   | 1:1.58  | 0.873 | 0.349 | 0.02  | 16.30 | 16.40 | 1.023 | 0.893        | 0.357 | 22.1 |
| Right cheek (Class3)                                  | 20 | QPSK | 50_25              | 39750/2506                   | 1:1.58  | 0.880 | 0.362 | -0.09 | 16.19 | 16.40 | 1.050 | 0.924        | 0.380 | 22.1 |
| Right cheek (Class3)                                  | 20 | QPSK | 50_0               | 40185/2549.5                 | 1:1.58  | 0.922 | 0.373 | 0.06  | 16.25 | 16.40 | 1.035 | 0.954        | 0.386 | 22.1 |
| Right cheek (Class3)                                  | 20 | QPSK | 50_25              | 41055/2636.5                 | 1:1.58  | 0.859 | 0.343 | 0.15  | 16.23 | 16.40 | 1.040 | 0.893        | 0.357 | 22.1 |
| Right cheek (Class3)                                  | 20 | QPSK | 50_50              | 41490/2680                   | 1:1.58  | 0.901 | 0.361 | 0.04  | 16.26 | 16.40 | 1.033 | 0.931        | 0.373 | 22.1 |
| Right tilted (Class3)                                 | 20 | QPSK | 50_0               | 40620/2593                   | 1:1.58  | 0.944 | 0.369 | -0.05 | 16.30 | 16.40 | 1.023 | 0.966        | 0.378 | 22.1 |
| Right tilted (Class3)                                 | 20 | QPSK | 50_25              | 39750/2506                   | 1:1.58  | 0.961 | 0.376 | -0.02 | 16.19 | 16.40 | 1.050 | <b>1.009</b> | 0.395 | 22.1 |
| Right tilted (Class2)                                 | 20 | QPSK | 50_25              | 39750/2506                   | 1:2.308 | 0.541 | 0.214 | 0.01  | 16.19 | 16.40 | 1.050 | 0.568        | 0.225 | 22.1 |
| Right tilted-repeat(Class3)                           | 20 | QPSK | 50_25              | 39750/2506                   | 1:1.58  | 0.829 | 0.327 | -0.07 | 16.19 | 16.40 | 1.050 | 0.870        | 0.343 | 22.1 |
| Right tilted (Class3)                                 | 20 | QPSK | PCC 1_0<br>SCC 0_0 | 39750/2506<br>39948/2525.8   | 1:1.58  | 0.816 | 0.321 | 0.04  | 16.05 | 16.40 | 1.084 | 0.884        | 0.348 | 22.1 |
| Right tilted (Class3)                                 | 20 | QPSK | 50_0               | 40185/2549.5                 | 1:1.58  | 0.896 | 0.363 | 0.08  | 16.25 | 16.40 | 1.035 | 0.927        | 0.376 | 22.1 |
| Right tilted (Class3)                                 | 20 | QPSK | 50_25              | 41055/2636.5                 | 1:1.58  | 0.765 | 0.304 | 0.03  | 16.23 | 16.40 | 1.040 | 0.796        | 0.316 | 22.1 |
| Right tilted (Class3)                                 | 20 | QPSK | 50_50              | 41490/2680                   | 1:1.58  | 0.768 | 0.297 | 0.02  | 16.26 | 16.40 | 1.033 | 0.793        | 0.307 | 22.1 |
| Head Test Data(100%RB)                                |    |      |                    |                              |         |       |       |       |       |       |       |              |       |      |
| Right cheek (Class3)                                  | 20 | QPSK | 100_0              | 39750/2506                   | 1:1.58  | 0.750 | 0.309 | 0.03  | 16.23 | 16.40 | 1.040 | 0.780        | 0.321 | 22.1 |
| Right tilted (Class3)                                 | 20 | QPSK | 100_0              | 39750/2506                   | 1:1.58  | 0.819 | 0.329 | 0.02  | 16.23 | 16.40 | 1.040 | 0.852        | 0.342 | 22.1 |
| Head Test Data at the worst case with Battery 2#      |    |      |                    |                              |         |       |       |       |       |       |       |              |       |      |
| Right tilted (Class3)                                 | 20 | QPSK | 50_25              | 39750/2506                   | 1:1.58  | 0.951 | 0.372 | -0.09 | 16.19 | 16.40 | 1.050 | 0.998        | 0.390 | 22.1 |
| Body worn Test data(Separate 15mm 1RB)                |    |      |                    |                              |         |       |       |       |       |       |       |              |       |      |
| Front side (Class3)                                   | 20 | QPSK | 1_0                | 41055/2636.5                 | 1:1.58  | 0.129 | 0.066 | 0.00  | 19.45 | 19.50 | 1.012 | 0.130        | 0.067 | 22.1 |
| Back side (Class3)                                    | 20 | QPSK | 1_0                | 41055/2636.5                 | 1:1.58  | 0.182 | 0.093 | 0.06  | 19.45 | 19.50 | 1.012 | <b>0.184</b> | 0.094 | 22.1 |
| Back side (Class2)                                    | 20 | QPSK | 1_0                | 41055/2636.5                 | 1:2.308 | 0.113 | 0.057 | -0.01 | 19.45 | 19.50 | 1.012 | 0.114        | 0.058 | 22.1 |
| Back side (Class3)                                    | 20 | QPSK | PCC 1_0<br>SCC 0_0 | 41055/2636.5<br>41253/2656.3 | 1:1.58  | 0.171 | 0.083 | 0.02  | 19.32 | 19.50 | 1.042 | 0.178        | 0.087 | 22.1 |
| Body worn Test data(Separate 15mm 50%RB)              |    |      |                    |                              |         |       |       |       |       |       |       |              |       |      |
| Front side (Class3)                                   | 20 | QPSK | 50_0               | 40620/2593                   | 1:1.58  | 0.114 | 0.060 | 0.00  | 19.41 | 19.50 | 1.021 | 0.116        | 0.061 | 22.1 |
| Back side (Class3)                                    | 20 | QPSK | 50_0               | 40620/2593                   | 1:1.58  | 0.172 | 0.087 | -0.04 | 19.41 | 19.50 | 1.021 | 0.176        | 0.089 | 22.1 |
| Body worn Test data at the worst case with Battery 2# |    |      |                    |                              |         |       |       |       |       |       |       |              |       |      |
| Back side (Class3)                                    | 20 | QPSK | 1_0                | 41055/2636.5                 | 1:1.58  | 0.179 | 0.091 | 0.05  | 19.45 | 19.50 | 1.012 | 0.181        | 0.092 | 22.1 |

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| Hotspot Test data(Separate 10mm 1RB)  |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|---|-----------|------------|-------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Front side (Class3)   | 20        | QPSK       | 1_0               | 41055/2636.5   | 1:1.58     | 0.239          | 0.122           | -0.03            | 19.45                 | 19.50               | 1.012         | 0.242                 | 0.123                  | 22.1             |
| Back side (Class3)  | 20        | QPSK       | 1_0               | 41055/2636.5   | 1:1.58     | 0.313          | 0.153           | 0.01             | 19.45                 | 19.50               | 1.012         | 0.317                 | 0.155                  | 22.1             |
| Left side (Class3)  | 20        | QPSK       | 1_0               | 41055/2636.5   | 1:1.58     | 0.075          | 0.033           | 0.03             | 19.45                 | 19.50               | 1.012         | 0.076                 | 0.033                  | 22.1             |
| Top side (Class3)   | 20        | QPSK       | 1_0               | 41055/2636.5   | 1:1.58     | 0.580          | 0.269           | 0.02             | 19.45                 | 19.50               | 1.012         | <b>0.587</b>          | 0.272                  | 22.1             |
| Top side (Class2)   | 20        | QPSK       | 1_0               | 41055/2636.5   | 1:2.308    | 0.434          | 0.203           | 0.02             | 19.45                 | 19.50               | 1.012         | 0.439                 | 0.205                  | 22.1             |
| Top side (Class3)   | 20        | QPSK       | PCC 1_0           | 41055/2636.5   | 1:1.58     | 0.532          | 0.249           | 0.01             | 19.32                 | 19.50               | 1.042         | 0.555                 | 0.260                  | 22.1             |
|   |           |            | SCC 0_0           | 41253/2656.3   |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Hotspot Test data(Separate 10mm 50%RB)  |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side (Class3)   | 20        | QPSK       | 50_0              | 40620/2593     | 1:1.58     | 0.230          | 0.116           | 0.00             | 19.41                 | 19.50               | 1.021         | 0.235                 | 0.118                  | 22.1             |
| Back side (Class3)  | 20        | QPSK       | 50_0              | 40620/2593     | 1:1.58     | 0.310          | 0.152           | 0.05             | 19.41                 | 19.50               | 1.021         | 0.316                 | 0.155                  | 22.1             |
| Left side (Class3)  | 20        | QPSK       | 50_0              | 40620/2593     | 1:1.58     | 0.060          | 0.026           | -0.07            | 19.41                 | 19.50               | 1.021         | 0.061                 | 0.027                  | 22.1             |
| Top side (Class3)   | 20        | QPSK       | 50_0              | 40620/2593     | 1:1.58     | 0.545          | 0.253           | -0.05            | 19.41                 | 19.50               | 1.021         | 0.556                 | 0.258                  | 22.1             |
| Body Test Data at the worst case with Battery 2#  |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side (Class3)   | 20        | QPSK       | 1_0               | 41055/2636.5   | 1:1.58     | 0.576          | 0.267           | 0.05             | 19.45                 | 19.50               | 1.012         | 0.583                 | 0.270                  | 22.1             |
| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on)   |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position   | Test mode |            |                   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW.       | Modulation | RB Size RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)   |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek (Class3)   | 20        | QPSK       | 1_0               | 40620/2593     | 1:1.58     | 0.360          | 0.168           | 0.03             | 14.64                 | 15.00               | 1.086         | 0.391                 | 0.183                  | 22.1             |
| Left tilted (Class3)  | 20        | QPSK       | 1_0               | 40620/2593     | 1:1.58     | 0.425          | 0.191           | 0.07             | 14.64                 | 15.00               | 1.086         | 0.462                 | 0.208                  | 22.1             |
| Right tilted (Class3)   | 20        | QPSK       | 1_0               | 40620/2593     | 1:1.58     | 0.684          | 0.268           | 0.09             | 14.64                 | 15.00               | 1.086         | 0.743                 | 0.291                  | 22.1             |
| Head Test Data(50%RB)   |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek (Class3)   | 20        | QPSK       | 50_0              | 40620/2593     | 1:1.58     | 0.360          | 0.167           | -0.02            | 14.86                 | 15.00               | 1.033         | 0.372                 | 0.172                  | 22.1             |
| Left tilted (Class3)  | 20        | QPSK       | 50_0              | 40620/2593     | 1:1.58     | 0.419          | 0.188           | 0.07             | 14.86                 | 15.00               | 1.033         | 0.433                 | 0.194                  | 22.1             |
| Right tilted (Class3)   | 20        | QPSK       | 50_0              | 40620/2593     | 1:1.58     | 0.684          | 0.267           | 0.09             | 14.86                 | 15.00               | 1.033         | 0.706                 | 0.276                  | 22.1             |
| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on) |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position   | Test mode |            |                   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW.       | Modulation | RB Size RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)   |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek (Class3)   | 20        | QPSK       | 1_0               | 40620/2593     | 1:1.58     | 0.401          | 0.185           | 0.13             | 15.23                 | 15.50               | 1.064         | 0.427                 | 0.197                  | 22.1             |
| Left tilted (Class3)  | 20        | QPSK       | 1_0               | 40620/2593     | 1:1.58     | 0.473          | 0.212           | 0.05             | 15.23                 | 15.50               | 1.064         | 0.503                 | 0.226                  | 22.1             |
| Right tilted (Class3)   | 20        | QPSK       | 1_0               | 40620/2593     | 1:1.58     | 0.763          | 0.294           | 0.08             | 15.23                 | 15.50               | 1.064         | 0.812                 | 0.313                  | 22.1             |
| Head Test Data(50%RB)   |           |            |                   |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek (Class3)   | 20        | QPSK       | 50_0              | 40620/2593     | 1:1.58     | 0.402          | 0.186           | -0.07            | 15.38                 | 15.50               | 1.028         | 0.413                 | 0.191                  | 22.1             |
| Left tilted (Class3)  | 20        | QPSK       | 50_0              | 40620/2593     | 1:1.58     | 0.466          | 0.208           | 0.01             | 15.38                 | 15.50               | 1.028         | 0.479                 | 0.214                  | 22.1             |

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| Right tilted (Class3)                                 | 20  | QPSK       | 50_0               | 40620/2593                   | 1:1.58     | 0.765          | 0.297           | 0.06             | 15.38                 | 15.50               | 1.028         | 0.786                 | 0.305                  | 22.1             |
|---|-----|------------|--------------------|------------------------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Ant 3 Test Record                                     |     |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position   | BW. | Test mode  |                    | Test ch./Freq.               | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   |     | Modulation | RB Size RB offset  |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)                                   |     |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek (Class3)                                   | 20  | QPSK       | 1_0                | 40620/2593                   | 1:1.58     | 0.116          | 0.063           | 0.02             | 23.10                 | 23.50               | 1.096         | 0.127                 | 0.069                  | 22.1             |
| Left tilted (Class3)                                  | 20  | QPSK       | 1_0                | 40620/2593                   | 1:1.58     | 0.084          | 0.043           | 0.05             | 23.10                 | 23.50               | 1.096         | 0.092                 | 0.047                  | 22.1             |
| Right cheek (Class3)                                  | 20  | QPSK       | 1_0                | 40620/2593                   | 1:1.58     | 0.268          | 0.138           | 0.07             | 23.10                 | 23.50               | 1.096         | <b>0.294</b>          | 0.151                  | 22.1             |
| Right cheek (Class2)                                  | 20  | QPSK       | 1_0                | 40620/2593                   | 1:2.308    | 0.241          | 0.126           | 0.11             | 24.81                 | 25.50               | 1.172         | 0.282                 | 0.148                  | 22.1             |
| Right cheek (Class3)                                  | 20  | QPSK       | PCC 1 0<br>SCC 0 0 | 40620/2593<br>40818/2612.8   | 1:1.58     | 0.251          | 0.128           | 0.02             | 22.89                 | 23.50               | 1.151         | 0.289                 | 0.147                  | 22.1             |
| Right tilted (Class3)                                 | 20  | QPSK       | 1_0                | 40620/2593                   | 1:1.58     | 0.060          | 0.029           | 0.04             | 23.10                 | 23.50               | 1.096         | 0.066                 | 0.032                  | 22.1             |
| Head Test Data(50%RB)                                 |     |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20  | QPSK       | 50 25              | 40185/2549.5                 | 1:1.58     | 0.086          | 0.046           | 0.18             | 22.26                 | 22.50               | 1.057         | 0.091                 | 0.049                  | 22.1             |
| Left tilted   | 20  | QPSK       | 50 25              | 40185/2549.5                 | 1:1.58     | 0.059          | 0.030           | 0.05             | 22.26                 | 22.50               | 1.057         | 0.062                 | 0.032                  | 22.1             |
| Right cheek   | 20  | QPSK       | 50 25              | 40185/2549.5                 | 1:1.58     | 0.189          | 0.098           | 0.02             | 22.26                 | 22.50               | 1.057         | 0.200                 | 0.103                  | 22.1             |
| Right tilted  | 20  | QPSK       | 50 25              | 40185/2549.5                 | 1:1.58     | 0.042          | 0.020           | 0.08             | 22.26                 | 22.50               | 1.057         | 0.044                 | 0.021                  | 22.1             |
| Head Test Data at the worst case with Battery 2#      |     |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek   | 20  | QPSK       | 1_0                | 40620/2593                   | 1:1        | 0.263          | 0.137           | 0.17             | 23.10                 | 23.50               | 1.096         | 0.288                 | 0.150                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)                |     |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20  | QPSK       | 1_0                | 40185/2549.5                 | 1:1.58     | 0.159          | 0.087           | -0.03            | 23.10                 | 23.50               | 1.096         | 0.174                 | 0.095                  | 22.1             |
| Back side   | 20  | QPSK       | 1_0                | 40185/2549.5                 | 1:1.58     | 0.145          | 0.073           | 0.03             | 23.10                 | 23.50               | 1.096         | 0.159                 | 0.080                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)              |     |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20  | QPSK       | 50 25              | 40340/2565                   | 1:1.58     | 0.131          | 0.074           | 0.08             | 22.26                 | 22.50               | 1.057         | 0.138                 | 0.078                  | 22.1             |
| Back side   | 20  | QPSK       | 50 25              | 40340/2565                   | 1:1.58     | 0.112          | 0.058           | 0.04             | 22.26                 | 22.50               | 1.057         | 0.118                 | 0.061                  | 22.1             |
| Body worn Test data at the worst case with Battery 2# |     |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side (Class3)                                   | 20  | QPSK       | 1_0                | 40185/2549.5                 | 1:1.58     | 0.189          | 0.103           | 0.15             | 23.10                 | 23.50               | 1.096         | <b>0.207</b>          | 0.113                  | 22.1             |
| Front side (Class2)                                   | 20  | QPSK       | 1_0                | 40185/2549.5                 | 1:2.308    | 0.168          | 0.091           | 0.01             | 24.80                 | 25.50               | 1.175         | 0.197                 | 0.107                  | 22.1             |
| Front side (Class3)                                   | 20  | QPSK       | PCC 1 0<br>SCC 0 0 | 40185/2549.5<br>40383/2529.7 | 1:1.58     | 0.173          | 0.097           | 0.04             | 22.91                 | 23.50               | 1.146         | 0.198                 | 0.111                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)                  |     |            |                    |                              |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side (Class3)                                   | 20  | QPSK       | 1_0                | 40620/2593                   | 1:1.58     | 0.281          | 0.149           | 0.02             | 23.10                 | 23.50               | 1.096         | 0.308                 | 0.163                  | 22.1             |
| Back side (Class3)                                    | 20  | QPSK       | 1_0                | 40620/2593                   | 1:1.58     | 0.306          | 0.160           | -0.02            | 23.10                 | 23.50               | 1.096         | 0.336                 | 0.175                  | 22.1             |
| Left side (Class3)                                    | 20  | QPSK       | 1_0                | 40620/2593                   | 1:1.58     | 0.009          | 0.003           | -0.01            | 23.10                 | 23.50               | 1.096         | 0.009                 | 0.003                  | 22.1             |
| Right side (Class3)                                   | 20  | QPSK       | 1_0                | 40620/2593                   | 1:1.58     | 0.767          | 0.334           | -0.02            | 23.10                 | 23.50               | 1.096         | <b>0.841</b>          | 0.366                  | 22.1             |
| Right side (Class2)                                   | 20  | QPSK       | 1_0                | 40620/2593                   | 1:2.308    | 0.581          | 0.272           | -0.06            | 24.81                 | 25.50               | 1.172         | 0.681                 | 0.319                  | 22.1             |
| Right side  | 20  | QPSK       | PCC 1 0<br>SCC 0 0 | 40620/2593<br>40818/2612.8   | 1:1.58     | 0.561          | 0.266           | -0.02            | 22.89                 | 23.50               | 1.151         | 0.646                 | 0.306                  | 22.1             |
| Right side (Class3)                                   | 20  | QPSK       | 1_0                | 39750/2506                   | 1:1.58     | 0.730          | 0.318           | -0.01            | 22.94                 | 23.50               | 1.138         | 0.830                 | 0.362                  | 22.1             |
| Right side (Class3)                                   | 20  | QPSK       | 1_0                | 40185/2549.5                 | 1:1.58     | 0.612          | 0.299           | -0.01            | 22.96                 | 23.50               | 1.132         | 0.693                 | 0.339                  | 22.1             |
| Right side (Class3)                                   | 20  | QPSK       | 1_0                | 41055/2636.5                 | 1:1.58     | 0.570          | 0.271           | -0.06            | 23.06                 | 23.50               | 1.107         | 0.631                 | 0.300                  | 22.1             |
| Right side (Class3)                                   | 20  | QPSK       | 1_0                | 41490/2680                   | 1:1.58     | 0.536          | 0.252           | -0.02            | 23.10                 | 23.50               | 1.096         | 0.588                 | 0.276                  | 22.1             |
| Bottom side   | 20  | QPSK       | 1_0                | 40620/2593                   | 1:1.58     | 0.165          | 0.072           | -0.03            | 23.10                 | 23.50               | 1.096         | 0.181                 | 0.079                  | 22.1             |

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| (Class3)   |    |      |       |              |        |       |       |       |       |       |       |       |       |      |
|--|----|------|-------|--------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hotspot Test data(Separate 10mm 50%RB)           |    |      |       |              |        |       |       |       |       |       |       |       |       |      |
| Front side (Class3)                              | 20 | QPSK | 50_25 | 40185/2549.5 | 1:1.58 | 0.261 | 0.140 | 0.09  | 22.31 | 22.50 | 1.045 | 0.273 | 0.146 | 22.1 |
| Back side (Class3)                               | 20 | QPSK | 50_25 | 40185/2549.5 | 1:1.58 | 0.283 | 0.150 | -0.08 | 22.31 | 22.50 | 1.045 | 0.296 | 0.157 | 22.1 |
| Left side (Class3)                               | 20 | QPSK | 50_25 | 40185/2549.5 | 1:1.58 | 0.008 | 0.003 | -0.06 | 22.31 | 22.50 | 1.045 | 0.009 | 0.003 | 22.1 |
| Right side (Class3)                              | 20 | QPSK | 50_25 | 40185/2549.5 | 1:1.58 | 0.569 | 0.268 | -0.05 | 22.31 | 22.50 | 1.045 | 0.594 | 0.280 | 22.1 |
| Bottom side (Class3)                             | 20 | QPSK | 50_25 | 40185/2549.5 | 1:1.58 | 0.148 | 0.064 | 0.03  | 22.31 | 22.50 | 1.045 | 0.155 | 0.067 | 22.1 |
| Hotspot Test data(Separate 10mm 100%RB)          |    |      |       |              |        |       |       |       |       |       |       |       |       |      |
| Right side (Class3)                              | 20 | QPSK | 100_0 | 41055/2636.5 | 1:1.58 | 0.467 | 0.215 | -0.03 | 22.23 | 22.50 | 1.064 | 0.497 | 0.229 | 22.1 |
| Body Test Data at the worst case with Battery 2# |    |      |       |              |        |       |       |       |       |       |       |       |       |      |
| Right side (Class3)                              | 20 | QPSK | 1_0   | 40620/2593   | 1:1.58 | 0.756 | 0.329 | 0.02  | 23.10 | 23.50 | 1.096 | 0.829 | 0.361 | 22.1 |

Table 38: SAR of LTE Band 41 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

| Test Position         | Channel/<br>Frequency<br>(MHz) | Measured SAR<br>(1g) | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated | 3 <sup>rd</sup> Repeated |
|-----------------------|--------------------------------|----------------------|--------------------------|-------|--------------------------|--------------------------|
|                       |                                |                      | SAR (1g)                 |       | SAR (1g)                 | SAR (1g)                 |
| <b>Ant0</b>           |                                |                      |                          |       |                          |                          |
| Right cheek (Class3)  | 40185/2549.5                   | 0.944                | 0.943                    | 1.001 | N/A                      | N/A                      |
| <b>Ant2</b>           |                                |                      |                          |       |                          |                          |
| Right tilted (Class3) | 39750/2506                     | 0.961                | 0.829                    | 1.159 | 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 (~ 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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### 8.4.3 SAR Result of LTE Band 66

| Ant 2 Test Record   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|---|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position   | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 1 0                | 132322/1745    | 1:1        | 0.347          | 0.187           | -0.08            | 14.72                 | 15.70               | 1.253         | 0.435                 | 0.234                  | 22.1             |
| Left tilted   | 20        | QPSK       | 1 0                | 132322/1745    | 1:1        | 0.473          | 0.251           | -0.02            | 14.72                 | 15.70               | 1.253         | 0.593                 | 0.315                  | 22.1             |
| Right cheek   | 20        | QPSK       | 1 0                | 132322/1745    | 1:1        | 0.546          | 0.235           | 0.08             | 14.72                 | 15.70               | 1.253         | 0.684                 | 0.294                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 0                | 132322/1745    | 1:1        | 0.706          | 0.327           | 0.11             | 14.72                 | 15.70               | 1.253         | 0.885                 | 0.410                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.671          | 0.315           | 0.12             | 14.71                 | 15.70               | 1.256         | 0.843                 | 0.396                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 0                | 132572/1770    | 1:1        | 0.720          | 0.331           | 0.10             | 14.36                 | 15.70               | 1.361         | <b>0.980</b>          | 0.451                  | 22.1             |
| Head Test Data(50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.330          | 0.179           | 0.02             | 14.75                 | 15.70               | 1.245         | 0.411                 | 0.223                  | 22.1             |
| Left tilted   | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.453          | 0.243           | 0.06             | 14.75                 | 15.70               | 1.245         | 0.564                 | 0.302                  | 22.1             |
| Right cheek   | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.533          | 0.231           | 0.07             | 14.75                 | 15.70               | 1.245         | 0.663                 | 0.287                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.695          | 0.326           | 0.16             | 14.75                 | 15.70               | 1.245         | 0.865                 | 0.406                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 50              | 132322/1745    | 1:1        | 0.718          | 0.331           | 0.13             | 14.68                 | 15.70               | 1.265         | 0.908                 | 0.419                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 0               | 132572/1770    | 1:1        | 0.739          | 0.339           | 0.11             | 14.68                 | 15.70               | 1.265         | 0.935                 | 0.429                  | 22.1             |
| Head Test Data(100%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right tilted  | 20        | QPSK       | 100 0              | 132072/1720    | 1:1        | 0.691          | 0.323           | 0.16             | 14.67                 | 15.70               | 1.268         | 0.876                 | 0.409                  | 22.1             |
| Head Test Data at the worst case with Battery 2#  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right tilted  | 20        | QPSK       | 1 0                | 132572/1770    | 1:1        | 0.696          | 0.320           | 0.10             | 14.36                 | 15.70               | 1.361         | 0.948                 | 0.436                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1 50               | 132072/1720    | 1:1        | 0.111          | 0.066           | 0.14             | 17.79                 | 18.50               | 1.178         | 0.131                 | 0.078                  | 22.1             |
| Back side   | 20        | QPSK       | 1 50               | 132072/1720    | 1:1        | 0.149          | 0.088           | -0.07            | 17.79                 | 18.50               | 1.178         | 0.175                 | 0.104                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.118          | 0.070           | 0.07             | 17.80                 | 18.50               | 1.175         | 0.139                 | 0.082                  | 22.1             |
| Back side   | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.158          | 0.093           | 0.10             | 17.80                 | 18.50               | 1.175         | <b>0.186</b>          | 0.109                  | 22.1             |
| Body worn Test data at the worst case with Battery 2#   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side   | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.157          | 0.092           | 0.11             | 17.80                 | 18.50               | 1.175         | 0.184                 | 0.108                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 1 50               | 132072/1720    | 1:1        | 0.241          | 0.135           | -0.09            | 17.79                 | 18.50               | 1.178         | 0.284                 | 0.159                  | 22.1             |
| Back side   | 20        | QPSK       | 1 50               | 132072/1720    | 1:1        | 0.297          | 0.166           | -0.04            | 17.79                 | 18.50               | 1.178         | 0.350                 | 0.195                  | 22.1             |
| Left side   | 20        | QPSK       | 1 50               | 132072/1720    | 1:1        | 0.050          | 0.029           | 0.03             | 17.79                 | 18.50               | 1.178         | 0.058                 | 0.034                  | 22.1             |
| Top side  | 20        | QPSK       | 1 50               | 132072/1720    | 1:1        | 0.388          | 0.208           | -0.08            | 17.79                 | 18.50               | 1.178         | 0.457                 | 0.245                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.253          | 0.141           | -0.08            | 17.80                 | 18.50               | 1.175         | 0.297                 | 0.166                  | 22.1             |
| Back side   | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.314          | 0.175           | 0.09             | 17.80                 | 18.50               | 1.175         | 0.369                 | 0.206                  | 22.1             |
| Left side   | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.046          | 0.027           | 0.02             | 17.80                 | 18.50               | 1.175         | 0.054                 | 0.032                  | 22.1             |
| Top side  | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.408          | 0.218           | -0.05            | 17.80                 | 18.50               | 1.175         | <b>0.479</b>          | 0.256                  | 22.1             |
| Body Test Data at the worst case with Battery 2#  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side  | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.401          | 0.214           | -0.11            | 17.80                 | 18.50               | 1.175         | 0.471                 | 0.251                  | 22.1             |
| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on) |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position   | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|   | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left tilted   | 20        | QPSK       | 1 0                | 132322/1745    | 1:1        | 0.318          | 0.167           | -0.03            | 13.05                 | 14.00               | 1.245         | 0.396                 | 0.208                  | 22.1             |
| Right tilted  | 20        | QPSK       | 1 0                | 132322/1745    | 1:1        | 0.473          | 0.218           | 0.02             | 13.05                 | 14.00               | 1.245         | 0.589                 | 0.271                  | 22.1             |
| Head Test Data(50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left tilted   | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.303          | 0.162           | -0.05            | 13.13                 | 14.00               | 1.222         | 0.370                 | 0.198                  | 22.1             |
| Right tilted  | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.468          | 0.219           | 0.06             | 13.13                 | 14.00               | 1.222         | 0.572                 | 0.268                  | 22.1             |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| Ant 2 Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G Receiver on/<br>WWAN+WLAN 2.4G(Chain1)+BT Receiver on/WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on) |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
|--|-----------|------------|--------------------|----------------|------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position  | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left tilted  | 20        | QPSK       | 1 0                | 132322/1745    | 1:1        | 0.401          | 0.212           | -0.11            | 14.06                 | 15.00               | 1.242         | 0.498                 | 0.263                  | 22.1             |
| Right tilted   | 20        | QPSK       | 1 0                | 132322/1745    | 1:1        | 0.600          | 0.275           | 0.03             | 14.06                 | 15.00               | 1.242         | 0.745                 | 0.341                  | 22.1             |
| Head Test Data(50%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left tilted  | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.383          | 0.202           | 0.10             | 14.15                 | 15.00               | 1.216         | 0.466                 | 0.246                  | 22.1             |
| Right tilted   | 20        | QPSK       | 50 25              | 132072/1720    | 1:1        | 0.588          | 0.273           | 0.05             | 14.15                 | 15.00               | 1.216         | 0.715                 | 0.332                  | 22.1             |
| Ant 3 Test Record  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|  | BW        | Modulation | RB Size_ RB offset |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Head Test Data(1RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.026          | 0.018           | 0.01             | 22.68                 | 23.20               | 1.127         | 0.029                 | 0.020                  | 22.1             |
| Left tilted  | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.032          | 0.020           | 0.05             | 22.68                 | 23.20               | 1.127         | 0.036                 | 0.022                  | 22.1             |
| Right cheek  | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.082          | 0.055           | -0.01            | 22.68                 | 23.20               | 1.127         | <b>0.093</b>          | 0.062                  | 22.1             |
| Right tilted   | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.040          | 0.024           | -0.14            | 22.68                 | 23.20               | 1.127         | 0.045                 | 0.027                  | 22.1             |
| Head Test Data(50%RB)  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 20        | QPSK       | 50 0               | 132322/1745    | 1:1        | 0.018          | 0.012           | 0.08             | 21.71                 | 22.20               | 1.119         | 0.020                 | 0.013                  | 22.1             |
| Left tilted  | 20        | QPSK       | 50 0               | 132322/1745    | 1:1        | 0.025          | 0.015           | -0.04            | 21.71                 | 22.20               | 1.119         | 0.028                 | 0.017                  | 22.1             |
| Right cheek  | 20        | QPSK       | 50 0               | 132322/1745    | 1:1        | 0.047          | 0.030           | 0.06             | 21.71                 | 22.20               | 1.119         | 0.052                 | 0.034                  | 22.1             |
| Right tilted   | 20        | QPSK       | 50 0               | 132322/1745    | 1:1        | 0.031          | 0.019           | 0.00             | 21.71                 | 22.20               | 1.119         | 0.035                 | 0.021                  | 22.1             |
| Head Test Data at the worst case with Battery 2#   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right cheek  | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.080          | 0.054           | -0.06            | 22.68                 | 23.20               | 1.127         | 0.091                 | 0.061                  | 22.1             |
| Body worn Test data(Separate 15mm 1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.068          | 0.043           | 0.02             | 22.68                 | 23.20               | 1.127         | 0.076                 | 0.049                  | 22.1             |
| Back side  | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.079          | 0.054           | 0.09             | 22.68                 | 23.20               | 1.127         | <b>0.089</b>          | 0.061                  | 22.1             |
| Body worn Test data(Separate 15mm 50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 50 0               | 132322/1745    | 1:1        | 0.034          | 0.022           | 0.06             | 21.71                 | 22.20               | 1.119         | 0.038                 | 0.025                  | 22.1             |
| Back side  | 20        | QPSK       | 50 0               | 132322/1745    | 1:1        | 0.038          | 0.025           | 0.02             | 21.71                 | 22.20               | 1.119         | 0.043                 | 0.028                  | 22.1             |
| Body worn Test data at the worst case with Battery 2#  |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side  | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.078          | 0.053           | 0.08             | 22.68                 | 23.20               | 1.127         | 0.087                 | 0.060                  | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.101          | 0.064           | 0.00             | 22.68                 | 23.20               | 1.127         | 0.114                 | 0.072                  | 22.1             |
| Back side  | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.108          | 0.069           | 0.03             | 22.68                 | 23.20               | 1.127         | 0.122                 | 0.078                  | 22.1             |
| Left side  | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.016          | 0.010           | 0.00             | 22.68                 | 23.20               | 1.127         | 0.018                 | 0.011                  | 22.1             |
| Right side   | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.074          | 0.045           | 0.03             | 22.68                 | 23.20               | 1.127         | 0.083                 | 0.051                  | 22.1             |
| Bottom side  | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.118          | 0.063           | -0.13            | 22.68                 | 23.20               | 1.127         | <b>0.133</b>          | 0.071                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 20        | QPSK       | 50 0               | 132322/1745    | 1:1        | 0.061          | 0.035           | 0.09             | 21.71                 | 22.20               | 1.119         | 0.068                 | 0.039                  | 22.1             |
| Back side  | 20        | QPSK       | 50 0               | 132322/1745    | 1:1        | 0.057          | 0.032           | 0.08             | 21.71                 | 22.20               | 1.119         | 0.064                 | 0.036                  | 22.1             |
| Left side  | 20        | QPSK       | 50 0               | 132322/1745    | 1:1        | 0.012          | 0.007           | 0.09             | 21.71                 | 22.20               | 1.119         | 0.014                 | 0.008                  | 22.1             |
| Right side   | 20        | QPSK       | 50 0               | 132322/1745    | 1:1        | 0.059          | 0.036           | -0.17            | 21.71                 | 22.20               | 1.119         | 0.066                 | 0.040                  | 22.1             |
| Bottom side  | 20        | QPSK       | 50 0               | 132322/1745    | 1:1        | 0.082          | 0.043           | 0.06             | 21.71                 | 22.20               | 1.119         | 0.092                 | 0.048                  | 22.1             |
| Body Test Data at the worst case with Battery 2#   |           |            |                    |                |            |                |                 |                  |                       |                     |               |                       |                        |                  |
| Bottom side  | 20        | QPSK       | 1 0                | 132072/1720    | 1:1        | 0.117          | 0.062           | 0.03             | 22.68                 | 23.20               | 1.127         | 0.132                 | 0.070                  | 22.1             |

Table 39: SAR of LTE Band 66 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value are 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).

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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### 8.4.4 SAR Result of WIFI 2.4G

| Ant8(chain1) Test Record   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
|--|-----------|----------------|------------|--------------------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Test position  | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm)  | Tune up Limit(dBm)  | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test data   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.030          | 0.015           | -0.01            | 18.31                 | 19.50               | 1.315         | 0.040                 | 0.020                  | 22               |
| Left tilted  | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.042          | 0.020           | 0.04             | 18.31                 | 19.50               | 1.315         | 0.056                 | 0.027                  | 22               |
| Right cheek  | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.040          | 0.027           | -0.04            | 18.31                 | 19.50               | 1.315         | 0.054                 | 0.036                  | 22               |
| Right tilted   | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.091          | 0.035           | 0.15             | 18.31                 | 19.50               | 1.315         | <b>0.122</b>          | 0.047                  | 22               |
| Head Test Data at the worst case with Battery 2#   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Right tilted   | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.086          | 0.033           | 0.11             | 18.31                 | 19.50               | 1.315         | 0.115                 | 0.044                  | 22               |
| Body worn Test data(Separate 15mm)   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.003          | 0.002           | -0.15            | 18.31                 | 19.50               | 1.315         | 0.004                 | 0.002                  | 22               |
| Back side  | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.029          | 0.015           | -0.13            | 18.31                 | 19.50               | 1.315         | <b>0.040</b>          | 0.020                  | 22               |
| Body worn Test data at the worst case with Battery 2#(Separate 15mm)   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side  | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.028          | 0.014           | -0.02            | 18.31                 | 19.50               | 1.315         | 0.037                 | 0.019                  | 22               |
| Hotspot Test data (Separate 10mm)  |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.007          | 0.003           | -0.08            | 18.31                 | 19.50               | 1.315         | 0.009                 | 0.004                  | 22               |
| Back side  | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.071          | 0.035           | -0.03            | 18.31                 | 19.50               | 1.315         | <b>0.095</b>          | 0.047                  | 22               |
| Left side  | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.005          | 0.002           | 0.00             | 18.31                 | 19.50               | 1.315         | 0.006                 | 0.003                  | 22               |
| Right side   | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.002          | 0.001           | 0.09             | 18.31                 | 19.50               | 1.315         | 0.003                 | 0.001                  | 22               |
| Top side   | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.045          | 0.020           | 0.11             | 18.31                 | 19.50               | 1.315         | 0.060                 | 0.027                  | 22               |
| Body Test Data at the worst case with Battery 2#(Separate 10mm)  |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Back side  | 802.11g   | 6/2437         | 97.71%     | 1.023                    | 0.067          | 0.033           | 0.14             | 18.31                 | 19.50               | 1.315         | 0.090                 | 0.044                  | 22               |
| Ant9(chain0) Test Record   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm)  | Tune up Limit(dBm)  | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test data   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.588          | 0.265           | -0.15            | 14.32                 | 15.50               | 1.312         | 0.776                 | 0.350                  | 22               |
| Left tilted  | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.599          | 0.254           | -0.07            | 14.32                 | 15.50               | 1.312         | <b>0.790</b>          | 0.335                  | 22               |
| Right cheek  | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.240          | 0.123           | -0.09            | 14.32                 | 15.50               | 1.312         | 0.317                 | 0.162                  | 22               |
| Right tilted   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.292          | 0.128           | -0.13            | 14.32                 | 15.50               | 1.312         | 0.385                 | 0.169                  | 22               |
| Head Test Data at the worst case with Battery 2#   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left tilted  | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.567          | 0.241           | -0.11            | 14.32                 | 15.50               | 1.312         | 0.748                 | 0.318                  | 22               |
| Body worn Test data(Separate 15mm)   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.159          | 0.086           | -0.13            | 18.81                 | 20.00               | 1.315         | <b>0.210</b>          | 0.114                  | 22               |
| Back side  | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.135          | 0.069           | -0.19            | 18.81                 | 20.00               | 1.315         | 0.178                 | 0.092                  | 22               |
| Body worn Test data at the worst case with Battery 2#(Separate 15mm)   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.150          | 0.082           | -0.19            | 18.81                 | 20.00               | 1.315         | 0.198                 | 0.108                  | 22               |
| Hotspot Test data (Separate 10mm)  |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.257          | 0.131           | 0.06             | 18.90                 | 20.00               | 1.288         | 0.333                 | 0.170                  | 22               |
| Back side  | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.339          | 0.167           | 0.06             | 18.90                 | 20.00               | 1.288         | 0.439                 | 0.216                  | 22               |
| Right side   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.175          | 0.078           | 0.11             | 18.90                 | 20.00               | 1.288         | 0.227                 | 0.102                  | 22               |
| Top side   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.347          | 0.170           | -0.05            | 18.90                 | 20.00               | 1.288         | <b>0.449</b>          | 0.220                  | 22               |
| Body Test Data at the worst case with Battery 2#(Separate 10mm)  |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.329          | 0.161           | -0.05            | 18.90                 | 20.00               | 1.288         | 0.426                 | 0.209                  | 22               |
| Ant9(chain0) Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on) |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test data   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.398          | 0.179           | -0.11            | 12.80                 | 13.80               | 1.259         | 0.504                 | 0.227                  | 22               |
| Left tilted  | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.405          | 0.172           | 0.03             | 12.80                 | 13.80               | 1.259         | 0.513                 | 0.218                  | 22               |
| Right cheek  | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.162          | 0.083           | 0.08             | 12.80                 | 13.80               | 1.259         | 0.205                 | 0.105                  | 22               |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| Right tilted   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.197          | 0.087           | 0.09             | 12.80                 | 13.80               | 1.259         | 0.249                 | 0.110                  | 22               |
|--|-----------|----------------|------------|--------------------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| <b>Ant9(chain0) Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/WWAN+WLAN 2.4G Receiver off)</b> |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Hotspot Test data (Separate 10mm)  |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.162          | 0.083           | 0.15             | 16.97                 | 18.00               | 1.268         | 0.206                 | 0.106                  | 22               |
| Back side  | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.214          | 0.105           | 0.06             | 16.97                 | 18.00               | 1.268         | 0.273                 | 0.134                  | 22               |
| Right side   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.110          | 0.049           | 0.14             | 16.97                 | 18.00               | 1.268         | 0.140                 | 0.062                  | 22               |
| Top side   | 802.11b   | 11/2462        | 99.47%     | 1.005                    | 0.219          | 0.107           | -0.03            | 16.97                 | 18.00               | 1.268         | 0.279                 | 0.136                  | 22               |
| <b>MIMO Test Record</b>  |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test data   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.577          | 0.259           | 0.02             | 16.72                 | 18.00               | 1.343         | <b>0.794</b>          | 0.356                  | 22               |
| Left tilted  | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.554          | 0.236           | 0.02             | 16.72                 | 18.00               | 1.343         | 0.762                 | 0.325                  | 22               |
| Right cheek  | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.242          | 0.119           | 0.06             | 16.72                 | 18.00               | 1.343         | 0.333                 | 0.164                  | 22               |
| Right tilted   | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.256          | 0.121           | 0.09             | 16.72                 | 18.00               | 1.343         | 0.352                 | 0.166                  | 22               |
| Head Test Data at the worst case with Battery 2#   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.546          | 0.245           | 0.09             | 16.72                 | 18.00               | 1.343         | 0.751                 | 0.337                  | 22               |
| Body worn Test data(Separate 15mm)   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.136          | 0.074           | 0.04             | 21.17                 | 22.50               | 1.358         | <b>0.189</b>          | 0.102                  | 22               |
| Back side  | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.124          | 0.065           | -0.03            | 21.17                 | 22.50               | 1.358         | 0.173                 | 0.091                  | 22               |
| Body worn Test data at the worst case with Battery 2#(Separate 15mm)   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.129          | 0.070           | 0.07             | 21.17                 | 22.50               | 1.358         | 0.179                 | 0.097                  | 22               |
| Hotspot Test data (Separate 10mm)  |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side   | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.220          | 0.112           | 0.02             | 21.17                 | 22.50               | 1.358         | 0.306                 | 0.156                  | 22               |
| Back side  | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.282          | 0.142           | -0.03            | 21.17                 | 22.50               | 1.358         | 0.392                 | 0.198                  | 22               |
| Left side  | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.042          | 0.021           | -0.01            | 21.17                 | 22.50               | 1.358         | 0.058                 | 0.030                  | 22               |
| Right side   | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.121          | 0.052           | 0.15             | 21.17                 | 22.50               | 1.358         | 0.168                 | 0.072                  | 22               |
| Top side   | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.397          | 0.200           | 0.06             | 21.17                 | 22.50               | 1.358         | <b>0.552</b>          | 0.278                  | 22               |
| Body Test Data at the worst case with Battery 2#(Separate 10mm)  |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side   | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.376          | 0.189           | 0.11             | 21.17                 | 22.50               | 1.358         | 0.523                 | 0.263                  | 22               |
| <b>MIMO Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G Receiver on)</b>  |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Test position  | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test data   |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek   | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.390          | 0.175           | 0.01             | 14.86                 | 16.30               | 1.393         | 0.557                 | 0.250                  | 22               |
| Left tilted  | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.375          | 0.160           | 0.06             | 14.86                 | 16.30               | 1.393         | 0.535                 | 0.228                  | 22               |
| Right cheek  | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.164          | 0.080           | -0.03            | 14.86                 | 16.30               | 1.393         | 0.234                 | 0.114                  | 22               |
| Right tilted   | 802.11g   | 11/2462        | 97.62%     | 1.024                    | 0.173          | 0.082           | 0.02             | 14.86                 | 16.30               | 1.393         | 0.247                 | 0.117                  | 22               |

Table 40: SAR of WIFI 2.4G for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value are marked in bold. Graph results refer to Appendix B.
- 2) Each channel was tested at the lowest data rate.
- 3) Per KDB248227 D01, for SAR test of WiFi 2.4G,
  - a) SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure.
  - b) As the highest reported SAR for DSSS is adjusted by the ratio of OFDM 802.11g/n to DSSS specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11g/n is not required.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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### 8.4.1 SAR Result of WIFI 5G

| Ant6(chain0) Test Record   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
|--|--------------|----------------|------------|--------------------------|----------------|-----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------------|------------------|
| Test position  | Test mode    | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test data of U-NII-2A   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek   | 802.11a      | 64/5320        | 98.00%     | 1.020                    | 0.235          | 0.076           | 0.06             | 18.21                | 19.50              | 1.346         | <b>0.323</b>          | 0.104                  | 22.2             |
| Left tilted  | 802.11a      | 64/5320        | 98.00%     | 1.020                    | 0.032          | 0.016           | 0.07             | 18.21                | 19.50              | 1.346         | 0.044                 | 0.021                  | 22.2             |
| Right cheek  | 802.11a      | 64/5320        | 98.00%     | 1.020                    | 0.125          | 0.043           | 0.00             | 18.21                | 19.50              | 1.346         | 0.172                 | 0.059                  | 22.2             |
| Right tilted   | 802.11a      | 64/5320        | 98.00%     | 1.020                    | 0.026          | 0.010           | 0.00             | 18.21                | 19.50              | 1.346         | 0.036                 | 0.014                  | 22.2             |
| Head Test data of U-NII-2C   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek   | 802.11a      | 116/5580       | 98.00%     | 1.020                    | 0.121          | 0.033           | 0.00             | 18.29                | 19.50              | 1.321         | 0.163                 | 0.045                  | 22.2             |
| Left tilted  | 802.11a      | 116/5580       | 98.00%     | 1.020                    | 0.016          | 0.006           | 0.00             | 18.29                | 19.50              | 1.321         | 0.022                 | 0.008                  | 22.2             |
| Right cheek  | 802.11a      | 116/5580       | 98.00%     | 1.020                    | 0.064          | 0.021           | 0.00             | 18.29                | 19.50              | 1.321         | 0.086                 | 0.028                  | 22.2             |
| Right tilted   | 802.11a      | 116/5580       | 98.00%     | 1.020                    | 0.021          | 0.008           | -0.02            | 18.29                | 19.50              | 1.321         | 0.029                 | 0.010                  | 22.2             |
| Head Test data of U-NII-3  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek   | 802.11ac 80M | 155/5775       | 85.76%     | 1.166                    | 0.191          | 0.067           | 0.02             | 10.90                | 12.50              | 1.445         | 0.322                 | 0.112                  | 22.2             |
| Left tilted  | 802.11ac 80M | 155/5775       | 85.76%     | 1.166                    | 0.051          | 0.017           | 0.03             | 10.90                | 12.50              | 1.445         | 0.086                 | 0.028                  | 22.2             |
| Right cheek  | 802.11ac 80M | 155/5775       | 85.76%     | 1.166                    | 0.067          | 0.024           | 0.00             | 10.90                | 12.50              | 1.445         | 0.113                 | 0.040                  | 22.2             |
| Right tilted   | 802.11ac 80M | 155/5775       | 85.76%     | 1.166                    | 0.019          | 0.007           | 0.00             | 10.90                | 12.50              | 1.445         | 0.032                 | 0.011                  | 22.2             |
| Head Test Data at the worst case with Battery 2#                     |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek   | 802.11a      | 64/5320        | 98.00%     | 1.020                    | 0.233          | 0.075           | 0.01             | 18.21                | 19.50              | 1.346         | 0.320                 | 0.103                  | 22.2             |
| Body worn Test data of U-NII-2A (Separate 15mm)                      |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11a      | 64/5320        | 98.00%     | 1.020                    | 0.027          | 0.011           | 0.00             | 18.21                | 19.50              | 1.346         | 0.037                 | 0.014                  | 22.2             |
| Back side  | 802.11a      | 64/5320        | 98.00%     | 1.020                    | 0.334          | 0.108           | 0.04             | 18.21                | 19.50              | 1.346         | <b>0.459</b>          | 0.148                  | 22.2             |
| Body worn Test data of U-NII-2C (Separate 15mm)                      |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11a      | 116/5580       | 98.00%     | 1.020                    | 0.016          | 0.006           | 0.07             | 18.29                | 19.50              | 1.321         | 0.021                 | 0.008                  | 22.2             |
| Back side  | 802.11a      | 116/5580       | 98.00%     | 1.020                    | 0.116          | 0.032           | 0.01             | 18.29                | 19.50              | 1.321         | 0.156                 | 0.044                  | 22.2             |
| Body worn Test data of U-NII-3 (Separate 15mm)                       |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11ac 80M | 155/5775       | 85.76%     | 1.166                    | 0.006          | 0.002           | 0.00             | 11.96                | 13.50              | 1.426         | 0.010                 | 0.003                  | 22.2             |
| Back side  | 802.11ac 80M | 155/5775       | 85.76%     | 1.166                    | 0.186          | 0.062           | 0.00             | 11.96                | 13.50              | 1.426         | 0.309                 | 0.103                  | 22.2             |
| Body worn Test Data at the worst case with Battery 2#                |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | 802.11a      | 64/5320        | 98.00%     | 1.020                    | 0.331          | 0.108           | 0.15             | 18.21                | 19.50              | 1.346         | 0.455                 | 0.148                  | 22.2             |
| Hotspot Test data of U-NII-1 (Separate 10mm)                         |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11a      | 40/5200        | 98.00%     | 1.020                    | 0.016          | 0.005           | 0.02             | 18.17                | 19.50              | 1.358         | 0.022                 | 0.007                  | 22.2             |
| Back side  | 802.11a      | 40/5200        | 98.00%     | 1.020                    | 0.397          | 0.127           | 0.06             | 18.17                | 19.50              | 1.358         | <b>0.550</b>          | 0.176                  | 22.2             |
| Right side   | 802.11a      | 40/5200        | 98.00%     | 1.020                    | 0.034          | 0.012           | 0.00             | 18.17                | 19.50              | 1.358         | 0.047                 | 0.016                  | 22.2             |
| Hotspot Test data of U-NII-3 (Separate 10mm)                         |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11ac 80M | 155/5775       | 85.76%     | 1.166                    | 0.013          | 0.004           | 0.00             | 11.96                | 13.50              | 1.426         | 0.021                 | 0.006                  | 22.2             |
| Back side  | 802.11ac 80M | 155/5775       | 85.76%     | 1.166                    | 0.262          | 0.069           | 0.00             | 11.96                | 13.50              | 1.426         | 0.436                 | 0.115                  | 22.2             |
| Right side   | 802.11ac 80M | 155/5775       | 85.76%     | 1.166                    | 0.103          | 0.033           | 0.02             | 11.96                | 13.50              | 1.426         | 0.171                 | 0.056                  | 22.2             |
| Hotspot Test Data at the worst case with Battery 2#                  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | 802.11a      | 40/5200        | 98.00%     | 1.020                    | 0.392          | 0.126           | 0.04             | 18.17                | 19.50              | 1.358         | 0.543                 | 0.175                  | 22.2             |
| Test position  | Test mode    | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Product specific 10g SAR Test data of U-NII-2A (Separate 0mm)        |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11a      | 64/5320        | 98.00%     | 1.020                    | 0.193          | 0.061           | 0.00             | 18.21                | 19.50              | 1.346         | 0.265                 | 0.083                  | 22.2             |
| Back side  | 802.11a      | 64/5320        | 98.00%     | 1.020                    | 6.240          | 1.100           | 0.10             | 18.21                | 19.50              | 1.346         | 8.570                 | <b>1.511</b>           | 22.2             |
| Right side   | 802.11a      | 64/5320        | 98.00%     | 1.020                    | 1.330          | 0.307           | 0.06             | 18.21                | 19.50              | 1.346         | 1.827                 | 0.422                  | 22.2             |
| Product specific 10g SAR Test data of U-NII-2C (Separate 0mm)        |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11a      | 116/5580       | 98.00%     | 1.020                    | 0.080          | 0.025           | 0.00             | 18.29                | 19.50              | 1.321         | 0.107                 | 0.033                  | 22.2             |
| Back side  | 802.11a      | 116/5580       | 98.00%     | 1.020                    | 4.590          | 0.778           | 0.01             | 18.29                | 19.50              | 1.321         | 6.189                 | 1.049                  | 22.2             |
| Right side   | 802.11a      | 116/5580       | 98.00%     | 1.020                    | 1.210          | 0.314           | 0.06             | 18.29                | 19.50              | 1.321         | 1.631                 | 0.423                  | 22.2             |
| Product specific 10g SAR Test Data at the worst case with Battery 2# |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | 802.11a      | 64/5320        | 98.00%     | 1.020                    | 6.190          | 1.090           | 0.06             | 18.21                | 19.50              | 1.346         | 8.501                 | 1.497                  | 22.2             |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| Ant9(chain1) Test Record                                     |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
|--|--------------|----------------|------------|--------------------------|----------------|-----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------------|------------------|
| Test position  | Test mode    | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test data of U-NII-2A                                   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek   | 802.11a      | 52/5260        | 97.62%     | 1.024                    | 0.549          | 0.161           | 0.06             | 12.15                | 13.10              | 1.245         | <b>0.700</b>          | 0.205                  | 22.2             |
| Left tilted  | 802.11a      | 52/5260        | 97.62%     | 1.024                    | 0.539          | 0.160           | -0.01            | 12.15                | 13.10              | 1.245         | 0.687                 | 0.204                  | 22.2             |
| Right cheek  | 802.11a      | 52/5260        | 97.62%     | 1.024                    | 0.298          | 0.105           | -0.09            | 12.15                | 13.10              | 1.245         | 0.380                 | 0.134                  | 22.2             |
| Right tilted   | 802.11a      | 52/5260        | 97.62%     | 1.024                    | 0.345          | 0.121           | 0.02             | 12.15                | 13.10              | 1.245         | 0.440                 | 0.154                  | 22.2             |
| Head Test data of U-NII-2C                                   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek   | 802.11a      | 116/5580       | 97.62%     | 1.024                    | 0.423          | 0.130           | -0.03            | 12.41                | 13.10              | 1.172         | 0.508                 | 0.156                  | 22.2             |
| Left tilted  | 802.11a      | 116/5580       | 97.62%     | 1.024                    | 0.359          | 0.107           | -0.09            | 12.41                | 13.10              | 1.172         | 0.431                 | 0.128                  | 22.2             |
| Right cheek  | 802.11a      | 116/5580       | 97.62%     | 1.024                    | 0.203          | 0.071           | -0.02            | 12.41                | 13.10              | 1.172         | 0.244                 | 0.086                  | 22.2             |
| Right tilted   | 802.11a      | 116/5580       | 97.62%     | 1.024                    | 0.218          | 0.076           | 0.04             | 12.41                | 13.10              | 1.172         | 0.262                 | 0.091                  | 22.2             |
| Head Test data of U-NII-3                                    |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek   | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.374          | 0.109           | 0.06             | 12.47                | 12.50              | 1.007         | 0.437                 | 0.127                  | 22.2             |
| Left tilted  | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.335          | 0.098           | -0.01            | 12.47                | 12.50              | 1.007         | 0.392                 | 0.114                  | 22.2             |
| Right cheek  | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.163          | 0.058           | -0.01            | 12.47                | 12.50              | 1.007         | 0.191                 | 0.068                  | 22.2             |
| Right tilted   | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.179          | 0.063           | -0.08            | 12.47                | 12.50              | 1.007         | 0.209                 | 0.073                  | 22.2             |
| Head Test Data at the worst case with Battery 2#             |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek   | 802.11a      | 52/5260        | 97.62%     | 1.024                    | 0.541          | 0.158           | 0.01             | 12.15                | 13.10              | 1.245         | 0.690                 | 0.201                  | 22.2             |
| Body worn Test data of U-NII-2A (Separate 15mm)              |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11a      | 60/5300        | 97.62%     | 1.024                    | 0.220          | 0.090           | -0.01            | 17.76                | 18.50              | 1.186         | 0.267                 | 0.109                  | 22.2             |
| Back side  | 802.11a      | 60/5300        | 97.62%     | 1.024                    | 0.342          | 0.136           | 0.06             | 17.76                | 18.50              | 1.186         | <b>0.415</b>          | 0.165                  | 22.2             |
| Body worn Test data of U-NII-2C(Separate 15mm)               |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11a      | 140/5700       | 97.62%     | 1.024                    | 0.143          | 0.054           | 0.03             | 17.95                | 18.50              | 1.135         | 0.166                 | 0.063                  | 22.2             |
| Back side  | 802.11a      | 140/5700       | 97.62%     | 1.024                    | 0.250          | 0.100           | -0.06            | 17.95                | 18.50              | 1.135         | 0.291                 | 0.116                  | 22.2             |
| Body worn Test data of U-NII-3(Separate 15mm)                |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.045          | 0.017           | 0.00             | 13.47                | 13.50              | 1.007         | 0.052                 | 0.019                  | 22.2             |
| Back side  | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.064          | 0.025           | -0.06            | 13.47                | 13.50              | 1.007         | 0.075                 | 0.029                  | 22.2             |
| Body worn Test Data at the worst case with Battery 2#        |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | 802.11a      | 60/5300        | 97.62%     | 1.024                    | 0.335          | 0.133           | 0.08             | 17.76                | 18.50              | 1.186         | 0.407                 | 0.162                  | 22.2             |
| Hotspot Test data of U-NII-1(Separate 10mm)                  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11a      | 48/5240        | 97.62%     | 1.024                    | 0.367          | 0.141           | -0.09            | 17.70                | 18.50              | 1.202         | 0.452                 | 0.174                  | 22.2             |
| Back side  | 802.11a      | 48/5240        | 97.62%     | 1.024                    | 0.520          | 0.185           | 0.06             | 17.70                | 18.50              | 1.202         | 0.640                 | 0.228                  | 22.2             |
| Right side   | 802.11a      | 48/5240        | 97.62%     | 1.024                    | 0.186          | 0.079           | -0.09            | 17.70                | 18.50              | 1.202         | 0.229                 | 0.097                  | 22.2             |
| Top side   | 802.11a      | 48/5240        | 97.62%     | 1.024                    | 0.542          | 0.236           | 0.10             | 17.70                | 18.50              | 1.202         | <b>0.668</b>          | 0.291                  | 22.2             |
| Hotspot Test data of U-NII-3 (Separate 10mm)                 |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.080          | 0.028           | -0.06            | 13.47                | 13.50              | 1.007         | 0.093                 | 0.033                  | 22.2             |
| Back side  | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.143          | 0.052           | 0.09             | 13.47                | 13.50              | 1.007         | 0.167                 | 0.061                  | 22.2             |
| Right side   | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.036          | 0.014           | -0.09            | 13.47                | 13.50              | 1.007         | 0.042                 | 0.016                  | 22.2             |
| Top side   | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.095          | 0.037           | -0.02            | 13.47                | 13.50              | 1.007         | 0.111                 | 0.043                  | 22.2             |
| Hotspot Test Data at the worst case with Battery 2#          |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Top side   | 802.11a      | 48/5240        | 97.62%     | 1.024                    | 0.535          | 0.204           | 0.06             | 17.70                | 18.50              | 1.202         | <b>0.659</b>          | 0.251                  | 22.2             |
| Test position  | Test mode    | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Product specific 10g SAR Test data of U-NII-2A(Separate 0mm) |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11a      | 60/5300        | 97.62%     | 1.024                    | 6.090          | 1.470           | -0.08            | 17.76                | 18.50              | 1.186         | 7.397                 | 1.786                  | 22.2             |
| Back side  | 802.11a      | 60/5300        | 97.62%     | 1.024                    | 3.310          | 0.982           | 0.01             | 17.76                | 18.50              | 1.186         | 4.021                 | 1.193                  | 22.2             |
| Right side   | 802.11a      | 60/5300        | 97.62%     | 1.024                    | 1.070          | 0.378           | 0.04             | 17.76                | 18.50              | 1.186         | 1.300                 | 0.459                  | 22.2             |
| Top side   | 802.11a      | 60/5300        | 97.62%     | 1.024                    | 7.890          | 1.870           | 0.07             | 17.76                | 18.50              | 1.186         | 9.584                 | <b>2.271</b>           | 22.2             |
| Top side   | 802.11a      | 52/5260        | 97.62%     | 1.024                    | 7.010          | 1.650           | 0.02             | 17.60                | 18.50              | 1.230         | 8.835                 | 2.079                  | 22.2             |
| Product specific 10g SAR Test data of U-NII-2C(Separate 0mm) |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side   | 802.11a      | 140/5700       | 97.62%     | 1.024                    | 2.960          | 0.778           | 0.04             | 17.95                | 18.50              | 1.135         | 3.442                 | 0.905                  | 22.2             |
| Back side  | 802.11a      | 140/5700       | 97.62%     | 1.024                    | 2.880          | 0.785           | 0.01             | 17.95                | 18.50              | 1.135         | 3.349                 | 0.913                  | 22.2             |
| Right side   | 802.11a      | 140/5700       | 97.62%     | 1.024                    | 0.495          | 0.151           | -0.04            | 17.95                | 18.50              | 1.135         | 0.576                 | 0.176                  | 22.2             |
| Top side   | 802.11a      | 140/5700       | 97.62%     | 1.024                    | 4.430          | 1.060           | 0.09             | 17.95                | 18.50              | 1.135         | 5.151                 | 1.232                  | 22.2             |

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| Product specific 10g SAR Test Data at the worst case with Battery 2#  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
|---|--------------|----------------|------------|--------------------------|----------------|-----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------------|------------------|
| Top side  | 802.11a      | 60/5300        | 97.62%     | 1.024                    | 7.730          | 1.830           | 0.12             | 17.76                | 18.50              | 1.186         | 9.390                 | 2.223                  | 22.2             |
| Ant9(chain1) Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on)    |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Test position   | Test mode    | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test data of U-NII-2A  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek  | 802.11a      | 52/5260        | 97.62%     | 1.024                    | 0.340          | 0.102           | -0.03            | 10.49                | 11.30              | 1.205         | 0.420                 | 0.126                  | 22.2             |
| Left tilted   | 802.11a      | 52/5260        | 97.62%     | 1.024                    | 0.356          | 0.106           | 0.06             | 10.49                | 11.30              | 1.205         | 0.439                 | 0.131                  | 22.2             |
| Right cheek   | 802.11a      | 52/5260        | 97.62%     | 1.024                    | 0.176          | 0.058           | 0.09             | 10.49                | 11.30              | 1.205         | 0.217                 | 0.072                  | 22.2             |
| Right tilted  | 802.11a      | 52/5260        | 97.62%     | 1.024                    | 0.228          | 0.080           | 0.13             | 10.49                | 11.30              | 1.205         | 0.281                 | 0.099                  | 22.2             |
| Head Test data of U-NII-2C  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek  | 802.11a      | 116/5580       | 97.62%     | 1.024                    | 0.279          | 0.086           | 0.18             | 10.82                | 11.30              | 1.117         | 0.319                 | 0.098                  | 22.2             |
| Left tilted   | 802.11a      | 116/5580       | 97.62%     | 1.024                    | 0.237          | 0.071           | -0.09            | 10.82                | 11.30              | 1.117         | 0.271                 | 0.081                  | 22.2             |
| Right cheek   | 802.11a      | 116/5580       | 97.62%     | 1.024                    | 0.134          | 0.047           | 0.07             | 10.82                | 11.30              | 1.117         | 0.153                 | 0.054                  | 22.2             |
| Right tilted  | 802.11a      | 116/5580       | 97.62%     | 1.024                    | 0.144          | 0.050           | -0.03            | 10.82                | 11.30              | 1.117         | 0.165                 | 0.057                  | 22.2             |
| Head Test data of U-NII-3   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek  | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.265          | 0.077           | -0.05            | 10.96                | 11.00              | 1.009         | 0.310                 | 0.090                  | 22.2             |
| Left tilted   | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.237          | 0.069           | 0.03             | 10.96                | 11.00              | 1.009         | 0.278                 | 0.081                  | 22.2             |
| Right cheek   | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.115          | 0.041           | 0.09             | 10.96                | 11.00              | 1.009         | 0.135                 | 0.048                  | 22.2             |
| Right tilted  | 802.11ac 80M | 155/5775       | 86.16%     | 1.161                    | 0.127          | 0.044           | 0.10             | 10.96                | 11.00              | 1.009         | 0.149                 | 0.052                  | 22.2             |
| Ant9(chain1) Additional Test data(simultaneous transmission with WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/ WWAN+WLAN 5G Receiver off/WWAN+WLAN 5G+BT Receiver off) |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Test position   | Test mode    | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Hotspot Test data of U-NII-1(Separate 10mm)   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side   | 802.11a      | 48/5240        | 97.62%     | 1.024                    | 0.418          | 0.143           | -0.11            | 16.59                | 17.60              | 1.262         | 0.540                 | 0.185                  | 22.2             |
| Top side  | 802.11a      | 48/5240        | 97.62%     | 1.024                    | 0.432          | 0.187           | 0.06             | 16.59                | 17.60              | 1.262         | 0.558                 | 0.242                  | 22.2             |
| MIMO Test Record  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Test position   | Test mode    | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test data of U-NII-2A  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek  | 802.11a      | 52/5260        | 97.27%     | 1.028                    | 0.573          | 0.161           | 0.01             | 14.97                | 16.10              | 1.297         | 0.764                 | 0.215                  | 22.2             |
| Left tilted   | 802.11a      | 52/5260        | 97.27%     | 1.028                    | 0.544          | 0.168           | 0.02             | 14.97                | 16.10              | 1.297         | 0.725                 | 0.224                  | 22.2             |
| Right cheek   | 802.11a      | 52/5260        | 97.27%     | 1.028                    | 0.250          | 0.016           | -0.04            | 14.97                | 16.10              | 1.297         | 0.333                 | 0.021                  | 22.2             |
| Right tilted  | 802.11a      | 52/5260        | 97.27%     | 1.028                    | 0.338          | 0.118           | 0.05             | 14.97                | 16.10              | 1.297         | 0.451                 | 0.157                  | 22.2             |
| Head Test data of U-NII-2C  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek  | 802.11a      | 116/5580       | 97.27%     | 1.028                    | 0.387          | 0.113           | 0.01             | 15.11                | 16.10              | 1.256         | 0.500                 | 0.146                  | 22.2             |
| Left tilted   | 802.11a      | 116/5580       | 97.27%     | 1.028                    | 0.327          | 0.100           | 0.01             | 15.11                | 16.10              | 1.256         | 0.422                 | 0.129                  | 22.2             |
| Right cheek   | 802.11a      | 116/5580       | 97.27%     | 1.028                    | 0.182          | 0.064           | 0.04             | 15.11                | 16.10              | 1.256         | 0.235                 | 0.082                  | 22.2             |
| Right tilted  | 802.11a      | 116/5580       | 97.27%     | 1.028                    | 0.198          | 0.069           | 0.05             | 15.11                | 16.10              | 1.256         | 0.256                 | 0.089                  | 22.2             |
| Head Test data of U-NII-3   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek  | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.338          | 0.093           | 0.04             | 14.77                | 15.50              | 1.183         | 0.467                 | 0.129                  | 22.2             |
| Left tilted   | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.291          | 0.084           | 0.07             | 14.77                | 15.50              | 1.183         | 0.402                 | 0.115                  | 22.2             |
| Right cheek   | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.154          | 0.054           | 0.04             | 14.77                | 15.50              | 1.183         | 0.213                 | 0.074                  | 22.2             |
| Right tilted  | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.171          | 0.060           | 0.04             | 14.77                | 15.50              | 1.183         | 0.236                 | 0.083                  | 22.2             |
| Head Test Data at the worst case with Battery 2#  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek  | 802.11a      | 52/5260        | 97.27%     | 1.028                    | 0.566          | 0.159           | 0.06             | 14.97                | 16.10              | 1.297         | 0.755                 | 0.212                  | 22.2             |
| Body worn Test data of U-NII-2A (Separate 15mm)   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side  | 802.11a      | 60/5300        | 97.27%     | 1.028                    | 0.155          | 0.062           | 0.01             | 20.49                | 21.50              | 1.262         | 0.201                 | 0.081                  | 22.2             |
| Back side   | 802.11a      | 60/5300        | 97.27%     | 1.028                    | 0.430          | 0.154           | 0.06             | 20.49                | 21.50              | 1.262         | 0.558                 | 0.200                  | 22.2             |
| Body worn Test data of U-NII-2C(Separate 15mm)  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side  | 802.11a      | 140/5700       | 97.27%     | 1.028                    | 0.102          | 0.038           | -0.04            | 20.60                | 21.50              | 1.230         | 0.129                 | 0.049                  | 22.2             |
| Back side   | 802.11a      | 140/5700       | 97.27%     | 1.028                    | 0.240          | 0.085           | 0.09             | 20.60                | 21.50              | 1.230         | 0.304                 | 0.108                  | 22.2             |

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| Body worn Test data of U-NII-3(Separate 15mm)   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
|---|--------------|----------------|------------|--------------------------|----------------|-----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------------|------------------|
| Front side  | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.039          | 0.014           | 0.00             | 15.79                | 16.50              | 1.178         | 0.053                 | 0.019                  | 22.2             |
| Back side   | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.129          | 0.046           | 0.00             | 15.79                | 16.50              | 1.178         | 0.177                 | 0.063                  | 22.2             |
| Body worn Test Data at the worst case with Battery 2#   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side   | 802.11a      | 60/5300        | 97.27%     | 1.028                    | 0.424          | 0.152           | 0.11             | 20.49                | 21.50              | 1.262         | 0.550                 | 0.197                  | 22.2             |
| Hotspot Test data of U-NII-1(Separate 10mm)   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side  | 802.11a      | 48/5240        | 97.27%     | 1.028                    | 0.180          | 0.072           | 0.08             | 20.42                | 21.50              | 1.282         | 0.237                 | 0.095                  | 22.2             |
| Back side   | 802.11a      | 48/5240        | 97.27%     | 1.028                    | 0.538          | 0.174           | 0.02             | 20.42                | 21.50              | 1.282         | <b>0.709</b>          | 0.229                  | 22.2             |
| Left side   | 802.11a      | 48/5240        | 97.27%     | 1.028                    | 0.074          | 0.032           | -0.18            | 20.42                | 21.50              | 1.282         | 0.097                 | 0.042                  | 22.2             |
| Right side  | 802.11a      | 48/5240        | 97.27%     | 1.028                    | 0.233          | 0.086           | -0.09            | 20.42                | 21.50              | 1.282         | 0.307                 | 0.113                  | 22.2             |
| Top side  | 802.11a      | 48/5240        | 97.27%     | 1.028                    | 0.467          | 0.188           | 0.04             | 20.42                | 21.50              | 1.282         | 0.616                 | 0.248                  | 22.2             |
| Hotspot Test data of U-NII-3 (Separate 10mm)  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side  | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.082          | 0.026           | -0.17            | 15.79                | 16.50              | 1.178         | 0.113                 | 0.036                  | 22.2             |
| Back side   | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.255          | 0.077           | -0.01            | 15.79                | 16.50              | 1.178         | 0.351                 | 0.106                  | 22.2             |
| Left side   | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.014          | 0.001           | 0.00             | 15.79                | 16.50              | 1.178         | 0.019                 | 0.001                  | 22.2             |
| Right side  | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.147          | 0.050           | -0.03            | 15.79                | 16.50              | 1.178         | 0.202                 | 0.068                  | 22.2             |
| Top side  | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.088          | 0.034           | 0.07             | 15.79                | 16.50              | 1.178         | 0.120                 | 0.047                  | 22.2             |
| Hotspot Test Data at the worst case with Battery 2#   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side   | 802.11a      | 48/5240        | 97.27%     | 1.028                    | 0.495          | 0.163           | -0.06            | 20.42                | 21.50              | 1.282         | 0.653                 | 0.215                  | 22.2             |
| Test position   | Test mode    | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Product specific 10g SAR Test data of U-NII-2A(Separate 0mm)  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side  | 802.11a      | 60/5300        | 97.27%     | 1.028                    | 5.460          | 1.270           | -0.01            | 20.49                | 21.50              | 1.262         | 7.083                 | 1.647                  | 22.2             |
| Back side   | 802.11a      | 60/5300        | 97.27%     | 1.028                    | 4.250          | 1.140           | -0.19            | 20.49                | 21.50              | 1.262         | 5.513                 | 1.479                  | 22.2             |
| Left side   | 802.11a      | 60/5300        | 97.27%     | 1.028                    | 0.216          | 0.083           | 0.04             | 20.49                | 21.50              | 1.262         | 0.280                 | 0.108                  | 22.2             |
| Right side  | 802.11a      | 60/5300        | 97.27%     | 1.028                    | 1.310          | 0.408           | 0.05             | 20.49                | 21.50              | 1.262         | 1.699                 | 0.529                  | 22.2             |
| Top side  | 802.11a      | 60/5300        | 97.27%     | 1.028                    | 6.360          | 1.610           | 0.08             | 20.49                | 21.50              | 1.262         | 8.250                 | 2.089                  | 22.2             |
| Top side  | 802.11a      | 52/5260        | 97.27%     | 1.028                    | 7.400          | 1.730           | -0.05            | 20.41                | 21.50              | 1.285         | 9.778                 | <b>2.286</b>           | 22.2             |
| Product specific 10g SAR Test data of U-NII-2C(Separate 0mm)  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Front side  | 802.11a      | 140/5700       | 97.27%     | 1.028                    | 2.840          | 0.643           | -0.04            | 20.60                | 21.50              | 1.230         | 3.592                 | 0.813                  | 22.2             |
| Back side   | 802.11a      | 140/5700       | 97.27%     | 1.028                    | 3.360          | 0.764           | -0.17            | 20.60                | 21.50              | 1.230         | 4.250                 | 0.966                  | 22.2             |
| Left side   | 802.11a      | 140/5700       | 97.27%     | 1.028                    | 0.089          | 0.036           | 0.00             | 20.60                | 21.50              | 1.230         | 0.113                 | 0.046                  | 22.2             |
| Right side  | 802.11a      | 140/5700       | 97.27%     | 1.028                    | 1.310          | 0.348           | 0.07             | 20.60                | 21.50              | 1.230         | 1.657                 | 0.440                  | 22.2             |
| Top side  | 802.11a      | 140/5700       | 97.27%     | 1.028                    | 3.820          | 0.896           | -0.11            | 20.60                | 21.50              | 1.230         | 4.832                 | 1.133                  | 22.2             |
| Product specific 10g Test Data at the worst case with Battery 2#  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Top side  | 802.11a      | 52/5260        | 97.27%     | 1.028                    | 6.420          | 1.580           | -0.04            | 20.41                | 21.50              | 1.285         | 8.483                 | 2.088                  | 22.2             |
| MIMO Additional Test data(simultaneous transmission with WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on) |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Test position   | Test mode    | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Head Test data of U-NII-2A  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek  | 802.11a      | 52/5260        | 97.27%     | 1.028                    | 0.364          | 0.103           | -0.11            | 13.47                | 14.30              | 1.211         | 0.453                 | 0.128                  | 22.2             |
| Left tilted   | 802.11a      | 52/5260        | 97.27%     | 1.028                    | 0.355          | 0.111           | 0.03             | 13.47                | 14.30              | 1.211         | 0.442                 | 0.138                  | 22.2             |
| Right cheek   | 802.11a      | 52/5260        | 97.27%     | 1.028                    | 0.165          | 0.011           | 0.07             | 13.47                | 14.30              | 1.211         | 0.205                 | 0.014                  | 22.2             |
| Right tilted  | 802.11a      | 52/5260        | 97.27%     | 1.028                    | 0.223          | 0.078           | 0.09             | 13.47                | 14.30              | 1.211         | 0.278                 | 0.097                  | 22.2             |
| Head Test data of U-NII-2C  |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek  | 802.11a      | 116/5580       | 97.27%     | 1.028                    | 0.256          | 0.075           | -0.05            | 13.77                | 14.30              | 1.130         | 0.297                 | 0.087                  | 22.2             |
| Left tilted   | 802.11a      | 116/5580       | 97.27%     | 1.028                    | 0.216          | 0.066           | -0.06            | 13.77                | 14.30              | 1.130         | 0.251                 | 0.077                  | 22.2             |
| Right cheek   | 802.11a      | 116/5580       | 97.27%     | 1.028                    | 0.120          | 0.042           | 0.07             | 13.77                | 14.30              | 1.130         | 0.139                 | 0.049                  | 22.2             |
| Right tilted  | 802.11a      | 116/5580       | 97.27%     | 1.028                    | 0.131          | 0.045           | 0.09             | 13.77                | 14.30              | 1.130         | 0.152                 | 0.052                  | 22.2             |
| Head Test data of U-NII-3   |              |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Left cheek  | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.239          | 0.066           | 0.10             | 13.35                | 14.00              | 1.161         | 0.324                 | 0.089                  | 22.2             |
| Left tilted   | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.206          | 0.059           | 0.03             | 13.35                | 14.00              | 1.161         | 0.279                 | 0.080                  | 22.2             |
| Right cheek   | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.109          | 0.038           | -0.02            | 13.35                | 14.00              | 1.161         | 0.148                 | 0.052                  | 22.2             |
| Right tilted  | 802.11ac 80M | 155/5775       | 85.66%     | 1.167                    | 0.121          | 0.043           | 0.05             | 13.35                | 14.00              | 1.161         | 0.164                 | 0.058                  | 22.2             |

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| MIMO Additional Test data(simultaneous transmission with WWAN+WLAN 5G Receiver off/<br>WWAN+WLAN 5G+BT Receiver off) |           |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
|--|-----------|----------------|------------|--------------------------|----------------|-----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------------|------------------|
| Test position  | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Hotspot Test data of U-NII-1(Separate 10mm)  |           |                |            |                          |                |                 |                  |                      |                    |               |                       |                        |                  |
| Back side  | 802.11a   | 48/5240        | 97.27%     | 1.028                    | 0.437          | 0.141           | -0.13            | 19.42                | 20.60              | 1.312         | 0.590                 | 0.190                  | 22.2             |
| Top side   | 802.11a   | 48/5240        | 97.27%     | 1.028                    | 0.380          | 0.153           | 0.11             | 19.42                | 20.60              | 1.312         | 0.513                 | 0.206                  | 22.2             |

Table 41: SAR of WIFI 5G for Head and Body.

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) 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) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 4) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band for that configuration;
- 5) Per KDB248227D01, as 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.

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### 8.4.2 SAR Result of BT

| Test position   | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|---|-----------|----------------|------------|--------------------------|----------------|-----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------------|------------------|
| Head Test data  |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | DH5       | 39/2441        | 76.84%     | 1.301                    | 0.367          | 0.173           | -0.03            | 13.64                 | 14.50               | 1.219         | <b>0.582</b>          | 0.274                  | 22               |
| Left tilted   | DH5       | 39/2441        | 76.84%     | 1.301                    | 0.330          | 0.140           | -0.05            | 13.64                 | 14.50               | 1.219         | 0.524                 | 0.222                  | 22               |
| Right cheek   | DH5       | 39/2441        | 76.84%     | 1.301                    | 0.195          | 0.093           | 0.03             | 13.64                 | 14.50               | 1.219         | 0.309                 | 0.147                  | 22               |
| Right tilted  | DH5       | 39/2441        | 76.84%     | 1.301                    | 0.180          | 0.083           | -0.05            | 13.64                 | 14.50               | 1.219         | 0.286                 | 0.131                  | 22               |
| Head Test Data at the worst case with Battery 2#                |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Left cheek  | DH5       | 39/2441        | 76.84%     | 1.301                    | 0.364          | 0.171           | -0.02            | 13.64                 | 14.50               | 1.219         | 0.577                 | 0.271                  | 22               |
| Hotspot Test data (Separate 10mm)                               |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Front side  | DH5       | 39/2441        | 76.84%     | 1.301                    | 0.052          | 0.026           | 0.06             | 13.64                 | 14.50               | 1.219         | 0.082                 | 0.042                  | 22               |
| Back side   | DH5       | 39/2441        | 76.84%     | 1.301                    | 0.062          | 0.030           | 0.01             | 13.64                 | 14.50               | 1.219         | 0.098                 | 0.047                  | 22               |
| Right side  | DH5       | 39/2441        | 76.84%     | 1.301                    | 0.026          | 0.010           | 0.05             | 13.64                 | 14.50               | 1.219         | 0.042                 | 0.016                  | 22               |
| Top side  | DH5       | 39/2441        | 76.84%     | 1.301                    | 0.064          | 0.031           | -0.02            | 13.64                 | 14.50               | 1.219         | <b>0.102</b>          | 0.049                  | 22               |
| Body Test Data at the worst case with Battery 2#(Separate 10mm) |           |                |            |                          |                |                 |                  |                       |                     |               |                       |                        |                  |
| Top side  | DH5       | 39/2441        | 76.84%     | 1.301                    | 0.063          | 0.030           | -0.03            | 13.64                 | 14.50               | 1.219         | 0.100                 | 0.048                  | 22               |

Table 42: SAR of BT 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).

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## 8.5 Multiple Transmitter Evaluation

### 8.5.1 Simultaneous SAR test evaluation

#### 1) Simultaneous Transmission

| NO. | Simultaneous Tx Combination                     | Head | Body |
|-----|---|------|------|
| 1   | WWAN+WLAN 2.4GHz(chain0)                        | Yes  | Yes  |
| 2   | WWAN+WLAN 2.4GHz(chain1)                        | Yes  | Yes  |
| 3   | WWAN+WLAN 2.4GHz MIMO/CDD                       | Yes  | Yes  |
| 4   | WWAN+WLAN 5GHz(chain0)                          | Yes  | Yes  |
| 5   | WWAN+WLAN 5GHz(chain1)                          | Yes  | Yes  |
| 6   | WWAN+WLAN 5GHz MIMO/CDD                         | Yes  | Yes  |
| 7   | WWAN+BT   | Yes  | Yes  |
| 8   | WWAN+WLAN 2.4GHz(chain0)+BT                     | N/A  | N/A  |
| 9   | WWAN+WLAN 2.4GHz(chain1)+BT                     | Yes  | Yes  |
| 10  | WWAN+WLAN 5GHz(chain0)+BT                       | Yes  | Yes  |
| 11  | WWAN+WLAN 5GHz(chain1)+BT                       | Yes  | Yes  |
| 12  | WWAN+WLAN 2.4GHz MIMO/CDD+BT                    | N/A  | N/A  |
| 13  | WWAN+WLAN 5GHz MIMO/CDD+BT                      | Yes  | Yes  |
| 14  | WWAN+WLAN 2.4GHz(chain0)+ WLAN 5GHz(chain1)     | Yes  | Yes  |
| 15  | WWAN+WLAN 2.4GHz(chain1)+ WLAN 5GHz(chain0)     | N/A  | N/A  |
| 16  | WWAN+WLAN 2.4GHz(chain1)+ WLAN 5GHz(chain1)     | N/A  | N/A  |
| 17  | WWAN+WLAN 5GHz MIMO/CDD+ WLAN 2.4GHz(chain1)    | N/A  | N/A  |
| 18  | WWAN+WLAN 2.4GHz MIMO/CDD+ WLAN 5GHz(chain1)    | N/A  | N/A  |
| 19  | WWAN+WLAN 2.4GHz(chain0)+ WLAN 5GHz(chain1)+BT  | N/A  | N/A  |
| 20  | WWAN+WLAN 2.4GHz(chain1)+ WLAN 5GHz(chain0)+BT  | N/A  | N/A  |
| 21  | WWAN+WLAN 2.4GHz(chain1)+ WLAN 5GHz(chain1)+BT  | N/A  | N/A  |
| 22  | WWAN+WLAN 5GHz MIMO/CDD+ WLAN 2.4GHz(chain1)+BT | N/A  | N/A  |
| 23  | WWAN+WLAN 2.4GHz MIMO/CDD+ WLAN 5GHz(chain1)+BT | N/A  | N/A  |
| 24  | WLAN 2.4GHz(chain0)+BT                          | N/A  | N/A  |
| 25  | WLAN 2.4GHz(chain1)+BT                          | Yes  | Yes  |
| 26  | WLAN 5GHz(chain0)+BT                            | Yes  | Yes  |
| 27  | WLAN 5GHz(chain1)+BT                            | Yes  | Yes  |
| 28  | WLAN 2.4GHz MIMO/CDD+BT                         | N/A  | N/A  |
| 29  | WLAN 5GHz MIMO/CDD+BT                           | Yes  | Yes  |
| 30  | WLAN 2.4GHz(chain0)+ WLAN 5GHz(chain1)          | Yes  | Yes  |
| 31  | WLAN 2.4GHz(chain1)+ WLAN 5GHz(chain0)          | N/A  | N/A  |
| 32  | WLAN 2.4GHz(chain1)+ WLAN 5GHz(chain1)          | N/A  | N/A  |
| 33  | WLAN 5GHz MIMO/CDD+ WLAN 2.4GHz(chain1)         | N/A  | N/A  |
| 34  | WLAN 2.4GHz MIMO/CDD+ WLAN 5GHz(chain1)         | N/A  | N/A  |
| 35  | WLAN 2.4GHz(chain0)+ WLAN 5GHz(chain1)+BT       | N/A  | N/A  |
| 36  | WLAN 2.4GHz(chain1)+ WLAN 5GHz(chain0)+BT       | N/A  | N/A  |
| 37  | WLAN 2.4GHz(chain1)+ WLAN 5GHz(chain1)+BT       | N/A  | N/A  |
| 38  | WLAN 5GHz MIMO/CDD+ WLAN 2.4GHz(chain1)+BT      | N/A  | N/A  |
| 39  | WLAN 2.4GHz MIMO/CDD+ WLAN 5GHz(chain1)+BT      | N/A  | N/A  |

Note:

- 1) The device does not support DTM function.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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| No.       |                   | 1        | 1a       | 1b       | 1c       | 2        | 2a        | 2b       | 3        | 3a        | 4        | 4a       | 5        | 6        | 6a        | 6b       | 7        | 7a       | 8        | 10+2a      | 10+3a      | 10+4a      | 10+5       | 10+6a      | 10+7a      | 1+8        | 10+3a+8    | 10+5+8     | 10+6a+8    | 10+7a+8    | 10+2a+8a   |
|-----------|-------------------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| WWAN Band | Exposure position | State1   | State 3  | State 5  | State 7  | state 9  | state 3/5 | state 13 | state 9  | state 3/5 | state 9  | state 5  | state 11 | state 11 | state 3/7 | state 13 | state 11 | state 7  | BT       | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR |
|           |                   | Channel0 | Channel0 | Channel0 | Channel0 | Channel0 | Channel1  | Channel1 | Channel1 | Channel1  | Channel1 | Channel1 | Channel1 | Channel1 | Channel1  | Channel1 | Channel1 | Channel1 | Channel1 | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   |
| GSM 850   | Left Touch        | 0.334    | 0.334    | 0.334    | 0.334    | 0.776    | 0.504     | 0.776    | 0.040    | 0.040     | 0.794    | 0.557    | 0.323    | 0.700    | 0.420     | 0.700    | 0.764    | 0.453    | 0.582    | 0.838      | 0.374      | 0.891      | 0.657      | 0.754      | 0.787      | 0.916      | 0.956      | 1.239      | 1.336      | 1.569      | 1.258      |
|           | Left Tilt         | 0.217    | 0.217    | 0.217    | 0.217    | 0.790    | 0.513     | 0.790    | 0.056    | 0.056     | 0.762    | 0.535    | 0.086    | 0.687    | 0.439     | 0.687    | 0.725    | 0.442    | 0.524    | 0.730      | 0.273      | 0.752      | 0.303      | 0.656      | 0.659      | 0.741      | 0.797      | 0.827      | 1.180      | 1.183      | 1.169      |
|           | Right Touch       | 0.476    | 0.476    | 0.476    | 0.476    | 0.317    | 0.205     | 0.317    | 0.054    | 0.054     | 0.333    | 0.234    | 0.172    | 0.380    | 0.217     | 0.380    | 0.333    | 0.205    | 0.309    | 0.681      | 0.530      | 0.710      | 0.648      | 0.693      | 0.681      | 0.785      | 0.839      | 0.957      | 1.002      | 0.980      | 0.898      |

| No.       |                   | 1        | 1a       | 1b       | 1c       | 2        | 2a        | 2b       | 3        | 3a        | 4        | 4a       | 5        | 6        | 6a        | 6b       | 7        | 7a       | 8        | 10+2a      | 10+3a      | 10+4a      | 10+5       | 10+6a      | 10+7a      | 1+8        | 10+3a+8    | 10+5+8     | 10+6a+8    | 10+7a+8    | 10+2a+8a   |
|-----------|-------------------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| WWAN Band | Exposure position | State1   | State 3  | State 5  | State 7  | state 9  | state 3/5 | state 13 | state 9  | state 3/5 | state 9  | state 5  | state 11 | state 11 | state 3/7 | state 13 | state 11 | state 7  | BT       | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR | Summed SAR |
|           |                   | Channel0 | Channel0 | Channel0 | Channel0 | Channel0 | Channel1  | Channel1 | Channel1 | Channel1  | Channel1 | Channel1 | Channel1 | Channel1 | Channel1  | Channel1 | Channel1 | Channel1 | Channel1 | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   | Channel1   |
| GSM 1900  | Left Touch        | 0.728    | 0.481    | 0.558    | 0.558    | 0.776    | 0.504     | 0.776    | 0.040    | 0.040     | 0.794    | 0.557    | 0.323    | 0.700    | 0.420     | 0.700    | 0.764    | 0.453    | 0.582    | 1.062      | 0.598      | 1.115      | 0.881      | 0.978      | 1.011      | 1.310      | 1.180      | 1.463      | 1.560      | 1.593      | 1.405      |
|           | Left Tilt         | 0.793    | 0.621    | 0.627    | 0.627    | 0.790    | 0.513     | 0.790    | 0.056    | 0.056     | 0.762    | 0.535    | 0.086    | 0.687    | 0.439     | 0.687    | 0.725    | 0.442    | 0.524    | 1.140      | 0.683      | 1.162      | 0.713      | 1.066      | 1.069      | 1.317      | 1.207      | 1.237      | 1.590      | 1.593      | 1.473      |
|           | Right Touch       | 0.849    | 0.849    | 0.849    | 0.849    | 0.317    | 0.205     | 0.317    | 0.054    | 0.054     | 0.333    | 0.234    | 0.172    | 0.380    | 0.217     | 0.380    | 0.333    | 0.205    | 0.309    | 1.053      | 0.903      | 1.083      | 1.021      | 1.066      | 1.054      | 1.158      | 1.212      | 1.330      | 1.375      | 1.363      | 1.271      |

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Table with columns: No., Wwan Band, Exposure position, 1, 1a, 1b, 1c, 2, 2a, 2b, 3, 3a, 4, 4a, 5, 6, 6a, 6b, 7, 7a, 8, 1b+2a, 1b+3a, 1b+4a, 1c+5, 1c+6a, 1c+7a, 1+8, 1b+3a+8, 1c+5+8, 1c+6a+8, 1c+7a+8, 1a+2a+6a. Rows include GSM, WCDMA, LTE bands with SAR values for various exposure positions.

Table with columns: No., Wwan Band, Exposure position, 1, 1a, 1b, 1c, 2, 2a, 2b, 3, 3a, 4, 4a, 5, 6, 6a, 6b, 7, 7a, 8, 1b+2a, 1b+3a, 1b+4a, 1c+5, 1c+6a, 1c+7a, 1+8, 1b+3a+8, 1c+5+8, 1c+6a+8, 1c+7a+8, 1a+2a+6a. Rows include GSM, WCDMA, LTE bands with SAR values for various exposure positions.

Table with columns: No., Wwan Band, Exposure position, 1, 1a, 1b, 1c, 2, 2a, 2b, 3, 3a, 4, 4a, 5, 6, 6a, 6b, 7, 7a, 8, 1b+2a, 1b+3a, 1b+4a, 1c+5, 1c+6a, 1c+7a, 1+8, 1b+3a+8, 1c+5+8, 1c+6a+8, 1c+7a+8, 1a+2a+6a. Rows include GSM, WCDMA, LTE bands with SAR values for various exposure positions.

Table with columns: No., Wwan Band, Exposure position, 1, 1a, 1b, 1c, 2, 2a, 2b, 3, 3a, 4, 4a, 5, 6, 6a, 6b, 7, 7a, 8, 1b+2a, 1b+3a, 1b+4a, 1c+5, 1c+6a, 1c+7a, 1+8, 1b+3a+8, 1c+5+8, 1c+6a+8, 1c+7a+8, 1a+2a+6a. Rows include GSM, WCDMA, LTE bands with SAR values for various exposure positions.

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| No.         |                   | 1      | 1a     | 1b     | 1c     | 2                   | 2a                  | 2b                  | 3                   | 3a                   | 4                   | 4a                   | 5                 | 6                 | 6a                 | 6b                | 7                 | 7a               | 8     | 1b+2a              | 1b+3a              | 1b+4a              | 1c+5               | 1c+6a              | 1c+7a              | 1+8        | 1b+3a+8            | 1c+5+8             | 1c+6a+8            | 1c+7a+8            | 1a+2a+6a           |       |       |       |
|-------------|-------------------|--------|--------|--------|--------|---------------------|---------------------|---------------------|---------------------|----------------------|---------------------|----------------------|-------------------|-------------------|--------------------|-------------------|-------------------|------------------|-------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------|-------|-------|
| WWAN Band   | Exposure position | State2 | State4 | State6 | State8 | state 10 2.4G Chn10 | state4/6 2.4G Chn10 | state 14 2.4G Chn10 | state 10 2.4G Chn11 | state 4/6 2.4G Chn11 | state 10 2.4G Chn11 | state 4/6 2.4G Chn11 | state 12 5G Chn10 | state 12 5G Chn11 | state 4/8 5G Chn11 | state 14 5G Chn11 | state 12 5G Chn11 | state 8 5G Chn11 | BT    | state 6 Summed SAR | state 6 Summed SAR | state 6 Summed SAR | state 8 Summed SAR | state 8 Summed SAR | state 8 Summed SAR | Summed SAR | state 6 Summed SAR | state 8 Summed SAR | state 8 Summed SAR | state 8 Summed SAR | state 8 Summed SAR |       |       |       |
| GSM 1900    | Front side        | 0.048  | 0.048  | 0.048  | 0.048  | 0.210               | 0.210               | 0.210               | 0.004               | 0.004                | 0.189               | 0.189                | 0.037             | 0.267             | 0.267              | 0.267             | 0.267             | 0.267            | 0.267 | 0.201              | 0.395              | 0.258              | 0.052              | 0.237              | 0.085              | 0.315      | 0.249              | 0.443              | 0.447              | 0.480              | 0.710              | 0.644 | 0.525 |       |
| WCDMA B2    | Front side        | 0.135  | 0.135  | 0.135  | 0.135  | 0.210               | 0.210               | 0.210               | 0.004               | 0.004                | 0.189               | 0.189                | 0.037             | 0.267             | 0.267              | 0.267             | 0.267             | 0.267            | 0.267 | 0.201              | 0.395              | 0.258              | 0.052              | 0.237              | 0.085              | 0.315      | 0.249              | 0.443              | 0.447              | 0.480              | 0.710              | 0.644 | 0.525 |       |
| WCDMA B4    | Front side        | 0.039  | 0.039  | 0.039  | 0.039  | 0.210               | 0.210               | 0.210               | 0.004               | 0.004                | 0.189               | 0.189                | 0.037             | 0.267             | 0.267              | 0.267             | 0.267             | 0.267            | 0.267 | 0.201              | 0.395              | 0.258              | 0.052              | 0.237              | 0.085              | 0.315      | 0.249              | 0.443              | 0.447              | 0.480              | 0.710              | 0.644 | 0.525 |       |
| LTE Band 2  | Front side        | 0.117  | 0.117  | 0.117  | 0.117  | 0.210               | 0.210               | 0.210               | 0.004               | 0.004                | 0.189               | 0.189                | 0.037             | 0.267             | 0.267              | 0.267             | 0.267             | 0.267            | 0.267 | 0.201              | 0.395              | 0.258              | 0.052              | 0.237              | 0.085              | 0.315      | 0.249              | 0.443              | 0.447              | 0.480              | 0.710              | 0.644 | 0.525 |       |
| LTE Band 4  | Front side        | 0.072  | 0.072  | 0.072  | 0.072  | 0.210               | 0.210               | 0.210               | 0.004               | 0.004                | 0.189               | 0.189                | 0.037             | 0.267             | 0.267              | 0.267             | 0.267             | 0.267            | 0.267 | 0.201              | 0.395              | 0.258              | 0.052              | 0.237              | 0.085              | 0.315      | 0.249              | 0.443              | 0.447              | 0.480              | 0.710              | 0.644 | 0.525 |       |
| LTE Band 7  | Front side        | 0.342  | 0.342  | 0.342  | 0.342  | 0.210               | 0.210               | 0.210               | 0.004               | 0.004                | 0.189               | 0.189                | 0.037             | 0.267             | 0.267              | 0.267             | 0.267             | 0.267            | 0.267 | 0.201              | 0.395              | 0.258              | 0.052              | 0.237              | 0.085              | 0.315      | 0.249              | 0.443              | 0.447              | 0.480              | 0.710              | 0.644 | 0.525 |       |
| LTE Band 8  | Front side        | 0.396  | 0.396  | 0.396  | 0.396  | 0.178               | 0.178               | 0.178               | 0.040               | 0.040                | 0.173               | 0.173                | 0.459             | 0.415             | 0.415              | 0.415             | 0.415             | 0.415            | 0.415 | 0.558              | 0.558              | 0.395              | 0.574              | 0.436              | 0.569              | 0.855      | 0.811              | 0.954              | 0.791              | 0.831              | 1.250              | 1.206 | 1.349 | 0.989 |
| LTE Band 38 | Front side        | 0.169  | 0.169  | 0.169  | 0.169  | 0.210               | 0.210               | 0.210               | 0.004               | 0.004                | 0.189               | 0.189                | 0.037             | 0.267             | 0.267              | 0.267             | 0.267             | 0.267            | 0.267 | 0.201              | 0.395              | 0.258              | 0.052              | 0.237              | 0.085              | 0.315      | 0.249              | 0.443              | 0.447              | 0.480              | 0.710              | 0.644 | 0.525 |       |
| LTE Band 41 | Front side        | 0.076  | 0.076  | 0.076  | 0.076  | 0.210               | 0.210               | 0.210               | 0.004               | 0.004                | 0.189               | 0.189                | 0.037             | 0.267             | 0.267              | 0.267             | 0.267             | 0.267            | 0.267 | 0.201              | 0.395              | 0.258              | 0.052              | 0.237              | 0.085              | 0.315      | 0.249              | 0.443              | 0.447              | 0.480              | 0.710              | 0.644 | 0.525 |       |
| LTE Band 66 | Front side        | 0.089  | 0.089  | 0.089  | 0.089  | 0.178               | 0.178               | 0.178               | 0.040               | 0.040                | 0.173               | 0.173                | 0.459             | 0.415             | 0.415              | 0.415             | 0.415             | 0.415            | 0.415 | 0.558              | 0.558              | 0.395              | 0.574              | 0.436              | 0.569              | 0.855      | 0.811              | 0.954              | 0.791              | 0.831              | 1.250              | 1.206 | 1.349 | 0.989 |

| No.         |                   | 1      | 1a     | 1b     | 1c     | 2                   | 2a                  | 2b                  | 3                   | 3a                   | 4                   | 4a                   | 5                 | 6                 | 6a                 | 6b                | 7                 | 7a               | 8     | 1b+2a              | 1b+3a              | 1b+4a              | 1c+5               | 1c+6a              | 1c+7a              | 1+8        | 1b+3a+8            | 1c+5+8             | 1c+6a+8            | 1c+7a+8            | 1a+2a+6a           |       |       |       |
|-------------|-------------------|--------|--------|--------|--------|---------------------|---------------------|---------------------|---------------------|----------------------|---------------------|----------------------|-------------------|-------------------|--------------------|-------------------|-------------------|------------------|-------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------|-------|-------|
| WWAN Band   | Exposure position | State2 | State4 | State6 | State8 | state 10 2.4G Chn10 | state4/6 2.4G Chn10 | state 14 2.4G Chn10 | state 10 2.4G Chn11 | state 4/6 2.4G Chn11 | state 10 2.4G Chn11 | state 4/6 2.4G Chn11 | state 12 5G Chn10 | state 12 5G Chn11 | state 4/8 5G Chn11 | state 14 5G Chn11 | state 12 5G Chn11 | state 8 5G Chn11 | BT    | state 6 Summed SAR | state 6 Summed SAR | state 6 Summed SAR | state 8 Summed SAR | state 8 Summed SAR | state 8 Summed SAR | Summed SAR | state 6 Summed SAR | state 8 Summed SAR | state 8 Summed SAR | state 8 Summed SAR | state 8 Summed SAR |       |       |       |
| GSM 850     | Front side        | 0.352  | 0.352  | 0.352  | 0.352  | 0.333               | 0.333               | 0.333               | 0.009               | 0.009                | 0.306               | 0.306                | 0.022             | 0.452             | 0.452              | 0.452             | 0.452             | 0.452            | 0.452 | 0.237              | 0.237              | 0.082              | 0.685              | 0.361              | 0.658              | 0.374      | 0.804              | 0.589              | 0.434              | 0.443              | 0.456              | 0.886 | 0.671 | 1.137 |
| GSM 850     | Back side         | 0.506  | 0.506  | 0.506  | 0.506  | 0.439               | 0.439               | 0.439               | 0.095               | 0.095                | 0.392               | 0.392                | 0.550             | 0.640             | 0.640              | 0.640             | 0.640             | 0.640            | 0.640 | 0.709              | 0.590              | 0.098              | 0.779              | 0.801              | 0.898              | 1.056      | 1.096              | 1.064              | 0.699              | 1.144              | 1.144              | 1.194 | 1.319 |       |
| GSM 850     | Left side         | 0.784  | 0.784  | 0.784  | 0.784  | /                   | /                   | /                   | 0.006               | 0.006                | 0.058               | 0.058                | /                 | /                 | /                  | /                 | /                 | /                | 0.097 | 0.097              | /                  | 0.784              | 0.801              | 0.898              | 1.056              | 1.096      | 1.064              | 0.699              | 1.144              | 1.144              | 1.194              | 1.319 |       |       |
| GSM 850     | Right side        | /      | /      | /      | /      | 0.227               | 0.140               | 0.227               | 0.003               | 0.003                | 0.168               | 0.168                | 0.171             | 0.229             | 0.229              | 0.229             | 0.307             | 0.307            | 0.307 | 0.042              | 0.140              | 0.003              | 0.168              | 0.171              | 0.229              | 0.307      | 0.307              | 0.042              | 0.045              | 0.213              | 0.271              | 0.349 | 0.369 |       |
| GSM 850     | Top side          | 0.033  | 0.033  | 0.033  | 0.033  | 0.449               | 0.279               | 0.449               | 0.060               | 0.060                | 0.552               | 0.552                | /                 | 0.668             | 0.558              | 0.668             | 0.616             | 0.513            | 0.102 | 0.312              | 0.093              | 0.585              | 0.033              | 0.591              | 0.546              | 0.135      | 0.195              | 0.135              | 0.693              | 0.648              | 0.870              | 0.000 | 0.000 |       |
| GSM 850     | Bottom side       | /      | /      | /      | /      | /                   | /                   | /                   | /                   | /                    | /                   | /                    | /                 | /                 | /                  | /                 | /                 | /                | /     | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000      | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000 | 0.000 |       |
| LTE Band 7  | Front side        | 0.330  | 0.330  | 0.330  | 0.330  | 0.333               | 0.333               | 0.333               | 0.009               | 0.009                | 0.306               | 0.306                | 0.022             | 0.452             | 0.452              | 0.452             | 0.452             | 0.452            | 0.452 | 0.237              | 0.237              | 0.082              | 0.683              | 0.339              | 0.636              | 0.352      | 0.782              | 0.567              | 0.412              | 0.421              | 0.434              | 0.864 | 0.649 | 1.115 |
| LTE Band 7  | Back side         | 0.769  | 0.769  | 0.769  | 0.769  | 0.439               | 0.273               | 0.439               | 0.095               | 0.095                | 0.392               | 0.392                | 0.550             | 0.640             | 0.640              | 0.640             | 0.640             | 0.640            | 0.640 | 0.709              | 0.590              | 0.098              | 0.762              | 0.584              | 0.881              | 1.039      | 1.029              | 1.079              | 0.867              | 0.682              | 1.137              | 1.127 | 1.147 | 1.302 |
| LTE Band 7  | Left side         | 0.846  | 0.846  | 0.846  | 0.846  | /                   | /                   | /                   | 0.006               | 0.006                | 0.058               | 0.058                | /                 | /                 | /                  | /                 | /                 | /                | 0.097 | 0.097              | /                  | 0.846              | 0.852              | 0.904              | 0.846              | 0.846      | 0.843              | 0.846              | 0.852              | 0.846              | 0.846              | 0.943 | 0.846 | 0.943 |
| LTE Band 7  | Right side        | /      | /      | /      | /      | 0.227               | 0.140               | 0.227               | 0.003               | 0.003                | 0.168               | 0.168                | 0.171             | 0.229             | 0.229              | 0.229             | 0.307             | 0.307            | 0.307 | 0.042              | 0.140              | 0.003              | 0.168              | 0.171              | 0.229              | 0.307      | 0.307              | 0.042              | 0.045              | 0.213              | 0.271              | 0.349 | 0.369 |       |
| LTE Band 7  | Top side          | 0.066  | 0.066  | 0.066  | 0.066  | 0.449               | 0.279               | 0.449               | 0.060               | 0.060                | 0.552               | 0.552                | /                 | 0.668             | 0.558              | 0.668             | 0.616             | 0.513            | 0.102 | 0.312              | 0.093              | 0.585              | 0.033              | 0.591              | 0.546              | 0.135      | 0.195              | 0.135              | 0.693              | 0.648              | 0.870              | 0.000 | 0.000 |       |
| LTE Band 7  | Bottom side       | /      | /      | /      | /      | /                   | /                   | /                   | /                   | /                    | /                   | /                    | /                 | /                 | /                  | /                 | /                 | /                | /     | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000      | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000 | 0.000 |       |
| LTE Band 12 | Front side        | 0.305  | 0.305  | 0.305  | 0.305  | 0.333               | 0.333               | 0.333               | 0.009               | 0.009                | 0.306               | 0.306                | 0.022             | 0.452             | 0.452              | 0.452             | 0.452             | 0.452            | 0.452 | 0.237              | 0.237              | 0.082              | 0.638              | 0.314              | 0.611              | 0.327      | 0.757              | 0.540              | 0.387              | 0.396              | 0.409              | 0.839 | 0.624 | 1.090 |
| LTE Band 12 | Back side         | 0.415  | 0.415  | 0.415  | 0.415  | 0.439               | 0.273               | 0.439               | 0.095               | 0.095                | 0.392               | 0.392                | 0.550             | 0.640             | 0.640              | 0.640             | 0.640             | 0.640            | 0.709 | 0.590              | 0.098              | 0.688              | 0.510              | 0.807              | 0.965              | 0.955      | 1.005              | 0.513              | 0.608              | 1.063              | 1.053              | 1.103 | 1.228 |       |
| LTE Band 12 | Left side         | 0.687  | 0.687  | 0.687  | 0.687  | /                   | /                   | /                   | 0.006               | 0.006                | 0.058               | 0.058                | /                 | /                 | /                  | /                 | /                 | /                | 0.097 | 0.097              | /                  | 0.687              | 0.693              | 0.745              | 0.687              | 0.687      | 0.784              | 0.687              | 0.693              | 0.687              | 0.784              | 0.687 | 0.784 | 0.687 |
| LTE Band 12 | Right side        | /      | /      | /      | /      | 0.227               | 0.140               | 0.227               | 0.003               | 0.003                | 0.168               | 0.168                | 0.171             | 0.229             | 0.229              | 0.229             | 0.307             | 0.307            | 0.307 | 0.042              | 0.140              | 0.003              | 0.168              | 0.171              | 0.229              | 0.307      | 0.307              | 0.042              | 0.045              | 0.213              | 0.271              | 0.349 | 0.369 |       |
| LTE Band 12 | Top side          | 0.012  | 0.012  | 0.012  | 0.012  | 0.449               | 0.279               | 0.449               | 0.060               | 0.060                | 0.552               | 0.552                | /                 | 0.668             | 0.558              | 0.668             | 0.616             | 0.513            | 0.102 | 0.291              | 0.072              | 0.564              | 0.012              | 0.570              | 0.525              | 0.114      | 0.174              | 0.114              | 0.672              | 0.627              | 0.849              | 0.000 | 0.000 |       |
| LTE Band 12 | Bottom side       | /      | /      | /      | /      | /                   | /                   | /                   | /                   | /                    | /                   | /                    | /                 | /                 | /                  | /                 | /                 | /                | /     | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000      | 0.000              | 0.000              | 0.000              | 0.000              | 0.000              | 0.000 | 0.000 |       |
| LTE Band 17 | Front side        | 0.334  | 0.334  | 0.334  | 0.334  | 0.333               | 0.333               | 0.333               | 0.009               | 0.009                | 0.306               | 0.306                | 0.022             | 0.452             | 0.452              | 0.452             | 0.452             | 0.452            | 0.452 | 0.237              | 0.237              | 0.082              | 0.667              | 0.343              | 0.640              | 0.356      | 0.786              | 0.571              | 0.416              | 0.425              | 0.438              | 0.868 | 0.653 | 1.119 |
| LTE Band 17 | Back side         | 0.456  | 0.456  | 0.456  | 0.456  | 0.439               | 0.273               | 0.439               | 0.095               | 0.095                | 0.392               | 0.392                |                   |                   |                    |                   |                   |                  |       |                    |                    |                    |                    |                    |                    |            |                    |                    |                    |                    |                    |       |       |       |







Table with columns for No., Exposure position, and SAR values for various bands (GSM, WCDMA, LTE) and body models (10mm, 15mm). Includes sub-headers for Simultaneous Transmission SAR Summation Scenarios.

Table for Simultaneous Transmission SAR Summation Scenario for WLAN Head. Columns include No., Exposure position, and SAR values for bands 2, 2a, 2b, 3, 3a, 4, 4a, 5, 6, 6a, 6b, 7, 7a, 8, 3+8, 5+8, 6+8, 7+8, and 2b+6b.

Table for Simultaneous Transmission SAR Summation Scenario for WLAN Body 15mm. Columns include No., Exposure position, and SAR values for bands 2, 2a, 2b, 3, 3a, 4, 4a, 5, 6, 6a, 6b, 7, 7a, 8, 3+8, 5+8, 6+8, 7+8, and 2b+6b.

Table for Simultaneous Transmission SAR Summation Scenario for WLAN Body 10mm. Columns include No., Exposure position, and SAR values for bands 2, 2a, 2b, 3, 3a, 4, 4a, 5, 6, 6a, 6b, 7, 7a, 8, 3+8, 5+8, 6+8, 7+8, and 2b+6b.

Note:

- 1) MAX. ΣSAR10g =Unlicensed SARMAX +Licensed SARMAX
2) State 1: WWAN Receiver on

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- State 2: WWAN Receiver off
- State 3: WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on
- State 4: WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off
- State 5: WWAN+WLAN 2.4G Receiver on/WWAN+WLAN 2.4G(Chain1)+BT Receiver on
- State 6: WWAN+WLAN 2.4G Receiver off/WWAN+WLAN 2.4G(Chain1)+BT Receiver off
- State 7: WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on
- State 8: WWAN+WLAN 5G Receiver off/WWAN+WLAN 5G+BT Receiver off
- State 9: WLAN Receiver on/WLAN 2.4G(Chain1)+BT Receiver on
- State 10: WLAN Receiver off/WLAN 2.4G(Chain1)+BT Receiver off
- State 11: WLAN Receiver on/WLAN 5G+BT Receiver on
- State 12: WLAN Receiver off/WLAN 5G+BT Receiver off
- State 13: WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on
- State 14: WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off

### 8.5.3 SPLSR Evaluation Analysis

According to KDB447498 D01v06, When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio(SPLSR).When the SAR to peak location ratio for each pair of antennas is  $\leq 1-g$  0.04 and  $10-g$  0.10, simultaneous SAR evaluation is not required.

When SAR is measured for both antennas in the pair, the peak location separation distance is computed by the following fomula:

$$\text{Distance}_{\text{Tx1-Tx2}} = R_i = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

$$\text{SPLS Ratio} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / R_i$$

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| Case No. | Position   | Band           | SAR (W/kg) | SAR peak location (cm) |       |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|------------|----------------|------------|------------------------|-------|--------|------------------|-------------------|---------------|------------------|
|          |            |                |            | X                      | Y     | Z      |                  |                   |               |                  |
| 1#       | Left cheek | GSM 850(Ant0)  | 0.793      | 2.84                   | -4.98 | -0.08  | 66.531           | 1.698             | 0.03          | Not Required     |
|          |            | WIFI 5G Chain0 | 0.323      | 4.72                   | 1.4   | -0.24  |                  |                   |               |                  |
|          |            | BT             | 0.582      | 1.01                   | 1.98  | -0.49  |                  |                   |               |                  |
|          | Left cheek | GSM 850(Ant0)  | 0.793      | 2.84                   | -4.98 | -0.08  | 72.082           | 1.698             | 0.03          | Not Required     |
|          |            | BT             | 0.582      | 1.010                  | 1.980 | -0.490 |                  |                   |               |                  |
|          |            | WIFI 5G Chain0 | 0.323      | 4.720                  | 1.400 | -0.240 |                  |                   |               |                  |



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| Case No. | Position   | Band           | SAR (W/kg) | SAR peak location (cm) |       |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|------------|----------------|------------|------------------------|-------|--------|------------------|-------------------|---------------|------------------|
|          |            |                |            | X                      | Y     | Z      |                  |                   |               |                  |
| 2#       | Left cheek | GSM 850(Ant0)  | 0.793      | 2.84                   | -4.98 | -0.08  | 75.899           | 1.795             | 0.03          | Not Required     |
|          |            | WiFi 5G Chain1 | 0.420      | 1.34                   | 2.46  | -0.02  |                  |                   |               |                  |
|          |            | BT             | 0.582      | 1.01                   | 1.98  | -0.49  |                  |                   |               |                  |
|          | Left cheek | GSM 850(Ant0)  | 0.793      | 2.84                   | -4.98 | -0.08  | 72.082           | 1.795             | 0.03          | Not Required     |
|          |            | BT             | 0.582      | 1.01                   | 1.98  | -0.49  |                  |                   |               |                  |
|          |            | WiFi 5G Chain1 | 0.420      | 1.340                  | 2.460 | -0.020 |                  |                   |               |                  |



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| Case No. | Position   | Band          | SAR (W/kg) | SAR peak location (cm) |       |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|------------|---------------|------------|------------------------|-------|--------|------------------|-------------------|---------------|------------------|
|          |            |               |            | X                      | Y     | Z      |                  |                   |               |                  |
| 3#       | Left cheek | GSM 850(Ant0) | 0.793      | 2.84                   | -4.98 | -0.08  | 75.379           | 1.828             | 0.03          | Not Required     |
|          |            | WIFI 5G MIMO  | 0.453      | 1.41                   | 2.42  | -0.2   |                  |                   |               |                  |
|          |            | BT            | 0.582      | 1.01                   | 1.98  | -0.49  |                  |                   |               |                  |
|          | Left cheek | GSM 850(Ant0) | 0.793      | 2.84                   | -4.98 | -0.08  | 72.082           | 1.828             | 0.03          | Not Required     |
|          |            | BT            | 0.582      | 1.010                  | 1.980 | -0.490 |                  |                   |               |                  |
|          |            | WIFI 5G MIMO  | 0.453      | 1.410                  | 2.420 | -0.200 |                  |                   |               |                  |

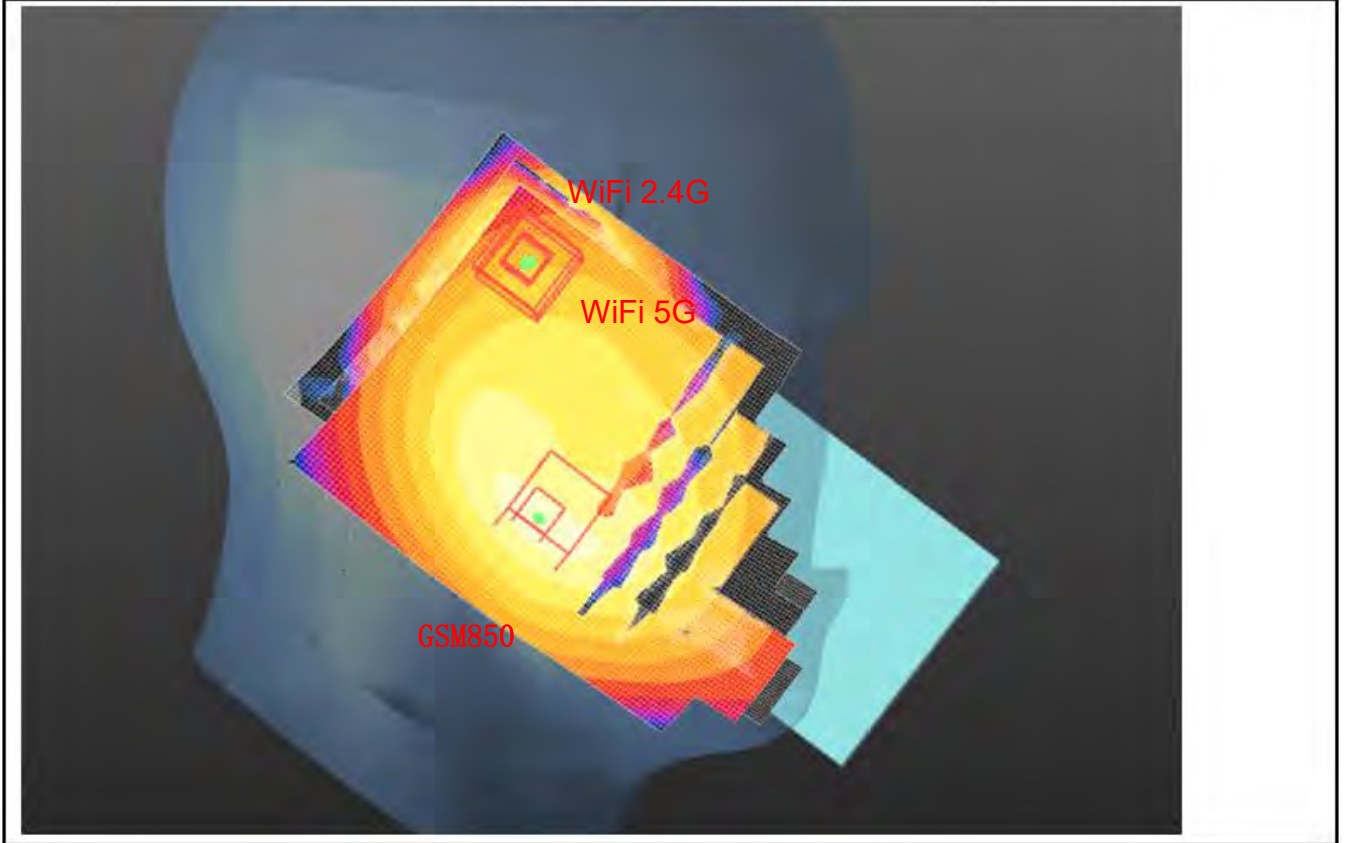


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| Case No. | Position   | Band             | SAR (W/kg) | SAR peak location (cm) |       |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|------------|------------------|------------|------------------------|-------|--------|------------------|-------------------|---------------|------------------|
|          |            |                  |            | X                      | Y     | Z      |                  |                   |               |                  |
| 4#       | Left cheek | GSM 850(Ant0)    | 0.793      | 2.84                   | -4.98 | -0.08  | 73.026           | 1.717             | 0.03          | Not Required     |
|          |            | WIFI 2.4G Chain0 | 0.504      | 0.99                   | 2.07  | -0.53  |                  |                   |               |                  |
|          |            | WIFI 5G Chain1   | 0.420      | 1.34                   | 2.46  | -0.02  |                  |                   |               |                  |
|          | Left cheek | GSM 850(Ant0)    | 0.793      | 2.84                   | -4.98 | -0.08  | 75.899           | 1.717             | 0.03          | Not Required     |
|          |            | WIFI 5G Chain1   | 0.420      | 1.340                  | 2.460 | -0.020 |                  |                   |               |                  |
|          |            | WIFI 2.4G Chain0 | 0.504      | 0.990                  | 2.070 | -0.530 |                  |                   |               |                  |



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## 9 Equipment list

| Test Platform                       |                 | SPEAG DASY5 Professional                      |         |               |                  |                         |
|-------------------------------------|-----------------|---|---------|---------------|------------------|-------------------------|
| Description                         |                 | SAR Test System (Frequency range 300MHz-6GHz) |         |               |                  |                         |
| Software Reference                  |                 | DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)   |         |               |                  |                         |
| Hardware Reference                  |                 |   |         |               |                  |                         |
| Equipment                           |                 | Manufacturer                                  | Model   | Serial Number | Calibration Date | Due date of calibration |
| <input checked="" type="checkbox"/> | Twin Phantom    | SPEAG   | SAM 3   | 1912          | NCR              | NCR                     |
| <input checked="" type="checkbox"/> | Twin Phantom    | SPEAG   | SAM 4   | 1640          | NCR              | NCR                     |
| <input checked="" type="checkbox"/> | Twin Phantom    | SPEAG   | SAM 7   | 1027          | NCR              | NCR                     |
| <input checked="" type="checkbox"/> | Twin Phantom    | SPEAG   | SAM 8   | 1063          | NCR              | NCR                     |
| <input checked="" type="checkbox"/> | DAE             | SPEAG   | DAE4    | 1267          | 2019-12-17       | 2020-12-16              |
| <input checked="" type="checkbox"/> | DAE             | SPEAG   | DAE4    | 871           | 2019-06-27       | 2020-06-26              |
| <input checked="" type="checkbox"/> | DAE             | SPEAG   | DAE4    | 896           | 2019-09-18       | 2020-09-17              |
| <input checked="" type="checkbox"/> | E-Field Probe   | SPEAG   | EX3DV4  | 3923          | 2019-10-22       | 2020-10-21              |
| <input checked="" type="checkbox"/> | E-Field Probe   | SPEAG   | EX3DV4  | 3793          | 2019-03-25       | 2020-03-24              |
| <input checked="" type="checkbox"/> | E-Field Probe   | SPEAG   | EX3DV4  | 3982          | 2019-09-11       | 2020-09-10              |
| <input checked="" type="checkbox"/> | Validation Kits | SPEAG   | D750V3  | 1160          | 2019-05-22       | 2022-05-21              |
| <input checked="" type="checkbox"/> | Validation Kits | SPEAG   | D835V2  | 4d105         | 2019-12-17       | 2022-12-16              |
| <input checked="" type="checkbox"/> | Validation Kits | SPEAG   | D1750V2 | 1149          | 2019-05-21       | 2022-05-20              |
| <input checked="" type="checkbox"/> | Validation Kits | SPEAG   | D1900V2 | 5d028         | 2019-12-17       | 2022-12-16              |
| <input checked="" type="checkbox"/> | Validation Kits | SPEAG   | D2300V2 | 1072          | 2019-05-21       | 2022-05-20              |
| <input checked="" type="checkbox"/> | Validation Kits | SPEAG   | D2450V2 | 733           | 2019-12-17       | 2022-12-16              |
| <input checked="" type="checkbox"/> | Validation Kits | SPEAG   | D2600V2 | 1125          | 2019-05-20       | 2022-05-19              |

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|                                     |                                      |                                    |             |            |            |            |
|-------------------------------------|--------------------------------------|------------------------------------|-------------|------------|------------|------------|
| <input checked="" type="checkbox"/> | Validation Kits                      | SPEAG                              | D5GHzV2     | 1165       | 2019-12-20 | 2022-12-19 |
| <input checked="" type="checkbox"/> | Agilent Network Analyzer             | Agilent                            | E5071C      | MY46523590 | 2019-04-12 | 2020-04-11 |
| <input checked="" type="checkbox"/> | Dielectric Probe Kit                 | Agilent                            | 85070E      | US01440210 | NCR        | NCR        |
| <input checked="" type="checkbox"/> | Universal Radio Communication Tester | R&S                                | CMW500      | 103990     | 2019-04-09 | 2020-04-08 |
| <input checked="" type="checkbox"/> | Radio Communication Analyzer         | Anritsu                            | MT8821C     | 6201502984 | 2019-06-25 | 2020-06-24 |
| <input checked="" type="checkbox"/> | RF Bi-Directional Coupler            | Agilent                            | 86205-60001 | MY31400031 | NCR        | NCR        |
| <input checked="" type="checkbox"/> | Signal Generator                     | Agilent                            | N5171B      | MY53050736 | 2019-04-12 | 2020-04-11 |
| <input checked="" type="checkbox"/> | Preamplifier                         | Mini-Circuits                      | ZHL-42W     | 15542      | NCR        | NCR        |
| <input checked="" type="checkbox"/> | Preamplifier                         | Compliance Directions Systems Inc. | AMP28-3W    | 073501433  | NCR        | NCR        |
| <input checked="" type="checkbox"/> | Power Meter                          | Agilent                            | E4416A      | GB41292095 | 2019-04-12 | 2020-04-11 |
| <input checked="" type="checkbox"/> | Power Sensor                         | Agilent                            | 8481H       | MY41091234 | 2019-04-12 | 2020-04-11 |
| <input checked="" type="checkbox"/> | Power Sensor                         | R&S                                | NRP-Z92     | 100025     | 2019-04-12 | 2020-04-11 |
| <input checked="" type="checkbox"/> | Attenuator                           | SHX                                | TS2-3dB     | 30704      | NCR        | NCR        |
| <input checked="" type="checkbox"/> | Coaxial low pass filter              | Mini-Circuits                      | VLF-2500(+) | NA         | NCR        | NCR        |
| <input checked="" type="checkbox"/> | Coaxial low pass filter              | Microlab Fxr                       | LA-F13      | NA         | NCR        | NCR        |
| <input checked="" type="checkbox"/> | DC POWER SUPPLY                      | SAKO                               | SK1730SL5A  | NA         | NCR        | NCR        |
| <input checked="" type="checkbox"/> | Speed reading thermometer            | MingGao                            | T809        | NA         | 2019-04-15 | 2020-04-14 |
| <input checked="" type="checkbox"/> | Humidity and Temperature Indicator   | KIMTOKA                            | KIMTOKA     | NA         | 2019-04-15 | 2020-04-14 |

Note: All the equipments are within the valid period when the tests are performed.

## 10 Calibration certificate

Please see the Appendix C

## 11 Photographs

Please see the Appendix D

## Appendix A: Detailed System Check Results

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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## Appendix B: Detailed Test Results

## Appendix C: Calibration certificate

## Appendix D: Photographs

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