

**LG Electronics Model : LM-V600TM**

# **PART 0 SAR CHAR REPORT**

**Rev. G**

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**FCC ID : ZNFV600TM**

**Report Type:** Part 0 SAR Characterization

**DUT Type:** Portable Handset

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## 1. INTRODUCTION

Qualcomm Smart Transmit cannot operate without SAR at the device level, beforehand. The parameters obtained from SAR (referred to as SAR char) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) to enable the Smart Transmit feature.

## 2. DEVICE UNDER TEST

### 2.1. Device Overview

| Band & Mode          | Operating Modes | Tx Frequency        |
|----------------------|-----------------|---------------------|
| Cell. BC10 CDMA/EVDO | Voice/Data      | 817 - 824MHz        |
| Cell. BC0 CDMA/EVDO  | Voice/Data      | 824 - 849 MHz       |
| PCS CDMA/EVDO        | Voice/Data      | 1850 - 1910 MHz     |
| GSM/GPRS/EDGE 850    | Voice/Data      | 824.2 - 848.8 MHz   |
| GSM/GPRS/EDGE 1900   | Voice/Data      | 1850.2 - 1909.8 MHz |
| UMTS 850             | Voice/Data      | 827 - 846.6 MHz     |
| UMTS 1900            | Voice/Data      | 1854.2 - 1906.6 MHz |
| UMTS 1700            | Voice/Data      | 1712 - 1753 MHz     |
| LTE Band 2 (PCS)     | Voice/Data      | 1850.7 - 1909.3 MHz |
| LTE Band 4 (AWS)     | Voice/Data      | 1710.7 - 1754.3 MHz |
| LTE Band 5 (Cell)    | Voice/Data      | 824.7 - 848.3 MHz   |
| LTE Band 7           | Voice/Data      | 2502.5 - 2567.5 MHz |
| LTE Band 12          | Voice/Data      | 699.7 - 715.3 MHz   |
| LTE Band 13          | Voice/Data      | 779.5 - 784.5 MHz   |
| LTE Band 17          | Voice/Data      | 706.5 – 713.5 MHz   |
| LTE Band 25          | Voice/Data      | 1850.7 – 1914.3 MHz |
| LTE Band 26 (Cell)   | Voice/Data      | 814.7 - 848.3 MHz   |
| LTE Band 30          | Voice/Data      | 2305 - 2315 MHz     |
| LTE Band 41          | Voice/Data      | 2498.5 - 2687.5 MHz |
| LTE Band 66 (AWS)    | Voice/Data      | 1710.7 - 1779.3 MHz |
| LTE Band 71          | Voice/Data      | 665.5 – 695.5 MHz   |
| LTE Band 48          | Voice/Data      | 3552.5 - 3697.5 MHz |
| NR n2                | Data            | 1852.5 – 1907.5 MHz |
| NR n25               | Data            | 1852.5 – 1912.5 MHz |
| NR n66               | Data            | 1712.5 – 1777.5 MHz |
| NR n71               | Data            | 665.5 695.5 MHz     |
| NR n41 (PC3)         | Data            | 2506 – 2680 MHz     |
| NR n41 (PC2)         | Data            | 2506 – 2680 MHz     |
| 2.4 GHz WLAN         | Voice/Data      | 2412 - 2462 MHz     |
| U-NII-1              | Voice/Data      | 5180 - 5240 MHz     |
| U-NII-2A             | Voice/Data      | 5260 - 5320 MHz     |
| U-NII-2C             | Voice/Data      | 5500 - 5720 MHz     |
| U-NII-3              | Voice/Data      | 5745 - 5825 MHz     |
| Bluetooth            | Data            | 2402 - 2480 MHz     |
| NFC                  | Data            | 13.56 MHz           |

This device uses the Qualcomm® Smart Transmit feature to control and manage transmitting power in real time and to ensure the time-averaged RF exposure is in compliance with the FCC requirement at all times for 2G/3G/4G/5G WWAN operations. Additionally, this device supports WLAN/BT/NFC technologies but the output power of these modems is not controlled by the Smart Transmit algorithm.

## 2.2 Time-Averaging for SAR

This device is enabled with Qualcomm® Smart Transmit algorithm to control and manage transmitting power in real time and to ensure that the time-averaged RF exposure from 2G/3G/4G/5G NR Sub6 WWAN is in compliance with FCC requirements. This Part 0 report shows SAR characterization of WWAN radios for 2G/3G/4G/5G NR Sub6. Characterization is achieved by determining PLimit for 2G/3G/4G/5G NR Sub6 that correspond to the exposure design targets after accounting for all device design related uncertainties, i.e., SAR\_design\_target (< FCC SAR limit) for sub-6 radio. The SAR characterization is denoted as SAR Char in this report. Section 3.3 includes a nomenclature of the specific terms used in this report. The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part 1 report. The validation of the time-averaging algorithm and compliance under the dynamic (time- varying) transmission scenario for WWAN technologies are reported in Part 2 report

## 2.3 Nomenclature for Part 0 Report

| Technology              | Term                 | Description                                                                                                                                 |
|-------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 2G/3G/4G/<br>5G NR Sub6 | Plimit               | Power level that corresponds to the exposure design target (SAR_design_target) after accounting for all device design related uncertainties |
|                         | Pmax                 | Maximum tune up output power                                                                                                                |
|                         | SAR_design_target    | Target SAR level < FCC SAR limit after accounting for all device design related uncertainties                                               |
|                         | SAR Char             | Table containing Plimit for all technologies and bands                                                                                      |
|                         | Reserve_power_margin | The margin, in dB, below the Plimit to reserve for future transmission with a minimum transmit power                                        |

## 3 SAR CHARACTERIZATION

### 3.1 DSI and SAR Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smartphone, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

When 1g SAR and 10g SAR exposure comparison is needed, the worst-case was determined from SAR normalized to 1g or 10g SAR limit. The device state index (DSI) conditions used in Table 3-1 represent different exposure scenarios.

**Table 3-1 DSI and Corresponding Exposure Scenarios**

| Scenario                        | Description                                                                                                                                            | SAR Test Cases                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Hotspot mode (DSI = 5)          | <ul style="list-style-type: none"> <li>■ Device transmits in hotspot mode near body</li> <li>■ Hotspot Mode Active</li> </ul>                          | Hotspot SAR per KDB Publication 941225 D06                              |
| Proximity sensor active (DSI=8) | <ul style="list-style-type: none"> <li>■ Device transmits near body and proximity sensor is triggered</li> <li>■ Proximity sensor triggered</li> </ul> | Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04 |

### 3.2 SAR Design Target

*SAR\_design\_target* is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer (see Table 3-2). The *reserve\_power\_margin* is 3dB.

**Table 3-2 SAR\_design\_target Calculations**

| SAR_design_target                                                                 |           |                      |           |
|-----------------------------------------------------------------------------------|-----------|----------------------|-----------|
| $SAR\_design\_target < SAR\_regulatory\_limit \times 10^{-Total\ Uncertainty/10}$ |           |                      |           |
| 1g SAR (W/kg)                                                                     |           | 10g SAR (W/kg)       |           |
| Total Uncertainty                                                                 | 0.5 dB    | Total Uncertainty    | 0.5 dB    |
| SAR_regulatory_limit                                                              | 1.6 W/kg  | SAR_regulatory_limit | 4.0 W/kg  |
| SAR_design_target                                                                 | 1.13 W/kg | SAR_design_target    | 2.83 W/kg |

### 3.3 SAR Char

SAR test results corresponding to  $P_{max}$  for each antenna/technology/band/DSI can be found in Appendix A.  $P_{limit}$  is calculated by linearly scaling with the measured SAR at the  $P_{max}$  to correspond to the  $SAR_{design\_target}$ .  $P_{limit}$  determination for each exposure scenario corresponding to  $SAR_{design\_target}$  are shown in Table 3-3.

**Table 3-3  $P_{Limit}$  Determination**

| Device State Index (DSI) | $P_{Limit}$ Determination Scenarios                                                                                                                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                        | The worst-case SAR exposure is determined as maximum SAR normalized to the limit among:<br>1. 1g Head SAR and<br>2. Body Worn SAR and<br>3. Extremity SAR measured at 2, 1 and 3 mm spacing for back, front, bottom respectively<br>4. Extremity SAR measured at 0mm for left and right surfaces |
| 5                        | $P_{limit}$ is calculated based on 1g Hotspot SAR at 10 mm                                                                                                                                                                                                                                       |
| 8                        | $P_{limit}$ is calculated based on 10g Extremity SAR at 0 mm for back, bottom, and front surfaces                                                                                                                                                                                                |

**Note:**

For DSI = 1,  $P_{limit}$  is calculated by:

$$P_{limit} = \min\{P_{limit} \text{ corresponding to 1g Head SAR at 0 mm spacing,}$$

$$P_{limit} \text{ corresponding to 1g Body Worn SAR evaluation at 10 mm spacing,}$$

$$P_{limit} \text{ corresponding to 10g Extremity SAR evaluation at 1~3 mm spacing,}$$

$$P_{limit} \text{ corresponding to 10g Extremity SAR evaluation at 0 mm for left and right surfaces}\}$$

**Table 3-4 SAR Characterizations**

| Mode/Band       | DSI=1                      | DSI=5        | DSI=8                   | Pmax* |
|-----------------|----------------------------|--------------|-------------------------|-------|
|                 | proximity sensor de-active | Hotspot mode | proximity sensor active |       |
|                 | PLimit                     | PLimit       | PLimit                  |       |
|                 | (dBm)                      | (dBm)        | (dBm)                   |       |
| CDMA BC10       | 29.3                       | 29.3         | 29.3                    | 25    |
| CDMA BC0        | 28.8                       | 28.8         | 28.8                    | 25    |
| CDMA BC1        | 26.3                       | 22.2         | 22.2                    | 24.7  |
| GSM850**        | 29.2                       | 29.2         | 29.2                    | 25.5  |
| GSM1900**       | 24.8                       | 24.8         | 24.8                    | 22.5  |
| WCDMA B5        | 27.8                       | 27.8         | 27.8                    | 25.0  |
| WCDMA B2        | 26.7                       | 22.2         | 22.2                    | 24.7  |
| WCDMA B4        | 26.5                       | 22.2         | 22.2                    | 24.7  |
| LTE B12(17)     | 30.0                       | 30.0         | 30.0                    | 25.0  |
| LTE B13         | 29.9                       | 29.9         | 29.9                    | 25.0  |
| LTE B5(26)      | 29.4                       | 29.4         | 29.4                    | 25.0  |
| LTE B71         | 29.7                       | 29.7         | 29.7                    | 25.0  |
| LTE B2(25)      | 26.6                       | 22.2         | 22.2                    | 24.7  |
| LTE B66(4)      | 26.1                       | 22.2         | 22.2                    | 24.7  |
| LTE B7          | 27.6                       | 21.2         | 21.2                    | 23.2  |
| LTE B30         | 25.0                       | 25.0         | 25.0                    | 22.2  |
| LTE B41 (PC3)** | 23.8                       | 23.8         | 23.8                    | 22.7  |
| LTE B41 (PC2)** | 23.8                       | 23.8         | 23.8                    | 23.6  |
| LTE B48**       | 21.5                       | 21.5         | 21.5                    | 21.2  |
| NR n71          | 32.8                       | 32.8         | 32.8                    | 25.0  |
| NR n25(2)       | 22.9                       | 22.9         | 22.9                    | 25.0  |
| NR n66          | 22.9                       | 22.9         | 22.9                    | 25.0  |
| NR n41(PC3)     | 23.2                       | 23.2         | 23.2                    | 18.9  |
| NR n41(PC2)     | 23.2                       | 23.2         | 23.2                    | 20.9  |

**Notes:**

1. DSI=1 is corresponding to head SAR, body-worn SAR and extremity SAR at larger separation distances that do not trigger the proximity sensor.
2. When Hotspot Mode (DSI=5) and Extremity sensor (DSI=8) are triggered at the same time, DSI=5 takes priority, thus the  $P_{limit}$  for DSI=5 is set to be less or equal to  $P_{limit}$  for DSI=8.
3. When  $P_{max} < P_{limit}$ , the DUT will operate at a power level up to  $P_{max}$ .

\*Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + device uncertainty.

\*\*All PLimit power levels entered in Table 3-4 correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD).

\*\*\*PLimit in the EFS for LTE B41 need to be configured with the minimum of (PC2) and (PC3) Plimits = 23.8dBm. And Plimit in the EFS for NR n41 need to be configured with the PC2

Plimits = 22.9dBm.

## APPENDIX A: SAR TEST RESULTS FOR $P_{Limit}$ CALCULATIONS

Table A-1 DSI = 1  $P_{Limit}$  Calculations – 2G/3G Head SAR

| Frequency |      | Mode     | Service    | Conducted Power | Test Position | Spacing | Duty Cycle | SAR (1g) | SAR design target | Plimit | Min Plimit |
|-----------|------|----------|------------|-----------------|---------------|---------|------------|----------|-------------------|--------|------------|
| MHz       | Ch.  |          |            | [dBm]           |               |         |            | [W/kg]   |                   | [dBm]  |            |
| 820.1     | 564  | CDMABC10 | RC3        | 25              | Right         | Cheek   | 1:1        | 0.119    | 1.13              | 34.8   | 34.1       |
| 820.1     | 564  | CDMABC10 | RC3        | 25              | Right         | Tilt    | 1:1        | 0.083    | 1.13              | 36.4   |            |
| 820.1     | 564  | CDMABC10 | RC3        | 25              | Left          | Cheek   | 1:1        | 0.140    | 1.13              | 34.1   |            |
| 820.1     | 564  | CDMABC10 | RC3        | 25              | Left          | Tilt    | 1:1        | 0.076    | 1.13              | 36.7   |            |
| 820.1     | 564  | CDMABC10 | EVDO Rev.A | 25              | Right         | Cheek   | 1:1        | 0.064    | 1.13              | 37.5   |            |
| 820.1     | 564  | CDMABC10 | EVDO Rev.A | 25              | Right         | Tilt    | 1:1        | 0.053    | 1.13              | 38.3   |            |
| 820.1     | 564  | CDMABC10 | EVDO Rev.A | 25              | Left          | Cheek   | 1:1        | 0.066    | 1.13              | 37.3   |            |
| 820.1     | 564  | CDMABC10 | EVDO Rev.A | 25              | Left          | Tilt    | 1:1        | 0.056    | 1.13              | 38.0   |            |
| 836.52    | 384  | CDMABC0  | RC3        | 25              | Right         | Cheek   | 1:1        | 0.147    | 1.13              | 33.9   | 33.9       |
| 836.52    | 384  | CDMABC0  | RC3        | 25              | Right         | Tilt    | 1:1        | 0.090    | 1.13              | 36.0   |            |
| 836.52    | 384  | CDMABC0  | RC3        | 25              | Left          | Cheek   | 1:1        | 0.145    | 1.13              | 33.9   |            |
| 836.52    | 384  | CDMABC0  | RC3        | 25              | Left          | Tilt    | 1:1        | 0.083    | 1.13              | 36.4   |            |
| 836.52    | 384  | CDMABC0  | EVDO Rev.A | 25              | Right         | Cheek   | 1:1        | 0.071    | 1.13              | 37.0   |            |
| 836.52    | 384  | CDMABC0  | EVDO Rev.A | 25              | Right         | Tilt    | 1:1        | 0.054    | 1.13              | 38.2   |            |
| 836.52    | 384  | CDMABC0  | EVDO Rev.A | 25              | Left          | Cheek   | 1:1        | 0.089    | 1.13              | 36.0   |            |
| 836.52    | 384  | CDMABC0  | EVDO Rev.A | 25              | Left          | Tilt    | 1:1        | 0.049    | 1.13              | 38.6   |            |
| 1880      | 600  | PCS CDMA | RC3        | 24.7            | Right         | Cheek   | 1:1        | 0.054    | 1.13              | 37.9   | 35.7       |
| 1880      | 600  | PCS CDMA | RC3        | 24.7            | Right         | Tilt    | 1:1        | 0.053    | 1.13              | 38.0   |            |
| 1880      | 600  | PCS CDMA | RC3        | 24.7            | Left          | Cheek   | 1:1        | 0.072    | 1.13              | 36.7   |            |
| 1880      | 600  | PCS CDMA | RC3        | 24.7            | Left          | Tilt    | 1:1        | 0.047    | 1.13              | 38.5   |            |
| 1880      | 600  | PCS CDMA | EVDO Rev.A | 24.7            | Right         | Cheek   | 1:1        | 0.053    | 1.13              | 38.0   |            |
| 1880      | 600  | PCS CDMA | EVDO Rev.A | 24.7            | Right         | Tilt    | 1:1        | 0.045    | 1.13              | 38.7   |            |
| 1880      | 600  | PCS CDMA | EVDO Rev.A | 24.7            | Left          | Cheek   | 1:1        | 0.090    | 1.13              | 35.7   |            |
| 1880      | 600  | PCS CDMA | EVDO Rev.A | 24.7            | Left          | Tilt    | 1:1        | 0.038    | 1.13              | 39.5   |            |
| 836.6     | 190  | GSM850   | GSM        | 32.9            | Right         | Cheek   | 1:8.3      | 0.086    | 1.13              | 34.9   | 34.7       |
| 836.6     | 190  | GSM850   | GSM        | 32.9            | Right         | Tilt    | 1:8.3      | 0.045    | 1.13              | 37.7   |            |
| 836.6     | 190  | GSM850   | GSM        | 32.9            | Left          | Cheek   | 1:8.3      | 0.091    | 1.13              | 34.7   |            |
| 836.6     | 190  | GSM850   | GSM        | 32.9            | Left          | Tilt    | 1:8.3      | 0.052    | 1.13              | 37.1   |            |
| 836.6     | 190  | GSM850   | GPRS       | 28.7            | Right         | Cheek   | 1:2.076    | 0.116    | 1.13              | 35.4   |            |
| 836.6     | 190  | GSM850   | GPRS       | 28.7            | Right         | Tilt    | 1:2.076    | 0.071    | 1.13              | 37.5   |            |
| 836.6     | 190  | GSM850   | GPRS       | 28.7            | Left          | Cheek   | 1:2.076    | 0.127    | 1.13              | 35.0   |            |
| 836.6     | 190  | GSM850   | GPRS       | 28.7            | Left          | Tilt    | 1:2.076    | 0.067    | 1.13              | 37.8   |            |
| 1880      | 661  | GSM1900  | GSM        | 29.7            | Right         | Cheek   | 1:8.3      | 0.027    | 1.13              | 36.8   | 35.5       |
| 1880      | 661  | GSM1900  | GSM        | 29.7            | Right         | Tilt    | 1:8.3      | 0.018    | 1.13              | 38.5   |            |
| 1880      | 661  | GSM1900  | GSM        | 29.7            | Left          | Cheek   | 1:8.3      | 0.036    | 1.13              | 35.5   |            |
| 1880      | 661  | GSM1900  | GSM        | 29.7            | Left          | Tilt    | 1:8.3      | 0.022    | 1.13              | 37.6   |            |
| 1880      | 661  | GSM1900  | GPRS       | 26.7            | Right         | Cheek   | 1:2.76     | 0.020    | 1.13              | 39.7   |            |
| 1880      | 661  | GSM1900  | GPRS       | 26.7            | Right         | Tilt    | 1:2.76     | 0.020    | 1.13              | 39.9   |            |
| 1880      | 661  | GSM1900  | GPRS       | 26.7            | Left          | Cheek   | 1:2.76     | 0.053    | 1.13              | 35.5   |            |
| 1880      | 661  | GSM1900  | GPRS       | 26.7            | Left          | Tilt    | 1:2.76     | 0.035    | 1.13              | 37.4   |            |
| 836.6     | 4183 | UMTS850  | WCDMA      | 25              | Right         | Cheek   | 1:1        | 0.134    | 1.13              | 34.3   | 34.0       |
| 836.6     | 4183 | UMTS850  | WCDMA      | 25              | Right         | Tilt    | 1:1        | 0.089    | 1.13              | 36.0   |            |
| 836.6     | 4183 | UMTS850  | WCDMA      | 25              | Left          | Cheek   | 1:1        | 0.143    | 1.13              | 34.0   |            |
| 836.6     | 4183 | UMTS850  | WCDMA      | 25              | Left          | Tilt    | 1:1        | 0.080    | 1.13              | 36.5   |            |
| 1880      | 9400 | UMTS1900 | WCDMA      | 24.7            | Right         | Cheek   | 1:1        | 0.065    | 1.13              | 37.1   | 34.9       |
| 1880      | 9400 | UMTS1900 | WCDMA      | 24.7            | Right         | Tilt    | 1:1        | 0.062    | 1.13              | 37.3   |            |
| 1880      | 9400 | UMTS1900 | WCDMA      | 24.7            | Left          | Cheek   | 1:1        | 0.107    | 1.13              | 34.9   |            |
| 1880      | 9400 | UMTS1900 | WCDMA      | 24.7            | Left          | Tilt    | 1:1        | 0.085    | 1.13              | 36.0   |            |
| 1732.4    | 1412 | UMTS1750 | WCDMA      | 24.7            | Right         | Cheek   | 1:1        | 0.055    | 1.13              | 37.8   | 36.7       |
| 1732.4    | 1412 | UMTS1750 | WCDMA      | 24.7            | Right         | Tilt    | 1:1        | 0.045    | 1.13              | 38.7   |            |
| 1732.4    | 1412 | UMTS1750 | WCDMA      | 24.7            | Left          | Cheek   | 1:1        | 0.071    | 1.13              | 36.7   |            |
| 1732.4    | 1412 | UMTS1750 | WCDMA      | 24.7            | Left          | Tilt    | 1:1        | 0.033    | 1.13              | 40.1   |            |

**Table A-2 DSI = 1  $P_{Limit}$  Calculations – LTE B12/13/26/5/71 Head SAR**

| Frequency |        | Mode       | Bandwidth | Conducted Power | Modulation | RB Size | RB offset | Test Position | Spacing | Duty Cycle | SAR (1g) | SAR design target | Plimit | Min Plimit |
|-----------|--------|------------|-----------|-----------------|------------|---------|-----------|---------------|---------|------------|----------|-------------------|--------|------------|
| MHz       | Ch.    |            | [MHz]     | [dBm]           |            |         |           |               |         |            | [W/kg]   | [W/kg]            | [dBm]  | [dBm]      |
| 707.5     | 23095  | LTE Band12 | 10        | 25              | QPSK       | 1       | 49        | Right         | Cheek   | 1:1        | 0.080    | 1.13              | 36.5   | 35.5       |
| 707.5     | 23095  | LTE Band12 | 10        | 24              | QPSK       | 25      | 12        | Right         | Cheek   | 1:1        | 0.062    | 1.13              | 36.6   |            |
| 707.5     | 23095  | LTE Band12 | 10        | 25              | QPSK       | 1       | 49        | Right         | Tilt    | 1:1        | 0.047    | 1.13              | 38.8   |            |
| 707.5     | 23095  | LTE Band12 | 10        | 24              | QPSK       | 25      | 12        | Right         | Tilt    | 1:1        | 0.037    | 1.13              | 38.9   |            |
| 707.5     | 23095  | LTE Band12 | 10        | 25              | QPSK       | 1       | 49        | Left          | Cheek   | 1:1        | 0.098    | 1.13              | 35.6   |            |
| 707.5     | 23095  | LTE Band12 | 10        | 24              | QPSK       | 25      | 12        | Left          | Cheek   | 1:1        | 0.080    | 1.13              | 35.5   |            |
| 707.5     | 23095  | LTE Band12 | 10        | 25              | QPSK       | 1       | 49        | Left          | Tilt    | 1:1        | 0.053    | 1.13              | 38.3   |            |
| 707.5     | 23095  | LTE Band12 | 10        | 24              | QPSK       | 25      | 12        | Left          | Tilt    | 1:1        | 0.024    | 1.13              | 40.7   |            |
| 782       | 23230  | LTE Band13 | 10        | 25              | QPSK       | 1       | 0         | Right         | Cheek   | 1:1        | 0.071    | 1.13              | 37.0   | 36.1       |
| 782       | 23230  | LTE Band13 | 10        | 24              | QPSK       | 25      | 25        | Right         | Cheek   | 1:1        | 0.065    | 1.13              | 36.4   |            |
| 782       | 23230  | LTE Band13 | 10        | 25              | QPSK       | 1       | 0         | Right         | Tilt    | 1:1        | 0.053    | 1.13              | 38.3   |            |
| 782       | 23230  | LTE Band13 | 10        | 24              | QPSK       | 25      | 25        | Right         | Tilt    | 1:1        | 0.040    | 1.13              | 38.5   |            |
| 782       | 23230  | LTE Band13 | 10        | 25              | QPSK       | 1       | 0         | Left          | Cheek   | 1:1        | 0.087    | 1.13              | 36.1   |            |
| 782       | 23230  | LTE Band13 | 10        | 24              | QPSK       | 25      | 25        | Left          | Cheek   | 1:1        | 0.070    | 1.13              | 36.1   |            |
| 782       | 23230  | LTE Band13 | 10        | 25              | QPSK       | 1       | 0         | Left          | Tilt    | 1:1        | 0.043    | 1.13              | 39.2   |            |
| 782       | 23230  | LTE Band13 | 10        | 24              | QPSK       | 25      | 25        | Left          | Tilt    | 1:1        | 0.033    | 1.13              | 39.4   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 25              | QPSK       | 1       | 0         | Right         | Cheek   | 1:1        | 0.094    | 1.13              | 35.8   | 35.8       |
| 836.5     | 20525  | LTE Band5  | 10        | 24              | QPSK       | 25      | 0         | Right         | Cheek   | 1:1        | 0.061    | 1.13              | 36.6   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 25              | QPSK       | 1       | 0         | Right         | Tilt    | 1:1        | 0.062    | 1.13              | 37.6   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 24              | QPSK       | 25      | 0         | Right         | Tilt    | 1:1        | 0.044    | 1.13              | 38.1   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 25              | QPSK       | 1       | 0         | Left          | Cheek   | 1:1        | 0.081    | 1.13              | 36.4   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 24              | QPSK       | 25      | 0         | Left          | Cheek   | 1:1        | 0.058    | 1.13              | 36.9   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 25              | QPSK       | 1       | 0         | Left          | Tilt    | 1:1        | 0.044    | 1.13              | 39.1   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 24              | QPSK       | 25      | 0         | Left          | Tilt    | 1:1        | 0.038    | 1.13              | 38.8   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 25              | QPSK       | 1       | 99        | Right         | Cheek   | 1:1        | 0.123    | 1.13              | 34.6   | 34.6       |
| 680.5     | 133297 | LTE Band71 | 20        | 24              | QPSK       | 50      | 25        | Right         | Cheek   | 1:1        | 0.094    | 1.13              | 34.8   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 25              | QPSK       | 1       | 99        | Right         | Tilt    | 1:1        | 0.052    | 1.13              | 38.4   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 24              | QPSK       | 50      | 25        | Right         | Tilt    | 1:1        | 0.041    | 1.13              | 38.4   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 25              | QPSK       | 1       | 99        | Left          | Cheek   | 1:1        | 0.108    | 1.13              | 35.2   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 24              | QPSK       | 50      | 25        | Left          | Cheek   | 1:1        | 0.074    | 1.13              | 35.8   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 25              | QPSK       | 1       | 99        | Left          | Tilt    | 1:1        | 0.037    | 1.13              | 39.9   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 24              | QPSK       | 50      | 25        | Left          | Tilt    | 1:1        | 0.024    | 1.13              | 40.7   |            |

**Table A-3 DSI = 1  $P_{Limit}$  Calculations – LTE B66/25/2/7/30/41/48 Head SAR**

| Frequency |        | Mode            | Bandwidth | Conducted Power | Modulation | RB Size | RB offset | Test Position | Spacing | Duty Cycle | SAR (1g) | SAR design target | Plimit | Min Plimit |
|-----------|--------|-----------------|-----------|-----------------|------------|---------|-----------|---------------|---------|------------|----------|-------------------|--------|------------|
| MHz       | Ch.    |                 | [MHz]     | [dBm]           |            |         |           |               |         |            | [W/kg]   | [W/kg]            | [dBm]  | [dBm]      |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 0         | Right         | Cheek   | 1:1        | 0.087    | 1.13              | 35.8   | 35.2       |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | Right         | Cheek   | 1:1        | 0.046    | 1.13              | 37.6   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 0         | Right         | Tilt    | 1:1        | 0.047    | 1.13              | 38.5   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | Right         | Tilt    | 1:1        | 0.037    | 1.13              | 38.6   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 0         | Left          | Cheek   | 1:1        | 0.100    | 1.13              | 35.2   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | Left          | Cheek   | 1:1        | 0.075    | 1.13              | 35.5   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 0         | Left          | Tilt    | 1:1        | 0.064    | 1.13              | 37.2   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | Left          | Tilt    | 1:1        | 0.042    | 1.13              | 38.0   | 35.8       |
| 1745      | 132322 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 50        | Right         | Cheek   | 1:1        | 0.063    | 1.13              | 37.2   |            |
| 1745      | 132322 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 50        | Right         | Cheek   | 1:1        | 0.051    | 1.13              | 37.2   |            |
| 1745      | 132322 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 50        | Right         | Tilt    | 1:1        | 0.058    | 1.13              | 37.6   |            |
| 1745      | 132322 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 50        | Right         | Tilt    | 1:1        | 0.038    | 1.13              | 38.4   |            |
| 1745      | 132322 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 50        | Left          | Cheek   | 1:1        | 0.086    | 1.13              | 35.9   |            |
| 1745      | 132322 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 50        | Left          | Cheek   | 1:1        | 0.070    | 1.13              | 35.8   |            |
| 1745      | 132322 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 50        | Left          | Tilt    | 1:1        | 0.027    | 1.13              | 41.0   |            |
| 1745      | 132322 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 50        | Left          | Tilt    | 1:1        | 0.020    | 1.13              | 41.3   | 39.1       |
| 2535      | 21100  | LTE Band7       | 20        | 23.2            | QPSK       | 1       | 99        | Right         | Cheek   | 1:1        | 0.018    | 1.13              | 41.2   |            |
| 2535      | 21100  | LTE Band7       | 20        | 22.2            | QPSK       | 50      | 50        | Right         | Cheek   | 1:1        | 0.015    | 1.13              | 40.9   |            |
| 2535      | 21100  | LTE Band7       | 20        | 23.2            | QPSK       | 1       | 99        | Right         | Tilt    | 1:1        | 0.012    | 1.13              | 43.1   |            |
| 2535      | 21100  | LTE Band7       | 20        | 22.2            | QPSK       | 50      | 50        | Right         | Tilt    | 1:1        | 0.009    | 1.13              | 43.2   |            |
| 2535      | 21100  | LTE Band7       | 20        | 23.2            | QPSK       | 1       | 99        | Left          | Cheek   | 1:1        | 0.029    | 1.13              | 39.1   |            |
| 2535      | 21100  | LTE Band7       | 20        | 22.2            | QPSK       | 50      | 50        | Left          | Cheek   | 1:1        | 0.020    | 1.13              | 39.6   |            |
| 2535      | 21100  | LTE Band7       | 20        | 23.2            | QPSK       | 1       | 99        | Left          | Tilt    | 1:1        | 0.006    | 1.13              | 45.8   | 38.3       |
| 2535      | 21100  | LTE Band7       | 20        | 22.2            | QPSK       | 50      | 50        | Left          | Tilt    | 1:1        | 0.004    | 1.13              | 46.2   |            |
| 2310      | 27710  | LTE Band30      | 10        | 22.2            | QPSK       | 1       | 25        | Right         | Cheek   | 1:1        | 0.014    | 1.13              | 41.2   |            |
| 2310      | 27710  | LTE Band30      | 10        | 21.2            | QPSK       | 25      | 12        | Right         | Cheek   | 1:1        | 0.013    | 1.13              | 40.5   |            |
| 2310      | 27710  | LTE Band30      | 10        | 22.2            | QPSK       | 1       | 25        | Right         | Tilt    | 1:1        | 0.009    | 1.13              | 43.2   |            |
| 2310      | 27710  | LTE Band30      | 10        | 21.2            | QPSK       | 25      | 12        | Right         | Tilt    | 1:1        | 0.007    | 1.13              | 43.2   |            |
| 2310      | 27710  | LTE Band30      | 10        | 22.2            | QPSK       | 1       | 25        | Left          | Cheek   | 1:1        | 0.028    | 1.13              | 38.3   |            |
| 2310      | 27710  | LTE Band30      | 10        | 21.2            | QPSK       | 25      | 12        | Left          | Cheek   | 1:1        | 0.022    | 1.13              | 38.3   | 35.4       |
| 2310      | 27710  | LTE Band30      | 10        | 22.2            | QPSK       | 1       | 25        | Left          | Tilt    | 1:1        | 0.012    | 1.13              | 42.1   |            |
| 2310      | 27710  | LTE Band30      | 10        | 21.2            | QPSK       | 25      | 12        | Left          | Tilt    | 1:1        | 0.008    | 1.13              | 42.7   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 24.7            | QPSK       | 1       | 0         | Right         | Cheek   | 1:1.58     | 0.061    | 1.13              | 35.4   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 23.7            | QPSK       | 50      | 25        | Right         | Cheek   | 1:1.58     | 0.041    | 1.13              | 36.1   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 24.7            | QPSK       | 1       | 0         | Right         | Tilt    | 1:1.58     | 0.031    | 1.13              | 38.3   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 23.7            | QPSK       | 50      | 25        | Right         | Tilt    | 1:1.58     | 0.022    | 1.13              | 38.8   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 24.7            | QPSK       | 1       | 0         | Left          | Cheek   | 1:1.58     | 0.057    | 1.13              | 35.7   | 35.3       |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 23.7            | QPSK       | 50      | 25        | Left          | Cheek   | 1:1.58     | 0.045    | 1.13              | 35.8   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 24.7            | QPSK       | 1       | 0         | Left          | Tilt    | 1:1.58     | 0.025    | 1.13              | 39.3   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 23.7            | QPSK       | 50      | 25        | Left          | Tilt    | 1:1.58     | 0.020    | 1.13              | 39.3   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 0         | Right         | Cheek   | 1:2.31     | 0.076    | 1.13              | 35.3   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 26.2            | QPSK       | 50      | 25        | Right         | Cheek   | 1:2.31     | 0.051    | 1.13              | 36.0   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 0         | Right         | Tilt    | 1:2.31     | 0.035    | 1.13              | 38.7   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 26.2            | QPSK       | 50      | 25        | Right         | Tilt    | 1:2.31     | 0.026    | 1.13              | 39.0   | 31.0       |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 0         | Left          | Cheek   | 1:2.31     | 0.061    | 1.13              | 36.3   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 26.2            | QPSK       | 50      | 25        | Left          | Cheek   | 1:2.31     | 0.051    | 1.13              | 36.0   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 0         | Left          | Tilt    | 1:2.31     | 0.029    | 1.13              | 39.6   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 26.2            | QPSK       | 50      | 25        | Left          | Tilt    | 1:2.31     | 0.023    | 1.13              | 39.5   |            |
| 3646.7    | 56207  | LTE Band48      | 20        | 23.2            | QPSK       | 1       | 50        | Right         | Cheek   | 1:1.58     | 0.118    | 1.13              | 31.0   |            |
| 3646.7    | 56207  | LTE Band48      | 20        | 22.2            | QPSK       | 50      | 25        | Right         | Cheek   | 1:1.58     | 0.071    | 1.13              | 32.2   |            |
| 3646.7    | 56207  | LTE Band48      | 20        | 23.2            | QPSK       | 1       | 50        | Right         | Tilt    | 1:1.58     | 0.011    | 1.13              | 41.5   | 31.0       |
| 3646.7    | 56207  | LTE Band48      | 20        | 22.2            | QPSK       | 50      | 25        | Right         | Tilt    | 1:1.58     | 0.006    | 1.13              | 42.8   |            |
| 3646.7    | 56207  | LTE Band48      | 20        | 23.2            | QPSK       | 1       | 50        | Left          | Cheek   | 1:1.58     | 0.029    | 1.13              | 37.2   |            |
| 3646.7    | 56207  | LTE Band48      | 20        | 22.2            | QPSK       | 50      | 25        | Left          | Cheek   | 1:1.58     | 0.020    | 1.13              | 37.8   |            |
| 3646.7    | 56207  | LTE Band48      | 20        | 23.2            | QPSK       | 1       | 50        | Left          | Tilt    | 1:1.58     | 0.028    | 1.13              | 37.3   |            |
| 3646.7    | 56207  | LTE Band48      | 20        | 22.2            | QPSK       | 50      | 25        | Left          | Tilt    | 1:1.58     | 0.019    | 1.13              | 38.0   |            |

**Table A-4 DSI = 1  $P_{Limit}$  Calculations – 5G NR n71/n25/n66/n41 Head SAR**

| Frequency |        | Mode             | Bandwidth | Conducted Power | Modulation      | RB Size | RB offset | Test Position | Spacing | Duty Cycle | SAR (1g) | SAR design target | Plimit | Min Plimit |
|-----------|--------|------------------|-----------|-----------------|-----------------|---------|-----------|---------------|---------|------------|----------|-------------------|--------|------------|
| MHz       | Ch.    |                  | [MHz]     | [dBm]           |                 |         |           |               |         |            | [W/kg]   | [W/kg]            | [dBm]  | [dBm]      |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 1         | Right         | Cheek   | 1:1        | 0.025    | 1.13              | 41.6   | 41.6       |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | Right         | Cheek   | 1:1        | 0.018    | 1.13              | 43.0   |            |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 1         | Right         | Tilt    | 1:1        | 0.012    | 1.13              | 44.9   |            |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | Right         | Tilt    | 1:1        | 0.008    | 1.13              | 46.5   |            |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 1         | Left          | Cheek   | 1:1        | 0.020    | 1.13              | 42.6   |            |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | Left          | Cheek   | 1:1        | 0.016    | 1.13              | 43.5   |            |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 1         | Left          | Tilt    | 1:1        | 0.009    | 1.13              | 46.0   |            |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | Left          | Tilt    | 1:1        | 0.007    | 1.13              | 47.0   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 23.5            | DFT-s-OFDM-QPSK | 1       | 104       | Right         | Cheek   | 1:1        | 0.287    | 1.13              | 29.5   | 29.0       |
| 1905      | 381000 | NR Band n25(2)   | 20        | 23.5            | CP-OFDM-QPSK    | 1       | 1         | Right         | Cheek   | 1:1        | 0.321    | 1.13              | 29.0   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 23.5            | DFT-s-OFDM-QPSK | 1       | 104       | Right         | Tilt    | 1:1        | 0.100    | 1.13              | 34.0   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 23.5            | CP-OFDM-QPSK    | 1       | 1         | Right         | Tilt    | 1:1        | 0.116    | 1.13              | 33.4   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 23.5            | DFT-s-OFDM-QPSK | 1       | 104       | Left          | Cheek   | 1:1        | 0.139    | 1.13              | 32.6   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 23.5            | CP-OFDM-QPSK    | 1       | 1         | Left          | Cheek   | 1:1        | 0.160    | 1.13              | 32.0   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 23.5            | DFT-s-OFDM-QPSK | 1       | 104       | Left          | Tilt    | 1:1        | 0.078    | 1.13              | 35.1   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 23.5            | CP-OFDM-QPSK    | 1       | 1         | Left          | Tilt    | 1:1        | 0.089    | 1.13              | 34.5   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | Right         | Cheek   | 1:1        | 0.237    | 1.13              | 31.8   | 31.8       |
| 1770      | 354000 | NR Band n66      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | Right         | Cheek   | 1:1        | 0.207    | 1.13              | 32.4   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | Right         | Tilt    | 1:1        | 0.065    | 1.13              | 37.4   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | Right         | Tilt    | 1:1        | 0.055    | 1.13              | 38.2   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | Left          | Cheek   | 1:1        | 0.102    | 1.13              | 35.4   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | Left          | Cheek   | 1:1        | 0.086    | 1.13              | 36.2   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | Left          | Tilt    | 1:1        | 0.075    | 1.13              | 36.8   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | Left          | Tilt    | 1:1        | 0.062    | 1.13              | 37.6   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | DFT-s-OFDM-QPSK | 1       | 1         | Right         | Cheek   | 1:4.29     | 0.055    | 1.13              | 34.0   | 34.0       |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | CP-OFDM-QPSK    | 1       | 1         | Right         | Cheek   | 1:4.29     | 0.053    | 1.13              | 34.1   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | DFT-s-OFDM-QPSK | 1       | 1         | Right         | Tilt    | 1:4.29     | 0.009    | 1.13              | 41.9   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | CP-OFDM-QPSK    | 1       | 1         | Right         | Tilt    | 1:4.29     | 0.007    | 1.13              | 42.9   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | DFT-s-OFDM-QPSK | 1       | 1         | Left          | Cheek   | 1:4.29     | 0.015    | 1.13              | 39.6   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | CP-OFDM-QPSK    | 1       | 1         | Left          | Cheek   | 1:4.29     | 0.009    | 1.13              | 41.9   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | DFT-s-OFDM-QPSK | 1       | 1         | Left          | Tilt    | 1:4.29     | 0.014    | 1.13              | 39.9   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | CP-OFDM-QPSK    | 1       | 1         | Left          | Tilt    | 1:4.29     | 0.009    | 1.13              | 41.9   |            |

**Table A-5 DSI = 1  $P_{Limit}$  Calculations – 2G/3G Body-Worn SAR**

| Frequency |      | Mode     | Service | Conducted Power | Test Position | Spacing | Duty Cycle | SAR (1g) | SAR design target | Plimit | Min Plimit |
|-----------|------|----------|---------|-----------------|---------------|---------|------------|----------|-------------------|--------|------------|
| MHz       | Ch.  |          |         | [dBm]           |               |         |            | [W/kg]   | [W/kg]            |        | [dBm]      |
| 820.1     | 564  | CDMABC10 | TDSO    | 25              | back          | 10mm    | 1:1        | 0.425    | 1.13              | 29.3   | 29.3       |
| 824.7     | 1013 | CDMABC0  | TDSO    | 25              | back          | 10mm    | 1:1        | 0.476    | 1.13              | 28.8   | 28.8       |
| 836.52    | 384  | CDMABC0  | TDSO    | 25              | back          | 10mm    | 1:1        | 0.470    | 1.13              | 28.8   |            |
| 848.31    | 777  | CDMABC0  | TDSO    | 25              | back          | 10mm    | 1:1        | 0.465    | 1.13              | 28.9   |            |
| 1851.25   | 25   | CDMABC1  | TDSO    | 24.7            | back          | 10mm    | 1:1        | 0.557    | 1.13              | 27.8   | 27.0       |
| 1880      | 600  | CDMABC1  | TDSO    | 24.7            | back          | 10mm    | 1:1        | 0.628    | 1.13              | 27.3   |            |
| 1908.75   | 1175 | CDMABC1  | TDSO    | 24.7            | back          | 10mm    | 1:1        | 0.660    | 1.13              | 27.0   |            |
| 836.6     | 190  | GSM850   | GSM     | 32.9            | back          | 10mm    | 1:8.3      | 0.278    | 1.13              | 29.8   | 29.8       |
| 836.6     | 190  | GSM850   | GPRS    | 28.7            | back          | 10mm    | 1:2.076    | 0.406    | 1.13              | 30.0   |            |
| 1880      | 661  | GSM1900  | GSM     | 29.7            | back          | 10mm    | 1:8.3      | 0.249    | 1.13              | 27.1   | 27.1       |
| 1880      | 661  | GSM1900  | GPRS    | 26.7            | back          | 10mm    | 1:2.76     | 0.318    | 1.13              | 27.8   |            |
| 826.4     | 4132 | UMTS850  | RMC     | 25              | back          | 10mm    | 1:1        | 0.490    | 1.13              | 28.6   | 28.6       |
| 836       | 4183 | UMTS850  | RMC     | 25              | back          | 10mm    | 1:1        | 0.485    | 1.13              | 28.7   |            |
| 846.6     | 4233 | UMTS850  | RMC     | 25              | back          | 10mm    | 1:1        | 0.470    | 1.13              | 28.8   |            |
| 1880      | 9400 | UMTS1900 | RMC     | 24.7            | back          | 10mm    | 1:1        | 0.716    | 1.13              | 26.7   | 26.7       |
| 1732.4    | 1412 | UMTS1750 | RMC     | 24.7            | back          | 10mm    | 1:1        | 0.587    | 1.13              | 27.5   | 27.5       |

**Table A-6 DSI = 1  $P_{Limit}$  Calculations – 4G Body-Worn SAR**

| Frequency |        | Mode            | Bandwidth | Conducted Power | Modulation | RB Size | RB offset | Test Position | Spacing | Duty Cycle | SAR (1g) | SAR design target | Plimit | Min Plimit |
|-----------|--------|-----------------|-----------|-----------------|------------|---------|-----------|---------------|---------|------------|----------|-------------------|--------|------------|
| MHz       | Ch.    |                 | [MHz]     | [dBm]           |            |         |           |               |         |            | [W/kg]   | [W/kg]            |        | [dBm]      |
| 707.5     | 23095  | LTE Band12      | 10        | 25              | QPSK       | 1       | 49        | back          | 10mm    | 1:1        | 0.214    | 1.13              | 32.2   | 32.1       |
| 707.5     | 23095  | LTE Band12      | 10        | 24              | QPSK       | 25      | 12        | back          | 10mm    | 1:1        | 0.176    | 1.13              | 32.1   |            |
| 782       | 23230  | LTE Band13      | 10        | 25              | QPSK       | 1       | 0         | back          | 10mm    | 1:1        | 0.299    | 1.13              | 30.8   | 30.8       |
| 782       | 23230  | LTE Band13      | 10        | 24              | QPSK       | 25      | 25        | back          | 10mm    | 1:1        | 0.235    | 1.13              | 30.8   |            |
| 836.5     | 20525  | LTE Band5       | 10        | 25              | QPSK       | 1       | 0         | back          | 10mm    | 1:1        | 0.341    | 1.13              | 30.2   | 30.2       |
| 836.5     | 20525  | LTE Band5       | 10        | 24              | QPSK       | 25      | 25        | back          | 10mm    | 1:1        | 0.265    | 1.13              | 30.3   |            |
| 680.5     | 133297 | LTE Band71      | 20        | 25              | QPSK       | 1       | 99        | back          | 10mm    | 1:1        | 0.227    | 1.13              | 32.0   | 32.0       |
| 680.5     | 133297 | LTE Band71      | 20        | 24              | QPSK       | 50      | 25        | back          | 10mm    | 1:1        | 0.180    | 1.13              | 32.0   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 0         | back          | 10mm    | 1:1        | 0.586    | 1.13              | 27.6   | 27.6       |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | back          | 10mm    | 1:1        | 0.452    | 1.13              | 27.7   |            |
| 1745      | 132322 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 50        | back          | 10mm    | 1:1        | 0.567    | 1.13              | 27.7   | 27.6       |
| 1745      | 132322 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 50        | back          | 10mm    | 1:1        | 0.460    | 1.13              | 27.6   |            |
| 2535      | 21100  | LTE Band7       | 20        | 23.2            | QPSK       | 1       | 99        | back          | 10mm    | 1:1        | 0.265    | 1.13              | 29.5   | 29.4       |
| 2535      | 21100  | LTE Band7       | 20        | 22.2            | QPSK       | 50      | 50        | back          | 10mm    | 1:1        | 0.217    | 1.13              | 29.4   |            |
| 2310      | 27710  | LTE Band30      | 10        | 22.2            | QPSK       | 1       | 0         | back          | 10mm    | 1:1        | 0.176    | 1.13              | 30.3   | 30.3       |
| 2310      | 27710  | LTE Band30      | 10        | 21.2            | QPSK       | 25      | 12        | back          | 10mm    | 1:1        | 0.140    | 1.13              | 30.3   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 24.7            | QPSK       | 1       | 0         | back          | 10mm    | 1:1.58     | 0.297    | 1.13              | 28.5   | 28.5       |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 23.7            | QPSK       | 50      | 25        | back          | 10mm    | 1:1.58     | 0.234    | 1.13              | 28.6   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 0         | back          | 10mm    | 1:2.31     | 0.558    | 1.13              | 26.6   | 26.6       |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 99        | back          | 10mm    | 1:2.31     | 0.564    | 1.13              | 26.6   |            |
| 3603.3    | 55773  | LTE Band48      | 20        | 23.2            | QPSK       | 1       | 99        | back          | 10mm    | 1:1.58     | 1.050    | 1.13              | 21.5   | 21.5       |
| 3603.3    | 55773  | LTE Band48      | 20        | 22.2            | QPSK       | 50      | 25        | back          | 10mm    | 1:1.58     | 0.787    | 1.13              | 21.8   |            |

**Table A-7 DSI = 1  $P_{Limit}$  Calculations – 5G NR Sub6 Body-Worn SAR**

| Frequency |        | Mode             | Bandwidth | Conducted Power | Modulation      | RB Size | RB offset | Test Position | Spacing | Duty Cycle | SAR (1g) | SAR design target | Plimit | Min Plimit |
|-----------|--------|------------------|-----------|-----------------|-----------------|---------|-----------|---------------|---------|------------|----------|-------------------|--------|------------|
| MHz       | Ch.    |                  | [MHz]     | [dBm]           |                 |         |           |               |         |            | [W/kg]   | [W/kg]            |        | [dBm]      |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 1         | back          | 10mm    | 1:1        | 0.085    | 1.13              | 36.3   | 36.3       |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | back          | 10mm    | 1:1        | 0.061    | 1.13              | 37.6   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | back          | 10mm    | 1:1        | 0.281    | 1.13              | 31.1   | 31.1       |
| 1905      | 381000 | NR Band n25(2)   | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | back          | 10mm    | 1:1        | 0.279    | 1.13              | 31.1   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | back          | 10mm    | 1:1        | 0.243    | 1.13              | 31.7   | 31.6       |
| 1770      | 354000 | NR Band n66      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | back          | 10mm    | 1:1        | 0.247    | 1.13              | 31.6   |            |
| 2593      | 518598 | NR Band n41(PC2) | 100       | 27.2            | DFT-s-OFDM-QPSK | 1       | 1         | back          | 10mm    | 1:4.29     | 0.084    | 1.13              | 32.2   | 32.2       |
| 2593      | 518598 | NR Band n41(PC2) | 100       | 27.2            | CP-OFDM-QPSK    | 1       | 1         | back          | 10mm    | 1:4.29     | 0.078    | 1.13              | 32.5   |            |

**Table A-8 DSI = 5  $P_{Limit}$  Calculations – 2G/3G Hotspot SAR**

| Frequency |      | Mode     | Service    | Conducted Power | Test Position | Spacing | Duty Cycle | SAR (1g) | SAR design target | Plimit | Min Plimit |
|-----------|------|----------|------------|-----------------|---------------|---------|------------|----------|-------------------|--------|------------|
| MHz       | Ch.  |          |            | [dBm]           |               |         |            | [W/kg]   | [W/kg]            |        | [dBm]      |
| 820.1     | 564  | CDMABC10 | EVDO Rev.0 | 25              | back          | 10mm    | 1:1        | 0.291    | 1.13              | 30.9   | 30.9       |
| 820.1     | 564  | CDMABC10 | EVDO Rev.0 | 25              | front         | 10mm    | 1:1        | 0.258    | 1.13              | 31.4   |            |
| 820.1     | 564  | CDMABC10 | EVDO Rev.0 | 25              | bottom        | 10mm    | 1:1        | 0.090    | 1.13              | 36.0   |            |
| 820.1     | 564  | CDMABC10 | EVDO Rev.0 | 25              | right         | 10mm    | 1:1        | 0.108    | 1.13              | 35.2   |            |
| 836.52    | 384  | CDMABC0  | EVDO Rev.0 | 25              | back          | 10mm    | 1:1        | 0.349    | 1.13              | 30.1   | 30.1       |
| 836.52    | 384  | CDMABC0  | EVDO Rev.0 | 25              | front         | 10mm    | 1:1        | 0.281    | 1.13              | 31.1   |            |
| 836.52    | 384  | CDMABC0  | EVDO Rev.0 | 25              | bottom        | 10mm    | 1:1        | 0.112    | 1.13              | 35.0   |            |
| 836.52    | 384  | CDMABC0  | EVDO Rev.0 | 25              | right         | 10mm    | 1:1        | 0.106    | 1.13              | 35.3   |            |
| 1880      | 600  | PCS CDMA | EVDO Rev.0 | 24.7            | back          | 10mm    | 1:1        | 0.727    | 1.13              | 26.6   | 24.8       |
| 1880      | 600  | PCS CDMA | EVDO Rev.0 | 24.7            | front         | 10mm    | 1:1        | 0.739    | 1.13              | 26.6   |            |
| 1851.25   | 25   | PCS CDMA | EVDO Rev.0 | 24.7            | bottom        | 10mm    | 1:1        | 0.964    | 1.13              | 25.4   |            |
| 1880      | 600  | PCS CDMA | EVDO Rev.0 | 24.7            | bottom        | 10mm    | 1:1        | 1.116    | 1.13              | 24.8   |            |
| 1908.75   | 1175 | PCS CDMA | EVDO Rev.0 | 24.7            | bottom        | 10mm    | 1:1        | 1.109    | 1.13              | 24.8   |            |
| 1880      | 600  | PCS CDMA | EVDO Rev.0 | 24.7            | left          | 10mm    | 1:1        | 0.227    | 1.13              | 31.7   | 30.0       |
| 836.6     | 190  | GSM850   | GPRS       | 28.7            | back          | 10mm    | 1:2.076    | 0.406    | 1.13              | 30.0   |            |
| 836.6     | 190  | GSM850   | GPRS       | 28.7            | front         | 10mm    | 1:2.076    | 0.361    | 1.13              | 30.5   |            |
| 836.6     | 190  | GSM850   | GPRS       | 28.7            | bottom        | 10mm    | 1:2.076    | 0.138    | 1.13              | 34.7   |            |
| 836.6     | 190  | GSM850   | GPRS       | 28.7            | right         | 10mm    | 1:2.076    | 0.103    | 1.13              | 35.9   |            |
| 1880      | 661  | GSM1900  | GPRS       | 26.7            | back          | 10mm    | 1:2.76     | 0.318    | 1.13              | 27.8   | 25.6       |
| 1880      | 661  | GSM1900  | GPRS       | 26.7            | front         | 10mm    | 1:2.76     | 0.319    | 1.13              | 27.8   |            |
| 1880      | 661  | GSM1900  | GPRS       | 26.7            | bottom        | 10mm    | 1:2.76     | 0.529    | 1.13              | 25.6   |            |
| 1880      | 661  | GSM1900  | GPRS       | 26.7            | left          | 10mm    | 1:2.76     | 0.086    | 1.13              | 33.5   |            |
| 836.6     | 4183 | UMTS850  | RMC        | 25              | back          | 10mm    | 1:1        | 0.485    | 1.13              | 28.7   | 28.7       |
| 836.6     | 4183 | UMTS850  | RMC        | 25              | front         | 10mm    | 1:1        | 0.481    | 1.13              | 28.7   |            |
| 836.6     | 4183 | UMTS850  | RMC        | 25              | bottom        | 10mm    | 1:1        | 0.151    | 1.13              | 33.8   |            |
| 836.6     | 4183 | UMTS850  | RMC        | 25              | right         | 10mm    | 1:1        | 0.195    | 1.13              | 32.6   |            |
| 1880      | 9400 | UMTS1900 | RMC        | 24.7            | back          | 10mm    | 1:1        | 0.718    | 1.13              | 26.7   | 24.0       |
| 1880      | 9400 | UMTS1900 | RMC        | 24.7            | front         | 10mm    | 1:1        | 0.621    | 1.13              | 27.3   |            |
| 1852.4    | 9262 | UMTS1900 | RMC        | 24.7            | bottom        | 10mm    | 1:1        | 1.060    | 1.13              | 25.0   |            |
| 1880      | 9400 | UMTS1900 | RMC        | 24.7            | bottom        | 10mm    | 1:1        | 1.165    | 1.13              | 24.6   |            |
| 1907.6    | 9538 | UMTS1900 | RMC        | 24.7            | bottom        | 10mm    | 1:1        | 1.322    | 1.13              | 24.0   |            |
| 1880      | 9400 | UMTS1900 | RMC        | 24.7            | left          | 10mm    | 1:1        | 0.208    | 1.13              | 32.1   | 24.6       |
| 1732.4    | 1412 | UMTS1750 | RMC        | 24.7            | back          | 10mm    | 1:1        | 0.594    | 1.13              | 27.5   |            |
| 1732.4    | 1412 | UMTS1750 | RMC        | 24.7            | front         | 10mm    | 1:1        | 0.491    | 1.13              | 28.3   |            |
| 1712.4    | 1312 | UMTS1750 | RMC        | 24.7            | bottom        | 10mm    | 1:1        | 1.014    | 1.13              | 25.2   |            |
| 1732.4    | 1412 | UMTS1750 | RMC        | 24.7            | bottom        | 10mm    | 1:1        | 1.135    | 1.13              | 24.7   |            |
| 1752.6    | 1513 | UMTS1750 | RMC        | 24.7            | bottom        | 10mm    | 1:1        | 1.165    | 1.13              | 24.6   |            |
| 1740      | 1450 | UMTS1750 | RMC        | 24.7            | left          | 10mm    | 1:1        | 0.195    | 1.13              | 32.3   |            |

For some bands/modes, a lower PLimit was selected as a more conservative evaluation.

**Table A-9 DSI = 5  $P_{Limit}$  Calculations – LTE B12/13/26/5/71 Hotspot SAR**

| Frequency |        | Mode       | Bandwidth | Conducted Power | Modulation | RB Size | RB offset | Test Position | Spacing | Duty Cycle | SAR (1g) | SAR design target | Plimit | Min Plimit |
|-----------|--------|------------|-----------|-----------------|------------|---------|-----------|---------------|---------|------------|----------|-------------------|--------|------------|
| MHz       | Ch.    |            | [MHz]     | [dBm]           |            |         |           |               |         |            | [W/kg]   | [W/kg]            | [dBm]  | [dBm]      |
| 707.5     | 23095  | LTE Band12 | 10        | 25              | QPSK       | 1       | 49        | back          | 10mm    | 1:1        | 0.214    | 1.13              | 32.2   | 30.87      |
| 707.5     | 23095  | LTE Band12 | 10        | 24              | QPSK       | 25      | 12        | back          | 10mm    | 1:1        | 0.176    | 1.13              | 32.1   |            |
| 707.5     | 23095  | LTE Band12 | 10        | 25              | QPSK       | 1       | 49        | front         | 10mm    | 1:1        | 0.214    | 1.13              | 32.2   |            |
| 707.5     | 23095  | LTE Band12 | 10        | 24              | QPSK       | 25      | 12        | front         | 10mm    | 1:1        | 0.170    | 1.13              | 32.2   |            |
| 707.5     | 23095  | LTE Band12 | 10        | 25              | QPSK       | 1       | 49        | bottom        | 10mm    | 1:1        | 0.070    | 1.13              | 37.1   |            |
| 707.5     | 23095  | LTE Band12 | 10        | 24              | QPSK       | 25      | 12        | bottom        | 10mm    | 1:1        | 0.051    | 1.13              | 37.5   |            |
| 707.5     | 23095  | LTE Band12 | 10        | 25              | QPSK       | 1       | 49        | right         | 10mm    | 1:1        | 0.276    | 1.13              | 31.1   | 30.77      |
| 707.5     | 23095  | LTE Band12 | 10        | 24              | QPSK       | 25      | 12        | right         | 10mm    | 1:1        | 0.233    | 1.13              | 30.9   |            |
| 782       | 23230  | LTE Band13 | 10        | 25              | QPSK       | 1       | 0         | back          | 10mm    | 1:1        | 0.299    | 1.13              | 30.8   |            |
| 782       | 23230  | LTE Band13 | 10        | 24              | QPSK       | 25      | 25        | back          | 10mm    | 1:1        | 0.235    | 1.13              | 30.8   |            |
| 782       | 23230  | LTE Band13 | 10        | 25              | QPSK       | 1       | 0         | front         | 10mm    | 1:1        | 0.261    | 1.13              | 31.4   |            |
| 782       | 23230  | LTE Band13 | 10        | 24              | QPSK       | 25      | 25        | front         | 10mm    | 1:1        | 0.225    | 1.13              | 31.0   |            |
| 782       | 23230  | LTE Band13 | 10        | 25              | QPSK       | 1       | 0         | bottom        | 10mm    | 1:1        | 0.100    | 1.13              | 35.5   | 30.2       |
| 782       | 23230  | LTE Band13 | 10        | 24              | QPSK       | 25      | 25        | bottom        | 10mm    | 1:1        | 0.072    | 1.13              | 36.0   |            |
| 782       | 23230  | LTE Band13 | 10        | 25              | QPSK       | 1       | 0         | right         | 10mm    | 1:1        | 0.203    | 1.13              | 32.5   |            |
| 782       | 23230  | LTE Band13 | 10        | 24              | QPSK       | 25      | 25        | right         | 10mm    | 1:1        | 0.159    | 1.13              | 32.5   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 25              | QPSK       | 1       | 0         | back          | 10mm    | 1:1        | 0.341    | 1.13              | 30.2   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 24              | QPSK       | 25      | 0         | back          | 10mm    | 1:1        | 0.265    | 1.13              | 30.3   | 30.55      |
| 836.5     | 20525  | LTE Band5  | 10        | 25              | QPSK       | 1       | 0         | front         | 10mm    | 1:1        | 0.299    | 1.13              | 30.8   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 24              | QPSK       | 25      | 0         | front         | 10mm    | 1:1        | 0.241    | 1.13              | 30.7   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 25              | QPSK       | 1       | 0         | bottom        | 10mm    | 1:1        | 0.099    | 1.13              | 35.6   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 24              | QPSK       | 25      | 0         | bottom        | 10mm    | 1:1        | 0.078    | 1.13              | 35.6   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 25              | QPSK       | 1       | 0         | right         | 10mm    | 1:1        | 0.107    | 1.13              | 35.2   |            |
| 836.5     | 20525  | LTE Band5  | 10        | 24              | QPSK       | 25      | 0         | right         | 10mm    | 1:1        | 0.092    | 1.13              | 34.9   | 30.55      |
| 680.5     | 133297 | LTE Band71 | 20        | 25              | QPSK       | 1       | 99        | back          | 10mm    | 1:1        | 0.227    | 1.13              | 32.0   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 24              | QPSK       | 50      | 25        | back          | 10mm    | 1:1        | 0.180    | 1.13              | 32.0   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 25              | QPSK       | 1       | 99        | front         | 10mm    | 1:1        | 0.222    | 1.13              | 32.1   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 24              | QPSK       | 50      | 25        | front         | 10mm    | 1:1        | 0.173    | 1.13              | 32.2   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 25              | QPSK       | 1       | 99        | bottom        | 10mm    | 1:1        | 0.061    | 1.13              | 37.7   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 24              | QPSK       | 50      | 25        | bottom        | 10mm    | 1:1        | 0.051    | 1.13              | 37.5   | 30.6       |
| 680.5     | 133297 | LTE Band71 | 20        | 25              | QPSK       | 1       | 99        | right         | 10mm    | 1:1        | 0.314    | 1.13              | 30.6   |            |
| 680.5     | 133297 | LTE Band71 | 20        | 24              | QPSK       | 50      | 25        | right         | 10mm    | 1:1        | 0.250    | 1.13              | 30.6   |            |

**Table A-10 DSI = 5  $P_{Limit}$  Calculations – LTE B66/25/2/7/30/41/48 Hotspot SAR**

| Frequency |        | Mode            | Bandwidth | Conducted Power | Modulation | RB Size | RB offset | Test Position | Spacing | Duty Cycle | SAR (1g) | SAR design target | PLimit | Min PLimit |
|-----------|--------|-----------------|-----------|-----------------|------------|---------|-----------|---------------|---------|------------|----------|-------------------|--------|------------|
| MHz       | Ch.    |                 | [MHz]     | [dBm]           |            |         |           |               |         |            | [W/kg]   | [W/kg]            | [dBm]  | [dBm]      |
| 1905      | 26590  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 0         | back          | 10mm    | 1:1        | 0.571    | 1.13              | 27.7   | 24.5       |
| 1905      | 26590  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | back          | 10mm    | 1:1        | 0.463    | 1.13              | 27.6   |            |
| 1905      | 26590  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 0         | front         | 10mm    | 1:1        | 0.620    | 1.13              | 27.3   |            |
| 1905      | 26590  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | front         | 10mm    | 1:1        | 0.506    | 1.13              | 27.2   |            |
| 1860      | 26140  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 99        | bottom        | 10mm    | 1:1        | 1.092    | 1.13              | 24.9   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 99        | bottom        | 10mm    | 1:1        | 1.116    | 1.13              | 24.8   |            |
| 1905      | 26590  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | bottom        | 10mm    | 1:1        | 0.944    | 1.13              | 24.5   |            |
| 1905      | 26590  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 0         | left          | 10mm    | 1:1        | 0.170    | 1.13              | 32.9   |            |
| 1905      | 26590  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | left          | 10mm    | 1:1        | 0.133    | 1.13              | 33.0   | 25.0       |
| 1770      | 132572 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 0         | back          | 10mm    | 1:1        | 0.558    | 1.13              | 27.8   |            |
| 1770      | 132572 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 25        | back          | 10mm    | 1:1        | 0.419    | 1.13              | 28.0   |            |
| 1770      | 132572 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 0         | front         | 10mm    | 1:1        | 0.525    | 1.13              | 28.0   |            |
| 1770      | 132572 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 25        | front         | 10mm    | 1:1        | 0.390    | 1.13              | 28.3   |            |
| 1720      | 132072 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 0         | bottom        | 10mm    | 1:1        | 0.935    | 1.13              | 25.5   |            |
| 1745      | 132322 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 25        | bottom        | 10mm    | 1:1        | 0.808    | 1.13              | 25.2   |            |
| 1770      | 132572 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 0         | bottom        | 10mm    | 1:1        | 1.059    | 1.13              | 25.0   |            |
| 1770      | 132572 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 25        | bottom        | 10mm    | 1:1        | 0.832    | 1.13              | 25.0   | 25.39      |
| 1770      | 132572 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 0         | left          | 10mm    | 1:1        | 0.174    | 1.13              | 32.8   |            |
| 1770      | 132572 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 25        | left          | 10mm    | 1:1        | 0.130    | 1.13              | 33.1   |            |
| 2560      | 21350  | LTE Band7       | 20        | 23.7            | QPSK       | 1       | 0         | back          | 10mm    | 1:1        | 0.223    | 1.13              | 30.8   |            |
| 2560      | 21350  | LTE Band7       | 20        | 22.7            | QPSK       | 50      | 50        | back          | 10mm    | 1:1        | 0.205    | 1.13              | 30.1   |            |
| 2560      | 21350  | LTE Band7       | 20        | 23.7            | QPSK       | 1       | 0         | front         | 10mm    | 1:1        | 0.346    | 1.13              | 28.9   |            |
| 2560      | 21350  | LTE Band7       | 20        | 22.7            | QPSK       | 50      | 50        | front         | 10mm    | 1:1        | 0.266    | 1.13              | 29.0   |            |
| 2560      | 21350  | LTE Band7       | 20        | 23.7            | QPSK       | 1       | 0         | bottom        | 10mm    | 1:1        | 0.767    | 1.13              | 25.4   |            |
| 2560      | 21350  | LTE Band7       | 20        | 22.7            | QPSK       | 50      | 50        | bottom        | 10mm    | 1:1        | 0.573    | 1.13              | 25.7   | 27.00      |
| 2560      | 21350  | LTE Band7       | 20        | 23.7            | QPSK       | 1       | 0         | left          | 10mm    | 1:1        | 0.062    | 1.13              | 36.3   |            |
| 2560      | 21350  | LTE Band7       | 20        | 22.7            | QPSK       | 50      | 50        | left          | 10mm    | 1:1        | 0.044    | 1.13              | 36.8   |            |
| 2310      | 27710  | LTE Band30      | 10        | 22.2            | QPSK       | 1       | 25        | back          | 10mm    | 1:1        | 0.176    | 1.13              | 30.3   |            |
| 2310      | 27710  | LTE Band30      | 10        | 21.2            | QPSK       | 25      | 12        | back          | 10mm    | 1:1        | 0.140    | 1.13              | 30.3   |            |
| 2310      | 27710  | LTE Band30      | 10        | 22.2            | QPSK       | 1       | 25        | front         | 10mm    | 1:1        | 0.169    | 1.13              | 30.5   |            |
| 2310      | 27710  | LTE Band30      | 10        | 21.2            | QPSK       | 25      | 12        | front         | 10mm    | 1:1        | 0.135    | 1.13              | 30.4   |            |
| 2310      | 27710  | LTE Band30      | 10        | 22.2            | QPSK       | 1       | 25        | bottom        | 10mm    | 1:1        | 0.349    | 1.13              | 27.3   |            |
| 2310      | 27710  | LTE Band30      | 10        | 21.2            | QPSK       | 25      | 12        | bottom        | 10mm    | 1:1        | 0.298    | 1.13              | 27.0   | 24.78      |
| 2310      | 27710  | LTE Band30      | 10        | 22.2            | QPSK       | 1       | 25        | left          | 10mm    | 1:1        | 0.043    | 1.13              | 36.4   |            |
| 2310      | 27710  | LTE Band30      | 10        | 21.2            | QPSK       | 25      | 12        | left          | 10mm    | 1:1        | 0.032    | 1.13              | 36.7   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 24.7            | QPSK       | 1       | 0         | back          | 10mm    | 1:1.58     | 0.297    | 1.13              | 28.5   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 23.7            | QPSK       | 50      | 25        | back          | 10mm    | 1:1.58     | 0.234    | 1.13              | 28.6   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 24.7            | QPSK       | 1       | 0         | front         | 10mm    | 1:1.58     | 0.307    | 1.13              | 28.4   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 23.7            | QPSK       | 50      | 25        | front         | 10mm    | 1:1.58     | 0.237    | 1.13              | 28.5   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 24.7            | QPSK       | 1       | 0         | bottom        | 10mm    | 1:1.58     | 0.703    | 1.13              | 24.8   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 23.7            | QPSK       | 50      | 0         | bottom        | 10mm    | 1:1.58     | 0.541    | 1.13              | 24.9   | 25.26      |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 24.7            | QPSK       | 1       | 0         | left          | 10mm    | 1:1.58     | 0.083    | 1.13              | 34.1   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 23.7            | QPSK       | 50      | 0         | left          | 10mm    | 1:1.58     | 0.063    | 1.13              | 34.2   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 0         | back          | 10mm    | 1:2.31     | 0.532    | 1.13              | 28.5   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 26.2            | QPSK       | 50      | 25        | back          | 10mm    | 1:2.31     | 0.417    | 1.13              | 28.6   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 0         | front         | 10mm    | 1:2.31     | 0.486    | 1.13              | 28.4   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 26.2            | QPSK       | 50      | 25        | front         | 10mm    | 1:2.31     | 0.385    | 1.13              | 28.5   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 0         | bottom        | 10mm    | 1:2.31     | 0.766    | 1.13              | 25.3   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 50      | 25        | bottom        | 10mm    | 1:2.31     | 0.692    | 1.13              | 25.7   | 21.5       |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 0         | left          | 10mm    | 1:2.31     | 0.525    | 1.13              | 26.9   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 26.2            | QPSK       | 50      | 25        | left          | 10mm    | 1:2.31     | 0.420    | 1.13              | 26.9   |            |
| 3690      | 56640  | LTE Band48      | 20        | 23.2            | QPSK       | 1       | 50        | back          | 10mm    | 1:1.58     | 1.058    | 1.13              | 21.5   |            |
| 3690      | 56640  | LTE Band48      | 20        | 22.2            | QPSK       | 50      | 25        | back          | 10mm    | 1:1.58     | 0.701    | 1.13              | 22.3   |            |
| 3690      | 56640  | LTE Band48      | 20        | 23.2            | QPSK       | 1       | 50        | front         | 10mm    | 1:1.58     | 0.024    | 1.13              | 37.9   |            |
| 3690      | 56640  | LTE Band48      | 20        | 22.2            | QPSK       | 50      | 25        | front         | 10mm    | 1:1.58     | 0.020    | 1.13              | 37.6   |            |
| 3690      | 56640  | LTE Band48      | 20        | 23.2            | QPSK       | 1       | 50        | right         | 10mm    | 1:1.58     | 0.470    | 1.13              | 25.0   |            |
| 3690      | 56640  | LTE Band48      | 20        | 22.2            | QPSK       | 50      | 25        | right         | 10mm    | 1:1.58     | 0.389    | 1.13              | 24.9   |            |

For some bands/modes, a lower PLimit was selected as a more conservative evaluation.

**Table A-11 DSI = 5  $P_{Limit}$  Calculations – 5G NR n71/n25/n2/n66/n41 Hotspot SAR**

| Frequency |        | Mode             | Bandwidth | Conducted Power | Modulation      | RB Size | RB offset | Test Position | Spacing | Duty Cycle | SAR (1g) | SAR design target | Plimit | Min Plimit |
|-----------|--------|------------------|-----------|-----------------|-----------------|---------|-----------|---------------|---------|------------|----------|-------------------|--------|------------|
| MHz       | Ch.    |                  | [MHz]     | [dBm]           |                 |         |           |               |         |            | [W/kg]   | [W/kg]            | [dBm]  | [dBm]      |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 1         | back          | 10mm    | 1:1        | 0.085    | 1.13              | 36.3   | 33.66      |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | back          | 10mm    | 1:1        | 0.061    | 1.13              | 37.6   |            |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 1         | front         | 10mm    | 1:1        | 0.072    | 1.13              | 37.0   |            |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | front         | 10mm    | 1:1        | 0.061    | 1.13              | 37.7   |            |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 1         | bottom        | 10mm    | 1:1        | 0.019    | 1.13              | 42.8   |            |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | bottom        | 10mm    | 1:1        | 0.016    | 1.13              | 43.5   |            |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 1         | right         | 10mm    | 1:1        | 0.154    | 1.13              | 33.7   |            |
| 680.5     | 136100 | NR Band n71      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | right         | 10mm    | 1:1        | 0.113    | 1.13              | 35.0   | 27.1       |
| 1905      | 381000 | NR Band n25(2)   | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | back          | 10mm    | 1:1        | 0.281    | 1.13              | 31.1   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | back          | 10mm    | 1:1        | 0.279    | 1.13              | 31.1   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | front         | 10mm    | 1:1        | 0.337    | 1.13              | 30.3   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | front         | 10mm    | 1:1        | 0.321    | 1.13              | 30.5   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | bottom        | 10mm    | 1:1        | 0.063    | 1.13              | 37.5   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | bottom        | 10mm    | 1:1        | 0.053    | 1.13              | 38.3   |            |
| 1905      | 381000 | NR Band n25(2)   | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | right         | 10mm    | 1:1        | 0.705    | 1.13              | 27.1   | 29.7       |
| 1905      | 381000 | NR Band n25(2)   | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | right         | 10mm    | 1:1        | 0.630    | 1.13              | 27.5   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | back          | 10mm    | 1:1        | 0.243    | 1.13              | 31.7   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | back          | 10mm    | 1:1        | 0.247    | 1.13              | 31.6   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | front         | 10mm    | 1:1        | 0.250    | 1.13              | 31.6   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | front         | 10mm    | 1:1        | 0.247    | 1.13              | 31.6   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | bottom        | 10mm    | 1:1        | 0.031    | 1.13              | 40.6   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | bottom        | 10mm    | 1:1        | 0.027    | 1.13              | 41.3   | 31.27      |
| 1770      | 354000 | NR Band n66      | 20        | 25              | DFT-s-OFDM-QPSK | 1       | 104       | right         | 10mm    | 1:1        | 0.378    | 1.13              | 29.8   |            |
| 1770      | 354000 | NR Band n66      | 20        | 25              | CP-OFDM-QPSK    | 1       | 1         | right         | 10mm    | 1:1        | 0.382    | 1.13              | 29.7   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | DFT-s-OFDM-QPSK | 1       | 1         | back          | 10mm    | 1:4.29     | 0.084    | 1.13              | 32.2   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | CP-OFDM-QPSK    | 1       | 1         | back          | 10mm    | 1:4.29     | 0.078    | 1.13              | 32.5   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | DFT-s-OFDM-QPSK | 1       | 1         | front         | 10mm    | 1:4.29     | 0.103    | 1.13              | 31.3   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | CP-OFDM-QPSK    | 1       | 1         | front         | 10mm    | 1:4.29     | 0.094    | 1.13              | 31.7   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | DFT-s-OFDM-QPSK | 1       | 1         | bottom        | 10mm    | 1:4.29     | 0.033    | 1.13              | 36.2   | 31.27      |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | CP-OFDM-QPSK    | 1       | 1         | bottom        | 10mm    | 1:4.29     | 0.027    | 1.13              | 37.1   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | DFT-s-OFDM-QPSK | 1       | 1         | right         | 10mm    | 1:4.29     | 0.073    | 1.13              | 32.8   |            |
| 2592.99   | 518598 | NR Band n41(PC2) | 100       | 27.2            | DFT-s-OFDM-QPSK | 135     | 0         | right         | 10mm    | 1:4.29     | 0.075    | 1.13              | 32.7   |            |

**Table A-12 DSI = 1  $P_{Limit}$  Calculations – 2G/3G Phablet SAR**

| Frequency |      | Mode      | Service    | Conducted Power | Test Position | Spacing | Duty Cycle | SAR (10g) | SAR design target | Plimit | Min Plimit |
|-----------|------|-----------|------------|-----------------|---------------|---------|------------|-----------|-------------------|--------|------------|
| MHz       | Ch.  |           |            | [dBm]           |               |         |            | [W/kg]    | [W/kg]            |        | [dBm]      |
| 820.1     | 564  | CDMA BC10 | EVDO Rev.0 | 25              | back          | 0mm     | 1:1        | 0.882     | 2.83              | 30.1   | 30.1       |
| 820.1     | 564  | CDMA BC10 | EVDO Rev.0 | 25              | front         | 0mm     | 1:1        | 0.780     | 2.83              | 30.6   |            |
| 820.1     | 564  | CDMA BC10 | EVDO Rev.0 | 25              | bottom        | 0mm     | 1:1        | 0.273     | 2.83              | 35.2   |            |
| 820.1     | 564  | CDMA BC10 | EVDO Rev.0 | 25              | right         | 0mm     | 1:1        | 0.327     | 2.83              | 34.4   |            |
| 836.52    | 384  | CDMA BC0  | EVDO Rev.0 | 25              | back          | 0mm     | 1:1        | 1.058     | 2.83              | 29.3   | 29.3       |
| 836.52    | 384  | CDMA BC0  | EVDO Rev.0 | 25              | front         | 0mm     | 1:1        | 0.850     | 2.83              | 30.2   |            |
| 836.52    | 384  | CDMA BC0  | EVDO Rev.0 | 25              | bottom        | 0mm     | 1:1        | 0.340     | 2.83              | 34.2   |            |
| 836.52    | 384  | CDMA BC0  | EVDO Rev.0 | 25              | right         | 0mm     | 1:1        | 0.321     | 2.83              | 34.5   |            |
| 1880      | 600  | PCS CDMA  | EVDO Rev.0 | 24.7            | back          | 2mm     | 1:1        | 1.255     | 2.83              | 28.2   | 26.3       |
| 1880      | 600  | PCS CDMA  | EVDO Rev.0 | 24.7            | front         | 1mm     | 1:1        | 1.977     | 2.83              | 26.3   |            |
| 1880      | 600  | PCS CDMA  | EVDO Rev.0 | 24.7            | bottom        | 3mm     | 1:1        | 1.496     | 2.83              | 27.5   |            |
| 1880      | 600  | PCS CDMA  | EVDO Rev.0 | 24.7            | left          | 0mm     | 1:1        | 0.495     | 2.83              | 32.3   |            |
| 836.6     | 190  | GSM850    | GPRS       | 28.7            | back          | 0mm     | 1:2.076    | 1.228     | 2.83              | 29.2   | 29.2       |
| 836.6     | 190  | GSM850    | GPRS       | 28.7            | front         | 0mm     | 1:2.076    | 1.093     | 2.83              | 29.7   |            |
| 836.6     | 190  | GSM850    | GPRS       | 28.7            | bottom        | 0mm     | 1:2.076    | 0.418     | 2.83              | 33.8   |            |
| 836.6     | 190  | GSM850    | GPRS       | 28.7            | right         | 0mm     | 1:2.076    | 0.313     | 2.83              | 35.1   |            |
| 1880      | 661  | GSM1900   | GPRS       | 26.7            | back          | 0mm     | 1:2.76     | 0.963     | 2.83              | 27.0   | 24.8       |
| 1880      | 661  | GSM1900   | GPRS       | 26.7            | front         | 0mm     | 1:2.76     | 0.966     | 2.83              | 27.0   |            |
| 1880      | 661  | GSM1900   | GPRS       | 26.7            | bottom        | 0mm     | 1:2.76     | 1.603     | 2.83              | 24.8   |            |
| 1880      | 661  | GSM1900   | GPRS       | 26.7            | left          | 0mm     | 1:2.76     | 0.262     | 2.83              | 32.6   |            |
| 836.6     | 4183 | UMTS850   | RMC        | 25              | back          | 0mm     | 1:1        | 1.468     | 2.83              | 27.8   | 27.8       |
| 836.6     | 4183 | UMTS850   | RMC        | 25              | front         | 0mm     | 1:1        | 1.457     | 2.83              | 27.9   |            |
| 836.6     | 4183 | UMTS850   | RMC        | 25              | bottom        | 0mm     | 1:1        | 0.456     | 2.83              | 32.9   |            |
| 836.6     | 4183 | UMTS850   | RMC        | 25              | right         | 0mm     | 1:1        | 0.591     | 2.83              | 31.8   |            |
| 1880      | 9400 | UMTS1900  | RMC        | 24.7            | back          | 2mm     | 1:1        | 1.371     | 2.83              | 27.8   | 26.7       |
| 1880      | 9400 | UMTS1900  | RMC        | 24.7            | front         | 1mm     | 1:1        | 1.772     | 2.83              | 26.7   |            |
| 1880      | 9400 | UMTS1900  | RMC        | 24.7            | bottom        | 3mm     | 1:1        | 1.665     | 2.83              | 27.0   |            |
| 1880      | 9400 | UMTS1900  | RMC        | 24.7            | left          | 0mm     | 1:1        | 0.520     | 2.83              | 32.1   |            |
| 1732.4    | 1412 | UMTS1750  | RMC        | 24.7            | back          | 2mm     | 1:1        | 1.112     | 2.83              | 28.8   | 26.5       |
| 1732.4    | 1412 | UMTS1750  | RMC        | 24.7            | front         | 1mm     | 1:1        | 1.451     | 2.83              | 27.6   |            |
| 1732.4    | 1412 | UMTS1750  | RMC        | 24.7            | bottom        | 3mm     | 1:1        | 1.861     | 2.83              | 26.5   |            |
| 1732.4    | 1412 | UMTS1750  | RMC        | 24.7            | left          | 0mm     | 1:1        | 0.382     | 2.83              | 33.4   |            |

**Table A-13 DSI = 8  $P_{Limit}$  Calculations – 2G/3G Phablet SAR**

| Frequency |      | Mode     | Service    | Conducted Power | Test Position | Spacing | Duty Cycle | SAR (10g) | SAR design target | Plimit | Min Plimit |
|-----------|------|----------|------------|-----------------|---------------|---------|------------|-----------|-------------------|--------|------------|
| MHz       | Ch.  |          |            | [dBm]           |               |         |            | [W/kg]    | [W/kg]            |        | [dBm]      |
| 1880      | 600  | PCS CDMA | EVDO Rev.0 | 24.7            | back          | 0mm     | 1:1        | 2.010     | 2.83              | 26.2   | 24.7       |
| 1880      | 600  | PCS CDMA | EVDO Rev.0 | 24.7            | front         | 0mm     | 1:1        | 2.596     | 2.83              | 25.1   |            |
| 1880      | 600  | PCS CDMA | EVDO Rev.0 | 24.7            | bottom        | 0mm     | 1:1        | 2.834     | 2.83              | 24.7   |            |
| 1880      | 9400 | UMTS1900 | RMC        | 24.7            | back          | 0mm     | 1:1        | 2.564     | 2.83              | 25.1   |            |
| 1852.4    | 9262 | UMTS1900 | RMC        | 24.7            | front         | 0mm     | 1:1        | 2.913     | 2.83              | 24.6   | 23.6       |
| 1880      | 9400 | UMTS1900 | RMC        | 24.7            | front         | 0mm     | 1:1        | 3.072     | 2.83              | 24.3   |            |
| 1907.6    | 9538 | UMTS1900 | RMC        | 24.7            | front         | 0mm     | 1:1        | 3.246     | 2.83              | 24.1   |            |
| 1852.4    | 9262 | UMTS1900 | RMC        | 24.7            | bottom        | 0mm     | 1:1        | 3.201     | 2.83              | 24.2   |            |
| 1880      | 9400 | UMTS1900 | RMC        | 24.7            | bottom        | 0mm     | 1:1        | 3.360     | 2.83              | 24.0   |            |
| 1907.6    | 9538 | UMTS1900 | RMC        | 24.7            | bottom        | 0mm     | 1:1        | 3.629     | 2.83              | 23.6   |            |
| 1732.4    | 1412 | UMTS1750 | RMC        | 24.7            | back          | 0mm     | 1:1        | 2.010     | 2.83              | 26.2   | 23.3       |
| 1732.4    | 1412 | UMTS1750 | RMC        | 24.7            | front         | 0mm     | 1:1        | 2.549     | 2.83              | 25.2   |            |
| 1712.4    | 1312 | UMTS1750 | RMC        | 24.7            | bottom        | 0mm     | 1:1        | 3.864     | 2.83              | 23.3   |            |
| 1732.4    | 1412 | UMTS1750 | RMC        | 24.7            | bottom        | 0mm     | 1:1        | 3.721     | 2.83              | 23.5   |            |
| 1752.6    | 1513 | UMTS1750 | RMC        | 24.7            | bottom        | 0mm     | 1:1        | 3.563     | 2.83              | 23.7   |            |

For some bands/modes, a lower PLimit was selected as a more conservative evaluation.

**Table A-14 DSI = 1  $P_{Limit}$  Calculations – 4G Phablet SAR**

| Frequency |        | Mode            | Bandwidth | Conducted Power | Modulation | RB Size | RB offset | Test Position | Spacing | Duty Cycle | SAR (10g) | SAR design target | Plimit | Min Plimit |
|-----------|--------|-----------------|-----------|-----------------|------------|---------|-----------|---------------|---------|------------|-----------|-------------------|--------|------------|
| MHz       | Ch.    |                 | [MHz]     | [dBm]           |            | [W/kg]  | [W/kg]    | [dBm]         |         |            | [dBm]     |                   |        |            |
| 707.5     | 23095  | LTE Band12      | 10        | 25              | QPSK       | 1       | 49        | back          | 0mm     | 1:1        | 0.648     | 2.83              | 31.4   | 30.0       |
| 707.5     | 23095  | LTE Band12      | 10        | 24              | QPSK       | 25      | 12        | back          | 0mm     | 1:1        | 0.532     | 2.83              | 31.3   |            |
| 707.5     | 23095  | LTE Band12      | 10        | 25              | QPSK       | 1       | 49        | front         | 0mm     | 1:1        | 0.648     | 2.83              | 31.4   |            |
| 707.5     | 23095  | LTE Band12      | 10        | 24              | QPSK       | 25      | 12        | front         | 0mm     | 1:1        | 0.516     | 2.83              | 31.4   |            |
| 707.5     | 23095  | LTE Band12      | 10        | 25              | QPSK       | 1       | 49        | bottom        | 0mm     | 1:1        | 0.211     | 2.83              | 36.3   |            |
| 707.5     | 23095  | LTE Band12      | 10        | 24              | QPSK       | 25      | 12        | bottom        | 0mm     | 1:1        | 0.154     | 2.83              | 36.6   |            |
| 707.5     | 23095  | LTE Band12      | 10        | 25              | QPSK       | 1       | 49        | right         | 0mm     | 1:1        | 0.837     | 2.83              | 30.3   |            |
| 707.5     | 23095  | LTE Band12      | 10        | 24              | QPSK       | 25      | 12        | right         | 0mm     | 1:1        | 0.705     | 2.83              | 30.0   |            |
| 782       | 23230  | LTE Band13      | 10        | 25              | QPSK       | 1       | 0         | back          | 0mm     | 1:1        | 0.907     | 2.83              | 29.9   | 29.9       |
| 782       | 23230  | LTE Band13      | 10        | 24              | QPSK       | 25      | 25        | back          | 0mm     | 1:1        | 0.713     | 2.83              | 30.0   |            |
| 782       | 23230  | LTE Band13      | 10        | 25              | QPSK       | 1       | 0         | front         | 0mm     | 1:1        | 0.791     | 2.83              | 30.5   |            |
| 782       | 23230  | LTE Band13      | 10        | 24              | QPSK       | 25      | 25        | front         | 0mm     | 1:1        | 0.683     | 2.83              | 30.2   |            |
| 782       | 23230  | LTE Band13      | 10        | 25              | QPSK       | 1       | 0         | bottom        | 0mm     | 1:1        | 0.302     | 2.83              | 34.7   |            |
| 782       | 23230  | LTE Band13      | 10        | 24              | QPSK       | 25      | 25        | bottom        | 0mm     | 1:1        | 0.219     | 2.83              | 35.1   |            |
| 782       | 23230  | LTE Band13      | 10        | 25              | QPSK       | 1       | 0         | right         | 0mm     | 1:1        | 0.616     | 2.83              | 31.6   |            |
| 782       | 23230  | LTE Band13      | 10        | 24              | QPSK       | 25      | 25        | right         | 0mm     | 1:1        | 0.481     | 2.83              | 31.7   |            |
| 836.5     | 20525  | LTE Band5       | 10        | 25              | QPSK       | 1       | 0         | back          | 0mm     | 1:1        | 1.034     | 2.83              | 29.4   | 29.4       |
| 836.5     | 20525  | LTE Band5       | 10        | 24              | QPSK       | 25      | 0         | back          | 0mm     | 1:1        | 0.802     | 2.83              | 29.5   |            |
| 836.5     | 20525  | LTE Band5       | 10        | 25              | QPSK       | 1       | 0         | front         | 0mm     | 1:1        | 0.905     | 2.83              | 30.0   |            |
| 836.5     | 20525  | LTE Band5       | 10        | 24              | QPSK       | 25      | 0         | front         | 0mm     | 1:1        | 0.729     | 2.83              | 29.9   |            |
| 836.5     | 20525  | LTE Band5       | 10        | 25              | QPSK       | 1       | 0         | bottom        | 0mm     | 1:1        | 0.300     | 2.83              | 34.8   |            |
| 836.5     | 20525  | LTE Band5       | 10        | 24              | QPSK       | 25      | 0         | bottom        | 0mm     | 1:1        | 0.238     | 2.83              | 34.8   |            |
| 836.5     | 20525  | LTE Band5       | 10        | 25              | QPSK       | 1       | 0         | right         | 0mm     | 1:1        | 0.324     | 2.83              | 34.4   |            |
| 836.5     | 20525  | LTE Band5       | 10        | 24              | QPSK       | 25      | 0         | right         | 0mm     | 1:1        | 0.278     | 2.83              | 34.1   |            |
| 680.5     | 133297 | LTE Band71      | 20        | 25              | QPSK       | 1       | 99        | back          | 0mm     | 1:1        | 0.689     | 2.83              | 31.1   | 29.7       |
| 680.5     | 133297 | LTE Band71      | 20        | 24              | QPSK       | 50      | 25        | back          | 0mm     | 1:1        | 0.545     | 2.83              | 31.2   |            |
| 680.5     | 133297 | LTE Band71      | 20        | 25              | QPSK       | 1       | 99        | front         | 0mm     | 1:1        | 0.672     | 2.83              | 31.2   |            |
| 680.5     | 133297 | LTE Band71      | 20        | 24              | QPSK       | 50      | 25        | front         | 0mm     | 1:1        | 0.524     | 2.83              | 31.3   |            |
| 680.5     | 133297 | LTE Band71      | 20        | 25              | QPSK       | 1       | 99        | bottom        | 0mm     | 1:1        | 0.184     | 2.83              | 36.9   |            |
| 680.5     | 133297 | LTE Band71      | 20        | 24              | QPSK       | 50      | 25        | bottom        | 0mm     | 1:1        | 0.154     | 2.83              | 36.6   |            |
| 680.5     | 133297 | LTE Band71      | 20        | 25              | QPSK       | 1       | 99        | right         | 0mm     | 1:1        | 0.950     | 2.83              | 29.7   |            |
| 680.5     | 133297 | LTE Band71      | 20        | 24              | QPSK       | 50      | 25        | right         | 0mm     | 1:1        | 0.759     | 2.83              | 29.7   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 0         | back          | 2mm     | 1:1        | 1.479     | 2.83              | 27.5   | 26.6       |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | back          | 2mm     | 1:1        | 1.194     | 2.83              | 27.4   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 0         | front         | 1mm     | 1:1        | 1.729     | 2.83              | 26.8   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | front         | 1mm     | 1:1        | 1.390     | 2.83              | 26.8   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 0         | bottom        | 3mm     | 1:1        | 1.836     | 2.83              | 26.6   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | bottom        | 3mm     | 1:1        | 1.458     | 2.83              | 26.6   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 24.7            | QPSK       | 1       | 0         | left          | 0mm     | 1:1        | 0.586     | 2.83              | 31.5   |            |
| 1882.5    | 26365  | LTE Band25(2)   | 20        | 23.7            | QPSK       | 50      | 25        | left          | 0mm     | 1:1        | 0.490     | 2.83              | 31.3   |            |
| 1745      | 132322 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 50        | back          | 2mm     | 1:1        | 1.077     | 2.83              | 28.9   | 26.1       |
| 1745      | 132322 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 50        | back          | 2mm     | 1:1        | 0.891     | 2.83              | 28.7   |            |
| 1745      | 132322 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 50        | front         | 1mm     | 1:1        | 1.720     | 2.83              | 26.9   |            |
| 1745      | 132322 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 50        | front         | 1mm     | 1:1        | 1.390     | 2.83              | 26.8   |            |
| 1745      | 132322 | LTE Band66      | 20        | 24.7            | QPSK       | 1       | 50        | bottom        | 3mm     | 1:1        | 1.949     | 2.83              | 26.3   |            |
| 1745      | 132322 | LTE Band66      | 20        | 23.7            | QPSK       | 50      | 50        | bottom        | 3mm     | 1:1        | 1.613     | 2.83              | 26.1   |            |
| 1745      | 132322 | LTE Band66      | 20        | 23.7            | QPSK       | 1       | 50        | left          | 0mm     | 1:1        | 0.500     | 2.83              | 31.2   |            |
| 1745      | 132322 | LTE Band66      | 20        | 24.7            | QPSK       | 50      | 50        | left          | 0mm     | 1:1        | 0.401     | 2.83              | 33.2   |            |
| 2535      | 21100  | LTE Band7       | 20        | 23.2            | QPSK       | 1       | 99        | back          | 2mm     | 1:1        | 0.638     | 2.83              | 29.7   | 27.6       |
| 2535      | 21100  | LTE Band7       | 20        | 22.2            | QPSK       | 50      | 50        | back          | 2mm     | 1:1        | 0.517     | 2.83              | 29.6   |            |
| 2535      | 21100  | LTE Band7       | 20        | 23.2            | QPSK       | 1       | 99        | front         | 1mm     | 1:1        | 0.986     | 2.83              | 27.8   |            |
| 2535      | 21100  | LTE Band7       | 20        | 22.2            | QPSK       | 50      | 50        | front         | 1mm     | 1:1        | 0.820     | 2.83              | 27.6   |            |
| 2535      | 21100  | LTE Band7       | 20        | 23.2            | QPSK       | 1       | 99        | bottom        | 3mm     | 1:1        | 0.980     | 2.83              | 27.8   |            |
| 2535      | 21100  | LTE Band7       | 20        | 22.2            | QPSK       | 50      | 50        | bottom        | 3mm     | 1:1        | 0.758     | 2.83              | 27.9   |            |
| 2535      | 21100  | LTE Band7       | 20        | 23.2            | QPSK       | 1       | 99        | left          | 0mm     | 1:1        | 0.246     | 2.83              | 33.8   |            |
| 2535      | 21100  | LTE Band7       | 20        | 22.2            | QPSK       | 50      | 50        | left          | 0mm     | 1:1        | 0.208     | 2.83              | 33.5   |            |
| 2310      | 27710  | LTE Band30      | 10        | 22.2            | QPSK       | 1       | 25        | back          | 0mm     | 1:1        | 0.697     | 2.83              | 28.3   | 25.0       |
| 2310      | 27710  | LTE Band30      | 10        | 21.2            | QPSK       | 25      | 12        | back          | 0mm     | 1:1        | 0.553     | 2.83              | 28.3   |            |
| 2310      | 27710  | LTE Band30      | 10        | 22.2            | QPSK       | 1       | 25        | front         | 0mm     | 1:1        | 0.669     | 2.83              | 28.5   |            |
| 2310      | 27710  | LTE Band30      | 10        | 21.2            | QPSK       | 25      | 12        | front         | 0mm     | 1:1        | 0.535     | 2.83              | 28.4   |            |
| 2310      | 27710  | LTE Band30      | 10        | 22.2            | QPSK       | 1       | 25        | bottom        | 0mm     | 1:1        | 1.380     | 2.83              | 25.3   |            |
| 2310      | 27710  | LTE Band30      | 10        | 21.2            | QPSK       | 25      | 12        | bottom        | 0mm     | 1:1        | 1.176     | 2.83              | 25.0   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 24.7            | QPSK       | 1       | 0         | back          | 0mm     | 1:1.58     | 1.149     | 2.83              | 26.6   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 23.7            | QPSK       | 50      | 25        | back          | 0mm     | 1:1.58     | 0.904     | 2.83              | 26.7   | 23.8       |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 24.7            | QPSK       | 1       | 0         | front         | 0mm     | 1:1.58     | 1.187     | 2.83              | 26.5   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 23.7            | QPSK       | 50      | 25        | front         | 0mm     | 1:1.58     | 0.918     | 2.83              | 26.6   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 24.7            | QPSK       | 1       | 0         | bottom        | 0mm     | 1:1.58     | 2.225     | 2.83              | 23.8   |            |
| 2506      | 39750  | LTE Band41(PC3) | 20        | 23.7            | QPSK       | 50      | 0         | bottom        | 0mm     | 1:1.58     | 1.770     | 2.83              | 23.8   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 0         | back          | 0mm     | 1:2.31     | 2.058     | 2.83              | 24.9   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 26.2            | QPSK       | 50      | 25        | back          | 0mm     | 1:2.31     | 1.616     | 2.83              | 25.0   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 0         | front         | 0mm     | 1:2.31     | 1.880     | 2.83              | 25.3   | 23.8       |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 26.2            | QPSK       | 50      | 25        | front         | 0mm     | 1:2.31     | 1.491     | 2.83              | 25.3   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 27.2            | QPSK       | 1       | 0         | bottom        | 0mm     | 1:2.31     | 2.697     | 2.83              | 23.8   |            |
| 2506      | 39750  | LTE Band41(PC2) | 20        | 26.2            | QPSK       | 50      | 25        | bottom        | 0mm     | 1:2.31     | 2.137     | 2.83              | 23.8   |            |
| 3690      | 56640  | LTE Band48      | 20        | 23.2            | QPSK       | 1       | 50        | back          | 0mm     | 1:1.58     | 2.581     | 2.83              | 21.6   | 21.6       |
| 3690      | 56640  | LTE Band48      | 20        | 22.2            | QPSK       | 50      | 25        | back          | 0mm     | 1:1.58     | 2.075     | 2.83              | 21.6   |            |
| 3690      | 56640  | LTE Band48      | 20        | 23.2            | QPSK       | 1       | 50        | front         | 0mm     | 1:1.58     | 1.264     | 2.83              | 24.7   |            |
| 3690      | 56640  | LTE Band48      | 20        | 22.2            | QPSK       | 50      | 25        | front         | 0mm     | 1:1.58     | 1.013     | 2.83              | 24.7   |            |
| 3690      | 56640  | LTE Band48      | 20        | 23.2            | QPSK       | 1       | 50        | right         | 0mm     | 1:1.58     | 1.652     | 2.83              | 23.5   |            |
| 3690      | 56640  | LTE Band48      | 20        | 22.2            | QPSK       | 50      | 25        | right         | 0mm     | 1:1.58     | 1.317     | 2.83              | 23.5   |            |

**Table A-15 DSI = 8  $P_{Limit}$  Calculations – 4G Phablet SAR**

| Frequency |        | Mode          | Bandwidth | Conducted Power | Modulation | RB Size | RB offset | Test Position | Spacing | Duty Cycle | SAR (10g) | SAR design target | PLimit | Min PLimit |
|-----------|--------|---------------|-----------|-----------------|------------|---------|-----------|---------------|---------|------------|-----------|-------------------|--------|------------|
| MHz       | Ch.    |               | [MHz]     | [dBm]           |            |         |           |               |         |            | [W/kg]    | [W/kg]            |        |            |
| 1905      | 26590  | LTE Band25(2) | 20        | 24.7            | QPSK       | 1       | 0         | back          | 0mm     | 1:1        | 2.564     | 2.83              | 25.1   | 23.6       |
| 1905      | 26590  | LTE Band25(2) | 20        | 23.7            | QPSK       | 50      | 25        | back          | 0mm     | 1:1        | 2.090     | 2.83              | 25.0   |            |
| 1905      | 26590  | LTE Band25(2) | 20        | 24.7            | QPSK       | 1       | 0         | front         | 0mm     | 1:1        | 3.040     | 2.83              | 24.4   |            |
| 1905      | 26590  | LTE Band25(2) | 20        | 23.7            | QPSK       | 50      | 25        | front         | 0mm     | 1:1        | 2.450     | 2.83              | 24.3   |            |
| 1860      | 26140  | LTE Band25(2) | 20        | 24.7            | QPSK       | 1       | 99        | bottom        | 0mm     | 1:1        | 3.255     | 2.83              | 24.1   |            |
| 1882.5    | 26365  | LTE Band25(2) | 20        | 24.7            | QPSK       | 1       | 99        | bottom        | 0mm     | 1:1        | 3.417     | 2.83              | 23.9   |            |
| 1905      | 26590  | LTE Band25(2) | 20        | 24.7            | QPSK       | 1       | 0         | bottom        | 0mm     | 1:1        | 3.530     | 2.83              | 23.7   |            |
| 1860      | 26140  | LTE Band25(2) | 20        | 23.7            | QPSK       | 50      | 25        | bottom        | 0mm     | 1:1        | 2.700     | 2.83              | 23.9   |            |
| 1882.5    | 26365  | LTE Band25(2) | 20        | 23.7            | QPSK       | 50      | 25        | bottom        | 0mm     | 1:1        | 2.814     | 2.83              | 23.7   |            |
| 1905      | 26590  | LTE Band25(2) | 20        | 23.7            | QPSK       | 50      | 25        | bottom        | 0mm     | 1:1        | 2.892     | 2.83              | 23.6   |            |
| 1770      | 132572 | LTE Band66    | 20        | 24.7            | QPSK       | 1       | 0         | back          | 0mm     | 1:1        | 2.102     | 2.83              | 26.0   | 22.8       |
| 1770      | 132572 | LTE Band66    | 20        | 23.7            | QPSK       | 50      | 25        | back          | 0mm     | 1:1        | 1.556     | 2.83              | 26.3   |            |
| 1770      | 132572 | LTE Band66    | 20        | 24.7            | QPSK       | 1       | 0         | front         | 0mm     | 1:1        | 2.544     | 2.83              | 25.2   |            |
| 1770      | 132572 | LTE Band66    | 20        | 23.7            | QPSK       | 50      | 25        | front         | 0mm     | 1:1        | 1.931     | 2.83              | 25.4   |            |
| 1720      | 132072 | LTE Band66    | 20        | 24.7            | QPSK       | 1       | 50        | bottom        | 0mm     | 1:1        | 3.745     | 2.83              | 23.5   |            |
| 1745      | 132322 | LTE Band66    | 20        | 24.7            | QPSK       | 1       | 50        | bottom        | 0mm     | 1:1        | 3.702     | 2.83              | 23.5   |            |
| 1770      | 132572 | LTE Band66    | 20        | 24.7            | QPSK       | 1       | 0         | bottom        | 0mm     | 1:1        | 3.653     | 2.83              | 23.6   |            |
| 1720      | 132072 | LTE Band66    | 20        | 23.7            | QPSK       | 50      | 25        | bottom        | 0mm     | 1:1        | 3.466     | 2.83              | 22.8   |            |
| 1745      | 132322 | LTE Band66    | 20        | 23.7            | QPSK       | 50      | 25        | bottom        | 0mm     | 1:1        | 3.057     | 2.83              | 23.4   |            |
| 1770      | 132572 | LTE Band66    | 20        | 23.7            | QPSK       | 50      | 25        | bottom        | 0mm     | 1:1        | 2.928     | 2.83              | 23.6   |            |
| 2560      | 21350  | LTE Band7     | 20        | 23.7            | QPSK       | 1       | 0         | back          | 0mm     | 1:1        | 1.680     | 2.83              | 26.0   | 23.6       |
| 2560      | 21350  | LTE Band7     | 20        | 22.7            | QPSK       | 50      | 50        | back          | 0mm     | 1:1        | 1.318     | 2.83              | 26.0   |            |
| 2560      | 21350  | LTE Band7     | 20        | 23.7            | QPSK       | 1       | 0         | front         | 0mm     | 1:1        | 1.802     | 2.83              | 25.7   |            |
| 2560      | 21350  | LTE Band7     | 20        | 22.7            | QPSK       | 50      | 50        | front         | 0mm     | 1:1        | 1.418     | 2.83              | 25.7   |            |
| 2510      | 20850  | LTE Band7     | 20        | 23.7            | QPSK       | 1       | 0         | bottom        | 0mm     | 1:1        | 2.479     | 2.83              | 24.3   |            |
| 2535      | 21100  | LTE Band7     | 20        | 22.7            | QPSK       | 50      | 25        | bottom        | 0mm     | 1:1        | 2.282     | 2.83              | 23.6   |            |
| 2560      | 21350  | LTE Band7     | 20        | 22.7            | QPSK       | 50      | 50        | bottom        | 0mm     | 1:1        | 2.063     | 2.83              | 24.1   |            |

For some bands/modes, a lower PLimit was selected as a more conservative evaluation.

**Table A-14 DSI = 1  $P_{Limit}$  Calculations – 5G Phablet SAR**

| Frequency |        | Mode             | Bandwidth | Conducted | Modulation       | RB Size | RB offset | Test Position | Spacing | Duty Cycle | SAR (10g) | SAR design target | PLimit | Min  |
|-----------|--------|------------------|-----------|-----------|------------------|---------|-----------|---------------|---------|------------|-----------|-------------------|--------|------|
| MHz       | Ch.    |                  | [MHz]     | [dBm]     |                  |         |           |               |         |            | [W/kg]    | [W/kg]            |        |      |
| 680.5     | 136100 | NR Band n71      | 20        | 25        | DFT-s-OFDM-QPSK  | 1       | 1         | back          | 0mm     | 1:1        | 0.256     | 2.83              | 35.4   | 32.8 |
| 680.5     | 136100 | NR Band n71      | 20        | 25        | CP-OFDM-QPSK     | 1       | 1         | back          | 0mm     | 1:1        | 0.186     | 2.83              | 36.8   |      |
| 680.5     | 136100 | NR Band n71      | 20        | 25        | DFT-s-OFDM-QPSK  | 1       | 1         | front         | 0mm     | 1:1        | 0.219     | 2.83              | 36.1   |      |
| 680.5     | 136100 | NR Band n71      | 20        | 25        | CP-OFDM-QPSK     | 1       | 1         | front         | 0mm     | 1:1        | 0.184     | 2.83              | 36.9   |      |
| 680.5     | 136100 | NR Band n71      | 20        | 25        | DFT-s-OFDM-QPSK  | 1       | 1         | bottom        | 0mm     | 1:1        | 0.057     | 2.83              | 42.0   |      |
| 680.5     | 136100 | NR Band n71      | 20        | 25        | CP-OFDM-QPSK     | 1       | 1         | bottom        | 0mm     | 1:1        | 0.049     | 2.83              | 42.7   |      |
| 680.5     | 136100 | NR Band n71      | 20        | 25        | DFT-s-OFDM-QPSK  | 1       | 1         | right         | 0mm     | 1:1        | 0.467     | 2.83              | 32.8   |      |
| 680.5     | 136100 | NR Band n71      | 20        | 25        | CP-OFDM-QPSK     | 1       | 1         | right         | 0mm     | 1:1        | 0.343     | 2.83              | 34.2   |      |
| 1880      | 376000 | NR Band n25(2)   | 20        | 25        | DFT-s-OFDM-QPSK  | 1       | 53        | right         | 0mm     | 1:1        | 4.599     | 2.83              | 22.9   | 22.9 |
| 1880      | 376000 | NR Band n25(2)   | 20        | 25        | CP-OFDM-QPSK     | 1       | 0         | right         | 0mm     | 1:1        | 4.549     | 2.83              | 22.9   |      |
| 1880      | 376000 | NR Band n25(2)   | 20        | 25        | DFT-s-OFDM-QPSK  | 1       | 53        | back          | 0mm     | 1:1        | 3.015     | 2.83              | 24.7   |      |
| 1880      | 376000 | NR Band n25(2)   | 20        | 25        | CP-OFDM-QPSK     | 1       | 0         | back          | 0mm     | 1:1        | 2.958     | 2.83              | 24.8   |      |
| 1880      | 376000 | NR Band n25(2)   | 20        | 25        | DFT-s-OFDM-QPSK  | 1       | 53        | front         | 0mm     | 1:1        | 2.963     | 2.83              | 24.8   |      |
| 1880      | 376000 | NR Band n25(2)   | 20        | 25        | CP-OFDM-QPSK     | 1       | 0         | front         | 0mm     | 1:1        | 3.036     | 2.83              | 24.7   |      |
| 1880      | 376000 | NR Band n25(2)   | 20        | 25        | DFT-s-OFDM-QPSK  | 1       | 53        | bottom        | 0mm     | 1:1        | 2.576     | 2.83              | 25.4   |      |
| 1880      | 376000 | NR Band n25(2)   | 20        | 25        | CP-OFDM-QPSK     | 1       | 0         | bottom        | 0mm     | 1:1        | 2.463     | 2.83              | 25.6   |      |
| 1745      | 349000 | NR Band n66      | 20        | 25        | DFT-s-OFDM-QPSK  | 1       | 53        | right         | 0mm     | 1:1        | 4.641     | 2.83              | 22.9   |      |
| 1745      | 349000 | NR Band n66      | 20        | 25        | CP-OFDM-QPSK     | 1       | 0         | right         | 0mm     | 1:1        | 4.539     | 2.83              | 22.9   |      |
| 1745      | 349000 | NR Band n66      | 20        | 25        | DFT-s-OFDM-QPSK  | 1       | 53        | back          | 0mm     | 1:1        | 3.285     | 2.83              | 24.4   | 22.9 |
| 1745      | 349000 | NR Band n66      | 20        | 25        | CP-OFDM-QPSK     | 1       | 0         | back          | 0mm     | 1:1        | 3.354     | 2.83              | 24.3   |      |
| 1745      | 349000 | NR Band n66      | 20        | 25        | DFT-s-OFDM-QPSK  | 1       | 53        | front         | 0mm     | 1:1        | 3.151     | 2.83              | 24.5   |      |
| 1745      | 349000 | NR Band n66      | 20        | 25        | CP-OFDM-QPSK     | 1       | 0         | front         | 0mm     | 1:1        | 3.278     | 2.83              | 24.4   |      |
| 1745      | 349000 | NR Band n66      | 20        | 25        | DFT-s-OFDM-QPSK  | 1       | 53        | bottom        | 0mm     | 1:1        | 1.910     | 2.83              | 26.7   |      |
| 1745      | 349000 | NR Band n66      | 20        | 25        | CP-OFDM-QPSK     | 1       | 0         | bottom        | 0mm     | 1:1        | 2.029     | 2.83              | 26.4   |      |
| 2593      | 518598 | NR Band n41(PC2) | 100       | 27.2      | DFT-s-OFDM-QPSK  | 1       | 136       | right         | 0mm     | 1:4.29     | 1.676     | 2.83              | 23.2   | 23.2 |
| 2593      | 518598 | NR Band n41(PC2) | 100       | 27.2      | DFT-s-OFDM-16QAM | 1       | 136       | right         | 0mm     | 1:4.29     | 1.631     | 2.83              | 23.3   |      |
| 2593      | 518598 | NR Band n41(PC2) | 100       | 27.2      | DFT-s-OFDM-QPSK  | 1       | 136       | back          | 0mm     | 1:4.29     | 1.237     | 2.83              | 24.5   |      |
| 2593      | 518598 | NR Band n41(PC2) | 100       | 27.2      | DFT-s-OFDM-16QAM | 1       | 136       | back          | 0mm     | 1:4.29     | 1.241     | 2.83              | 24.5   |      |
| 2593      | 518598 | NR Band n41(PC2) | 100       | 27.2      | DFT-s-OFDM-QPSK  | 1       | 136       | front         | 0mm     | 1:4.29     | 1.233     | 2.83              | 24.5   |      |
| 2593      | 518598 | NR Band n41(PC2) | 100       | 27.2      | DFT-s-OFDM-16QAM | 1       | 136       | front         | 0mm     | 1:4.29     | 1.216     | 2.83              | 24.5   |      |
| 2593      | 518598 | NR Band n41(PC2) | 100       | 27.2      | DFT-s-OFDM-QPSK  | 1       | 136       | bottom        | 0mm     | 1:4.29     | 0.753     | 2.83              | 26.6   |      |
| 2593      | 518598 | NR Band n41(PC2) | 100       | 27.2      | DFT-s-OFDM-16QAM | 1       | 136       | bottom        | 0mm     | 1:4.29     | 0.704     | 2.83              | 26.9   |      |