



**<LTE Band 41(Power Class 3)>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 22.96                 | 22.95                        | 22.96                    | 22.89                         | 23.92                  | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 23.14                 | 23.14                        | 23.21                    | 23.10                         | 23.13                  |                     |          |
| 20              | QPSK       | 1       | 99        | 23.03                 | 23.15                        | 23.26                    | 23.14                         | 23.26                  |                     |          |
| 20              | QPSK       | 50      | 0         | 21.56                 | 21.55                        | 21.65                    | 21.55                         | 21.57                  | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.58                 | 21.57                        | 21.75                    | 21.64                         | 21.68                  |                     |          |
| 20              | QPSK       | 50      | 50        | 21.63                 | 21.63                        | 21.79                    | 21.66                         | 21.67                  |                     |          |
| 20              | QPSK       | 100     | 0         | 21.54                 | 21.53                        | 21.70                    | 21.61                         | 21.60                  | 23                  | 1        |
| 20              | 16QAM      | 1       | 0         | 22.08                 | 22.09                        | 22.09                    | 22.04                         | 23.00                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 22.24                 | 22.26                        | 22.32                    | 22.25                         | 22.24                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 22.12                 | 22.24                        | 22.36                    | 22.27                         | 22.38                  | 22                  | 2        |
| 20              | 16QAM      | 50      | 0         | 20.67                 | 20.65                        | 20.75                    | 20.64                         | 20.64                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 20.70                 | 20.69                        | 20.87                    | 20.76                         | 20.75                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 20.72                 | 20.74                        | 20.87                    | 20.78                         | 20.75                  | 22                  | 2        |
| 20              | 16QAM      | 100     | 0         | 20.61                 | 20.64                        | 20.80                    | 20.70                         | 20.71                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 20.82                 | 20.82                        | 20.82                    | 20.78                         | 21.83                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 21.00                 | 21.01                        | 21.08                    | 20.98                         | 21.00                  | 22                  | 2        |
| 20              | 64QAM      | 1       | 99        | 20.88                 | 21.00                        | 21.12                    | 21.01                         | 21.10                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 19.67                 | 19.63                        | 19.73                    | 19.66                         | 19.63                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 19.65                 | 19.66                        | 19.82                    | 19.75                         | 19.77                  | 21                  | 3        |
| 20              | 64QAM      | 50      | 50        | 19.70                 | 19.74                        | 19.88                    | 19.76                         | 19.76                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 19.63                 | 19.65                        | 19.79                    | 19.73                         | 19.73                  |                     |          |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 23.03                 | 23.03                        | 23.05                    | 22.96                         | 22.89                  | 24                  | 0        |
| 15              | QPSK       | 1       | 37        | 23.09                 | 23.13                        | 23.21                    | 23.11                         | 23.15                  |                     |          |
| 15              | QPSK       | 1       | 74        | 23.09                 | 23.10                        | 23.28                    | 23.13                         | 23.15                  |                     |          |
| 15              | QPSK       | 36      | 0         | 21.55                 | 21.55                        | 21.63                    | 21.56                         | 21.57                  | 23                  | 1        |
| 15              | QPSK       | 36      | 20        | 21.67                 | 21.68                        | 21.74                    | 21.68                         | 21.69                  |                     |          |
| 15              | QPSK       | 36      | 39        | 21.57                 | 21.60                        | 21.75                    | 21.66                         | 21.70                  |                     |          |
| 15              | QPSK       | 75      | 0         | 21.61                 | 21.63                        | 21.70                    | 21.61                         | 21.68                  | 23                  | 1        |
| 15              | 16QAM      | 1       | 0         | 22.12                 | 22.17                        | 22.17                    | 22.10                         | 22.00                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 22.21                 | 22.26                        | 22.34                    | 22.23                         | 22.25                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 22.19                 | 22.24                        | 22.41                    | 22.27                         | 22.28                  | 22                  | 2        |
| 15              | 16QAM      | 36      | 0         | 20.61                 | 20.60                        | 20.73                    | 20.63                         | 20.64                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 20.75                 | 20.70                        | 20.82                    | 20.71                         | 20.75                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 20.63                 | 20.64                        | 20.81                    | 20.68                         | 20.78                  | 22                  | 2        |
| 15              | 16QAM      | 75      | 0         | 20.73                 | 20.70                        | 20.78                    | 20.71                         | 20.76                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 20.87                 | 20.90                        | 20.90                    | 20.83                         | 20.75                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 20.98                 | 21.00                        | 21.09                    | 21.01                         | 21.02                  | 22                  | 2        |
| 15              | 64QAM      | 1       | 74        | 20.92                 | 21.00                        | 21.12                    | 21.05                         | 21.02                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 19.64                 | 19.62                        | 19.76                    | 19.62                         | 19.66                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 19.75                 | 19.71                        | 19.84                    | 19.76                         | 19.77                  | 21                  | 3        |
| 15              | 64QAM      | 36      | 39        | 19.69                 | 19.65                        | 19.83                    | 19.72                         | 19.82                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 19.71                 | 19.71                        | 19.80                    | 19.71                         | 19.73                  |                     |          |



| Channel         |       |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
|-----------------|-------|----|----|--------|--------|-------|---------|--------|---------------------------|-------------|
| Frequency (MHz) |       |    |    | 2501   | 2547   | 2593  | 2639    | 2685   |                           |             |
| 10              | QPSK  | 1  | 0  | 23.04  | 23.04  | 23.07 | 22.99   | 23.68  | 24                        | 0           |
| 10              | QPSK  | 1  | 25 | 23.17  | 23.09  | 23.20 | 23.12   | 23.19  |                           |             |
| 10              | QPSK  | 1  | 49 | 23.10  | 23.16  | 23.24 | 23.16   | 23.78  |                           |             |
| 10              | QPSK  | 25 | 0  | 21.65  | 21.52  | 21.65 | 21.57   | 21.79  | 23                        | 1           |
| 10              | QPSK  | 25 | 12 | 21.62  | 21.65  | 21.74 | 21.65   | 21.74  |                           |             |
| 10              | QPSK  | 25 | 25 | 21.64  | 21.62  | 21.73 | 21.63   | 21.89  |                           |             |
| 10              | QPSK  | 50 | 0  | 21.62  | 21.61  | 21.73 | 21.64   | 21.87  |                           |             |
| 10              | 16QAM | 1  | 0  | 22.15  | 22.17  | 22.25 | 22.15   | 22.84  | 23                        | 1           |
| 10              | 16QAM | 1  | 25 | 22.27  | 22.22  | 22.35 | 22.24   | 22.33  |                           |             |
| 10              | 16QAM | 1  | 49 | 22.19  | 22.26  | 22.36 | 22.25   | 22.91  |                           |             |
| 10              | 16QAM | 25 | 0  | 20.74  | 20.64  | 20.78 | 20.68   | 20.95  | 22                        | 2           |
| 10              | 16QAM | 25 | 12 | 20.73  | 20.75  | 20.86 | 20.80   | 20.86  |                           |             |
| 10              | 16QAM | 25 | 25 | 20.73  | 20.72  | 20.84 | 20.74   | 21.01  |                           |             |
| 10              | 16QAM | 50 | 0  | 20.71  | 20.73  | 20.83 | 20.74   | 20.96  |                           |             |
| 10              | 64QAM | 1  | 0  | 20.92  | 20.95  | 20.98 | 20.90   | 21.57  | 22                        | 2           |
| 10              | 64QAM | 1  | 25 | 21.05  | 20.97  | 21.11 | 21.01   | 21.06  |                           |             |
| 10              | 64QAM | 1  | 49 | 20.95  | 20.99  | 21.09 | 21.00   | 21.67  |                           |             |
| 10              | 64QAM | 25 | 0  | 19.76  | 19.67  | 19.82 | 19.75   | 19.96  | 21                        | 3           |
| 10              | 64QAM | 25 | 12 | 19.80  | 19.74  | 19.91 | 19.82   | 19.91  |                           |             |
| 10              | 64QAM | 25 | 25 | 19.79  | 19.78  | 19.90 | 19.78   | 20.03  |                           |             |
| 10              | 64QAM | 50 | 0  | 19.73  | 19.68  | 19.82 | 19.77   | 19.99  |                           |             |
| Channel         |       |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |       |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                           |             |
| 5               | QPSK  | 1  | 0  | 23.06  | 23.09  | 23.13 | 23.06   | 23.16  | 24                        | 0           |
| 5               | QPSK  | 1  | 12 | 23.12  | 23.16  | 23.19 | 23.13   | 23.19  |                           |             |
| 5               | QPSK  | 1  | 24 | 23.11  | 23.05  | 23.17 | 23.11   | 23.18  |                           |             |
| 5               | QPSK  | 12 | 0  | 21.63  | 21.70  | 21.72 | 21.60   | 21.69  | 23                        | 1           |
| 5               | QPSK  | 12 | 7  | 21.70  | 21.61  | 21.73 | 21.69   | 21.75  |                           |             |
| 5               | QPSK  | 12 | 13 | 21.71  | 21.65  | 21.75 | 21.65   | 21.72  |                           |             |
| 5               | QPSK  | 25 | 0  | 21.66  | 21.59  | 21.72 | 21.67   | 21.70  |                           |             |
| 5               | 16QAM | 1  | 0  | 22.16  | 22.21  | 22.24 | 22.16   | 22.25  | 23                        | 1           |
| 5               | 16QAM | 1  | 12 | 22.23  | 22.29  | 22.32 | 22.25   | 22.29  |                           |             |
| 5               | 16QAM | 1  | 24 | 22.25  | 22.21  | 22.34 | 22.27   | 22.30  |                           |             |
| 5               | 16QAM | 12 | 0  | 20.68  | 20.73  | 20.76 | 20.68   | 20.72  | 22                        | 2           |
| 5               | 16QAM | 12 | 7  | 20.76  | 20.68  | 20.81 | 20.71   | 20.81  |                           |             |
| 5               | 16QAM | 12 | 13 | 20.75  | 20.69  | 20.83 | 20.74   | 20.80  |                           |             |
| 5               | 16QAM | 25 | 0  | 20.79  | 20.69  | 20.85 | 20.76   | 20.82  |                           |             |
| 5               | 64QAM | 1  | 0  | 20.94  | 20.98  | 21.04 | 20.96   | 21.01  | 22                        | 2           |
| 5               | 64QAM | 1  | 12 | 21.00  | 21.05  | 21.07 | 21.00   | 21.08  |                           |             |
| 5               | 64QAM | 1  | 24 | 21.02  | 20.96  | 21.12 | 21.02   | 21.09  |                           |             |
| 5               | 64QAM | 12 | 0  | 19.77  | 19.79  | 19.81 | 19.77   | 19.79  | 21                        | 3           |
| 5               | 64QAM | 12 | 7  | 19.82  | 19.72  | 19.89 | 19.77   | 19.85  |                           |             |
| 5               | 64QAM | 12 | 13 | 19.82  | 19.70  | 19.83 | 19.79   | 19.88  |                           |             |
| 5               | 64QAM | 25 | 0  | 19.81  | 19.70  | 19.84 | 19.78   | 19.88  |                           |             |

**<LTE Carrier Aggregation>**
**General Note:**

1. This device supports Carrier Aggregation on downlink for inter and intra band, on uplink for intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
2. In applying the existing power measurement procedure of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of the frequency band and CCs in each row need consideration, and that configurations require power measurement should be highlighted in the below table.

| 2 bands / 2 CC | 2 bands / 3 CC | 3 bands / 3 CC |
|----------------|----------------|----------------|
| CA_2A-4A       | CA_2A-4A-4A    | CA_2A-4A-5A    |
|                | CA_2A-2A-5A    |                |
| CA_2A_7A       | CA_2A-7A-7A    | CA_2A-4A-7A    |
|                |                | CA_2A-4A-12A   |
| CA_4A_13A      | CA_4A_4A_13A   | CA_2A-4A-13A   |
| CA_2A-13A      | CA_2A-2A-13A   |                |
| CA_2A-29A      |                | CA_2A-4A-29A   |
| CA_4A_30A      |                | CA_2A-4A-30A   |
| CA_4A-71A      |                | CA_2A-4A-71A   |
| CA_2A-71A      |                |                |
| CA_2A-5A       | CA_2A-2A-5A    | CA_2A-5A-30A   |
| CA_5A_30A      |                |                |
| CA_5A_66A      | CA_5A_66A_66A  | CA_2A-5A-66A   |
|                | CA_5A_66B      |                |
|                | CA_5A_66C      |                |
| CA_7A_12A      |                | CA_2A-7A-12A   |
| CA_2A-12A      | CA_2A-2A-12A   | CA_2A-12A-30A  |
| CA_12A_30A     |                |                |
|                | CA_2A_12B      |                |
| CA_12A_66A     | CA_12A_66A_66A | CA_2A_12A_66A  |
|                | CA_12A_66C     |                |
| CA_13A_66A     | CA_13A_66A_66A | CA_2A_13A_66A  |
|                | CA_13A_66B     |                |
|                | CA_13A_66C     |                |
| CA_2A-30A      | CA_2A-2A-30A   | CA_2A_29A_30A  |
| CA_2A-66A      | CA_2A-2A-66A   | CA_2A-66A-71A  |
|                | CA_2A-66A-66A  |                |
|                | CA_2A_66C      |                |
| CA_4A_5A       | CA_4A_4A_5A    | CA_4A_5A_30A   |
| CA_4A_7A       |                | CA_4A-7A-12A   |
| CA_4A_12A      | CA_4A_4A_12A   | CA_4A-12A-30A  |
|                | CA_4A_12B      |                |
| CA_4A_29A      | CA_4A_4A_29A   | CA_4A-29A-30A  |
| CA_30A_66A     |                | CA_5A_30A_66A  |
| CA_25A-26A     |                |                |
| CA_25A-41A     | CA_25A-41C     |                |
| CA_26A-41A     | CA_26A-41C     |                |

|         | Intra-Band Contiguous | Intra-Band non-Contiguous |
|---------|-----------------------|---------------------------|
| Band 2  | CA_2C                 | CA_2A_2A                  |
| Band 4  |                       | CA_4A_4A                  |
| Band 5  | CA_5B                 | CA_5A_5A                  |
| Band 7  |                       | CA_7A_7A                  |
| Band 12 | CA_12B                |                           |
| Band 25 |                       | CA_25A_25A                |
| Band 41 | CA_41C                | CA_41A_41A                |
|         | CA_41D                | CA_41C_41A                |
|         |                       |                           |
| Band 66 | CA_66B                | CA_66A_66A                |
|         | CA_66C                |                           |

### <Power verification when LTE Carrier Aggregation Active>

#### General Note:

- According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- The device supports downlink two carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- The device supports uplink carrier aggregation for LTE B41C with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the above 3GPP requirement.
- According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- Uplink CA is only operating with power class 3 for LTE B41, and additional SAR measurement for TLE UL CA whit other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA\_41C active.
- For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band.
- For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1|BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)}|}{0.6} \right\rceil 0.3 \text{ [MHz]}$$

**<Two Carrier power verification>**

| Configure  |                | CA Configuration (BCS) | PCC      |          |                |            |      |        |              | SCC      |          |                |            | Power                  |                       |
|------------|----------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band |                | CA_25A-26A             | 25       | 20       | 1860           | 26140      | QPSK | 1      | 0            | 26       | 15       | 876.5          | 8865       | 23.24                  | 23.26                 |
|            |                |                        | 26       | 15       | 831.5          | 26865      | QPSK | 1      | 37           | 25       | 20       | 1960           | 8340       | 22.72                  | 22.73                 |
| Intra-Band | Non-Contiguous | CA_2A-2A               | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 2        | 5        | 1987.5         | 1175       | 23.26                  | 23.25                 |
|            |                | CA_4A-4A               | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 4        | 5        | 2152.5         | 2375       | 22.83                  | 22.84                 |
|            |                | CA_5A-5A               | 5        | 10       | 829            | 20450      | QPSK | 1      | 0            | 5        | 5        | 891.5          | 2625       | 22.84                  | 22.84                 |
|            |                | CA_7A-7A               | 7        | 20       | 2560           | 21350      | QPSK | 1      | 99           | 7        | 5        | 2622.5         | 2775       | 22.81                  | 22.83                 |
|            |                | CA_25A-25A             | 25       | 20       | 1860           | 26140      | QPSK | 1      | 0            | 25       | 5        | 1992.5         | 8665       | 23.24                  | 23.26                 |
|            |                | CA_41A-41A             | 41       | 20       | 2680           | 41490      | QPSK | 1      | 0            | 41       | 5        | 2545.8         | 40148      | 23.91                  | 23.92                 |
|            |                | CA_66A-66A             | 66       | 20       | 1770           | 132572     | QPSK | 1      | 0            | 66       | 5        | 2112.5         | 66461      | 22.92                  | 22.93                 |
|            | Contiguous     | CA_2C                  | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 2        | 20       | 1959.8         | 898        | 23.26                  | 23.25                 |
|            |                | CA_5B                  | 5        | 10       | 829            | 20450      | QPSK | 1      | 0            | 5        | 10       | 883.9          | 2549       | 22.84                  | 22.84                 |
|            |                | CA_12B                 | 12       | 10       | 711            | 23130      | QPSK | 1      | 49           | 12       | 5        | 733.8          | 5058       | 22.79                  | 22.78                 |
|            |                | CA_41C                 | 41       | 20       | 2680           | 41490      | QPSK | 1      | 0            | 41       | 20       | 2660.2         | 41292      | 23.91                  | 23.92                 |
|            |                | CA_66B                 | 66       | 15       | 1745           | 132322     | QPSK | 1      | 0            | 66       | 5        | 2154.3         | 66879      | 22.92                  | 22.92                 |
| CA_66C     |                | 66                     | 20       | 1770     | 132572         | QPSK       | 1    | 0      | 66           | 20       | 2170.2   | 67038          | 22.92      | 22.93                  |                       |

**<Three Carrier power verification>**

| Configure  | CA Configuration (BCS) | PCC      |          |                |            |      |        |              | SCC      |          |                |            | SCC2     |          |                |            | Power                  |                       |
|------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | CA_2A-12B              | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 12       | 10       | 740            | 5120       | 12       | 5        | 732.8          | 5048       | 23.26                  | 23.25                 |
|            |                        | 12       | 10       | 711            | 23130      | QPSK | 1      | 49           | 12       | 5        | 733.8          | 5058       | 2        | 20       | 1960           | 900        | 22.79                  | 22.78                 |
|            | CA_2A-66C              | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 66       | 20       | 2155           | 66886      | 66       | 20       | 2174.8         | 67084      | 23.26                  | 23.25                 |
|            |                        | 66       | 20       | 1770           | 132572     | QPSK | 1      | 0            | 66       | 20       | 2170.2         | 67038      | 2        | 20       | 1960           | 900        | 22.92                  | 22.93                 |
|            | CA_5A-66B              | 5        | 10       | 829            | 20450      | QPSK | 1      | 0            | 66       | 15       | 2155           | 66886      | 66       | 5        | 2154.3         | 66879      | 22.84                  | 22.84                 |
|            |                        | 66       | 15       | 1745           | 132322     | QPSK | 1      | 0            | 66       | 5        | 2154.3         | 66879      | 5        | 10       | 881.5          | 2525       | 22.92                  | 22.92                 |
|            | CA_5A-66C              | 5        | 10       | 829            | 20450      | QPSK | 1      | 0            | 66       | 20       | 2155           | 66886      | 66       | 20       | 2174.8         | 67084      | 22.84                  | 22.84                 |
|            |                        | 66       | 20       | 1770           | 132572     | QPSK | 1      | 0            | 66       | 20       | 2170.2         | 67038      | 5        | 10       | 881.5          | 2525       | 22.92                  | 22.93                 |
|            | CA_12A-66C             | 12       | 10       | 711            | 23130      | QPSK | 1      | 49           | 66       | 20       | 2155           | 66886      | 66       | 20       | 2174.8         | 67084      | 22.79                  | 22.78                 |
|            |                        | 66       | 20       | 1770           | 132572     | QPSK | 1      | 0            | 66       | 20       | 2170.2         | 67038      | 12       | 10       | 737.5          | 5095       | 22.92                  | 22.93                 |
|            | CA_13A-66B             | 13       | 10       | 782            | 23230      | QPSK | 1      | 0            | 66       | 15       | 2155           | 66886      | 66       | 5        | 2154.3         | 66879      | 22.74                  | 22.72                 |
|            |                        | 66       | 15       | 1745           | 132322     | QPSK | 1      | 0            | 66       | 5        | 2154.3         | 66879      | 13       | 10       | 751            | 5230       | 22.92                  | 22.92                 |
|            | CA_13A-66C             | 13       | 10       | 782            | 23230      | QPSK | 1      | 0            | 66       | 20       | 2155           | 66886      | 66       | 20       | 2174.8         | 67084      | 22.74                  | 22.72                 |
|            |                        | 66       | 20       | 1770           | 132572     | QPSK | 1      | 0            | 66       | 20       | 2170.2         | 67038      | 13       | 10       | 751            | 5230       | 22.92                  | 22.93                 |
|            | CA_25A-41C             | 25       | 20       | 1860           | 26140      | QPSK | 1      | 0            | 41       | 20       | 2593           | 40620      | 41       | 20       | 2593           | 40620      | 23.24                  | 23.26                 |
|            |                        | 41       | 20       | 2680           | 41490      | QPSK | 1      | 0            | 41       | 20       | 2593           | 40620      | 25       | 20       | 1960           | 8340       | 23.91                  | 23.92                 |
|            | CA_26A-41C             | 26       | 15       | 831.5          | 26865      | QPSK | 1      | 37           | 41       | 20       | 2593           | 40620      | 41       | 20       | 2593           | 40620      | 22.72                  | 22.73                 |
|            |                        | 41       | 20       | 2680           | 41490      | QPSK | 1      | 0            | 41       | 20       | 2593           | 40620      | 26       | 15       | 876.5          | 8865       | 23.91                  | 23.92                 |
|            | CA_2A-4A-5A            | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 5        | 10       | 881.5          | 2525       | 23.26                  | 23.25                 |
|            |                        | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 5        | 10       | 881.5          | 2525       | 22.83                  | 22.84                 |
|            |                        | 5        | 10       | 829            | 20450      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 4        | 20       | 2132.5         | 2175       | 22.84                  | 22.84                 |
|            | CA_2A-4A-7A            | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 7        | 20       | 2655           | 3100       | 23.26                  | 23.25                 |
|            |                        | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 7        | 20       | 2655           | 3100       | 22.83                  | 22.84                 |
|            |                        | 7        | 20       | 2560           | 21350      | QPSK | 1      | 99           | 2        | 20       | 1960           | 900        | 4        | 20       | 2132.5         | 2175       | 22.81                  | 22.83                 |
|            | CA_2A-4A-12A           | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 12       | 10       | 737.5          | 5095       | 23.26                  | 23.25                 |
|            |                        | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 12       | 10       | 737.5          | 5095       | 22.83                  | 22.84                 |
|            |                        | 12       | 10       | 711            | 23130      | QPSK | 1      | 49           | 2        | 20       | 1960           | 900        | 4        | 20       | 2132.5         | 2175       | 22.79                  | 22.78                 |



| Configure  |            |        | CA Configuration (BCS) | PCC      |          |                |            |      |        |              | SCC      |          |                |            | SCC2     |          |                |            | Power                  |                       |
|------------|------------|--------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |            |        |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band |            |        | CA_2A-4A-13A           | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 13       | 10       | 751            | 5230       | 23.26                  | 23.25                 |
|            |            |        |                        | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 13       | 10       | 751            | 5230       | 22.83                  | 22.84                 |
|            |            |        |                        | 13       | 10       | 782            | 23230      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 4        | 20       | 2132.5         | 2175       | 22.74                  | 22.72                 |
|            |            |        | CA_2A-4A-29A           | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 29       | 10       | 722.5          | 9715       | 23.26                  | 23.25                 |
|            |            |        |                        | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 29       | 10       | 722.5          | 9715       | 22.83                  | 22.84                 |
|            |            |        | CA_2A-4A-30A           | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 30       | 10       | 2355           | 9820       | 23.26                  | 23.25                 |
|            |            |        |                        | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 30       | 10       | 2355           | 9820       | 22.83                  | 22.84                 |
|            |            |        |                        | 30       | 10       | 2310           | 27710      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 4        | 20       | 2132.5         | 2175       | 22.73                  | 22.71                 |
|            |            |        | CA_2A-4A-71A           | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 71       | 20       | 637            | 68786      | 23.26                  | 23.25                 |
|            |            |        |                        | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 71       | 20       | 637            | 68786      | 22.83                  | 22.84                 |
|            |            |        |                        | 71       | 20       | 683            | 133322     | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 4        | 20       | 2132.5         | 2175       | 23.19                  | 23.18                 |
|            |            |        | CA_2A-5A-30A           | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 5        | 10       | 881.5          | 2525       | 30       | 10       | 2355           | 9820       | 23.26                  | 23.25                 |
|            |            |        |                        | 5        | 10       | 829            | 20450      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 30       | 10       | 2355           | 9820       | 22.84                  | 22.84                 |
|            |            |        |                        | 30       | 10       | 2310           | 27710      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 5        | 10       | 881.5          | 2525       | 22.73                  | 22.71                 |
|            |            |        | CA_2A-5A-66A           | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 5        | 10       | 881.5          | 2525       | 66       | 20       | 2155           | 66886      | 23.26                  | 23.25                 |
|            |            |        |                        | 5        | 10       | 829            | 20450      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 66       | 20       | 2155           | 66886      | 22.84                  | 22.84                 |
|            |            |        |                        | 66       | 20       | 1770           | 132572     | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 5        | 10       | 881.5          | 2525       | 22.92                  | 22.92                 |
|            |            |        | CA_2A-7A-12A           | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 7        | 20       | 2655           | 3100       | 12       | 10       | 737.5          | 5095       | 23.26                  | 23.25                 |
|            |            |        |                        | 7        | 20       | 2560           | 21350      | QPSK | 1      | 99           | 2        | 20       | 1960           | 900        | 12       | 10       | 737.5          | 5095       | 22.81                  | 22.83                 |
|            |            |        |                        | 12       | 10       | 711            | 23130      | QPSK | 1      | 49           | 2        | 20       | 1960           | 900        | 7        | 20       | 2655           | 3100       | 22.79                  | 22.78                 |
|            |            |        | CA_2A-12A-30A          | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 12       | 10       | 737.5          | 5095       | 30       | 10       | 2355           | 9820       | 23.26                  | 23.25                 |
|            |            |        |                        | 12       | 10       | 711            | 23130      | QPSK | 1      | 49           | 2        | 20       | 1960           | 900        | 30       | 10       | 2355           | 9820       | 22.79                  | 22.78                 |
|            |            |        |                        | 30       | 10       | 2310           | 27710      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 12       | 10       | 737.5          | 5095       | 22.73                  | 22.71                 |
|            |            |        | CA_2A-12A-66A          | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 12       | 10       | 737.5          | 5095       | 66       | 20       | 2155           | 66886      | 23.26                  | 23.25                 |
|            |            |        |                        | 12       | 10       | 711            | 23130      | QPSK | 1      | 49           | 2        | 20       | 1960           | 900        | 66       | 20       | 2155           | 66886      | 22.79                  | 22.78                 |
|            |            |        |                        | 66       | 20       | 1770           | 132572     | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 12       | 10       | 737.5          | 5095       | 22.92                  | 22.92                 |
|            |            |        | CA_2A-13A-66A          | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 13       | 10       | 751            | 5230       | 66       | 20       | 2155           | 66886      | 23.26                  | 23.25                 |
|            |            |        |                        | 13       | 10       | 782            | 23230      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 66       | 20       | 2155           | 66886      | 22.74                  | 22.72                 |
|            |            |        |                        | 66       | 20       | 1770           | 132572     | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 13       | 10       | 751            | 5230       | 22.92                  | 22.92                 |
|            |            |        | CA_2A-29A-30A          | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 29       | 10       | 722.5          | 9715       | 30       | 10       | 2355           | 9820       | 23.26                  | 23.25                 |
|            |            |        |                        | 30       | 10       | 2310           | 27710      | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 29       | 10       | 722.5          | 9715       | 22.73                  | 22.71                 |
|            |            |        | CA_2A-66A-71A          | 2        | 20       | 1860           | 18700      | QPSK | 1      | 0            | 66       | 20       | 2155           | 66886      | 71       | 20       | 637            | 68786      | 23.26                  | 23.25                 |
|            |            |        |                        | 66       | 20       | 1770           | 132572     | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 71       | 20       | 637            | 68786      | 22.92                  | 22.92                 |
|            |            |        |                        | 71       | 20       | 683            | 133322     | QPSK | 1      | 0            | 2        | 20       | 1960           | 900        | 66       | 20       | 2155           | 66886      | 23.19                  | 23.18                 |
|            |            |        | CA_4A-5A-30A           | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 5        | 10       | 881.5          | 2525       | 30       | 10       | 2355           | 9820       | 22.83                  | 22.84                 |
|            |            |        |                        | 5        | 10       | 829            | 20450      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 30       | 10       | 2355           | 9820       | 22.84                  | 22.84                 |
|            |            |        |                        | 30       | 10       | 2310           | 27710      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 5        | 10       | 881.5          | 2525       | 22.73                  | 22.71                 |
|            |            |        | CA_4A-7A-12A           | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 7        | 20       | 2655           | 3100       | 12       | 10       | 737.5          | 5095       | 22.83                  | 22.84                 |
|            |            |        |                        | 7        | 20       | 2560           | 21350      | QPSK | 1      | 99           | 4        | 20       | 2132.5         | 2175       | 12       | 10       | 737.5          | 5095       | 22.81                  | 22.83                 |
|            |            |        |                        | 12       | 10       | 711            | 23130      | QPSK | 1      | 49           | 4        | 20       | 2132.5         | 2175       | 7        | 20       | 2655           | 3100       | 22.79                  | 22.78                 |
|            |            |        | CA_4A-12A-30A          | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 12       | 10       | 737.5          | 5095       | 30       | 10       | 2355           | 9820       | 22.83                  | 22.84                 |
|            |            |        |                        | 12       | 10       | 711            | 23130      | QPSK | 1      | 49           | 4        | 20       | 2132.5         | 2175       | 30       | 10       | 2355           | 9820       | 22.79                  | 22.78                 |
|            |            |        |                        | 30       | 10       | 2310           | 27710      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 12       | 10       | 737.5          | 5095       | 22.73                  | 22.71                 |
|            |            |        | CA_4A-29A-30A          | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 29       | 10       | 722.5          | 9715       | 30       | 10       | 2355           | 9820       | 22.83                  | 22.84                 |
|            |            |        |                        | 30       | 10       | 2310           | 27710      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 4        | 20       | 2132.5         | 2175       | 22.73                  | 22.71                 |
|            |            |        | CA_5A-30A-66A          | 5        | 10       | 836.5          | 20525      | QPSK | 1      | 0            | 30       | 10       | 2355           | 9820       | 66       | 20       | 2155           | 66886      | 22.84                  | 22.84                 |
|            |            |        |                        | 30       | 10       | 2310           | 27710      | QPSK | 1      | 0            | 5        | 10       | 881.5          | 2525       | 66       | 20       | 2155           | 66886      | 22.73                  | 22.71                 |
|            |            |        |                        | 66       | 20       | 1770           | 132572     | QPSK | 1      | 0            | 5        | 10       | 881.5          | 2525       | 30       | 10       | 2355           | 9820       | 22.92                  | 22.92                 |
| Intra-Band | Contiguous | CA_41D | 41                     | 20       | 2680     | 41490          | QPSK       | 1    | 0      | 41           | 20       | 2593     | 40620          | 41         | 20       | 2593     | 40620          | 23.91      | 23.92                  |                       |

**<Uplink carrier aggregation power measurement>**

| CA_41C Full Power                     |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.04                | 24                  |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.14                | 24                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.99                | 24                  |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.13                | 24                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.1                 | 24                  |

| CA_41C Reduced Power                  |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.53                | 20                  |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.64                | 20                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.33                | 20                  |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.39                | 20                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.6                 | 20                  |

**<WLAN Conducted Power>****General Note:**

3. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
4. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
5. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
6. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.<sup>18</sup> The initial test position procedure is described in the following:
  - a. When the reported SAR of the initial test position is  $\leq 0.4$  W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
  - b. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
  - c. For all positions/configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.

### <Default Power Mode>

#### <2.4GHz WLAN>

|             | Mode              | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|-------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | 802.11b 1Mbps     | 1       | 2412            | 20.81               | 21.00         | 99.42        |
|             |                   | 6       | 2437            | 19.74               | 21.00         |              |
|             |                   | 11      | 2462            | 20.70               | 21.00         |              |
|             | 802.11g 6Mbps     | 1       | 2412            | 18.70               | 19.00         | 94.95        |
|             |                   | 6       | 2437            | 18.80               | 19.00         |              |
|             |                   | 11      | 2462            | 18.60               | 19.00         |              |
|             | 802.11n-HT20 MCS0 | 1       | 2412            | 18.96               | 19.00         | 95.89        |
|             |                   | 6       | 2437            | 18.62               | 19.00         |              |
|             |                   | 11      | 2462            | 18.88               | 19.00         |              |

#### <5GHz WLAN>

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180            | 19.99               | 20.00         | 93.64        |
|             |                     | 40      | 5200            | 19.90               | 20.00         |              |
|             |                     | 44      | 5220            | 19.87               | 20.00         |              |
|             |                     | 48      | 5240            | 19.97               | 20.00         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 19.93               | 20.00         | 96.33        |
|             |                     | 40      | 5200            | 19.77               | 20.00         |              |
|             |                     | 44      | 5220            | 19.72               | 20.00         |              |
|             |                     | 48      | 5240            | 19.74               | 20.00         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 18.95               | 19.00         | 93.90        |
|             |                     | 46      | 5230            | 18.71               | 19.00         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 19.84               | 20.00         | 96.33        |
|             |                     | 40      | 5200            | 19.75               | 20.00         |              |
|             |                     | 44      | 5220            | 19.71               | 20.00         |              |
|             |                     | 48      | 5240            | 19.72               | 20.00         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 18.94               | 19.00         | 93.90        |
|             |                     | 46      | 5230            | 18.69               | 19.00         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 17.83               | 18.00         | 87.06        |

| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 52      | 5260            | 19.95               | 20.00         | 93.64        |
|             |                     | 56      | 5280            | 19.80               | 20.00         |              |
|             |                     | 60      | 5300            | 19.97               | 20.00         |              |
|             |                     | 64      | 5320            | 19.98               | 20.00         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 19.74               | 20.00         | 96.33        |
|             |                     | 56      | 5280            | 19.71               | 20.00         |              |
|             |                     | 60      | 5300            | 19.68               | 20.00         |              |
|             |                     | 64      | 5320            | 19.80               | 20.00         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 18.82               | 19.00         | 93.90        |
|             |                     | 62      | 5310            | 18.84               | 19.00         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 19.73               | 20.00         | 96.33        |
|             |                     | 56      | 5280            | 19.65               | 20.00         |              |
|             |                     | 60      | 5300            | 19.66               | 20.00         |              |
|             |                     | 64      | 5320            | 19.79               | 20.00         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 18.81               | 19.00         | 93.90        |
|             |                     | 62      | 5310            | 18.82               | 19.00         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 17.93               | 18.00         | 87.06        |

| 5.5GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 100     | 5500            | 19.96               | 20.00         | 93.64        |
|             |                     | 116     | 5580            | 19.75               | 20.00         |              |
|             |                     | 132     | 5660            | 19.61               | 20.00         |              |
|             |                     | 144     | 5720            | 19.95               | 20.00         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 19.77               | 20.00         | 96.33        |
|             |                     | 116     | 5580            | 19.97               | 20.00         |              |
|             |                     | 132     | 5660            | 19.91               | 20.00         |              |
|             |                     | 144     | 5720            | 19.96               | 20.00         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 18.97               | 19.00         | 93.90        |
|             |                     | 110     | 5550            | 18.99               | 19.00         |              |
|             |                     | 134     | 5670            | 18.99               | 19.00         |              |
|             |                     | 142     | 5710            | 18.97               | 19.00         |              |
|             | 802.11ac-VHT20 MCS0 | 100     | 5500            | 19.73               | 20.00         | 96.33        |
|             |                     | 116     | 5580            | 19.91               | 20.00         |              |
|             |                     | 132     | 5660            | 19.90               | 20.00         |              |
|             |                     | 144     | 5720            | 19.93               | 20.00         |              |
|             | 802.11ac-VHT40 MCS0 | 102     | 5510            | 18.96               | 19.00         | 93.90        |
|             |                     | 110     | 5550            | 18.93               | 19.00         |              |
|             |                     | 134     | 5670            | 18.71               | 19.00         |              |
|             |                     | 142     | 5710            | 18.96               | 19.00         |              |
|             | 802.11ac-VHT80 MCS0 | 106     | 5530            | 17.72               | 18.00         | 87.06        |
|             |                     | 138     | 5690            | 17.80               | 18.00         |              |

| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a MCS0        | 149     | 5745            | 19.89               | 20.00         | 93.64        |
|             |                     | 157     | 5785            | 19.99               | 20.00         |              |
|             |                     | 165     | 5825            | 19.98               | 20.00         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 19.99               | 20.00         | 96.33        |
|             |                     | 157     | 5785            | 19.81               | 20.00         |              |
|             |                     | 165     | 5825            | 19.77               | 20.00         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 18.76               | 19.00         | 93.90        |
|             |                     | 159     | 5795            | 18.98               | 19.00         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 19.66               | 20.00         | 96.33        |
|             |                     | 157     | 5785            | 19.78               | 20.00         |              |
|             |                     | 165     | 5825            | 19.73               | 20.00         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 18.71               | 19.00         | 93.90        |
|             |                     | 159     | 5795            | 18.87               | 19.00         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 17.89               | 18.00         | 87.06        |

**<At-Head Power Mode>**
**<2.4GHz WLAN>**

|             | Mode              | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|-------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | 802.11b 1Mbps     | 1       | 2412            | 16.48               | 18.00         | 99.42        |
|             |                   | 6       | 2437            | 16.49               | 18.00         |              |
|             |                   | 11      | 2462            | 16.49               | 18.00         |              |
|             | 802.11g 6Mbps     | 1       | 2412            | 16.14               | 18.00         | 94.95        |
|             |                   | 6       | 2437            | 16.09               | 18.00         |              |
|             |                   | 11      | 2462            | 16.13               | 18.00         |              |
|             | 802.11n-HT20 MCS0 | 1       | 2412            | 16.41               | 18.00         | 95.89        |
|             |                   | 6       | 2437            | 16.39               | 18.00         |              |
|             |                   | 11      | 2462            | 16.36               | 18.00         |              |

**<5GHz WLAN>**

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180            | 15.70               | 16.00         | 93.64        |
|             |                     | 40      | 5200            | 15.69               | 16.00         |              |
|             |                     | 44      | 5220            | 15.67               | 16.00         |              |
|             |                     | 48      | 5240            | 15.64               | 16.00         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 15.98               | 16.00         | 96.33        |
|             |                     | 40      | 5200            | 15.91               | 16.00         |              |
|             |                     | 44      | 5220            | 15.89               | 16.00         |              |
|             |                     | 48      | 5240            | 15.82               | 16.00         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 15.79               | 16.00         | 93.90        |
|             |                     | 46      | 5230            | 15.71               | 16.00         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 15.93               | 16.00         | 96.33        |
|             |                     | 40      | 5200            | 15.88               | 16.00         |              |
|             |                     | 44      | 5220            | 15.82               | 16.00         |              |
|             |                     | 48      | 5240            | 15.73               | 16.00         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 15.76               | 16.00         | 93.90        |
|             |                     | 46      | 5230            | 15.69               | 16.00         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 15.99               | 16.00         | 87.06        |



|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | 802.11a 6Mbps       | 52      | 5260            | 15.80               | 16.00         | 93.64        |
|             |                     | 56      | 5280            | 15.70               | 16.00         |              |
|             |                     | 60      | 5300            | 15.71               | 16.00         |              |
|             |                     | 64      | 5320            | 15.73               | 16.00         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 15.91               | 16.00         | 96.33        |
|             |                     | 56      | 5280            | 15.86               | 16.00         |              |
|             |                     | 60      | 5300            | 15.87               | 16.00         |              |
|             |                     | 64      | 5320            | 15.88               | 16.00         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 15.75               | 16.00         | 93.90        |
|             |                     | 62      | 5310            | 15.91               | 16.00         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 15.82               | 16.00         | 96.33        |
|             |                     | 56      | 5280            | 15.77               | 16.00         |              |
|             |                     | 60      | 5300            | 15.79               | 16.00         |              |
|             |                     | 64      | 5320            | 15.80               | 16.00         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 15.72               | 16.00         | 93.90        |
|             |                     | 62      | 5310            | 15.89               | 16.00         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 15.70               | 16.00         | 87.06        |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | 802.11a 6Mbps       | 100     | 5500            | 15.85               | 16.00         | 93.64        |
|             |                     | 116     | 5580            | 15.91               | 16.00         |              |
|             |                     | 132     | 5660            | 15.87               | 16.00         |              |
|             |                     | 144     | 5720            | 15.97               | 16.00         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 15.89               | 16.00         | 96.33        |
|             |                     | 116     | 5580            | 15.67               | 16.00         |              |
|             |                     | 132     | 5660            | 15.75               | 16.00         |              |
|             |                     | 144     | 5720            | 15.68               | 16.00         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 15.75               | 16.00         | 93.90        |
|             |                     | 110     | 5550            | 15.93               | 16.00         |              |
|             |                     | 134     | 5670            | 15.82               | 16.00         |              |
|             |                     | 142     | 5710            | 15.75               | 16.00         |              |
|             | 802.11ac-VHT20 MCS0 | 100     | 5500            | 15.78               | 16.00         | 96.33        |
|             |                     | 116     | 5580            | 15.61               | 16.00         |              |
|             |                     | 132     | 5660            | 15.63               | 16.00         |              |
|             |                     | 144     | 5720            | 15.60               | 16.00         |              |
|             | 802.11ac-VHT40 MCS0 | 102     | 5510            | 15.73               | 16.00         | 93.90        |
|             |                     | 110     | 5550            | 15.92               | 16.00         |              |
|             |                     | 134     | 5670            | 15.80               | 16.00         |              |
|             |                     | 142     | 5710            | 15.73               | 16.00         |              |
|             | 802.11ac-VHT80 MCS0 | 106     | 5530            | 15.60               | 16.00         | 87.06        |
|             |                     | 138     | 5690            | 15.81               | 16.00         |              |

| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a MCS0        | 149     | 5745            | 15.75               | 16.00         | 93.64        |
|             |                     | 157     | 5785            | 15.95               | 16.00         |              |
|             |                     | 165     | 5825            | 15.81               | 16.00         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 15.88               | 16.00         | 96.33        |
|             |                     | 157     | 5785            | 15.67               | 16.00         |              |
|             |                     | 165     | 5825            | 15.59               | 16.00         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 15.73               | 16.00         | 93.90        |
|             |                     | 159     | 5795            | 15.65               | 16.00         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 15.85               | 16.00         | 96.33        |
|             |                     | 157     | 5785            | 15.61               | 16.00         |              |
|             |                     | 165     | 5825            | 15.57               | 16.00         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 15.71               | 16.00         | 93.90        |
|             |                     | 159     | 5795            | 15.64               | 16.00         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 15.95               | 16.00         | 87.06        |

### <Hotspot Power Mode>

#### <2.4GHz WLAN>

| 2.4GHz WLAN | Mode              | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|-------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11b 1Mbps     | 1       | 2412            | 18.85               | 20.50         | 99.42        |
|             |                   | 6       | 2437            | 18.87               | 20.50         |              |
|             |                   | 11      | 2462            | 18.96               | 20.50         |              |
|             | 802.11g 6Mbps     | 1       | 2412            | 18.66               | 19.00         | 94.95        |
|             |                   | 6       | 2437            | 18.74               | 19.00         |              |
|             |                   | 11      | 2462            | 18.61               | 19.00         |              |
|             | 802.11n-HT20 MCS0 | 1       | 2412            | 18.54               | 19.00         | 95.89        |
|             |                   | 6       | 2437            | 18.52               | 19.00         |              |
|             |                   | 11      | 2462            | 18.51               | 19.00         |              |

**<5GHz WLAN>**

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180            | 14.60               | 15.00         | 93.64        |
|             |                     | 40      | 5200            | 14.54               | 15.00         |              |
|             |                     | 44      | 5220            | 14.58               | 15.00         |              |
|             |                     | 48      | 5240            | 14.53               | 15.00         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 14.67               | 15.00         | 96.33        |
|             |                     | 40      | 5200            | 14.69               | 15.00         |              |
|             |                     | 44      | 5220            | 14.70               | 15.00         |              |
|             |                     | 48      | 5240            | 14.62               | 15.00         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 14.85               | 15.00         | 93.90        |
|             |                     | 46      | 5230            | 14.56               | 15.00         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 14.65               | 15.00         | 96.33        |
|             |                     | 40      | 5200            | 14.67               | 15.00         |              |
|             |                     | 44      | 5220            | 14.64               | 15.00         |              |
|             |                     | 48      | 5240            | 14.59               | 15.00         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 14.82               | 15.00         | 93.90        |
|             |                     | 46      | 5230            | 14.52               | 15.00         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 14.99               | 15.00         | 87.06        |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | 802.11a MCS0        | 149     | 5745            | 14.60               | 15.00         | 93.64        |
|             |                     | 157     | 5785            | 14.90               | 15.00         |              |
|             |                     | 165     | 5825            | 14.81               | 15.00         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 14.89               | 15.00         | 96.33        |
|             |                     | 157     | 5785            | 14.61               | 15.00         |              |
|             |                     | 165     | 5825            | 14.82               | 15.00         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 14.69               | 15.00         | 93.90        |
|             |                     | 159     | 5795            | 14.65               | 15.00         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 14.85               | 15.00         | 96.33        |
|             |                     | 157     | 5785            | 14.56               | 15.00         |              |
|             |                     | 165     | 5825            | 14.78               | 15.00         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 14.66               | 15.00         | 93.90        |
|             |                     | 159     | 5795            | 14.62               | 15.00         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 14.88               | 15.00         | 87.06        |

**<Near-body Power Mode>**
**<2.4GHz WLAN>**

|             | Mode              | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|-------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | 802.11b 1Mbps     | 1       | 2412            | 18.85               | 20.50         | 99.42        |
|             |                   | 6       | 2437            | 18.87               | 20.50         |              |
|             |                   | 11      | 2462            | 18.96               | 20.50         |              |
|             | 802.11g 6Mbps     | 1       | 2412            | 18.66               | 19.00         | 94.95        |
|             |                   | 6       | 2437            | 18.74               | 19.00         |              |
|             |                   | 11      | 2462            | 18.61               | 19.00         |              |
|             | 802.11n-HT20 MCS0 | 1       | 2412            | 18.54               | 19.00         | 95.89        |
|             |                   | 6       | 2437            | 18.52               | 19.00         |              |
|             |                   | 11      | 2462            | 18.51               | 19.00         |              |

**<5GHz WLAN>**

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180            | 17.37               | 17.50         | 93.64        |
|             |                     | 40      | 5200            | 17.35               | 17.50         |              |
|             |                     | 44      | 5220            | 17.33               | 17.50         |              |
|             |                     | 48      | 5240            | 17.28               | 17.50         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 17.44               | 17.50         | 96.33        |
|             |                     | 40      | 5200            | 17.42               | 17.50         |              |
|             |                     | 44      | 5220            | 17.41               | 17.50         |              |
|             |                     | 48      | 5240            | 17.39               | 17.50         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 17.30               | 17.50         | 93.90        |
|             |                     | 46      | 5230            | 17.25               | 17.50         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 17.42               | 17.50         | 96.33        |
|             |                     | 40      | 5200            | 17.41               | 17.50         |              |
|             |                     | 44      | 5220            | 17.38               | 17.50         |              |
|             |                     | 48      | 5240            | 17.37               | 17.50         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 17.26               | 17.50         | 93.90        |
|             |                     | 46      | 5230            | 17.22               | 17.50         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 17.20               | 17.50         | 87.06        |



|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | 802.11a 6Mbps       | 52      | 5260            | 17.35               | 17.50         | 93.64        |
|             |                     | 56      | 5280            | 17.26               | 17.50         |              |
|             |                     | 60      | 5300            | 17.23               | 17.50         |              |
|             |                     | 64      | 5320            | 17.32               | 17.50         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 17.43               | 17.50         | 96.33        |
|             |                     | 56      | 5280            | 17.36               | 17.50         |              |
|             |                     | 60      | 5300            | 17.27               | 17.50         |              |
|             |                     | 64      | 5320            | 17.43               | 17.50         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 17.48               | 17.50         | 93.90        |
|             |                     | 62      | 5310            | 17.28               | 17.50         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 17.41               | 17.50         | 96.33        |
|             |                     | 56      | 5280            | 17.34               | 17.50         |              |
|             |                     | 60      | 5300            | 17.26               | 17.50         |              |
|             |                     | 64      | 5320            | 17.39               | 17.50         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 17.45               | 17.50         | 93.90        |
|             |                     | 62      | 5310            | 17.25               | 17.50         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 17.32               | 17.50         | 87.06        |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | 802.11a 6Mbps       | 100     | 5500            | 17.35               | 17.50         | 93.64        |
|             |                     | 116     | 5580            | 17.42               | 17.50         |              |
|             |                     | 132     | 5660            | 17.32               | 17.50         |              |
|             |                     | 144     | 5720            | 17.44               | 17.50         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 17.41               | 17.50         | 96.33        |
|             |                     | 116     | 5580            | 17.19               | 17.50         |              |
|             |                     | 132     | 5660            | 17.37               | 17.50         |              |
|             |                     | 144     | 5720            | 17.14               | 17.50         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 17.45               | 17.50         | 93.90        |
|             |                     | 110     | 5550            | 17.20               | 17.50         |              |
|             |                     | 134     | 5670            | 17.45               | 17.50         |              |
|             |                     | 142     | 5710            | 17.31               | 17.50         |              |
|             | 802.11ac-VHT20 MCS0 | 100     | 5500            | 17.38               | 17.50         | 96.33        |
|             |                     | 116     | 5580            | 17.15               | 17.50         |              |
|             |                     | 132     | 5660            | 17.34               | 17.50         |              |
|             |                     | 144     | 5720            | 17.12               | 17.50         |              |
|             | 802.11ac-VHT40 MCS0 | 102     | 5510            | 17.42               | 17.50         | 93.90        |
|             |                     | 110     | 5550            | 17.19               | 17.50         |              |
|             |                     | 134     | 5670            | 17.42               | 17.50         |              |
|             |                     | 142     | 5710            | 17.29               | 17.50         |              |
|             | 802.11ac-VHT80 MCS0 | 106     | 5530            | 17.40               | 17.50         | 87.06        |
|             |                     | 138     | 5690            | 17.44               | 17.50         |              |

| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a MCS0        | 149     | 5745            | 17.11               | 17.50         | 93.64        |
|             |                     | 157     | 5785            | 17.31               | 17.50         |              |
|             |                     | 165     | 5825            | 17.27               | 17.50         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 17.27               | 17.50         | 96.33        |
|             |                     | 157     | 5785            | 17.09               | 17.50         |              |
|             |                     | 165     | 5825            | 17.42               | 17.50         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 17.15               | 17.50         | 93.90        |
|             |                     | 159     | 5795            | 17.39               | 17.50         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 17.25               | 17.50         | 96.33        |
|             |                     | 157     | 5785            | 17.07               | 17.50         |              |
|             |                     | 165     | 5825            | 17.38               | 17.50         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 17.09               | 17.50         | 93.90        |
|             |                     | 159     | 5795            | 17.36               | 17.50         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 17.49               | 17.50         | 87.06        |

### <2.4GHz Bluetooth>

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |       |
|---------------|---------|-----------------|---------------------|-------|-------|
|               |         |                 | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402            | 9.76                | 7.60  | 7.62  |
|               | CH 39   | 2441            | 8.86                | 6.12  | 6.14  |
|               | CH 78   | 2480            | 8.28                | 6.11  | 6.11  |
| Tune-up Limit |         |                 | 10                  | 10    | 10    |

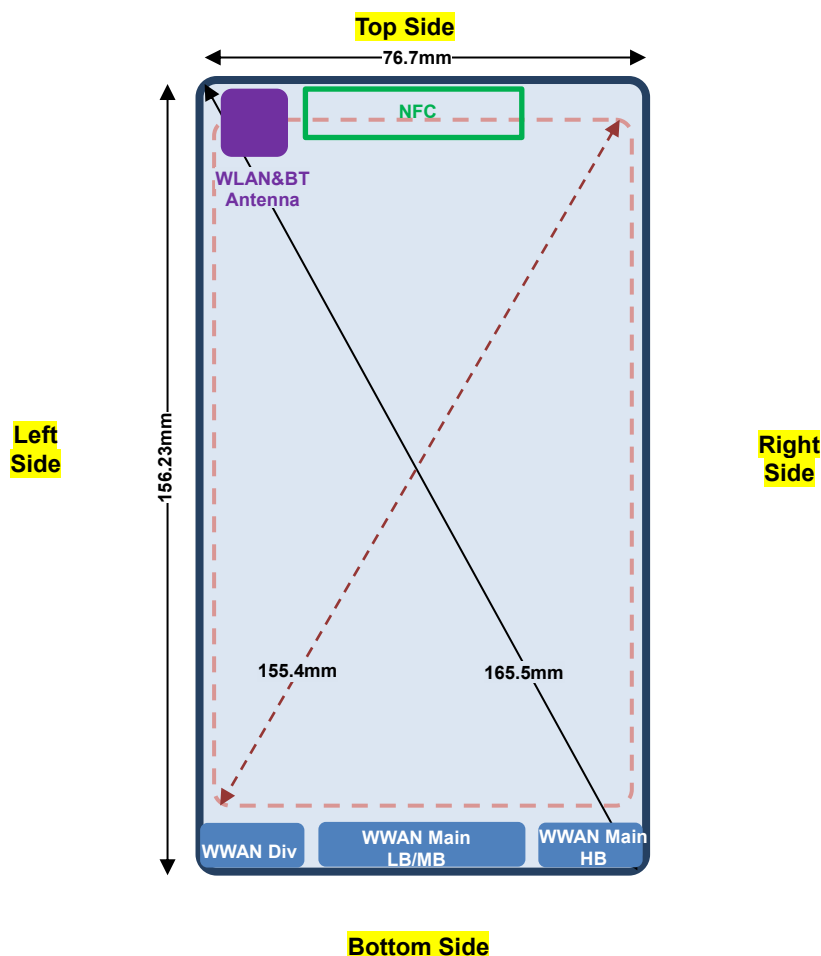
| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |
|---------------|---------|-----------------|---------------------|-------|
|               |         |                 | 1Mbps               | 2Mbps |
| LE            | CH 00   | 2402            | 9.36                | 9.33  |
|               | CH 19   | 2440            | 8.33                | 8.27  |
|               | CH 39   | 2480            | 7.89                | 7.84  |
| Tune-up Limit |         |                 | 10                  | 10    |

### General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 77.13% considered in SAR testing.

### 13. Antenna Location

<Mobile Phone>



**Front View**

| Distance of the Antenna to the EUT surface/edge |        |        |          |             |            |           |
|-------------------------------------------------|--------|--------|----------|-------------|------------|-----------|
| Antennas                                        | Back   | Front  | Top Side | Bottom Side | Right Side | Left Side |
| WWAN Main_LB/MB                                 | ≤ 25mm | ≤ 25mm | >25mm    | ≤ 25mm      | ≤ 25mm     | ≤ 25mm    |
| WWAN Main_HB                                    | ≤ 25mm | ≤ 25mm | >25mm    | ≤ 25mm      | >25mm      | ≤ 25mm    |
| WWAN Div                                        | ≤ 25mm | ≤ 25mm | >25mm    | ≤ 25mm      | ≤ 25mm     | >25mm     |
| BT&WLAN                                         | ≤ 25mm | ≤ 25mm | ≤ 25mm   | >25mm       | >25mm      | ≤ 25mm    |

| Positions for SAR tests; Hotspot mode |      |       |          |             |            |           |
|---------------------------------------|------|-------|----------|-------------|------------|-----------|
| Antennas                              | Back | Front | Top Side | Bottom Side | Right Side | Left Side |
| WWAN Main_LB/MB                       | Yes  | Yes   | No       | Yes         | Yes        | Yes       |
| WWAN Main_HB                          | Yes  | Yes   | No       | Yes         | No         | Yes       |
| WWAN Div                              | Yes  | Yes   | No       | Yes         | Yes        | No        |
| BT&WLAN                               | Yes  | Yes   | Yes      | No          | No         | Yes       |

**General Note:**

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are < 9cm\*5cm, the test distance is 5 mm. SAR must be measured for all sides and surfaces.
- The WWAN Div antenna only supports LTE B7/B30/B38/B41.
- LB: Low Band as 1GHz below, MB: middle band as 2GHz below, HB: high band as 2GHz above.

## 14. SAR Test Results

### General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
  - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
  - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
  - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)\* Duty Cycle scaling factor \* Tune-up scaling factor
  - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - $\leq 0.8$  W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq 100$  MHz
  - $\leq 0.6$  W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
  - $\leq 0.4$  W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\geq 200$  MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$ W/kg.
4. Pre KDB648474 D04v01r03, when the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is  $> 1.2$  W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.
5. While the device operating in near-body condition by end user, the device will limit different maximum output powers on the GSM1900, WCDMA B2 / B4 / B5, CDMA BC0 / BC1 / BC10 and LTE B2 / B4 / B5 / B7 / B14 / B25 / B26 / B30 / B66 / B38 / B41 transmitter and detail descriptions of the power reduction mechanism are included in the operational description.
6. While the device operating in mobile hotspot session, the device will reduced output powers on the GSM1900, WCDMA B2 / B4 / B5, CDMA BC0 / BC1 / BC10 and LTE B2 / B4 / B5 / B7 / B14 / B25 / B26 / B30 / B66 / B38 / B41 transmitter and detail descriptions of the power reduction mechanism are included in the operational description.
7. While the device operating in handheld condition, the device will limit different maximum output powers on the WCDMA B2 / B4, CDMA BC1 and LTE B2 / B4 / B5 / B7 / B14 / B25 / B26 / B30 / B66 transmitter and detail descriptions of the power reduction mechanism are included in the operational description.
8. While the device operating in Held to head, near-body and mobile hotspot session, the device will limit different maximum output powers on the WLAN transmitter and detail descriptions of the power reduction mechanism are included in the operational description.
9. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension  $> 15.0$  cm or an overall diagonal dimension  $> 16.0$  cm, when hotspot mode applies, 10-g product specific SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR  $> 1.2$  W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
10. For 5.3GHz / 5.5GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is  $> 16$ cm.

### GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (2Tx slots) for GSM850 and GPRS (3Tx slots) for GSM1900 are considered as the primary mode.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4$  dB higher than the primary mode, SAR measurement is not required for the secondary mode.

**UMTS Note:**

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than  $\frac{1}{4}$  dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

**CDMA Note:**

1. Per KDB 941225 D01v03r01, SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

**LTE Note:**

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B12 / B26 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 2 / 4 / 5 / 17 / 38 SAR test was covered by Band 12 / 25 / 26 / 41 / 66; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. The maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion.
  - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

**WLAN Note:**

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

# **14.1 Head SAR**

## **<GSM SAR>**

| Plot No. | Band    | Mode              | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | GSM850  | GPRS (2 Tx slots) | Right Cheek   | 0mm      | OFF             | 251 | 848.8       | 31.55               | 32.00               | 1.109                  | -0.19            | 0.075                  | 0.083                  |
|          | GSM850  | GPRS (2 Tx slots) | Right Tilted  | 0mm      | OFF             | 251 | 848.8       | 31.55               | 32.00               | 1.109                  | 0.01             | 0.033                  | 0.037                  |
|          | GSM850  | GPRS (2 Tx slots) | Left Cheek    | 0mm      | OFF             | 251 | 848.8       | 31.55               | 32.00               | 1.109                  | 0.16             | 0.102                  | 0.113                  |
| 1        | GSM850  | GPRS (2 Tx slots) | Left Cheek    | 0mm      | OFF             | 128 | 824.2       | 30.31               | 32.00               | 1.476                  | 0.03             | 0.123                  | 0.182                  |
|          | GSM850  | GPRS (2 Tx slots) | Left Cheek    | 0mm      | OFF             | 189 | 836.4       | 31.04               | 32.00               | 1.247                  | -0.03            | 0.125                  | 0.156                  |
|          | GSM850  | GPRS (2 Tx slots) | Left Tilted   | 0mm      | OFF             | 251 | 848.8       | 31.55               | 32.00               | 1.109                  | 0.02             | 0.039                  | 0.043                  |
| 2        | GSM1900 | GPRS (3 Tx slots) | Right Cheek   | 0mm      | OFF             | 810 | 1909.8      | 26.87               | 28.00               | 1.297                  | 0                | 0.099                  | 0.128                  |
|          | GSM1900 | GPRS (3 Tx slots) | Right Cheek   | 0mm      | OFF             | 512 | 1850.2      | 26.74               | 28.00               | 1.337                  | -0.13            | 0.093                  | 0.124                  |
|          | GSM1900 | GPRS (3 Tx slots) | Right Cheek   | 0mm      | OFF             | 661 | 1880        | 26.82               | 28.00               | 1.312                  | 0                | 0.096                  | 0.126                  |
|          | GSM1900 | GPRS (3 Tx slots) | Right Tilted  | 0mm      | OFF             | 810 | 1909.8      | 26.87               | 28.00               | 1.297                  | -0.17            | 0.025                  | 0.032                  |
|          | GSM1900 | GPRS (3 Tx slots) | Left Cheek    | 0mm      | OFF             | 810 | 1909.8      | 26.87               | 28.00               | 1.297                  | 0.01             | 0.050                  | 0.065                  |
|          | GSM1900 | GPRS (3 Tx slots) | Left Tilted   | 0mm      | OFF             | 810 | 1909.8      | 26.87               | 28.00               | 1.297                  | -0.08            | 0.039                  | 0.051                  |

## **<WCDMA SAR>**

| Plot No. | Band     | Mode         | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | WCDMA II | RMC 12.2Kbps | Right Cheek   | 0mm      | OFF             | 9262 | 1852.4      | 22.76               | 23.50               | 1.186                  | -0.15            | 0.218                  | 0.258                  |
|          | WCDMA II | RMC 12.2Kbps | Right Cheek   | 0mm      | OFF             | 9400 | 1880        | 22.71               | 23.50               | 1.199                  | 0.16             | 0.212                  | 0.254                  |
| 3        | WCDMA II | RMC 12.2Kbps | Right Cheek   | 0mm      | OFF             | 9538 | 1907.6      | 22.73               | 23.50               | 1.194                  | 0.04             | 0.233                  | 0.278                  |
|          | WCDMA II | RMC 12.2Kbps | Right Tilted  | 0mm      | OFF             | 9262 | 1852.4      | 22.76               | 23.50               | 1.186                  | -0.11            | 0.074                  | 0.088                  |
|          | WCDMA II | RMC 12.2Kbps | Left Cheek    | 0mm      | OFF             | 9262 | 1852.4      | 22.76               | 23.50               | 1.186                  | 0.01             | 0.095                  | 0.113                  |
|          | WCDMA II | RMC 12.2Kbps | Left Tilted   | 0mm      | OFF             | 9262 | 1852.4      | 22.76               | 23.50               | 1.186                  | -0.15            | 0.102                  | 0.121                  |
|          | WCDMA IV | RMC 12.2Kbps | Right Cheek   | 0mm      | OFF             | 1513 | 1752.6      | 22.74               | 23.50               | 1.191                  | 0.03             | 0.225                  | 0.268                  |
| 4        | WCDMA IV | RMC 12.2Kbps | Right Cheek   | 0mm      | OFF             | 1312 | 1712.4      | 22.62               | 23.50               | 1.225                  | 0.1              | 0.251                  | 0.307                  |
|          | WCDMA IV | RMC 12.2Kbps | Right Cheek   | 0mm      | OFF             | 1413 | 1732.6      | 22.60               | 23.50               | 1.230                  | 0.05             | 0.229                  | 0.282                  |
|          | WCDMA IV | RMC 12.2Kbps | Right Tilted  | 0mm      | OFF             | 1513 | 1752.6      | 22.74               | 23.50               | 1.191                  | -0.12            | 0.077                  | 0.092                  |
|          | WCDMA IV | RMC 12.2Kbps | Left Cheek    | 0mm      | OFF             | 1513 | 1752.6      | 22.74               | 23.50               | 1.191                  | -0.16            | 0.120                  | 0.143                  |
|          | WCDMA IV | RMC 12.2Kbps | Left Tilted   | 0mm      | OFF             | 1513 | 1752.6      | 22.74               | 23.50               | 1.191                  | 0.09             | 0.076                  | 0.091                  |
|          | WCDMA V  | RMC 12.2Kbps | Right Cheek   | 0mm      | OFF             | 4182 | 836.4       | 22.76               | 24.00               | 1.330                  | -0.13            | 0.232                  | 0.309                  |
|          | WCDMA V  | RMC 12.2Kbps | Right Tilted  | 0mm      | OFF             | 4182 | 836.4       | 22.76               | 24.00               | 1.330                  | -0.03            | 0.103                  | 0.137                  |
|          | WCDMA V  | RMC 12.2Kbps | Left Cheek    | 0mm      | OFF             | 4182 | 836.4       | 22.76               | 24.00               | 1.330                  | 0.01             | 0.288                  | 0.383                  |
| 5        | WCDMA V  | RMC 12.2Kbps | Left Cheek    | 0mm      | OFF             | 4132 | 826.4       | 22.64               | 24.00               | 1.368                  | -0.02            | 0.298                  | 0.408                  |
|          | WCDMA V  | RMC 12.2Kbps | Left Cheek    | 0mm      | OFF             | 4233 | 846.6       | 22.60               | 24.00               | 1.380                  | -0.02            | 0.292                  | 0.403                  |
|          | WCDMA V  | RMC 12.2Kbps | Left Tilted   | 0mm      | OFF             | 4182 | 836.4       | 22.76               | 24.00               | 1.330                  | 0.01             | 0.110                  | 0.146                  |



**<CDMA SAR>**

| Plot No. | Band      | Mode           | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|----------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | CDMA BC0  | RC3 SO55       | Right Cheek   | 0mm      | OFF             | 777  | 848.31      | 23.99               | 25.00               | 1.262                  | -0.14            | 0.213                  | 0.269                  |
| 6        | CDMA BC0  | RC3 SO55       | Right Cheek   | 0mm      | OFF             | 1013 | 824.7       | 23.86               | 25.00               | 1.300                  | -0.02            | 0.229                  | 0.298                  |
|          | CDMA BC0  | RC3 SO55       | Right Cheek   | 0mm      | OFF             | 384  | 836.52      | 23.96               | 25.00               | 1.271                  | -0.01            | 0.227                  | 0.288                  |
|          | CDMA BC0  | RC3 SO55       | Right Tilted  | 0mm      | OFF             | 777  | 848.31      | 23.99               | 25.00               | 1.262                  | -0.08            | 0.082                  | 0.103                  |
|          | CDMA BC0  | RC3 SO55       | Left Cheek    | 0mm      | OFF             | 777  | 848.31      | 23.99               | 25.00               | 1.262                  | -0.15            | 0.170                  | 0.215                  |
|          | CDMA BC0  | RC3 SO55       | Left Tilted   | 0mm      | OFF             | 777  | 848.31      | 23.99               | 25.00               | 1.262                  | 0.11             | 0.091                  | 0.115                  |
|          | CDMA BC1  | 1xRTT RC3 SO55 | Right Cheek   | 0mm      | OFF             | 25   | 1851.25     | 23.75               | 25.00               | 1.334                  | 0.04             | 0.202                  | 0.269                  |
|          | CDMA BC1  | 1xRTT RC3 SO55 | Right Cheek   | 0mm      | OFF             | 600  | 1880        | 23.63               | 25.00               | 1.371                  | 0.06             | 0.221                  | 0.303                  |
| 7        | CDMA BC1  | 1xRTT RC3 SO55 | Right Cheek   | 0mm      | OFF             | 1175 | 1908.75     | 23.52               | 25.00               | 1.406                  | 0.04             | 0.248                  | 0.349                  |
|          | CDMA BC1  | 1xRTT RC3 SO55 | Right Tilted  | 0mm      | OFF             | 25   | 1851.25     | 23.75               | 25.00               | 1.334                  | -0.07            | 0.057                  | 0.076                  |
|          | CDMA BC1  | 1xRTT RC3 SO55 | Left Cheek    | 0mm      | OFF             | 25   | 1851.25     | 23.75               | 25.00               | 1.334                  | -0.04            | 0.164                  | 0.219                  |
|          | CDMA BC1  | 1xRTT RC3 SO55 | Left Tilted   | 0mm      | OFF             | 25   | 1851.25     | 23.75               | 25.00               | 1.334                  | 0.04             | 0.134                  | 0.179                  |
|          | CDMA BC10 | RC3 SO55       | Right Cheek   | 0mm      | OFF             | 580  | 820.5       | 23.83               | 25.00               | 1.309                  | 0.04             | 0.196                  | 0.257                  |
|          | CDMA BC10 | RC3 SO55       | Right Tilted  | 0mm      | OFF             | 580  | 820.5       | 23.83               | 25.00               | 1.309                  | 0.09             | 0.065                  | 0.085                  |
| 8        | CDMA BC10 | RC3 SO55       | Left Cheek    | 0mm      | OFF             | 580  | 820.5       | 23.83               | 25.00               | 1.309                  | -0.03            | 0.276                  | 0.361                  |
|          | CDMA BC10 | RC3 SO55       | Left Cheek    | 0mm      | OFF             | 476  | 817.9       | 23.74               | 25.00               | 1.337                  | -0.03            | 0.243                  | 0.325                  |
|          | CDMA BC10 | RC3 SO55       | Left Cheek    | 0mm      | OFF             | 684  | 823.1       | 23.81               | 25.00               | 1.315                  | -0.18            | 0.270                  | 0.355                  |
|          | CDMA BC10 | RC3 SO55       | Left Tilted   | 0mm      | OFF             | 580  | 820.5       | 23.83               | 25.00               | 1.309                  | 0.06             | 0.088                  | 0.115                  |

**<FDD LTE SAR>**

| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 9        | LTE Band 7_Main | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | OFF             | 21350 | 2560        | 22.83               | 24.00               | 1.309                  | -0.15            | 0.610                  | 0.799                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | OFF             | 20850 | 2510        | 22.66               | 24.00               | 1.361                  | -0.12            | 0.552                  | 0.752                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | OFF             | 21100 | 2535        | 22.70               | 24.00               | 1.349                  | -0.15            | 0.590                  | 0.796                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Right Cheek   | 0mm      | OFF             | 21350 | 2560        | 21.77               | 23.00               | 1.327                  | -0.11            | 0.357                  | 0.474                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 99        | Right Tilted  | 0mm      | OFF             | 21350 | 2560        | 22.83               | 24.00               | 1.309                  | -0.12            | 0.297                  | 0.389                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Right Tilted  | 0mm      | OFF             | 21350 | 2560        | 21.77               | 23.00               | 1.327                  | -0.07            | 0.167                  | 0.222                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 99        | Left Cheek    | 0mm      | OFF             | 21350 | 2560        | 22.83               | 24.00               | 1.309                  | 0.06             | 0.266                  | 0.348                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Left Cheek    | 0mm      | OFF             | 21350 | 2560        | 21.77               | 23.00               | 1.327                  | 0                | 0.186                  | 0.247                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 99        | Left Tilted   | 0mm      | OFF             | 21350 | 2560        | 22.83               | 24.00               | 1.309                  | 0.04             | 0.323                  | 0.423                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Left Tilted   | 0mm      | OFF             | 21350 | 2560        | 21.77               | 23.00               | 1.327                  | 0.17             | 0.190                  | 0.252                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | OFF             | 21350 | 2560        | 22.83               | 24.00               | 1.309                  | -0.01            | 0.274                  | 0.359                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Right Cheek   | 0mm      | OFF             | 21350 | 2560        | 21.77               | 23.00               | 1.327                  | 0.01             | 0.153                  | 0.203                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 99        | Right Tilted  | 0mm      | OFF             | 21350 | 2560        | 22.83               | 24.00               | 1.309                  | -0.12            | 0.202                  | 0.264                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Right Tilted  | 0mm      | OFF             | 21350 | 2560        | 21.77               | 23.00               | 1.327                  | 0.12             | 0.116                  | 0.154                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 99        | Left Cheek    | 0mm      | OFF             | 21350 | 2560        | 22.83               | 24.00               | 1.309                  | -0.01            | 0.491                  | 0.643                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 99        | Left Cheek    | 0mm      | OFF             | 20850 | 2510        | 22.66               | 24.00               | 1.361                  | -0.09            | 0.431                  | 0.587                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 99        | Left Cheek    | 0mm      | OFF             | 21100 | 2535        | 22.70               | 24.00               | 1.349                  | -0.07            | 0.474                  | 0.639                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Left Cheek    | 0mm      | OFF             | 21350 | 2560        | 21.77               | 23.00               | 1.327                  | -0.03            | 0.305                  | 0.405                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 99        | Left Tilted   | 0mm      | OFF             | 21350 | 2560        | 22.83               | 24.00               | 1.309                  | -0.09            | 0.150                  | 0.196                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Left Tilted   | 0mm      | OFF             | 21350 | 2560        | 21.77               | 23.00               | 1.327                  | 0.1              | 0.091                  | 0.121                  |



| Plot No. | Band        | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 12 | 10M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  | -0.01            | 0.188                  | 0.250                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | OFF             | 23095 | 707.5       | 21.65               | 23.00               | 1.365                  | 0.01             | 0.123                  | 0.168                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 49        | Right Tilted  | 0mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  | -0.12            | 0.087                  | 0.115                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | OFF             | 23095 | 707.5       | 21.65               | 23.00               | 1.365                  | 0.08             | 0.068                  | 0.093                  |
| 10       | LTE Band 12 | 10M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  | 0.05             | 0.239                  | 0.317                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | OFF             | 23095 | 707.5       | 21.65               | 23.00               | 1.365                  | -0.09            | 0.140                  | 0.191                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 49        | Left Tilted   | 0mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  | 0.05             | 0.107                  | 0.142                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | OFF             | 23095 | 707.5       | 21.65               | 23.00               | 1.365                  | 0.08             | 0.058                  | 0.079                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | OFF             | 23230 | 782         | 22.72               | 24.00               | 1.343                  | 0.01             | 0.152                  | 0.204                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | OFF             | 23230 | 782         | 21.73               | 23.00               | 1.340                  | 0.04             | 0.114                  | 0.153                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | OFF             | 23230 | 782         | 22.72               | 24.00               | 1.343                  | -0.12            | 0.076                  | 0.102                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | OFF             | 23230 | 782         | 21.73               | 23.00               | 1.340                  | 0                | 0.060                  | 0.080                  |
| 11       | LTE Band 13 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | OFF             | 23230 | 782         | 22.72               | 24.00               | 1.343                  | 0                | 0.178                  | 0.239                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | OFF             | 23230 | 782         | 21.73               | 23.00               | 1.340                  | 0.06             | 0.136                  | 0.182                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | OFF             | 23230 | 782         | 22.72               | 24.00               | 1.343                  | -0.03            | 0.064                  | 0.086                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | OFF             | 23230 | 782         | 21.73               | 23.00               | 1.340                  | 0.05             | 0.053                  | 0.071                  |
|          | LTE Band 14 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | OFF             | 23330 | 793         | 22.71               | 24.00               | 1.346                  | 0                | 0.211                  | 0.284                  |
|          | LTE Band 14 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | OFF             | 23330 | 793         | 21.67               | 23.00               | 1.358                  | 0.1              | 0.119                  | 0.162                  |
|          | LTE Band 14 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | OFF             | 23330 | 793         | 22.71               | 24.00               | 1.346                  | 0.04             | 0.131                  | 0.176                  |
|          | LTE Band 14 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | OFF             | 23330 | 793         | 21.67               | 23.00               | 1.358                  | 0.06             | 0.076                  | 0.103                  |
| 12       | LTE Band 14 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | OFF             | 23330 | 793         | 22.71               | 24.00               | 1.346                  | 0.04             | 0.268                  | 0.361                  |
|          | LTE Band 14 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | OFF             | 23330 | 793         | 21.67               | 23.00               | 1.358                  | 0.02             | 0.152                  | 0.206                  |
|          | LTE Band 14 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | OFF             | 23330 | 793         | 22.71               | 24.00               | 1.346                  | 0.02             | 0.107                  | 0.144                  |
|          | LTE Band 14 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | OFF             | 23330 | 793         | 21.67               | 23.00               | 1.358                  | 0.09             | 0.062                  | 0.084                  |
| 13       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | OFF             | 26140 | 1860        | 23.26               | 23.50               | 1.057                  | -0.19            | 0.245                  | 0.259                  |
|          | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | OFF             | 26340 | 1880        | 23.15               | 23.50               | 1.084                  | -0.09            | 0.206                  | 0.223                  |
|          | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | OFF             | 26590 | 1905        | 22.99               | 23.50               | 1.125                  | -0.03            | 0.202                  | 0.227                  |
|          | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | OFF             | 26140 | 1860        | 22.07               | 22.50               | 1.104                  | -0.16            | 0.141                  | 0.156                  |
|          | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | OFF             | 26140 | 1860        | 23.26               | 23.50               | 1.057                  | -0.03            | 0.066                  | 0.070                  |
|          | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | OFF             | 26140 | 1860        | 22.07               | 22.50               | 1.104                  | -0.1             | 0.037                  | 0.041                  |
|          | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | OFF             | 26140 | 1860        | 23.26               | 23.50               | 1.057                  | -0.06            | 0.128                  | 0.135                  |
|          | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | OFF             | 26140 | 1860        | 22.07               | 22.50               | 1.104                  | -0.03            | 0.070                  | 0.077                  |
|          | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | OFF             | 26140 | 1860        | 23.26               | 23.50               | 1.057                  | -0.12            | 0.087                  | 0.092                  |
|          | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | OFF             | 26140 | 1860        | 22.07               | 22.50               | 1.104                  | -0.18            | 0.047                  | 0.052                  |
|          | LTE Band 26 | 15M      | QPSK       | 1       | 37        | Right Cheek   | 0mm      | OFF             | 26865 | 831.5       | 22.73               | 24.00               | 1.340                  | -0.12            | 0.216                  | 0.289                  |
|          | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Cheek   | 0mm      | OFF             | 26865 | 831.5       | 21.64               | 23.00               | 1.368                  | 0.02             | 0.119                  | 0.163                  |
|          | LTE Band 26 | 15M      | QPSK       | 1       | 37        | Right Tilted  | 0mm      | OFF             | 26865 | 831.5       | 22.73               | 24.00               | 1.340                  | -0.04            | 0.091                  | 0.122                  |
|          | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Tilted  | 0mm      | OFF             | 26865 | 831.5       | 21.64               | 23.00               | 1.368                  | 0.05             | 0.053                  | 0.072                  |
| 14       | LTE Band 26 | 15M      | QPSK       | 1       | 37        | Left Cheek    | 0mm      | OFF             | 26865 | 831.5       | 22.73               | 24.00               | 1.340                  | -0.03            | 0.269                  | 0.360                  |
|          | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Left Cheek    | 0mm      | OFF             | 26865 | 831.5       | 21.64               | 23.00               | 1.368                  | 0.01             | 0.150                  | 0.205                  |
|          | LTE Band 26 | 15M      | QPSK       | 1       | 37        | Left Tilted   | 0mm      | OFF             | 26865 | 831.5       | 22.73               | 24.00               | 1.340                  | -0.06            | 0.121                  | 0.162                  |
|          | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Left Tilted   | 0mm      | OFF             | 26865 | 831.5       | 21.64               | 23.00               | 1.368                  | -0.01            | 0.068                  | 0.093                  |



| Plot No. | Band             | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 15       | LTE Band 30_Main | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | OFF             | 27710  | 2310        | 22.71               | 24.00               | 1.346                  | 0.03             | 0.255                  | 0.343                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | OFF             | 27710  | 2310        | 21.77               | 23.00               | 1.327                  | 0.11             | 0.193                  | 0.256                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | OFF             | 27710  | 2310        | 22.71               | 24.00               | 1.346                  | -0.16            | 0.124                  | 0.167                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | OFF             | 27710  | 2310        | 21.77               | 23.00               | 1.327                  | 0.04             | 0.097                  | 0.129                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | OFF             | 27710  | 2310        | 22.71               | 24.00               | 1.346                  | 0.07             | 0.129                  | 0.174                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | OFF             | 27710  | 2310        | 21.77               | 23.00               | 1.327                  | 0.11             | 0.094                  | 0.125                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | OFF             | 27710  | 2310        | 22.71               | 24.00               | 1.346                  | -0.08            | 0.139                  | 0.187                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | OFF             | 27710  | 2310        | 21.77               | 23.00               | 1.327                  | 0.06             | 0.091                  | 0.121                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | OFF             | 27710  | 2310        | 22.71               | 24.00               | 1.346                  | -0.17            | 0.095                  | 0.128                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | OFF             | 27710  | 2310        | 21.77               | 23.00               | 1.327                  | 0.11             | 0.055                  | 0.073                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | OFF             | 27710  | 2310        | 22.71               | 24.00               | 1.346                  | -0.18            | 0.124                  | 0.167                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | OFF             | 27710  | 2310        | 21.77               | 23.00               | 1.327                  | 0.13             | 0.072                  | 0.096                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | OFF             | 27710  | 2310        | 22.71               | 24.00               | 1.346                  | 0                | 0.147                  | 0.198                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | OFF             | 27710  | 2310        | 21.77               | 23.00               | 1.327                  | 0.01             | 0.111                  | 0.147                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | OFF             | 27710  | 2310        | 22.71               | 24.00               | 1.346                  | -0.11            | 0.086                  | 0.116                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | OFF             | 27710  | 2310        | 21.77               | 23.00               | 1.327                  | 0.05             | 0.048                  | 0.064                  |
|          | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | OFF             | 132572 | 1770        | 22.93               | 23.50               | 1.140                  | 0.03             | 0.110                  | 0.125                  |
|          | LTE Band 66      | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | OFF             | 132572 | 1770        | 21.85               | 22.50               | 1.161                  | 0                | 0.089                  | 0.103                  |
|          | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | OFF             | 132572 | 1770        | 22.93               | 23.50               | 1.140                  | 0.02             | 0.067                  | 0.076                  |
|          | LTE Band 66      | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | OFF             | 132572 | 1770        | 21.85               | 22.50               | 1.161                  | 0.07             | 0.036                  | 0.042                  |
|          | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | OFF             | 132572 | 1770        | 22.93               | 23.50               | 1.140                  | -0.03            | 0.155                  | 0.177                  |
| 16       | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | OFF             | 132072 | 1720        | 22.83               | 23.50               | 1.167                  | -0.03            | 0.213                  | 0.249                  |
|          | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | OFF             | 132322 | 1745        | 22.87               | 23.50               | 1.156                  | -0.05            | 0.086                  | 0.099                  |
|          | LTE Band 66      | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | OFF             | 132572 | 1770        | 21.85               | 22.50               | 1.161                  | 0.15             | 0.080                  | 0.093                  |
|          | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | OFF             | 132572 | 1770        | 22.93               | 23.50               | 1.140                  | -0.02            | 0.057                  | 0.065                  |
|          | LTE Band 66      | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | OFF             | 132572 | 1770        | 21.85               | 22.50               | 1.161                  | 0.18             | 0.032                  | 0.037                  |
|          | LTE Band 71      | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | OFF             | 133322 | 683         | 23.18               | 24.00               | 1.208                  | -0.03            | 0.145                  | 0.175                  |
|          | LTE Band 71      | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | OFF             | 133322 | 683         | 22.10               | 23.00               | 1.230                  | 0.06             | 0.086                  | 0.106                  |
|          | LTE Band 71      | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | OFF             | 133322 | 683         | 23.18               | 24.00               | 1.208                  | 0.03             | 0.074                  | 0.089                  |
|          | LTE Band 71      | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | OFF             | 133322 | 683         | 22.10               | 23.00               | 1.230                  | -0.02            | 0.027                  | 0.033                  |
| 17       | LTE Band 71      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | OFF             | 133322 | 683         | 23.18               | 24.00               | 1.208                  | 0                | 0.167                  | 0.202                  |
|          | LTE Band 71      | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | OFF             | 133322 | 683         | 22.10               | 23.00               | 1.230                  | 0.03             | 0.099                  | 0.122                  |
|          | LTE Band 71      | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | OFF             | 133322 | 683         | 23.18               | 24.00               | 1.208                  | 0.02             | 0.088                  | 0.106                  |
|          | LTE Band 71      | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | OFF             | 133322 | 683         | 22.10               | 23.00               | 1.230                  | 0.02             | 0.054                  | 0.066                  |



**<TDD LTE SAR>**

| Plot No. | Band                   | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | OFF             | 41490       | 2680        | 23.92               | 24.00               | 1.019                  | 62.90        | 1.006                     | -0.08            | 0.489                  | 0.501                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | OFF             | 39750       | 2506        | 23.14               | 24.00               | 1.219                  | 62.90        | 1.006                     | -0.06            | 0.259                  | 0.318                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | OFF             | 40185       | 2549.5      | 23.15               | 24.00               | 1.216                  | 62.90        | 1.006                     | -0.03            | 0.299                  | 0.366                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | OFF             | 40620       | 2593        | 23.26               | 24.00               | 1.186                  | 62.90        | 1.006                     | -0.02            | 0.366                  | 0.437                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | OFF             | 41055       | 2636.5      | 23.14               | 24.00               | 1.219                  | 62.90        | 1.006                     | -0.11            | 0.381                  | 0.467                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 50        | Right Cheek   | 0mm      | OFF             | 40620       | 2593        | 21.79               | 23.00               | 1.321                  | 62.90        | 1.006                     | -0.16            | 0.256                  | 0.340                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | OFF             | 41490       | 2680        | 23.92               | 24.00               | 1.019                  | 62.90        | 1.006                     | 0.01             | 0.197                  | 0.202                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 50        | Right Tilted  | 0mm      | OFF             | 40620       | 2593        | 21.79               | 23.00               | 1.321                  | 62.90        | 1.006                     | -0.16            | 0.106                  | 0.141                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | OFF             | 41490       | 2680        | 23.92               | 24.00               | 1.019                  | 62.90        | 1.006                     | 0.04             | 0.209                  | 0.214                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 50        | Left Cheek    | 0mm      | OFF             | 40620       | 2593        | 21.79               | 23.00               | 1.321                  | 62.90        | 1.006                     | -0.03            | 0.110                  | 0.146                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | OFF             | 41490       | 2680        | 23.92               | 24.00               | 1.019                  | 62.90        | 1.006                     | 0.01             | 0.254                  | 0.260                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 50        | Left Tilted   | 0mm      | OFF             | 40620       | 2593        | 21.79               | 23.00               | 1.321                  | 62.90        | 1.006                     | 0.07             | 0.136                  | 0.181                  |
| 18       | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | OFF             | 40620       | 2593        | 26.18               | 27.00               | 1.208                  | 42.90        | 1.009                     | -0.04            | 0.507                  | 0.618                  |
|          | LTE Band 41_UL_CA_Main | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | OFF             | 40185+39987 | 2680        | 23.14               | 24.00               | 1.219                  | 62.90        | 1.006                     | -0.11            | 0.274                  | 0.336                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | OFF             | 41490       | 2680        | 23.92               | 24.00               | 1.019                  | 62.90        | 1.006                     | -0.11            | 0.152                  | 0.156                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 50        | Right Cheek   | 0mm      | OFF             | 40620       | 2593        | 21.79               | 23.00               | 1.321                  | 62.90        | 1.006                     | 0.06             | 0.078                  | 0.104                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | OFF             | 41490       | 2680        | 23.92               | 24.00               | 1.019                  | 62.90        | 1.006                     | -0.02            | 0.095                  | 0.097                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 50        | Right Tilted  | 0mm      | OFF             | 40620       | 2593        | 21.79               | 23.00               | 1.321                  | 62.90        | 1.006                     | -0.02            | 0.050                  | 0.066                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | OFF             | 41490       | 2680        | 23.92               | 24.00               | 1.019                  | 62.90        | 1.006                     | -0.09            | 0.275                  | 0.282                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | OFF             | 39750       | 2506        | 23.14               | 24.00               | 1.219                  | 62.90        | 1.006                     | -0.07            | 0.201                  | 0.246                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 99        | Left Cheek    | 0mm      | OFF             | 40185       | 2549.5      | 23.15               | 24.00               | 1.216                  | 62.90        | 1.006                     | 0.06             | 0.238                  | 0.291                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 99        | Left Cheek    | 0mm      | OFF             | 40620       | 2593        | 23.26               | 24.00               | 1.186                  | 62.90        | 1.006                     | 0.04             | 0.230                  | 0.274                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 99        | Left Cheek    | 0mm      | OFF             | 41055       | 2636.5      | 23.14               | 24.00               | 1.219                  | 62.90        | 1.006                     | -0.02            | 0.239                  | 0.293                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 50        | Left Cheek    | 0mm      | OFF             | 40620       | 2593        | 21.79               | 23.00               | 1.321                  | 62.90        | 1.006                     | -0.12            | 0.142                  | 0.189                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | OFF             | 41490       | 2680        | 23.92               | 24.00               | 1.019                  | 62.90        | 1.006                     | -0.16            | 0.064                  | 0.066                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 50        | Left Tilted   | 0mm      | OFF             | 40620       | 2593        | 21.79               | 23.00               | 1.321                  | 62.90        | 1.006                     | -0.11            | 0.059                  | 0.078                  |
|          | LTE Band 41_PC2_Aux    | 20M      | QPSK       | 1       | 99        | Left Cheek    | 0mm      | OFF             | 40620       | 2593        | 26.18               | 27.00               | 1.208                  | 42.90        | 1.009                     | -0.02            | 0.323                  | 0.394                  |
|          | LTE Band 41_UL_CA_Aux  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | OFF             | 40185+39987 | 2549.5      | 23.14               | 24.00               | 1.219                  | 62.90        | 1.006                     | -0.03            | 0.235                  | 0.288                  |

**< Bluetooth SAR >**

| Plot No. | Band      | Mode  | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|-------|---------------|----------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | 1Mbps | Right Cheek   | 0mm      | 0   | 2402        | 9.76                | 10.00               | 1.057                  | 0.01             | 0.114                  | 0.120                  |
| 19       | Bluetooth | 1Mbps | Right Cheek   | 0mm      | 39  | 2441        | 8.86                | 10.00               | 1.300                  | -0.06            | 0.110                  | 0.143                  |
|          | Bluetooth | 1Mbps | Right Cheek   | 0mm      | 78  | 2480        | 8.28                | 10.00               | 1.486                  | 0.06             | 0.078                  | 0.116                  |
|          | Bluetooth | 1Mbps | Right Tilted  | 0mm      | 0   | 2402        | 9.76                | 10.00               | 1.057                  | 0.09             | 0.062                  | 0.066                  |
|          | Bluetooth | 1Mbps | Left Cheek    | 0mm      | 0   | 2402        | 9.76                | 10.00               | 1.057                  | 0.15             | 0.032                  | 0.034                  |
|          | Bluetooth | 1Mbps | Left Tilted   | 0mm      | 0   | 2402        | 9.76                | 10.00               | 1.057                  | 0.02             | 0.032                  | 0.034                  |

**< WLAN SAR >**

| Plot No. | Band       | Mode                | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|---------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN2.4GHz | 802.11b 1Mbps       | Right Cheek   | 0mm      | ON              | 11  | 2462        | 16.49               | 18.00               | 1.416                  | 99.42        | 1.006                     | 0.13             | 0.789                  | 1.124                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Right Cheek   | 0mm      | ON              | 1   | 2412        | 16.48               | 18.00               | 1.419                  | 99.42        | 1.006                     | 0.14             | 0.728                  | 1.039                  |
| 20       | WLAN2.4GHz | 802.11b 1Mbps       | Right Cheek   | 0mm      | ON              | 6   | 2437        | 16.49               | 18.00               | 1.416                  | 99.42        | 1.006                     | 0.04             | 0.796                  | 1.134                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Right Tilted  | 0mm      | ON              | 11  | 2462        | 16.49               | 18.00               | 1.416                  | 99.42        | 1.006                     | -0.11            | 0.516                  | 0.735                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Left Cheek    | 0mm      | ON              | 11  | 2462        | 16.49               | 18.00               | 1.416                  | 99.42        | 1.006                     | -0.07            | 0.277                  | 0.395                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Left Tilted   | 0mm      | ON              | 11  | 2462        | 16.49               | 18.00               | 1.416                  | 99.42        | 1.006                     | -0.02            | 0.231                  | 0.329                  |
| 21       | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | ON              | 58  | 5290        | 15.70               | 16.00               | 1.071                  | 87.06        | 1.149                     | 0.1              | 0.847                  | 1.042                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0   | Right Cheek   | 0mm      | ON              | 62  | 5310        | 15.91               | 16.00               | 1.020                  | 93.90        | 1.065                     | 0.17             | 0.829                  | 0.901                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Right Tilted  | 0mm      | ON              | 58  | 5290        | 15.70               | 16.00               | 1.071                  | 87.06        | 1.149                     | 0.12             | 0.556                  | 0.684                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | ON              | 58  | 5290        | 15.70               | 16.00               | 1.071                  | 87.06        | 1.149                     | -0.16            | 0.190                  | 0.234                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Left Tilted   | 0mm      | ON              | 58  | 5290        | 15.70               | 16.00               | 1.071                  | 87.06        | 1.149                     | -0.18            | 0.184                  | 0.226                  |
| 22       | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | ON              | 138 | 5690        | 15.81               | 16.00               | 1.044                  | 87.06        | 1.149                     | 0.09             | 0.980                  | 1.176                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | ON              | 106 | 5530        | 15.60               | 16.00               | 1.096                  | 87.06        | 1.149                     | 0.18             | 0.901                  | 1.135                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Right Tilted  | 0mm      | ON              | 138 | 5690        | 15.81               | 16.00               | 1.044                  | 87.06        | 1.149                     | 0.17             | 0.632                  | 0.758                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | ON              | 138 | 5690        | 15.81               | 16.00               | 1.044                  | 87.06        | 1.149                     | -0.11            | 0.325                  | 0.390                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Left Tilted   | 0mm      | ON              | 138 | 5690        | 15.81               | 16.00               | 1.044                  | 87.06        | 1.149                     | 0.13             | 0.336                  | 0.403                  |
| 23       | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | ON              | 155 | 5775        | 15.95               | 16.00               | 1.011                  | 87.06        | 1.149                     | 0.13             | 0.863                  | 1.003                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0   | Right Cheek   | 0mm      | ON              | 151 | 5755        | 15.73               | 16.00               | 1.063                  | 93.90        | 1.065                     | 0.14             | 0.884                  | 1.001                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Right Tilted  | 0mm      | ON              | 155 | 5775        | 15.95               | 16.00               | 1.011                  | 87.06        | 1.149                     | 0.12             | 0.558                  | 0.648                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | ON              | 155 | 5775        | 15.95               | 16.00               | 1.011                  | 87.06        | 1.149                     | 0.07             | 0.270                  | 0.314                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Left Tilted   | 0mm      | ON              | 155 | 5775        | 15.95               | 16.00               | 1.011                  | 87.06        | 1.149                     | -0.1             | 0.281                  | 0.326                  |

## 14.2 Hotspot SAR

### <GSM SAR>

| Plot No. | Band    | Mode              | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | GSM850  | GPRS (2 Tx slots) | Front         | 5mm      | OFF             | 251 | 848.8       | 31.55               | 32.00               | 1.109                  | 0.18             | 0.324                  | 0.359                  |
|          | GSM850  | GPRS (2 Tx slots) | Back          | 5mm      | OFF             | 251 | 848.8       | 31.55               | 32.00               | 1.109                  | 0.09             | 0.421                  | 0.467                  |
| 24       | GSM850  | GPRS (2 Tx slots) | Back          | 5mm      | OFF             | 128 | 824.2       | 30.31               | 32.00               | 1.476                  | -0.15            | 0.460                  | 0.679                  |
|          | GSM850  | GPRS (2 Tx slots) | Back          | 5mm      | OFF             | 189 | 836.4       | 31.04               | 32.00               | 1.247                  | -0.14            | 0.429                  | 0.535                  |
|          | GSM850  | GPRS (2 Tx slots) | Left Side     | 5mm      | OFF             | 251 | 848.8       | 31.55               | 32.00               | 1.109                  | 0                | 0.220                  | 0.244                  |
|          | GSM850  | GPRS (2 Tx slots) | Right Side    | 5mm      | OFF             | 251 | 848.8       | 31.55               | 32.00               | 1.109                  | -0.02            | 0.131                  | 0.145                  |
|          | GSM850  | GPRS (2 Tx slots) | Bottom Side   | 5mm      | OFF             | 251 | 848.8       | 31.55               | 32.00               | 1.109                  | 0.13             | 0.183                  | 0.203                  |
|          | GSM1900 | GPRS (3 Tx slots) | Front         | 5mm      | ON              | 810 | 1909.8      | 19.68               | 20.50               | 1.208                  | 0.02             | 0.640                  | 0.773                  |
|          | GSM1900 | GPRS (3 Tx slots) | Back          | 5mm      | ON              | 810 | 1909.8      | 19.68               | 20.50               | 1.208                  | 0.1              | 0.621                  | 0.750                  |
|          | GSM1900 | GPRS (3 Tx slots) | Left Side     | 5mm      | ON              | 810 | 1909.8      | 19.68               | 20.50               | 1.208                  | -0.04            | 0.022                  | 0.027                  |
|          | GSM1900 | GPRS (3 Tx slots) | Right Side    | 5mm      | ON              | 810 | 1909.8      | 19.68               | 20.50               | 1.208                  | 0.06             | 0.062                  | 0.075                  |
| 25       | GSM1900 | GPRS (3 Tx slots) | Bottom Side   | 5mm      | ON              | 810 | 1909.8      | 19.68               | 20.50               | 1.208                  | 0.07             | 0.944                  | 1.140                  |
|          | GSM1900 | GPRS (3 Tx slots) | Bottom Side   | 5mm      | ON              | 512 | 1850.2      | 19.58               | 20.50               | 1.236                  | 0.16             | 0.911                  | 1.126                  |
|          | GSM1900 | GPRS (3 Tx slots) | Bottom Side   | 5mm      | ON              | 661 | 1880        | 19.60               | 20.50               | 1.230                  | 0.06             | 0.926                  | 1.139                  |

### <WCDMA SAR>

| Plot No. | Band     | Mode         | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | WCDMA II | RMC 12.2Kbps | Front         | 5mm      | ON              | 9262 | 1852.4      | 13.95               | 15.50               | 1.429                  | 0.12             | 0.556                  | 0.794                  |
|          | WCDMA II | RMC 12.2Kbps | Back          | 5mm      | ON              | 9262 | 1852.4      | 13.95               | 15.50               | 1.429                  | 0.11             | 0.467                  | 0.667                  |
|          | WCDMA II | RMC 12.2Kbps | Left Side     | 5mm      | ON              | 9262 | 1852.4      | 13.95               | 15.50               | 1.429                  | -0.02            | 0.017                  | 0.024                  |
|          | WCDMA II | RMC 12.2Kbps | Right Side    | 5mm      | ON              | 9262 | 1852.4      | 13.95               | 15.50               | 1.429                  | -0.01            | 0.051                  | 0.073                  |
| 26       | WCDMA II | RMC 12.2Kbps | Bottom Side   | 5mm      | ON              | 9262 | 1852.4      | 13.95               | 15.50               | 1.429                  | 0.07             | 0.786                  | 1.123                  |
|          | WCDMA II | RMC 12.2Kbps | Bottom Side   | 5mm      | ON              | 9400 | 1880        | 13.83               | 15.50               | 1.469                  | 0.02             | 0.735                  | 1.080                  |
|          | WCDMA II | RMC 12.2Kbps | Bottom Side   | 5mm      | ON              | 9538 | 1907.6      | 13.79               | 15.50               | 1.483                  | -0.02            | 0.698                  | 1.035                  |
|          | WCDMA IV | RMC 12.2Kbps | Front         | 5mm      | ON              | 1513 | 1752.6      | 15.53               | 16.50               | 1.250                  | -0.1             | 0.704                  | 0.880                  |
|          | WCDMA IV | RMC 12.2Kbps | Front         | 5mm      | ON              | 1312 | 1712.4      | 15.45               | 16.50               | 1.274                  | -0.03            | 0.631                  | 0.804                  |
|          | WCDMA IV | RMC 12.2Kbps | Front         | 5mm      | ON              | 1413 | 1732.6      | 15.44               | 16.50               | 1.276                  | -0.04            | 0.650                  | 0.830                  |
|          | WCDMA IV | RMC 12.2Kbps | Back          | 5mm      | ON              | 1513 | 1752.6      | 15.53               | 16.50               | 1.250                  | 0.14             | 0.653                  | 0.816                  |
|          | WCDMA IV | RMC 12.2Kbps | Back          | 5mm      | ON              | 1312 | 1712.4      | 15.45               | 16.50               | 1.274                  | -0.05            | 0.596                  | 0.759                  |
|          | WCDMA IV | RMC 12.2Kbps | Back          | 5mm      | ON              | 1413 | 1732.6      | 15.44               | 16.50               | 1.276                  | -0.05            | 0.606                  | 0.774                  |
|          | WCDMA IV | RMC 12.2Kbps | Left Side     | 5mm      | ON              | 1513 | 1752.6      | 15.53               | 16.50               | 1.250                  | 0.05             | 0.038                  | 0.048                  |
|          | WCDMA IV | RMC 12.2Kbps | Right Side    | 5mm      | ON              | 1513 | 1752.6      | 15.53               | 16.50               | 1.250                  | -0.01            | 0.070                  | 0.088                  |
| 27       | WCDMA IV | RMC 12.2Kbps | Bottom Side   | 5mm      | ON              | 1513 | 1752.6      | 15.53               | 16.50               | 1.250                  | 0.17             | 0.940                  | 1.175                  |
|          | WCDMA IV | RMC 12.2Kbps | Bottom Side   | 5mm      | ON              | 1312 | 1712.4      | 15.45               | 16.50               | 1.274                  | 0.17             | 0.790                  | 1.006                  |
|          | WCDMA IV | RMC 12.2Kbps | Bottom Side   | 5mm      | ON              | 1413 | 1732.6      | 15.44               | 16.50               | 1.276                  | 0.15             | 0.843                  | 1.076                  |
|          | WCDMA V  | RMC 12.2Kbps | Front         | 5mm      | ON              | 4182 | 836.4       | 22.26               | 23.50               | 1.330                  | -0.05            | 0.527                  | 0.701                  |
|          | WCDMA V  | RMC 12.2Kbps | Back          | 5mm      | ON              | 4182 | 836.4       | 22.26               | 23.50               | 1.330                  | -0.06            | 0.665                  | 0.885                  |
|          | WCDMA V  | RMC 12.2Kbps | Back          | 5mm      | ON              | 4132 | 826.4       | 22.20               | 23.50               | 1.349                  | -0.08            | 0.619                  | 0.835                  |
| 28       | WCDMA V  | RMC 12.2Kbps | Back          | 5mm      | ON              | 4233 | 846.6       | 22.15               | 23.50               | 1.365                  | -0.08            | 0.658                  | 0.898                  |
|          | WCDMA V  | RMC 12.2Kbps | Left Side     | 5mm      | ON              | 4182 | 836.4       | 22.26               | 23.50               | 1.330                  | 0.03             | 0.331                  | 0.440                  |
|          | WCDMA V  | RMC 12.2Kbps | Right Side    | 5mm      | ON              | 4182 | 836.4       | 22.26               | 23.50               | 1.330                  | 0.04             | 0.215                  | 0.286                  |
|          | WCDMA V  | RMC 12.2Kbps | Bottom Side   | 5mm      | ON              | 4182 | 836.4       | 22.26               | 23.50               | 1.330                  | 0.16             | 0.290                  | 0.386                  |

**<CDMA SAR>**

| Plot No. | Band      | Mode           | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|----------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | CDMA BC0  | RTAP 153.6Kbps | Front         | 5mm      | ON              | 777  | 848.31      | 22.78               | 23.50               | 1.180                  | -0.13            | 0.553                  | 0.653                  |
| 29       | CDMA BC0  | RTAP 153.6Kbps | Back          | 5mm      | ON              | 777  | 848.31      | 22.78               | 23.50               | 1.180                  | 0.19             | 0.831                  | 0.981                  |
|          | CDMA BC0  | RTAP 153.6Kbps | Back          | 5mm      | ON              | 1013 | 824.7       | 22.71               | 23.50               | 1.199                  | -0.06            | 0.755                  | 0.906                  |
|          | CDMA BC0  | RTAP 153.6Kbps | Back          | 5mm      | ON              | 384  | 836.52      | 22.77               | 23.50               | 1.183                  | -0.15            | 0.774                  | 0.916                  |
|          | CDMA BC0  | RTAP 153.6Kbps | Left Side     | 5mm      | ON              | 777  | 848.31      | 22.78               | 23.50               | 1.180                  | 0.18             | 0.278                  | 0.328                  |
|          | CDMA BC0  | RTAP 153.6Kbps | Right Side    | 5mm      | ON              | 777  | 848.31      | 22.78               | 23.50               | 1.180                  | 0.01             | 0.133                  | 0.157                  |
|          | CDMA BC0  | RTAP 153.6Kbps | Bottom Side   | 5mm      | ON              | 777  | 848.31      | 22.78               | 23.50               | 1.180                  | -0.18            | 0.441                  | 0.521                  |
|          | CDMA BC1  | RTAP 153.6Kbps | Front         | 5mm      | ON              | 25   | 1851.25     | 14.65               | 15.50               | 1.216                  | -0.11            | 0.484                  | 0.589                  |
|          | CDMA BC1  | RTAP 153.6Kbps | Back          | 5mm      | ON              | 25   | 1851.25     | 14.65               | 15.50               | 1.216                  | -0.06            | 0.494                  | 0.601                  |
|          | CDMA BC1  | RTAP 153.6Kbps | Left Side     | 5mm      | ON              | 25   | 1851.25     | 14.65               | 15.50               | 1.216                  | 0.13             | 0.019                  | 0.023                  |
|          | CDMA BC1  | RTAP 153.6Kbps | Right Side    | 5mm      | ON              | 25   | 1851.25     | 14.65               | 15.50               | 1.216                  | 0.12             | 0.058                  | 0.071                  |
|          | CDMA BC1  | RTAP 153.6Kbps | Bottom Side   | 5mm      | ON              | 25   | 1851.25     | 14.65               | 15.50               | 1.216                  | 0.08             | 0.705                  | 0.857                  |
|          | CDMA BC1  | RTAP 153.6Kbps | Bottom Side   | 5mm      | ON              | 600  | 1880        | 14.65               | 15.50               | 1.216                  | 0.09             | 0.769                  | 0.935                  |
| 30       | CDMA BC1  | RTAP 153.6Kbps | Bottom Side   | 5mm      | ON              | 1175 | 1908.75     | 14.63               | 15.50               | 1.222                  | 0.1              | 0.820                  | 1.002                  |
|          | CDMA BC10 | RTAP 153.6Kbps | Front         | 5mm      | ON              | 580  | 820.5       | 22.62               | 23.50               | 1.225                  | -0.11            | 0.607                  | 0.743                  |
| 31       | CDMA BC10 | RTAP 153.6Kbps | Back          | 5mm      | ON              | 580  | 820.5       | 22.62               | 23.50               | 1.225                  | -0.1             | 0.793                  | 0.971                  |
|          | CDMA BC10 | RTAP 153.6Kbps | Left Side     | 5mm      | ON              | 580  | 820.5       | 22.62               | 23.50               | 1.225                  | 0.13             | 0.339                  | 0.415                  |
|          | CDMA BC10 | RTAP 153.6Kbps | Right Side    | 5mm      | ON              | 580  | 820.5       | 22.62               | 23.50               | 1.225                  | 0.14             | 0.243                  | 0.298                  |
|          | CDMA BC10 | RTAP 153.6Kbps | Bottom Side   | 5mm      | ON              | 580  | 820.5       | 22.62               | 23.50               | 1.225                  | -0.12            | 0.382                  | 0.468                  |



<FDD LTE SAR>

| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 49        | Front         | 5mm      | ON              | 21350 | 2560        | 16.85               | 18.00               | 1.303                  | 0.1              | 0.482                  | 0.628                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Front         | 5mm      | ON              | 21350 | 2560        | 16.82               | 18.00               | 1.312                  | 0.13             | 0.489                  | 0.642                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 49        | Back          | 5mm      | ON              | 21350 | 2560        | 16.85               | 18.00               | 1.303                  | 0.11             | 0.785                  | 1.023                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 49        | Back          | 5mm      | ON              | 20850 | 2510        | 16.81               | 18.00               | 1.315                  | 0.18             | 0.809                  | 1.064                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 49        | Back          | 5mm      | ON              | 21100 | 2535        | 16.83               | 18.00               | 1.309                  | 0.17             | 0.791                  | 1.036                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Back          | 5mm      | ON              | 21350 | 2560        | 16.82               | 18.00               | 1.312                  | 0.11             | 0.801                  | 1.051                  |
| 32       | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Back          | 5mm      | ON              | 20850 | 2510        | 16.66               | 18.00               | 1.361                  | 0.11             | 0.804                  | 1.095                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Back          | 5mm      | ON              | 21100 | 2535        | 16.81               | 18.00               | 1.315                  | 0.13             | 0.759                  | 0.998                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 100     | 0         | Back          | 5mm      | ON              | 21350 | 2560        | 16.71               | 18.00               | 1.346                  | 0.14             | 0.729                  | 0.981                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 49        | Right Side    | 5mm      | ON              | 21350 | 2560        | 16.85               | 18.00               | 1.303                  | -0.13            | 0.647                  | 0.843                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 49        | Right Side    | 5mm      | ON              | 20850 | 2510        | 16.81               | 18.00               | 1.315                  | 0.02             | 0.599                  | 0.788                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 49        | Right Side    | 5mm      | ON              | 21100 | 2535        | 16.83               | 18.00               | 1.309                  | 0.05             | 0.625                  | 0.818                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Right Side    | 5mm      | ON              | 21350 | 2560        | 16.82               | 18.00               | 1.312                  | -0.14            | 0.655                  | 0.859                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Right Side    | 5mm      | ON              | 20850 | 2510        | 16.66               | 18.00               | 1.361                  | 0                | 0.600                  | 0.817                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Right Side    | 5mm      | ON              | 21100 | 2535        | 16.81               | 18.00               | 1.315                  | 0                | 0.641                  | 0.843                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 100     | 0         | Right Side    | 5mm      | ON              | 21350 | 2560        | 16.71               | 18.00               | 1.346                  | 0.03             | 0.674                  | 0.907                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 49        | Bottom Side   | 5mm      | ON              | 21350 | 2560        | 16.85               | 18.00               | 1.303                  | -0.13            | 0.203                  | 0.265                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Bottom Side   | 5mm      | ON              | 21350 | 2560        | 16.82               | 18.00               | 1.312                  | -0.15            | 0.202                  | 0.265                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 49        | Front         | 5mm      | ON              | 21350 | 2560        | 16.85               | 18.00               | 1.303                  | 0.14             | 0.382                  | 0.498                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Front         | 5mm      | ON              | 21350 | 2560        | 16.82               | 18.00               | 1.312                  | 0.16             | 0.390                  | 0.512                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 49        | Back          | 5mm      | ON              | 21350 | 2560        | 16.85               | 18.00               | 1.303                  | -0.18            | 0.663                  | 0.864                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 49        | Back          | 5mm      | ON              | 20850 | 2510        | 16.81               | 18.00               | 1.315                  | -0.11            | 0.523                  | 0.688                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 49        | Back          | 5mm      | ON              | 21100 | 2535        | 16.83               | 18.00               | 1.309                  | -0.16            | 0.625                  | 0.818                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Back          | 5mm      | ON              | 21350 | 2560        | 16.82               | 18.00               | 1.312                  | -0.1             | 0.610                  | 0.800                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Back          | 5mm      | ON              | 20850 | 2510        | 16.66               | 18.00               | 1.361                  | -0.18            | 0.582                  | 0.792                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Back          | 5mm      | ON              | 21100 | 2535        | 16.81               | 18.00               | 1.315                  | -0.11            | 0.631                  | 0.830                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 100     | 0         | Back          | 5mm      | ON              | 21350 | 2560        | 16.71               | 18.00               | 1.346                  | -0.18            | 0.641                  | 0.863                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 49        | Left Side     | 5mm      | ON              | 21350 | 2560        | 16.85               | 18.00               | 1.303                  | -0.05            | 0.430                  | 0.560                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Left Side     | 5mm      | ON              | 21350 | 2560        | 16.82               | 18.00               | 1.312                  | -0.11            | 0.434                  | 0.569                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 49        | Bottom Side   | 5mm      | ON              | 21350 | 2560        | 16.85               | 18.00               | 1.303                  | 0.12             | 0.072                  | 0.094                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Bottom Side   | 5mm      | ON              | 21350 | 2560        | 16.82               | 18.00               | 1.312                  | 0.06             | 0.075                  | 0.098                  |



| Plot No. | Band        | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 12 | 10M      | QPSK       | 1       | 49        | Front         | 5mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  | -0.02            | 0.666                  | 0.884                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 0         | Front         | 5mm      | OFF             | 23095 | 707.5       | 21.65               | 23.00               | 1.365                  | -0.15            | 0.384                  | 0.524                  |
|          | LTE Band 12 | 10M      | QPSK       | 50      | 0         | Front         | 5mm      | OFF             | 23095 | 707.5       | 21.64               | 23.00               | 1.368                  | -0.02            | 0.374                  | 0.512                  |
| 33       | LTE Band 12 | 10M      | QPSK       | 1       | 49        | Back          | 5mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  | 0.1              | 0.872                  | 1.157                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 0         | Back          | 5mm      | OFF             | 23095 | 707.5       | 21.65               | 23.00               | 1.365                  | 0.12             | 0.512                  | 0.699                  |
|          | LTE Band 12 | 10M      | QPSK       | 50      | 0         | Back          | 5mm      | OFF             | 23095 | 707.5       | 21.64               | 23.00               | 1.368                  | 0.11             | 0.515                  | 0.704                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 49        | Left Side     | 5mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  | -0.01            | 0.430                  | 0.571                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 0         | Left Side     | 5mm      | OFF             | 23095 | 707.5       | 21.65               | 23.00               | 1.365                  | 0.04             | 0.257                  | 0.351                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 49        | Right Side    | 5mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  | -0.02            | 0.368                  | 0.488                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 0         | Right Side    | 5mm      | OFF             | 23095 | 707.5       | 21.65               | 23.00               | 1.365                  | 0                | 0.214                  | 0.292                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 49        | Bottom Side   | 5mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  | 0.03             | 0.318                  | 0.422                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 5mm      | OFF             | 23095 | 707.5       | 21.65               | 23.00               | 1.365                  | -0.09            | 0.184                  | 0.251                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 0         | Front         | 5mm      | OFF             | 23230 | 782         | 22.72               | 24.00               | 1.343                  | -0.03            | 0.734                  | 0.986                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 0         | Front         | 5mm      | OFF             | 23230 | 782         | 21.73               | 23.00               | 1.340                  | -0.15            | 0.423                  | 0.567                  |
|          | LTE Band 13 | 10M      | QPSK       | 50      | 0         | Front         | 5mm      | OFF             | 23230 | 782         | 21.71               | 23.00               | 1.346                  | -0.07            | 0.412                  | 0.554                  |
| 34       | LTE Band 13 | 10M      | QPSK       | 1       | 0         | Back          | 5mm      | OFF             | 23230 | 782         | 22.72               | 24.00               | 1.343                  | -0.13            | 0.846                  | 1.136                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 0         | Back          | 5mm      | OFF             | 23230 | 782         | 21.73               | 23.00               | 1.340                  | 0.12             | 0.564                  | 0.756                  |
|          | LTE Band 13 | 10M      | QPSK       | 50      | 0         | Back          | 5mm      | OFF             | 23230 | 782         | 21.71               | 23.00               | 1.346                  | 0.12             | 0.567                  | 0.763                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 0         | Left Side     | 5mm      | OFF             | 23230 | 782         | 22.72               | 24.00               | 1.343                  | 0                | 0.344                  | 0.462                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 0         | Left Side     | 5mm      | OFF             | 23230 | 782         | 21.73               | 23.00               | 1.340                  | 0.04             | 0.283                  | 0.379                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 0         | Right Side    | 5mm      | OFF             | 23230 | 782         | 22.72               | 24.00               | 1.343                  | -0.08            | 0.406                  | 0.545                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 0         | Right Side    | 5mm      | OFF             | 23230 | 782         | 21.73               | 23.00               | 1.340                  | -0.02            | 0.236                  | 0.316                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | OFF             | 23230 | 782         | 22.72               | 24.00               | 1.343                  | 0.03             | 0.351                  | 0.471                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 5mm      | OFF             | 23230 | 782         | 21.73               | 23.00               | 1.340                  | -0.09            | 0.203                  | 0.272                  |
|          | LTE Band 14 | 10M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 23330 | 793         | 22.34               | 23.50               | 1.306                  | -0.05            | 0.574                  | 0.750                  |
|          | LTE Band 14 | 10M      | QPSK       | 25      | 0         | Front         | 5mm      | ON              | 23330 | 793         | 21.74               | 23.50               | 1.500                  | -0.1             | 0.516                  | 0.774                  |
|          | LTE Band 14 | 10M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 23330 | 793         | 22.34               | 23.50               | 1.306                  | 0.09             | 0.760                  | 0.993                  |
|          | LTE Band 14 | 10M      | QPSK       | 25      | 0         | Back          | 5mm      | ON              | 23330 | 793         | 21.74               | 23.50               | 1.500                  | 0.13             | 0.703                  | 1.054                  |
| 35       | LTE Band 14 | 10M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 23330 | 793         | 21.66               | 23.50               | 1.528                  | 0.13             | 0.700                  | 1.069                  |
|          | LTE Band 14 | 10M      | QPSK       | 1       | 0         | Left Side     | 5mm      | ON              | 23330 | 793         | 22.34               | 23.50               | 1.306                  | 0                | 0.349                  | 0.456                  |
|          | LTE Band 14 | 10M      | QPSK       | 25      | 0         | Left Side     | 5mm      | ON              | 23330 | 793         | 21.74               | 23.50               | 1.500                  | 0.04             | 0.287                  | 0.430                  |
|          | LTE Band 14 | 10M      | QPSK       | 1       | 0         | Right Side    | 5mm      | ON              | 23330 | 793         | 22.34               | 23.50               | 1.306                  | -0.02            | 0.411                  | 0.537                  |
|          | LTE Band 14 | 10M      | QPSK       | 25      | 0         | Right Side    | 5mm      | ON              | 23330 | 793         | 21.74               | 23.50               | 1.500                  | 0                | 0.240                  | 0.360                  |
|          | LTE Band 14 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | ON              | 23330 | 793         | 22.34               | 23.50               | 1.306                  | -0.15            | 0.308                  | 0.402                  |
|          | LTE Band 14 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 5mm      | ON              | 23330 | 793         | 21.74               | 23.50               | 1.500                  | -0.11            | 0.274                  | 0.411                  |



| Plot No. | Band             | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 26140 | 1860        | 16.05               | 16.50               | 1.109                  | 0.19             | 0.801                  | 0.888                  |
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 26340 | 1880        | 15.87               | 16.50               | 1.156                  | 0.15             | 0.869                  | 1.005                  |
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 26590 | 1905        | 15.71               | 16.50               | 1.199                  | 0.14             | 0.879                  | 1.054                  |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | ON              | 26140 | 1860        | 15.75               | 16.50               | 1.189                  | 0.15             | 0.833                  | 0.990                  |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | ON              | 26340 | 1880        | 15.58               | 16.50               | 1.236                  | 0.15             | 0.857                  | 1.059                  |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | ON              | 26590 | 1905        | 15.60               | 16.50               | 1.230                  | 0.14             | 0.879                  | 1.081                  |
|          | LTE Band 25      | 20M      | QPSK       | 100     | 0         | Front         | 5mm      | ON              | 26140 | 1860        | 15.56               | 16.50               | 1.242                  | 0.15             | 0.811                  | 1.007                  |
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 26140 | 1860        | 16.05               | 16.50               | 1.109                  | 0.12             | 0.657                  | 0.729                  |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 26140 | 1860        | 15.75               | 16.50               | 1.189                  | 0.1              | 0.623                  | 0.740                  |
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Left Side     | 5mm      | ON              | 26140 | 1860        | 16.05               | 16.50               | 1.109                  | 0                | 0.018                  | 0.020                  |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Left Side     | 5mm      | ON              | 26140 | 1860        | 15.75               | 16.50               | 1.189                  | 0.05             | 0.019                  | 0.023                  |
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Right Side    | 5mm      | ON              | 26140 | 1860        | 16.05               | 16.50               | 1.109                  | -0.04            | 0.037                  | 0.041                  |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Right Side    | 5mm      | ON              | 26140 | 1860        | 15.75               | 16.50               | 1.189                  | 0.01             | 0.038                  | 0.045                  |
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | ON              | 26140 | 1860        | 16.05               | 16.50               | 1.109                  | 0.03             | 0.915                  | 1.015                  |
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | ON              | 26340 | 1880        | 15.87               | 16.50               | 1.156                  | -0.09            | 0.960                  | 1.110                  |
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | ON              | 26590 | 1905        | 15.71               | 16.50               | 1.199                  | 0.01             | 0.942                  | 1.130                  |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 5mm      | ON              | 26140 | 1860        | 15.75               | 16.50               | 1.189                  | 0.06             | 0.857                  | 1.019                  |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 5mm      | ON              | 26340 | 1880        | 15.58               | 16.50               | 1.236                  | 0.02             | 0.905                  | 1.119                  |
| 36       | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 5mm      | ON              | 26590 | 1905        | 15.60               | 16.50               | 1.230                  | 0                | 0.934                  | 1.149                  |
|          | LTE Band 25      | 20M      | QPSK       | 100     | 0         | Bottom Side   | 5mm      | ON              | 26140 | 1860        | 15.56               | 16.50               | 1.242                  | 0.01             | 0.860                  | 1.068                  |
|          | LTE Band 26      | 15M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 26865 | 831.5       | 21.99               | 23.50               | 1.416                  | -0.09            | 0.524                  | 0.742                  |
|          | LTE Band 26      | 15M      | QPSK       | 36      | 0         | Front         | 5mm      | ON              | 26865 | 831.5       | 21.98               | 23.50               | 1.419                  | -0.09            | 0.541                  | 0.768                  |
|          | LTE Band 26      | 15M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 26865 | 831.5       | 21.99               | 23.50               | 1.416                  | -0.01            | 0.627                  | 0.888                  |
| 37       | LTE Band 26      | 15M      | QPSK       | 36      | 0         | Back          | 5mm      | ON              | 26865 | 831.5       | 21.98               | 23.50               | 1.419                  | -0.02            | 0.646                  | 0.917                  |
|          | LTE Band 26      | 15M      | QPSK       | 75      | 0         | Back          | 5mm      | ON              | 26865 | 831.5       | 21.92               | 23.50               | 1.439                  | -0.03            | 0.630                  | 0.906                  |
|          | LTE Band 26      | 15M      | QPSK       | 1       | 0         | Left Side     | 5mm      | ON              | 26865 | 831.5       | 21.99               | 23.50               | 1.416                  | 0.03             | 0.316                  | 0.447                  |
|          | LTE Band 26      | 15M      | QPSK       | 36      | 0         | Left Side     | 5mm      | ON              | 26865 | 831.5       | 21.98               | 23.50               | 1.419                  | -0.04            | 0.308                  | 0.437                  |
|          | LTE Band 26      | 15M      | QPSK       | 1       | 0         | Right Side    | 5mm      | ON              | 26865 | 831.5       | 21.99               | 23.50               | 1.416                  | 0.04             | 0.219                  | 0.310                  |
|          | LTE Band 26      | 15M      | QPSK       | 36      | 0         | Right Side    | 5mm      | ON              | 26865 | 831.5       | 21.98               | 23.50               | 1.419                  | -0.01            | 0.215                  | 0.305                  |
|          | LTE Band 26      | 15M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | ON              | 26865 | 831.5       | 21.99               | 23.50               | 1.416                  | 0.11             | 0.295                  | 0.418                  |
|          | LTE Band 26      | 15M      | QPSK       | 36      | 0         | Bottom Side   | 5mm      | ON              | 26865 | 831.5       | 21.98               | 23.50               | 1.419                  | 0.03             | 0.299                  | 0.424                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 27710 | 2310        | 20.33               | 21.00               | 1.167                  | 0.02             | 0.537                  | 0.627                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 25      | 0         | Front         | 5mm      | ON              | 27710 | 2310        | 20.11               | 21.00               | 1.227                  | -0.04            | 0.549                  | 0.674                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 27710 | 2310        | 20.33               | 21.00               | 1.167                  | 0.11             | 0.849                  | 0.991                  |
| 38       | LTE Band 30_Main | 10M      | QPSK       | 25      | 0         | Back          | 5mm      | ON              | 27710 | 2310        | 20.11               | 21.00               | 1.227                  | 0.06             | 0.869                  | 1.067                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 27710 | 2310        | 20.03               | 21.00               | 1.250                  | 0.07             | 0.839                  | 1.049                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 1       | 0         | Right Side    | 5mm      | ON              | 27710 | 2310        | 20.33               | 21.00               | 1.167                  | 0.01             | 0.554                  | 0.646                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 25      | 0         | Right Side    | 5mm      | ON              | 27710 | 2310        | 20.11               | 21.00               | 1.227                  | -0.02            | 0.566                  | 0.695                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | ON              | 27710 | 2310        | 20.33               | 21.00               | 1.167                  | 0.03             | 0.343                  | 0.400                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 25      | 0         | Bottom Side   | 5mm      | ON              | 27710 | 2310        | 20.11               | 21.00               | 1.227                  | 0.13             | 0.359                  | 0.441                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 27710 | 2310        | 20.33               | 21.00               | 1.167                  | 0.16             | 0.367                  | 0.428                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 25      | 0         | Front         | 5mm      | ON              | 27710 | 2310        | 20.11               | 21.00               | 1.227                  | 0.01             | 0.374                  | 0.459                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 27710 | 2310        | 20.33               | 21.00               | 1.167                  | -0.08            | 0.765                  | 0.893                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 25      | 0         | Back          | 5mm      | ON              | 27710 | 2310        | 20.11               | 21.00               | 1.227                  | -0.06            | 0.757                  | 0.929                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 27710 | 2310        | 20.03               | 21.00               | 1.250                  | -0.03            | 0.781                  | 0.976                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 1       | 0         | Left Side     | 5mm      | ON              | 27710 | 2310        | 20.33               | 21.00               | 1.167                  | -0.15            | 0.342                  | 0.399                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 25      | 0         | Left Side     | 5mm      | ON              | 27710 | 2310        | 20.11               | 21.00               | 1.227                  | -0.16            | 0.344                  | 0.422                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | ON              | 27710 | 2310        | 20.33               | 21.00               | 1.167                  | -0.17            | 0.119                  | 0.139                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 25      | 0         | Bottom Side   | 5mm      | ON              | 27710 | 2310        | 20.11               | 21.00               | 1.227                  | -0.15            | 0.117                  | 0.144                  |



| Plot No. | Band        | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 132572 | 1770        | 15.70               | 16.50               | 1.202                  | 0.18             | 0.517                  | 0.622                  |
|          | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | ON              | 132572 | 1770        | 15.40               | 16.50               | 1.288                  | 0.07             | 0.394                  | 0.508                  |
|          | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 132572 | 1770        | 15.70               | 16.50               | 1.202                  | -0.1             | 0.489                  | 0.588                  |
|          | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 132572 | 1770        | 15.40               | 16.50               | 1.288                  | 0.04             | 0.413                  | 0.532                  |
|          | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Left Side     | 5mm      | ON              | 132572 | 1770        | 15.70               | 16.50               | 1.202                  | 0.12             | 0.037                  | 0.044                  |
|          | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Left Side     | 5mm      | ON              | 132572 | 1770        | 15.40               | 16.50               | 1.288                  | 0.01             | 0.035                  | 0.045                  |
|          | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Side    | 5mm      | ON              | 132072 | 1770        | 15.70               | 16.50               | 1.202                  | 0.17             | 0.091                  | 0.109                  |
|          | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Side    | 5mm      | ON              | 132572 | 1770        | 15.40               | 16.50               | 1.288                  | -0.05            | 0.086                  | 0.111                  |
|          | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | ON              | 132572 | 1770        | 15.70               | 16.50               | 1.202                  | 0.16             | 0.857                  | 1.030                  |
|          | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | ON              | 132072 | 1720        | 15.58               | 16.50               | 1.236                  | -0.05            | 0.753                  | 0.931                  |
|          | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | ON              | 132322 | 1745        | 15.69               | 16.50               | 1.205                  | 0.06             | 0.467                  | 0.563                  |
|          | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 5mm      | ON              | 132572 | 1770        | 15.40               | 16.50               | 1.288                  | 0.17             | 0.820                  | 1.056                  |
|          | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 5mm      | ON              | 132072 | 1720        | 15.38               | 16.50               | 1.294                  | -0.05            | 0.753                  | 0.975                  |
|          | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 5mm      | ON              | 132322 | 1745        | 15.39               | 16.50               | 1.291                  | 0.12             | 0.661                  | 0.853                  |
| 39       | LTE Band 66 | 20M      | QPSK       | 100     | 0         | Bottom Side   | 5mm      | ON              | 132572 | 1770        | 15.37               | 16.50               | 1.297                  | 0.17             | 0.819                  | 1.062                  |
|          | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | OFF             | 133322 | 683         | 23.18               | 24.00               | 1.208                  | -0.02            | 0.645                  | 0.779                  |
|          | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | OFF             | 133322 | 683         | 22.10               | 23.00               | 1.230                  | -0.07            | 0.343                  | 0.422                  |
| 40       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | OFF             | 133322 | 683         | 23.18               | 24.00               | 1.208                  | 0.04             | 0.716                  | 0.865                  |
|          | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | OFF             | 133322 | 683         | 22.10               | 23.00               | 1.230                  | 0.12             | 0.496                  | 0.610                  |
|          | LTE Band 71 | 20M      | QPSK       | 100     | 0         | Back          | 5mm      | OFF             | 133322 | 683         | 22.01               | 23.00               | 1.256                  | 0.12             | 0.469                  | 0.589                  |
|          | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Left Side     | 5mm      | OFF             | 133322 | 683         | 23.18               | 24.00               | 1.208                  | 0                | 0.302                  | 0.365                  |
|          | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Left Side     | 5mm      | OFF             | 133322 | 683         | 22.10               | 23.00               | 1.230                  | 0.04             | 0.249                  | 0.306                  |
|          | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Right Side    | 5mm      | OFF             | 133322 | 683         | 23.18               | 24.00               | 1.208                  | 0                | 0.278                  | 0.336                  |
|          | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Right Side    | 5mm      | OFF             | 133322 | 683         | 22.10               | 23.00               | 1.230                  | 0.01             | 0.176                  | 0.217                  |
|          | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | OFF             | 133322 | 683         | 23.18               | 24.00               | 1.208                  | -0.17            | 0.224                  | 0.271                  |
|          | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 5mm      | OFF             | 133322 | 683         | 22.10               | 23.00               | 1.230                  | -0.13            | 0.139                  | 0.171                  |



**<TDD LTE SAR>**

| Plot No. | Band                   | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 41490       | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | 0.02             | 0.551                  | 0.565                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | ON              | 41490       | 2680        | 19.42               | 20.00               | 1.143                  | 62.90        | 1.006                     | 0.11             | 0.439                  | 0.505                  |
| 41       | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | 0.07             | 1.090                  | 1.117                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 39750       | 2506        | 19.26               | 20.00               | 1.186                  | 62.90        | 1.006                     | 0.09             | 0.756                  | 0.902                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40185       | 2549.5      | 19.35               | 20.00               | 1.161                  | 62.90        | 1.006                     | 0.12             | 0.719                  | 0.840                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40620       | 2593        | 19.26               | 20.00               | 1.186                  | 62.90        | 1.006                     | 0.12             | 0.749                  | 0.893                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41055       | 2636.5      | 19.24               | 20.00               | 1.191                  | 62.90        | 1.006                     | 0.11             | 0.733                  | 0.878                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 19.42               | 20.00               | 1.143                  | 62.90        | 1.006                     | -0.02            | 0.520                  | 0.598                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 100     | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 19.45               | 20.00               | 1.135                  | 62.90        | 1.006                     | 0.04             | 0.521                  | 0.595                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Right Side    | 5mm      | ON              | 41490       | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | -0.08            | 0.821                  | 0.841                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Right Side    | 5mm      | ON              | 39750       | 2506        | 19.26               | 20.00               | 1.186                  | 62.90        | 1.006                     | 0.17             | 0.597                  | 0.712                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Right Side    | 5mm      | ON              | 40185       | 2549.5      | 19.35               | 20.00               | 1.161                  | 62.90        | 1.006                     | -0.11            | 0.650                  | 0.759                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Right Side    | 5mm      | ON              | 40620       | 2593        | 19.26               | 20.00               | 1.186                  | 62.90        | 1.006                     | -0.15            | 0.671                  | 0.800                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Right Side    | 5mm      | ON              | 41055       | 2636.5      | 19.24               | 20.00               | 1.191                  | 62.90        | 1.006                     | -0.13            | 0.731                  | 0.876                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 0         | Right Side    | 5mm      | ON              | 41490       | 2680        | 19.42               | 20.00               | 1.143                  | 62.90        | 1.006                     | 0.11             | 0.843                  | 0.969                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 0         | Right Side    | 5mm      | ON              | 39750       | 2506        | 19.27               | 20.00               | 1.183                  | 62.90        | 1.006                     | -0.02            | 0.702                  | 0.835                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 0         | Right Side    | 5mm      | ON              | 40185       | 2549.5      | 19.37               | 20.00               | 1.156                  | 62.90        | 1.006                     | -0.03            | 0.777                  | 0.904                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 0         | Right Side    | 5mm      | ON              | 40620       | 2593        | 19.37               | 20.00               | 1.156                  | 62.90        | 1.006                     | -0.04            | 0.838                  | 0.975                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 0         | Right Side    | 5mm      | ON              | 41055       | 2636.5      | 19.29               | 20.00               | 1.178                  | 62.90        | 1.006                     | -0.12            | 0.821                  | 0.973                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 100     | 0         | Right Side    | 5mm      | ON              | 41490       | 2680        | 19.45               | 20.00               | 1.135                  | 62.90        | 1.006                     | -0.19            | 0.494                  | 0.564                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | ON              | 41490       | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | -0.11            | 0.201                  | 0.206                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 0         | Bottom Side   | 5mm      | ON              | 41490       | 2680        | 19.42               | 20.00               | 1.143                  | 62.90        | 1.006                     | -0.06            | 0.159                  | 0.183                  |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 20.53               | 21.00               | 1.114                  | 42.90        | 1.009                     | 0.13             | 0.724                  | 0.814                  |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 39750       | 2506        | 19.75               | 21.00               | 1.334                  | 42.90        | 1.009                     | 0.13             | 0.612                  | 0.823                  |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40185       | 2549.5      | 19.76               | 21.00               | 1.330                  | 42.90        | 1.009                     | 0.11             | 0.609                  | 0.818                  |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40620       | 2593        | 19.77               | 21.00               | 1.327                  | 42.90        | 1.009                     | 0.05             | 0.654                  | 0.876                  |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41055       | 2636.5      | 19.75               | 21.00               | 1.334                  | 42.90        | 1.009                     | 0.13             | 0.638                  | 0.858                  |
|          | LTE Band 41_UL_CA_Main | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40185+39987 | 2549.5      | 19.64               | 20.00               | 1.086                  | 62.90        | 1.006                     | 0.08             | 0.725                  | 0.792                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 41490       | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | 0.1              | 0.506                  | 0.518                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | ON              | 41490       | 2680        | 19.42               | 20.00               | 1.143                  | 62.90        | 1.006                     | -0.11            | 0.402                  | 0.462                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | -0.05            | 0.788                  | 0.807                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 39750       | 2506        | 19.26               | 20.00               | 1.186                  | 62.90        | 1.006                     | -0.17            | 0.734                  | 0.876                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40185       | 2549.5      | 19.35               | 20.00               | 1.161                  | 62.90        | 1.006                     | -0.18            | 0.721                  | 0.842                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40620       | 2593        | 19.26               | 20.00               | 1.186                  | 62.90        | 1.006                     | -0.1             | 0.739                  | 0.882                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41055       | 2636.5      | 19.24               | 20.00               | 1.191                  | 62.90        | 1.006                     | -0.12            | 0.704                  | 0.844                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 19.42               | 20.00               | 1.143                  | 62.90        | 1.006                     | -0.12            | 0.662                  | 0.761                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 39750       | 2506        | 19.27               | 20.00               | 1.183                  | 62.90        | 1.006                     | -0.14            | 0.731                  | 0.870                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 40185       | 2549.5      | 19.37               | 20.00               | 1.156                  | 62.90        | 1.006                     | -0.19            | 0.707                  | 0.822                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 40620       | 2593        | 19.37               | 20.00               | 1.156                  | 62.90        | 1.006                     | -0.14            | 0.672                  | 0.782                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 41055       | 2636.5      | 19.29               | 20.00               | 1.178                  | 62.90        | 1.006                     | -0.13            | 0.689                  | 0.816                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 100     | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 19.45               | 20.00               | 1.135                  | 62.90        | 1.006                     | -0.1             | 0.632                  | 0.722                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Left Side     | 5mm      | ON              | 41490       | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | 0.03             | 0.564                  | 0.578                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Left Side     | 5mm      | ON              | 41490       | 2680        | 19.42               | 20.00               | 1.143                  | 62.90        | 1.006                     | -0.01            | 0.459                  | 0.528                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Bottom Side   | 5mm      | ON              | 41490       | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | 0.01             | 0.137                  | 0.140                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Bottom Side   | 5mm      | ON              | 41490       | 2680        | 19.42               | 20.00               | 1.143                  | 62.90        | 1.006                     | 0.01             | 0.111                  | 0.128                  |
|          | LTE Band 41_PC2_Aux    | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 20.53               | 21.00               | 1.114                  | 42.90        | 1.009                     | 0.07             | 0.433                  | 0.487                  |
|          | LTE Band 41_UL_CA_Aux  | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40185+39987 | 2549.5      | 19.64               | 20.00               | 1.086                  | 62.90        | 1.006                     | -0.19            | 0.631                  | 0.690                  |

**<Bluetooth SAR>**

| Plot No. | Band      | Mode  | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|-------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | 1Mbps | Front         | 5mm      | ON              | 0   | 2402        | 9.76                | 10.00               | 1.057                  | -0.02            | 0.033                  | 0.035                  |
|          | Bluetooth | 1Mbps | Back          | 5mm      | ON              | 0   | 2402        | 9.76                | 10.00               | 1.057                  | -0.01            | 0.043                  | 0.045                  |
|          | Bluetooth | 1Mbps | Left Side     | 5mm      | ON              | 0   | 2402        | 9.76                | 10.00               | 1.057                  | 0.03             | 0.067                  | 0.071                  |
| 42       | Bluetooth | 1Mbps | Left Side     | 5mm      | ON              | 39  | 2441        | 8.86                | 10.00               | 1.300                  | 0.06             | 0.062                  | 0.081                  |
|          | Bluetooth | 1Mbps | Left Side     | 5mm      | ON              | 78  | 2480        | 8.28                | 10.00               | 1.486                  | 0.09             | 0.044                  | 0.065                  |
|          | Bluetooth | 1Mbps | Top Side      | 5mm      | ON              | 0   | 2402        | 9.76                | 10.00               | 1.057                  | 0.17             | 0.011                  | 0.012                  |

**<WLAN SAR>**

| Plot No. | Band       | Mode                | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|---------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN2.4GHz | 802.11b 1Mbps       | Front         | 5mm      | ON              | 11  | 2462        | 18.96               | 20.50               | 1.426                  | 99.42        | 1.006                     | 0.12             | 0.583                  | 0.836                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Front         | 5mm      | ON              | 1   | 2412        | 18.85               | 20.50               | 1.462                  | 99.42        | 1.006                     | 0.09             | 0.533                  | 0.784                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Front         | 5mm      | ON              | 6   | 2437        | 18.87               | 20.50               | 1.455                  | 99.42        | 1.006                     | 0.07             | 0.589                  | 0.862                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Back          | 5mm      | ON              | 11  | 2462        | 18.96               | 20.50               | 1.426                  | 99.42        | 1.006                     | -0.12            | 0.661                  | 0.948                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Back          | 5mm      | ON              | 1   | 2412        | 18.85               | 20.50               | 1.462                  | 99.42        | 1.006                     | 0.04             | 0.644                  | 0.947                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Back          | 5mm      | ON              | 6   | 2437        | 18.87               | 20.50               | 1.455                  | 99.42        | 1.006                     | -0.18            | 0.689                  | 1.009                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Left Side     | 5mm      | ON              | 11  | 2462        | 18.96               | 20.50               | 1.426                  | 99.42        | 1.006                     | -0.17            | 0.736                  | 1.056                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Left Side     | 5mm      | ON              | 1   | 2412        | 18.85               | 20.50               | 1.462                  | 99.42        | 1.006                     | -0.16            | 0.708                  | 1.041                  |
| 43       | WLAN2.4GHz | 802.11b 1Mbps       | Left Side     | 5mm      | ON              | 6   | 2437        | 18.87               | 20.50               | 1.455                  | 99.42        | 1.006                     | -0.16            | 0.816                  | 1.195                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Top Side      | 5mm      | ON              | 11  | 2462        | 18.96               | 20.50               | 1.426                  | 99.42        | 1.006                     | -0.17            | 0.192                  | 0.275                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Front         | 5mm      | ON              | 42  | 5210        | 14.99               | 15.00               | 1.002                  | 87.06        | 1.149                     | -0.19            | 0.369                  | 0.425                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Back          | 5mm      | ON              | 42  | 5210        | 14.99               | 15.00               | 1.002                  | 87.06        | 1.149                     | 0.13             | 0.451                  | 0.519                  |
| 44       | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Left Side     | 5mm      | ON              | 42  | 5210        | 14.99               | 15.00               | 1.002                  | 87.06        | 1.149                     | -0.15            | 0.565                  | 0.650                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Top Side      | 5mm      | ON              | 42  | 5210        | 14.99               | 15.00               | 1.002                  | 87.06        | 1.149                     | 0.03             | 0.116                  | 0.134                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Front         | 5mm      | ON              | 155 | 5775        | 14.88               | 15.00               | 1.028                  | 87.06        | 1.149                     | -0.19            | 0.403                  | 0.476                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Back          | 5mm      | ON              | 155 | 5775        | 14.88               | 15.00               | 1.028                  | 87.06        | 1.149                     | 0.18             | 0.482                  | 0.569                  |
| 45       | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Left Side     | 5mm      | ON              | 155 | 5775        | 14.88               | 15.00               | 1.028                  | 87.06        | 1.149                     | 0.01             | 0.619                  | 0.731                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Top Side      | 5mm      | ON              | 155 | 5775        | 14.88               | 15.00               | 1.028                  | 87.06        | 1.149                     | -0.02            | 0.096                  | 0.113                  |

**14.3 Product Specific SAR****<GSM SAR>**

| Plot No. | Band    | Mode              | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|---------|-------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| 46       | GSM1900 | GPRS (3 Tx slots) | Bottom Side   | 0mm      | OFF             | 810 | 1909.8      | 26.87               | 28.00               | 1.297                  | 0.02             | 1.060                   | 1.375                   |

**<WCDMA SAR>**

| Plot No. | Band     | Mode         | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|----------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
|          | WCDMA II | RMC 12.2Kbps | Bottom Side   | 0mm      | ON              | 9538 | 1907.6      | 22.31               | 23.00               | 1.172                  | -0.14            | 2.440                   | 2.860                   |
| 47       | WCDMA II | RMC 12.2Kbps | Bottom Side   | 0mm      | ON              | 9262 | 1852.4      | 22.23               | 23.00               | 1.194                  | -0.17            | 2.530                   | 3.021                   |
|          | WCDMA II | RMC 12.2Kbps | Bottom Side   | 0mm      | ON              | 9400 | 1880        | 22.21               | 23.00               | 1.199                  | -0.15            | 2.470                   | 2.963                   |
|          | WCDMA IV | RMC 12.2Kbps | Bottom Side   | 0mm      | ON              | 1513 | 1752.6      | 22.00               | 22.00               | 1.000                  | -0.03            | 3.030                   | 3.030                   |
| 48       | WCDMA IV | RMC 12.2Kbps | Bottom Side   | 0mm      | ON              | 1312 | 1712.4      | 21.87               | 22.00               | 1.030                  | -0.03            | 3.060                   | 3.153                   |
|          | WCDMA IV | RMC 12.2Kbps | Bottom Side   | 0mm      | ON              | 1413 | 1732.6      | 21.82               | 22.00               | 1.042                  | -0.07            | 2.830                   | 2.950                   |

**<CDMA SAR>**

| Plot No. | Band     | Mode           | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|----------|----------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
|          | CDMA BC1 | RTAP 153.6Kbps | Bottom Side   | 0mm      | ON              | 25   | 1851.25     | 21.22               | 23.00               | 1.507                  | 0.16             | 1.810                   | 2.727                   |
| 49       | CDMA BC1 | RTAP 153.6Kbps | Bottom Side   | 0mm      | ON              | 600  | 1880        | 21.17               | 23.00               | 1.524                  | 0.06             | 1.840                   | 2.804                   |
|          | CDMA BC1 | RTAP 153.6Kbps | Bottom Side   | 0mm      | ON              | 1175 | 1908.75     | 21.19               | 23.00               | 1.517                  | 0.04             | 1.830                   | 2.776                   |

**<FDD LTE SAR>**

| Plot No. | Band             | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|------------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
|          | LTE Band 7_Main  | 20M      | QPSK       | 1       | 49        | Right Side    | 0mm      | ON              | 21350  | 2560        | 20.99               | 21.50               | 1.125                  | -0.07            | 2.810                   | 3.160                   |
|          | LTE Band 7_Main  | 20M      | QPSK       | 1       | 49        | Right Side    | 0mm      | ON              | 20850  | 2510        | 20.88               | 21.50               | 1.153                  | 0.02             | 2.680                   | 3.091                   |
| 50       | LTE Band 7_Main  | 20M      | QPSK       | 1       | 49        | Right Side    | 0mm      | ON              | 21100  | 2535        | 20.84               | 21.50               | 1.164                  | -0.11            | 2.740                   | 3.190                   |
|          | LTE Band 7_Aux   | 20M      | QPSK       | 1       | 49        | Left Side     | 0mm      | ON              | 21350  | 2560        | 20.99               | 21.50               | 1.125                  | -0.05            | 2.420                   | 2.722                   |
|          | LTE Band 7_Aux   | 20M      | QPSK       | 1       | 49        | Left Side     | 0mm      | ON              | 20850  | 2510        | 20.88               | 21.50               | 1.153                  | -0.09            | 2.250                   | 2.595                   |
|          | LTE Band 7_Aux   | 20M      | QPSK       | 1       | 49        | Left Side     | 0mm      | ON              | 21100  | 2535        | 20.84               | 21.50               | 1.164                  | -0.08            | 2.270                   | 2.643                   |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | ON              | 26140  | 1860        | 20.71               | 22.50               | 1.510                  | -0.12            | 1.720                   | 2.597                   |
| 51       | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | ON              | 26340  | 1880        | 20.66               | 22.50               | 1.528                  | -0.17            | 1.720                   | 2.627                   |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | ON              | 26590  | 1905        | 20.62               | 22.50               | 1.542                  | -0.19            | 1.680                   | 2.590                   |
| 52       | LTE Band 30_Main | 10M      | QPSK       | 1       | 0         | Right Side    | 0mm      | ON              | 27710  | 2310        | 22.66               | 23.50               | 1.213                  | 0.05             | 2.520                   | 3.058                   |
| 53       | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | ON              | 132572 | 1770        | 22.28               | 23.00               | 1.180                  | -0.11            | 2.660                   | 3.140                   |
|          | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | ON              | 132072 | 1720        | 22.09               | 23.00               | 1.233                  | 0.14             | 2.530                   | 3.120                   |
|          | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | ON              | 132322 | 1745        | 22.20               | 23.00               | 1.202                  | 0.12             | 2.600                   | 3.126                   |



**<TDD LTE SAR>**

| Plot No. | Band                   | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|------------------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Right Side    | 0mm      | ON              | 41490       | 2680        | 23.92               | 24.00               | 1.019                  | 62.90        | 1.006                     | -0.08            | 3.100                   | 3.177                   |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Right Side    | 0mm      | ON              | 39750       | 2506        | 22.96               | 24.00               | 1.271                  | 62.90        | 1.006                     | 0.05             | 2.230                   | 2.850                   |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Right Side    | 0mm      | ON              | 40185       | 2549.5      | 22.95               | 24.00               | 1.274                  | 62.90        | 1.006                     | 0.03             | 2.260                   | 2.895                   |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Right Side    | 0mm      | ON              | 40620       | 2593        | 22.96               | 24.00               | 1.271                  | 62.90        | 1.006                     | 0.06             | 2.350                   | 3.004                   |
| 54       | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Right Side    | 0mm      | ON              | 41055       | 2636.5      | 22.89               | 24.00               | 1.291                  | 62.90        | 1.006                     | -0.05            | 2.460                   | 3.195                   |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Right Side    | 0mm      | ON              | 41490       | 2680        | 24.60               | 25.50               | 1.230                  | 42.90        | 1.009                     | -0.04            | 2.210                   | 2.743                   |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Right Side    | 0mm      | ON              | 39750       | 2506        | 23.75               | 25.50               | 1.496                  | 42.90        | 1.009                     | -0.07            | 1.790                   | 2.702                   |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Right Side    | 0mm      | ON              | 40185       | 2549.5      | 23.70               | 25.50               | 1.514                  | 42.90        | 1.009                     | -0.06            | 1.720                   | 2.627                   |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Right Side    | 0mm      | ON              | 40620       | 2593        | 23.56               | 25.50               | 1.563                  | 42.90        | 1.009                     | -0.07            | 1.810                   | 2.855                   |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Right Side    | 0mm      | ON              | 41055       | 2636.5      | 23.52               | 25.50               | 1.578                  | 42.90        | 1.009                     | -0.02            | 1.780                   | 2.833                   |
|          | LTE Band 41_UL CA_Main | 20M      | QPSK       | 1       | 0         | Right Side    | 0mm      | ON              | 40185+39987 | 2549.5      | 23.14               | 24.00               | 1.219                  | 62.90        | 1.006                     | 0.13             | 2.250                   | 2.759                   |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | ON              | 41490       | 2680        | 23.92               | 24.00               | 1.019                  | 62.90        | 1.006                     | -0.1             | 2.550                   | 2.613                   |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | ON              | 39750       | 2506        | 22.96               | 24.00               | 1.271                  | 62.90        | 1.006                     | -0.16            | 1.770                   | 2.262                   |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | ON              | 40185       | 2549.5      | 22.95               | 24.00               | 1.274                  | 62.90        | 1.006                     | -0.1             | 1.950                   | 2.498                   |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | ON              | 40620       | 2593        | 22.96               | 24.00               | 1.271                  | 62.90        | 1.006                     | -0.03            | 2.020                   | 2.582                   |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | ON              | 41055       | 2636.5      | 22.89               | 24.00               | 1.291                  | 62.90        | 1.006                     | -0.05            | 2.100                   | 2.728                   |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | ON              | 41490       | 2680        | 24.60               | 25.50               | 1.230                  | 42.90        | 1.009                     | -0.04            | 1.800                   | 2.234                   |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | ON              | 39750       | 2506        | 23.75               | 25.50               | 1.496                  | 42.90        | 1.009                     | -0.19            | 1.480                   | 2.234                   |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | ON              | 40185       | 2549.5      | 23.70               | 25.50               | 1.514                  | 42.90        | 1.009                     | -0.09            | 1.400                   | 2.138                   |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | ON              | 40620       | 2593        | 23.56               | 25.50               | 1.563                  | 42.90        | 1.009                     | 0.02             | 1.550                   | 2.445                   |
|          | LTE Band 41_PC2_Aux    | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | ON              | 41055       | 2636.5      | 23.52               | 25.50               | 1.578                  | 42.90        | 1.009                     | 0.1              | 1.520                   | 2.420                   |
|          | LTE Band 41_UL CA_Aux  | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | ON              | 40185+39987 | 2549.5      | 23.14               | 24.00               | 1.219                  | 62.90        | 1.006                     | 0.02             | 1.880                   | 2.305                   |

**<WLAN SAR>**

| Plot No. | Band       | Mode                | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|------------|---------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
| 55       | WLAN2.4GHz | 802.11b 1Mbps       | Left Side     | 0mm      | OFF             | 6   | 2437        | 19.74               | 21.00               | 1.337                  | 99.42        | 1.006                     | 0.02             | 1.100                   | 1.479                   |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Front         | 0mm      | ON              | 58  | 5290        | 17.20               | 17.50               | 1.071                  | 87.06        | 1.149                     | -0.13            | 0.947                   | 1.165                   |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Back          | 0mm      | ON              | 58  | 5290        | 17.20               | 17.50               | 1.071                  | 87.06        | 1.149                     | 0.15             | 0.433                   | 0.533                   |
|          | WLAN5GHz   | 802.11a 6Mbps       | Top Side      | 0mm      | OFF             | 64  | 5320        | 19.98               | 20.00               | 1.005                  | 93.64        | 1.068                     | -0.05            | 0.276                   | 0.296                   |
| 56       | WLAN5GHz   | 802.11a 6Mbps       | Left Side     | 0mm      | OFF             | 64  | 5320        | 19.98               | 20.00               | 1.005                  | 93.64        | 1.068                     | 0.12             | 2.670                   | 2.865                   |
|          | WLAN5GHz   | 802.11a 6Mbps       | Left Side     | 0mm      | OFF             | 60  | 5300        | 19.97               | 20.00               | 1.007                  | 93.64        | 1.068                     | -0.11            | 2.520                   | 2.710                   |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Front         | 0mm      | ON              | 138 | 5690        | 17.44               | 17.50               | 1.014                  | 87.06        | 1.149                     | -0.18            | 0.763                   | 0.889                   |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Back          | 0mm      | ON              | 138 | 5690        | 17.44               | 17.50               | 1.014                  | 87.06        | 1.149                     | 0.11             | 0.555                   | 0.647                   |
|          | WLAN5GHz   | 802.11a 6Mbps       | Top Side      | 0mm      | OFF             | 100 | 5500        | 19.96               | 20.00               | 1.009                  | 93.64        | 1.068                     | -0.09            | 0.246                   | 0.265                   |
|          | WLAN5GHz   | 802.11a 6Mbps       | Left Side     | 0mm      | OFF             | 100 | 5500        | 19.96               | 20.00               | 1.009                  | 93.64        | 1.068                     | -0.15            | 1.580                   | 1.703                   |
| 57       | WLAN5GHz   | 802.11a 6Mbps       | Left Side     | 0mm      | OFF             | 144 | 5720        | 19.95               | 20.00               | 1.012                  | 93.64        | 1.068                     | -0.11            | 2.290                   | 2.474                   |
|          | WLAN5GHz   | 802.11a 6Mbps       | Left Side     | 0mm      | OFF             | 157 | 5785        | 19.99               | 20.00               | 1.002                  | 93.64        | 1.068                     | -0.18            | 2.000                   | 2.141                   |
| 58       | WLAN5GHz   | 802.11a 6Mbps       | Left Side     | 0mm      | OFF             | 165 | 5825        | 19.98               | 20.00               | 1.005                  | 93.64        | 1.068                     | -0.11            | 2.520                   | 2.704                   |

**14.4 Body Worn Accessory SAR**
**<GSM SAR>**

| Plot No. | Band    | Mode              | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | GSM850  | GPRS (2 Tx slots) | Front         | 5mm      | OFF             | 251 | 848.8       | 31.55               | 32.00               | 1.109                  | 0.18             | 0.324                  | 0.359                  |
|          | GSM850  | GPRS (2 Tx slots) | Back          | 5mm      | OFF             | 251 | 848.8       | 31.55               | 32.00               | 1.109                  | 0.09             | 0.421                  | 0.467                  |
| 59       | GSM850  | GPRS (2 Tx slots) | Back          | 5mm      | OFF             | 128 | 824.2       | 30.31               | 32.00               | 1.476                  | -0.15            | 0.460                  | 0.679                  |
|          | GSM850  | GPRS (2 Tx slots) | Back          | 5mm      | OFF             | 189 | 836.4       | 31.04               | 32.00               | 1.247                  | -0.14            | 0.429                  | 0.535                  |
|          | GSM1900 | GPRS (3 Tx slots) | Front         | 5mm      | ON              | 810 | 1909.8      | 21.05               | 21.50               | 1.109                  | -0.09            | 0.963                  | 1.068                  |
|          | GSM1900 | GPRS (3 Tx slots) | Front         | 5mm      | ON              | 512 | 1850.2      | 20.93               | 21.50               | 1.140                  | -0.12            | 0.903                  | 1.030                  |
|          | GSM1900 | GPRS (3 Tx slots) | Front         | 5mm      | ON              | 661 | 1880        | 20.95               | 21.50               | 1.135                  | 0.11             | 0.934                  | 1.060                  |
| 60       | GSM1900 | GPRS (3 Tx slots) | Back          | 5mm      | ON              | 810 | 1909.8      | 21.05               | 21.50               | 1.109                  | -0.04            | 1.040                  | 1.154                  |
|          | GSM1900 | GPRS (3 Tx slots) | Back          | 5mm      | ON              | 512 | 1850.2      | 20.93               | 21.50               | 1.140                  | -0.01            | 0.944                  | 1.076                  |
|          | GSM1900 | GPRS (3 Tx slots) | Back          | 5mm      | ON              | 661 | 1880        | 20.95               | 21.50               | 1.135                  | -0.02            | 0.993                  | 1.127                  |

**<WCDMA SAR>**

| Plot No. | Band     | Mode         | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | WCDMA II | RMC 12.2Kbps | Front         | 5mm      | ON              | 9262 | 1852.4      | 16.46               | 17.50               | 1.271                  | 0.18             | 0.806                  | 1.024                  |
| 61       | WCDMA II | RMC 12.2Kbps | Front         | 5mm      | ON              | 9400 | 1880        | 16.33               | 17.50               | 1.309                  | 0.17             | 0.899                  | 1.177                  |
|          | WCDMA II | RMC 12.2Kbps | Front         | 5mm      | ON              | 9538 | 1907.6      | 16.30               | 17.50               | 1.318                  | 0.12             | 0.789                  | 1.040                  |
|          | WCDMA II | RMC 12.2Kbps | Back          | 5mm      | ON              | 9262 | 1852.4      | 16.46               | 17.50               | 1.271                  | 0.14             | 0.734                  | 0.933                  |
|          | WCDMA II | RMC 12.2Kbps | Back          | 5mm      | ON              | 9400 | 1880        | 16.33               | 17.50               | 1.309                  | 0.03             | 0.706                  | 0.924                  |
|          | WCDMA II | RMC 12.2Kbps | Back          | 5mm      | ON              | 9538 | 1907.6      | 16.30               | 17.50               | 1.318                  | 0.1              | 0.764                  | 1.007                  |
| 62       | WCDMA IV | RMC 12.2Kbps | Front         | 5mm      | ON              | 1513 | 1752.6      | 15.53               | 17.00               | 1.403                  | -0.1             | 0.704                  | 0.988                  |
|          | WCDMA IV | RMC 12.2Kbps | Front         | 5mm      | ON              | 1312 | 1712.4      | 15.45               | 17.00               | 1.429                  | -0.03            | 0.631                  | 0.902                  |
|          | WCDMA IV | RMC 12.2Kbps | Front         | 5mm      | ON              | 1413 | 1732.6      | 15.44               | 17.00               | 1.432                  | -0.04            | 0.650                  | 0.931                  |
|          | WCDMA IV | RMC 12.2Kbps | Back          | 5mm      | ON              | 1513 | 1752.6      | 15.53               | 17.00               | 1.403                  | 0.14             | 0.653                  | 0.916                  |
|          | WCDMA IV | RMC 12.2Kbps | Back          | 5mm      | ON              | 1312 | 1712.4      | 15.45               | 17.00               | 1.429                  | -0.05            | 0.596                  | 0.852                  |
|          | WCDMA IV | RMC 12.2Kbps | Back          | 5mm      | ON              | 1413 | 1732.6      | 15.44               | 17.00               | 1.432                  | -0.05            | 0.606                  | 0.868                  |
|          | WCDMA V  | RMC 12.2Kbps | Front         | 5mm      | ON              | 4182 | 836.4       | 22.26               | 23.50               | 1.330                  | -0.05            | 0.527                  | 0.701                  |
|          | WCDMA V  | RMC 12.2Kbps | Back          | 5mm      | ON              | 4182 | 836.4       | 22.26               | 23.50               | 1.330                  | -0.06            | 0.665                  | 0.885                  |
|          | WCDMA V  | RMC 12.2Kbps | Back          | 5mm      | ON              | 4132 | 826.4       | 22.20               | 23.50               | 1.349                  | -0.08            | 0.619                  | 0.835                  |
| 63       | WCDMA V  | RMC 12.2Kbps | Back          | 5mm      | ON              | 4233 | 846.6       | 22.15               | 23.50               | 1.365                  | -0.08            | 0.658                  | 0.898                  |

**<CDMA SAR>**

| Plot No. | Band      | Mode           | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|----------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | CDMA BC0  | 1xRTT RC3 SO32 | Front         | 5mm      | ON              | 777  | 848.31      | 22.87               | 23.50               | 1.156                  | -0.15            | 0.670                  | 0.775                  |
| 64       | CDMA BC0  | 1xRTT RC3 SO32 | Back          | 5mm      | ON              | 777  | 848.31      | 22.87               | 23.50               | 1.156                  | -0.18            | 0.890                  | 1.029                  |
|          | CDMA BC0  | 1xRTT RC3 SO32 | Back          | 5mm      | ON              | 1013 | 824.7       | 22.68               | 23.50               | 1.208                  | -0.13            | 0.775                  | 0.936                  |
|          | CDMA BC0  | 1xRTT RC3 SO32 | Back          | 5mm      | ON              | 384  | 836.52      | 22.79               | 23.50               | 1.178                  | -0.12            | 0.792                  | 0.933                  |
|          | CDMA BC1  | 1xRTT RC3 SO32 | Front         | 5mm      | ON              | 25   | 1851.25     | 16.67               | 18.00               | 1.358                  | -0.07            | 0.718                  | 0.975                  |
|          | CDMA BC1  | 1xRTT RC3 SO32 | Front         | 5mm      | ON              | 600  | 1880        | 16.65               | 18.00               | 1.365                  | 0.14             | 0.708                  | 0.966                  |
|          | CDMA BC1  | 1xRTT RC3 SO32 | Front         | 5mm      | ON              | 1175 | 1908.75     | 16.63               | 18.00               | 1.371                  | 0.01             | 0.710                  | 0.973                  |
| 65       | CDMA BC1  | 1xRTT RC3 SO32 | Back          | 5mm      | ON              | 25   | 1851.25     | 16.67               | 18.00               | 1.358                  | 0.03             | 0.789                  | 1.072                  |
|          | CDMA BC1  | 1xRTT RC3 SO32 | Back          | 5mm      | ON              | 600  | 1880        | 16.65               | 18.00               | 1.365                  | -0.11            | 0.661                  | 0.902                  |
|          | CDMA BC1  | 1xRTT RC3 SO32 | Back          | 5mm      | ON              | 1175 | 1908.75     | 16.63               | 18.00               | 1.371                  | -0.16            | 0.776                  | 1.064                  |
|          | CDMA BC10 | 1xRTT RC3 SO32 | Front         | 5mm      | ON              | 580  | 820.5       | 22.67               | 23.50               | 1.211                  | -0.11            | 0.576                  | 0.697                  |
|          | CDMA BC10 | 1xRTT RC3 SO32 | Back          | 5mm      | ON              | 580  | 820.5       | 22.67               | 23.50               | 1.211                  | -0.07            | 0.767                  | 0.929                  |
| 66       | CDMA BC10 | 1xRTT RC3 SO32 | Back          | 5mm      | ON              | 476  | 817.9       | 22.60               | 23.50               | 1.230                  | -0.12            | 0.785                  | 0.966                  |
|          | CDMA BC10 | 1xRTT RC3 SO32 | Back          | 5mm      | ON              | 684  | 823.1       | 22.64               | 23.50               | 1.219                  | -0.1             | 0.741                  | 0.903                  |



**<FDD LTE SAR>**

| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 49        | Front         | 5mm      | ON              | 21350 | 2560        | 16.85               | 18.00               | 1.303                  | 0.1              | 0.482                  | 0.628                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Front         | 5mm      | ON              | 21350 | 2560        | 16.82               | 18.00               | 1.312                  | 0.13             | 0.489                  | 0.642                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 49        | Back          | 5mm      | ON              | 21350 | 2560        | 16.85               | 18.00               | 1.303                  | 0.11             | 0.785                  | 1.023                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 49        | Back          | 5mm      | ON              | 20850 | 2510        | 16.81               | 18.00               | 1.315                  | 0.18             | 0.809                  | 1.064                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 1       | 49        | Back          | 5mm      | ON              | 21100 | 2535        | 16.83               | 18.00               | 1.309                  | 0.17             | 0.791                  | 1.036                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Back          | 5mm      | ON              | 21350 | 2560        | 16.82               | 18.00               | 1.312                  | 0.11             | 0.801                  | 1.051                  |
| 67       | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Back          | 5mm      | ON              | 20850 | 2510        | 16.66               | 18.00               | 1.361                  | 0.11             | 0.804                  | 1.095                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 50      | 50        | Back          | 5mm      | ON              | 21100 | 2535        | 16.73               | 18.00               | 1.340                  | 0.13             | 0.759                  | 1.017                  |
|          | LTE Band 7_Main | 20M      | QPSK       | 100     | 0         | Back          | 5mm      | ON              | 21350 | 2560        | 16.71               | 18.00               | 1.346                  | 0.14             | 0.729                  | 0.981                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 49        | Front         | 5mm      | ON              | 21350 | 2560        | 16.85               | 18.00               | 1.303                  | 0.14             | 0.382                  | 0.498                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Front         | 5mm      | ON              | 21350 | 2560        | 16.82               | 18.00               | 1.312                  | 0.16             | 0.390                  | 0.512                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 49        | Back          | 5mm      | ON              | 21350 | 2560        | 16.85               | 18.00               | 1.303                  | -0.18            | 0.663                  | 0.864                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 49        | Back          | 5mm      | ON              | 20850 | 2510        | 16.81               | 18.00               | 1.315                  | -0.11            | 0.523                  | 0.688                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 1       | 49        | Back          | 5mm      | ON              | 21100 | 2535        | 16.83               | 18.00               | 1.309                  | -0.16            | 0.625                  | 0.818                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Back          | 5mm      | ON              | 21350 | 2560        | 16.82               | 18.00               | 1.312                  | -0.1             | 0.610                  | 0.800                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Back          | 5mm      | ON              | 20850 | 2510        | 16.66               | 18.00               | 1.361                  | -0.18            | 0.582                  | 0.792                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 50      | 50        | Back          | 5mm      | ON              | 21100 | 2535        | 16.73               | 18.00               | 1.340                  | -0.11            | 0.631                  | 0.845                  |
|          | LTE Band 7_Aux  | 20M      | QPSK       | 100     | 0         | Back          | 5mm      | ON              | 21350 | 2560        | 16.71               | 18.00               | 1.346                  | -0.18            | 0.641                  | 0.863                  |
|          | LTE Band 12     | 10M      | QPSK       | 1       | 49        | Front         | 5mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  | -0.02            | 0.666                  | 0.884                  |
|          | LTE Band 12     | 10M      | QPSK       | 25      | 0         | Front         | 5mm      | OFF             | 23095 | 707.5       | 21.65               | 23.00               | 1.365                  | -0.15            | 0.384                  | 0.524                  |
|          | LTE Band 12     | 10M      | QPSK       | 50      | 0         | Front         | 5mm      | OFF             | 23095 | 707.5       | 21.64               | 23.00               | 1.368                  | -0.02            | 0.374                  | 0.512                  |
| 68       | LTE Band 12     | 10M      | QPSK       | 1       | 49        | Back          | 5mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  | 0.1              | 0.872                  | 1.157                  |
|          | LTE Band 12     | 10M      | QPSK       | 25      | 0         | Back          | 5mm      | OFF             | 23095 | 707.5       | 21.65               | 23.00               | 1.365                  | 0.12             | 0.512                  | 0.699                  |
|          | LTE Band 12     | 10M      | QPSK       | 50      | 0         | Back          | 5mm      | OFF             | 23095 | 707.5       | 21.64               | 23.00               | 1.368                  | 0.11             | 0.515                  | 0.704                  |



| Plot No. | Band             | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 13      | 10M      | QPSK       | 1       | 0         | Front         | 5mm      | OFF             | 23230  | 782         | 22.72               | 24.00               | 1.343                  | -0.03            | 0.734                  | 0.986                  |
|          | LTE Band 13      | 10M      | QPSK       | 25      | 0         | Front         | 5mm      | OFF             | 23230  | 782         | 21.73               | 23.00               | 1.340                  | -0.15            | 0.423                  | 0.567                  |
|          | LTE Band 13      | 10M      | QPSK       | 50      | 0         | Front         | 5mm      | OFF             | 23230  | 782         | 21.71               | 23.00               | 1.346                  | -0.07            | 0.412                  | 0.554                  |
| 69       | LTE Band 13      | 10M      | QPSK       | 1       | 0         | Back          | 5mm      | OFF             | 23230  | 782         | 22.72               | 24.00               | 1.343                  | -0.13            | 0.846                  | 1.136                  |
|          | LTE Band 13      | 10M      | QPSK       | 25      | 0         | Back          | 5mm      | OFF             | 23230  | 782         | 21.73               | 23.00               | 1.340                  | 0.12             | 0.564                  | 0.756                  |
|          | LTE Band 13      | 10M      | QPSK       | 50      | 0         | Back          | 5mm      | OFF             | 23230  | 782         | 21.71               | 23.00               | 1.346                  | 0.12             | 0.567                  | 0.763                  |
|          | LTE Band 14      | 10M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 23330  | 793         | 22.34               | 23.50               | 1.306                  | -0.05            | 0.574                  | 0.750                  |
|          | LTE Band 14      | 10M      | QPSK       | 25      | 0         | Front         | 5mm      | ON              | 23330  | 793         | 21.74               | 23.50               | 1.500                  | -0.1             | 0.516                  | 0.774                  |
|          | LTE Band 14      | 10M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 23330  | 793         | 22.34               | 23.50               | 1.306                  | 0.09             | 0.760                  | 0.993                  |
|          | LTE Band 14      | 10M      | QPSK       | 25      | 0         | Back          | 5mm      | ON              | 23330  | 793         | 21.74               | 23.50               | 1.500                  | 0.13             | 0.703                  | 1.054                  |
| 70       | LTE Band 14      | 10M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 23330  | 793         | 21.66               | 23.50               | 1.528                  | 0.13             | 0.700                  | 1.069                  |
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 26140  | 1860        | 16.05               | 16.50               | 1.109                  | 0.19             | 0.801                  | 0.888                  |
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 26340  | 1880        | 15.87               | 16.50               | 1.156                  | 0.15             | 0.869                  | 1.005                  |
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 26590  | 1905        | 15.71               | 16.50               | 1.199                  | 0.14             | 0.879                  | 1.054                  |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | ON              | 26140  | 1860        | 15.75               | 16.50               | 1.189                  | 0.15             | 0.833                  | 0.990                  |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | ON              | 26340  | 1880        | 15.58               | 16.50               | 1.236                  | 0.15             | 0.857                  | 1.059                  |
| 71       | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | ON              | 26590  | 1905        | 15.60               | 16.50               | 1.230                  | 0.14             | 0.879                  | 1.081                  |
|          | LTE Band 25      | 20M      | QPSK       | 100     | 0         | Front         | 5mm      | ON              | 26140  | 1860        | 15.56               | 16.50               | 1.242                  | 0.15             | 0.811                  | 1.007                  |
|          | LTE Band 25      | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 26140  | 1860        | 16.05               | 16.50               | 1.109                  | 0.12             | 0.657                  | 0.729                  |
|          | LTE Band 25      | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 26140  | 1860        | 15.75               | 16.50               | 1.189                  | 0.1              | 0.623                  | 0.740                  |
|          | LTE Band 26      | 15M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 26865  | 831.5       | 21.99               | 23.50               | 1.416                  | -0.09            | 0.524                  | 0.742                  |
|          | LTE Band 26      | 15M      | QPSK       | 36      | 0         | Front         | 5mm      | ON              | 26865  | 831.5       | 21.98               | 23.50               | 1.419                  | -0.09            | 0.541                  | 0.768                  |
|          | LTE Band 26      | 15M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 26865  | 831.5       | 21.99               | 23.50               | 1.416                  | -0.01            | 0.627                  | 0.888                  |
| 72       | LTE Band 26      | 15M      | QPSK       | 36      | 0         | Back          | 5mm      | ON              | 26865  | 831.5       | 21.98               | 23.50               | 1.419                  | -0.02            | 0.646                  | 0.917                  |
|          | LTE Band 26      | 15M      | QPSK       | 75      | 0         | Back          | 5mm      | ON              | 26865  | 831.5       | 21.92               | 23.50               | 1.439                  | -0.03            | 0.630                  | 0.906                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 27710  | 2310        | 20.33               | 21.00               | 1.167                  | 0.02             | 0.537                  | 0.627                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 25      | 0         | Front         | 5mm      | ON              | 27710  | 2310        | 20.11               | 21.00               | 1.227                  | -0.04            | 0.549                  | 0.674                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 27710  | 2310        | 20.33               | 21.00               | 1.167                  | 0.11             | 0.849                  | 0.991                  |
| 73       | LTE Band 30_Main | 10M      | QPSK       | 25      | 0         | Back          | 5mm      | ON              | 27710  | 2310        | 20.11               | 21.00               | 1.227                  | 0.06             | 0.869                  | 1.067                  |
|          | LTE Band 30_Main | 10M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 27710  | 2310        | 20.03               | 21.00               | 1.250                  | 0.07             | 0.839                  | 1.049                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 27710  | 2310        | 20.33               | 21.00               | 1.167                  | 0.16             | 0.367                  | 0.428                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 25      | 0         | Front         | 5mm      | ON              | 27710  | 2310        | 20.11               | 21.00               | 1.227                  | 0.01             | 0.374                  | 0.459                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 27710  | 2310        | 20.33               | 21.00               | 1.167                  | -0.08            | 0.765                  | 0.893                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 25      | 0         | Back          | 5mm      | ON              | 27710  | 2310        | 20.11               | 21.00               | 1.227                  | -0.06            | 0.757                  | 0.929                  |
|          | LTE Band 30_Aux  | 10M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 27710  | 2310        | 20.03               | 21.00               | 1.250                  | -0.03            | 0.781                  | 0.976                  |
| 74       | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 132572 | 1770        | 15.70               | 17.00               | 1.349                  | -0.02            | 0.523                  | 0.706                  |
|          | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 132072 | 1720        | 15.58               | 17.00               | 1.387                  | -0.01            | 0.359                  | 0.498                  |
|          | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 132322 | 1745        | 15.69               | 17.00               | 1.352                  | 0.09             | 0.372                  | 0.503                  |
|          | LTE Band 66      | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | ON              | 132572 | 1770        | 15.40               | 17.00               | 1.445                  | 0.07             | 0.394                  | 0.570                  |
|          | LTE Band 66      | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 132572 | 1770        | 15.70               | 17.00               | 1.349                  | -0.1             | 0.489                  | 0.660                  |
|          | LTE Band 66      | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 132572 | 1770        | 15.40               | 17.00               | 1.445                  | 0.04             | 0.413                  | 0.597                  |
|          | LTE Band 71      | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | OFF             | 133322 | 683         | 23.18               | 24.00               | 1.208                  | -0.02            | 0.645                  | 0.779                  |
|          | LTE Band 71      | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | OFF             | 133322 | 683         | 22.10               | 23.00               | 1.230                  | -0.07            | 0.343                  | 0.422                  |
| 75       | LTE Band 71      | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | OFF             | 133322 | 683         | 23.18               | 24.00               | 1.208                  | 0.04             | 0.716                  | 0.865                  |
|          | LTE Band 71      | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | OFF             | 133322 | 683         | 22.10               | 23.00               | 1.230                  | 0.12             | 0.496                  | 0.610                  |
|          | LTE Band 71      | 20M      | QPSK       | 100     | 0         | Back          | 5mm      | OFF             | 133322 | 683         | 22.01               | 23.00               | 1.256                  | 0.12             | 0.469                  | 0.589                  |



**<TDD LTE SAR>**

| Plot No. | Band                   | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 41490       | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | 0.02             | 0.551                  | 0.565                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | ON              | 41490       | 2680        | 19.42               | 20.00               | 1.143                  | 62.90        | 1.006                     | 0.11             | 0.439                  | 0.505                  |
| 76       | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | 0.07             | 1.090                  | 1.117                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 39750       | 2506        | 19.26               | 20.00               | 1.186                  | 62.90        | 1.006                     | 0.09             | 0.756                  | 0.902                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40185       | 2549.5      | 19.35               | 20.00               | 1.161                  | 62.90        | 1.006                     | 0.12             | 0.719                  | 0.840                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40620       | 2593        | 19.26               | 20.00               | 1.186                  | 62.90        | 1.006                     | 0.12             | 0.749                  | 0.893                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41055       | 2636.5      | 19.24               | 20.00               | 1.191                  | 62.90        | 1.006                     | 0.11             | 0.733                  | 0.878                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 19.42               | 20.00               | 1.143                  | 62.90        | 1.006                     | -0.02            | 0.520                  | 0.598                  |
|          | LTE Band 41_Main       | 20M      | QPSK       | 100     | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 19.45               | 20.00               | 1.135                  | 62.90        | 1.006                     | 0.04             | 0.521                  | 0.595                  |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 20.53               | 21.00               | 1.114                  | 42.90        | 1.009                     | 0.13             | 0.724                  | 0.814                  |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 39750       | 2506        | 19.75               | 21.00               | 1.334                  | 42.90        | 1.009                     | 0.13             | 0.612                  | 0.823                  |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40185       | 2549.5      | 19.76               | 21.00               | 1.330                  | 42.90        | 1.009                     | 0.11             | 0.609                  | 0.818                  |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40620       | 2593        | 19.77               | 21.00               | 1.327                  | 42.90        | 1.009                     | 0.05             | 0.654                  | 0.876                  |
|          | LTE Band 41_PC2_Main   | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41055       | 2636.5      | 19.75               | 21.00               | 1.334                  | 42.90        | 1.009                     | 0.13             | 0.638                  | 0.858                  |
|          | LTE Band 41_UL CA_Main | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40185+39987 | 2549.5      | 19.64               | 20.00               | 1.086                  | 62.90        | 1.006                     | 0.08             | 0.725                  | 0.792                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Front         | 5mm      | ON              | 41490       | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | 0.1              | 0.506                  | 0.518                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Front         | 5mm      | ON              | 41490       | 2680        | 19.42               | 20.00               | 1.143                  | 62.90        | 1.006                     | -0.11            | 0.402                  | 0.462                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | -0.05            | 0.788                  | 0.807                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 39750       | 2506        | 19.26               | 20.00               | 1.186                  | 62.90        | 1.006                     | -0.17            | 0.734                  | 0.876                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40185       | 2549.5      | 19.35               | 20.00               | 1.161                  | 62.90        | 1.006                     | -0.18            | 0.721                  | 0.842                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40620       | 2593        | 19.26               | 20.00               | 1.186                  | 62.90        | 1.006                     | -0.1             | 0.739                  | 0.882                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41055       | 2636.5      | 19.24               | 20.00               | 1.191                  | 62.90        | 1.006                     | -0.12            | 0.704                  | 0.844                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 19.42               | 20.00               | 1.143                  | 62.90        | 1.006                     | -0.12            | 0.662                  | 0.761                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 39750       | 2506        | 19.27               | 20.00               | 1.183                  | 62.90        | 1.006                     | -0.14            | 0.731                  | 0.870                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 40185       | 2549.5      | 19.37               | 20.00               | 1.156                  | 62.90        | 1.006                     | -0.19            | 0.707                  | 0.822                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 40620       | 2593        | 19.37               | 20.00               | 1.156                  | 62.90        | 1.006                     | -0.14            | 0.672                  | 0.782                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 50      | 0         | Back          | 5mm      | ON              | 41055       | 2636.5      | 19.29               | 20.00               | 1.178                  | 62.90        | 1.006                     | -0.13            | 0.689                  | 0.816                  |
|          | LTE Band 41_Aux        | 20M      | QPSK       | 100     | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 19.45               | 20.00               | 1.135                  | 62.90        | 1.006                     | -0.1             | 0.632                  | 0.722                  |
|          | LTE Band 41_PC2_Aux    | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 41490       | 2680        | 20.53               | 21.00               | 1.114                  | 42.90        | 1.009                     | 0.07             | 0.433                  | 0.487                  |
|          | LTE Band 41_UL CA_Aux  | 20M      | QPSK       | 1       | 0         | Back          | 5mm      | ON              | 40185+39987 | 2549.5      | 19.64               | 20.00               | 1.086                  | 62.90        | 1.006                     | -0.19            | 0.631                  | 0.690                  |

**<Bluetooth SAR>**

| Plot No. | Band      | Mode  | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|-------|---------------|----------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | 1Mbps | Front         | 5mm      | 0   | 2402        | 9.76                | 10.00               | 1.057                  | -0.02            | 0.033                  | 0.035                  |
|          | Bluetooth | 1Mbps | Back          | 5mm      | 0   | 2402        | 9.76                | 10.00               | 1.057                  | -0.01            | 0.043                  | 0.045                  |
| 77       | Bluetooth | 1Mbps | Back          | 5mm      | 39  | 2441        | 8.86                | 10.00               | 1.300                  | -0.05            | 0.042                  | 0.055                  |
|          | Bluetooth | 1Mbps | Back          | 5mm      | 78  | 2480        | 8.28                | 10.00               | 1.486                  | -0.12            | 0.031                  | 0.046                  |

**<WLAN SAR>**

| Plot No. | Band       | Mode                | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|---------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN2.4GHz | 802.11b 1Mbps       | Front         | 5mm      | ON              | 11  | 2462        | 18.96               | 20.50               | 1.426                  | 99.42        | 1.006                     | 0.12             | 0.583                  | 0.836                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Front         | 5mm      | ON              | 1   | 2412        | 18.85               | 20.50               | 1.462                  | 99.42        | 1.006                     | 0.09             | 0.533                  | 0.784                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Front         | 5mm      | ON              | 6   | 2437        | 18.87               | 20.50               | 1.455                  | 99.42        | 1.006                     | 0.07             | 0.589                  | 0.862                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Back          | 5mm      | ON              | 11  | 2462        | 18.96               | 20.50               | 1.426                  | 99.42        | 1.006                     | -0.12            | 0.661                  | 0.948                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Back          | 5mm      | ON              | 1   | 2412        | 18.85               | 20.50               | 1.462                  | 99.42        | 1.006                     | 0.04             | 0.644                  | 0.947                  |
| 78       | WLAN2.4GHz | 802.11b 1Mbps       | Back          | 5mm      | ON              | 6   | 2437        | 18.87               | 20.50               | 1.455                  | 99.42        | 1.006                     | -0.18            | 0.689                  | 1.009                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Front         | 5mm      | ON              | 58  | 5290        | 17.32               | 17.50               | 1.042                  | 87.06        | 1.149                     | -0.16            | 0.570                  | 0.682                  |
| 79       | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Back          | 5mm      | ON              | 58  | 5290        | 17.32               | 17.50               | 1.042                  | 87.06        | 1.149                     | 0.03             | 0.846                  | 1.013                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0   | Back          | 5mm      | ON              | 54  | 5270        | 17.48               | 17.50               | 1.004                  | 93.90        | 1.065                     | 0.13             | 0.810                  | 0.866                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Front         | 5mm      | ON              | 138 | 5690        | 17.44               | 17.50               | 1.013                  | 87.06        | 1.149                     | -0.11            | 0.651                  | 0.758                  |
| 80       | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Back          | 5mm      | ON              | 138 | 5690        | 17.44               | 17.50               | 1.013                  | 87.06        | 1.149                     | 0.18             | 0.772                  | 0.899                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Back          | 5mm      | ON              | 106 | 5530        | 17.40               | 17.50               | 1.023                  | 87.06        | 1.149                     | 0.02             | 0.667                  | 0.784                  |
|          | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Front         | 5mm      | ON              | 155 | 5775        | 17.49               | 17.50               | 1.002                  | 87.06        | 1.149                     | -0.11            | 0.565                  | 0.650                  |
| 81       | WLAN5GHz   | 802.11ac-VHT80 MCS0 | Back          | 5mm      | ON              | 155 | 5775        | 17.49               | 17.50               | 1.002                  | 87.06        | 1.149                     | 0.11             | 0.882                  | 1.015                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0   | Back          | 5mm      | ON              | 159 | 5795        | 17.39               | 17.50               | 1.025                  | 93.90        | 1.065                     | 0.13             | 0.815                  | 0.890                  |



### 14.5 Repeated SAR Measurement

| No. | Band             | Mode                | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Ratio | Reported 1g SAR (W/kg) |
|-----|------------------|---------------------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|-------|------------------------|
| 1st | GSM1900          | GPRS (3 Tx slots)   | Back          | 5mm      | ON              | 810   | 1909.8      | 21.05               | 21.50               | 1.109                  |              | 1.000                     | -0.04            | 1.040                  | -     | 1.154                  |
| 2nd | GSM1900          | GPRS (3 Tx slots)   | Back          | 5mm      | ON              | 810   | 1909.8      | 21.05               | 21.50               | 1.109                  |              | 1.000                     | -0.06            | 0.970                  | 1.07  | 1.076                  |
| 1st | WCDMA IV         | RMC 12.2Kbps        | Bottom Side   | 5mm      | ON              | 1513  | 1752.6      | 15.53               | 16.50               | 1.250                  |              | 1.000                     | 0.17             | 0.940                  | -     | 1.175                  |
| 2nd | WCDMA IV         | RMC 12.2Kbps        | Bottom Side   | 5mm      | ON              | 1513  | 1752.6      | 15.53               | 16.50               | 1.250                  |              | 1.000                     | 0.12             | 0.926                  | 1.02  | 1.158                  |
| 1st | CDMA BC0         | 1xRTT RC3 SO32      | Back          | 5mm      | ON              | 777   | 848.31      | 22.87               | 23.50               | 1.156                  |              | 1.000                     | -0.18            | 0.890                  | -     | 1.029                  |
| 2nd | CDMA BC0         | 1xRTT RC3 SO32      | Back          | 5mm      | ON              | 777   | 848.31      | 22.87               | 23.50               | 1.156                  |              | 1.000                     | -0.11            | 0.887                  | 1.00  | 1.025                  |
| 1st | LTE Band 12      | 10M_QPSK_1_49       | Back          | 5mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  |              | 1.000                     | 0.1              | 0.872                  | -     | 1.157                  |
| 2nd | LTE Band 12      | 10M_QPSK_1_49       | Back          | 5mm      | OFF             | 23095 | 707.5       | 22.77               | 24.00               | 1.327                  |              | 1.000                     | 0.09             | 0.865                  | 1.00  | 1.148                  |
| 1st | LTE Band 30_Main | 10M_QPSK_25_0       | Back          | 5mm      | ON              | 27710 | 2310        | 20.11               | 21.00               | 1.227                  |              | 1.000                     | 0.06             | 0.869                  | -     | 1.067                  |
| 2nd | LTE Band 30_Main | 10M_QPSK_25_0       | Back          | 5mm      | ON              | 27710 | 2310        | 20.11               | 21.00               | 1.227                  |              | 1.000                     | 0.1              | 0.846                  | 1.03  | 1.038                  |
| 1st | LTE Band 41_Main | 20M_QPSK_1_0        | Back          | 5mm      | ON              | 41490 | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | 0.07             | 1.090                  | -     | 1.117                  |
| 2nd | LTE Band 41_Main | 20M_QPSK_1_0        | Back          | 5mm      | ON              | 41490 | 2680        | 19.92               | 20.00               | 1.019                  | 62.90        | 1.006                     | 0.11             | 1.030                  | 1.06  | 1.055                  |
| 1st | WLAN2.4GHz       | 802.11b 1Mbps       | Left Side     | 5mm      | ON              | 6     | 2437        | 18.87               | 20.50               | 1.455                  | 99.42        | 1.006                     | -0.16            | 0.816                  | -     | 1.195                  |
| 2nd | WLAN2.4GHz       | 802.11b 1Mbps       | Left Side     | 5mm      | ON              | 6     | 2437        | 18.87               | 20.50               | 1.455                  | 99.42        | 1.006                     | -0.16            | 0.795                  | 1.03  | 1.164                  |
| 1st | WLAN5GHz         | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | ON              | 58    | 5290        | 15.70               | 16.00               | 1.071                  | 87.06        | 1.149                     | 0.1              | 0.847                  | -     | 1.042                  |
| 2nd | WLAN5GHz         | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | ON              | 58    | 5290        | 15.70               | 16.00               | 1.071                  | 87.06        | 1.149                     | 0.16             | 0.838                  | 1.02  | 1.031                  |
| 1st | WLAN5GHz         | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | ON              | 138   | 5690        | 15.81               | 16.00               | 1.044                  | 87.06        | 1.149                     | 0.09             | 0.980                  | -     | 1.176                  |
| 2nd | WLAN5GHz         | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | ON              | 138   | 5690        | 15.81               | 16.00               | 1.044                  | 87.06        | 1.149                     | 0.11             | 0.952                  | 1.03  | 1.142                  |
| 1st | WLAN5GHz         | 802.11n-HT40 MCS0   | Right Cheek   | 0mm      | ON              | 151   | 5755        | 15.73               | 16.00               | 1.063                  | 93.90        | 1.065                     | 0.14             | 0.884                  | -     | 1.001                  |
| 2nd | WLAN5GHz         | 802.11n-HT40 MCS0   | Right Cheek   | 0mm      | ON              | 151   | 5755        | 15.73               | 16.00               | 1.063                  | 93.90        | 1.065                     | 0.11             | 0.852                  | 1.04  | 0.965                  |

| No. | Band             | Mode          | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Ratio | Reported 10g SAR (W/kg) |
|-----|------------------|---------------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------|-------------------------|
| 1st | WCDMA II         | RMC 12.2Kbps  | Bottom Side   | 0mm      | ON              | 9262  | 1852.4      | 22.23               | 23.00               | 1.194                  |              | 1.000                     | -0.17            | 2.530                   | -     | 3.021                   |
| 2nd | WCDMA II         | RMC 12.2Kbps  | Bottom Side   | 0mm      | ON              | 9262  | 1852.4      | 22.23               | 23.00               | 1.194                  |              | 1.000                     | -0.15            | 2.390                   | 1.06  | 2.854                   |
| 1st | WCDMA IV         | RMC 12.2Kbps  | Bottom Side   | 0mm      | ON              | 1312  | 1712.4      | 21.87               | 22.00               | 1.030                  |              | 1.000                     | -0.03            | 3.060                   | -     | 3.153                   |
| 2nd | WCDMA IV         | RMC 12.2Kbps  | Bottom Side   | 0mm      | ON              | 1312  | 1712.4      | 21.87               | 22.00               | 1.030                  |              | 1.000                     | 0.02             | 2.770                   | 1.10  | 2.854                   |
| 1st | LTE Band 30_Main | 10M_QPSK_1_0  | Right Side    | 0mm      | ON              | 27710 | 2310        | 22.66               | 23.50               | 1.213                  |              | 1.000                     | 0.05             | 2.520                   | -     | 3.058                   |
| 2nd | LTE Band 30_Main | 10M_QPSK_1_0  | Right Side    | 0mm      | ON              | 27710 | 2310        | 22.66               | 23.50               | 1.213                  |              | 1.000                     | 0.11             | 2.480                   | 1.02  | 3.009                   |
| 1st | LTE Band 41_Main | 20M_QPSK_1_0  | Right Side    | 0mm      | ON              | 41490 | 2680        | 23.92               | 24.00               | 1.019                  | 62.90        | 1.006                     | -0.08            | 3.100                   | -     | 3.177                   |
| 2nd | LTE Band 41_Main | 20M_QPSK_1_0  | Right Side    | 0mm      | ON              | 41490 | 2680        | 23.92               | 24.00               | 1.019                  | 62.90        | 1.006                     | 0.12             | 2.900                   | 1.07  | 2.972                   |
| 1st | WLAN5GHz         | 802.11a 6Mbps | Left Side     | 0mm      | OFF             | 64    | 5320        | 19.98               | 20.00               | 1.005                  | 93.64        | 1.068                     | 0.12             | 2.670                   | -     | 2.865                   |
| 2nd | WLAN5GHz         | 802.11a 6Mbps | Left Side     | 0mm      | OFF             | 64    | 5320        | 19.98               | 20.00               | 1.005                  | 93.64        | 1.068                     | 0.05             | 2.570                   | 1.04  | 2.757                   |
| 1st | WLAN5GHz         | 802.11a 6Mbps | Left Side     | 0mm      | OFF             | 144   | 5720        | 19.95               | 20.00               | 1.012                  | 93.64        | 1.068                     | -0.11            | 2.290                   | -     | 2.474                   |
| 2nd | WLAN5GHz         | 802.11a 6Mbps | Left Side     | 0mm      | OFF             | 144   | 5720        | 19.95               | 20.00               | 1.012                  | 93.64        | 1.068                     | -0.03            | 2.190                   | 1.05  | 2.366                   |
| 1st | WLAN5GHz         | 802.11a 6Mbps | Left Side     | 0mm      | OFF             | 165   | 5825        | 19.98               | 20.00               | 1.005                  | 93.64        | 1.068                     | -0.11            | 2.520                   | -     | 2.704                   |
| 2nd | WLAN5GHz         | 802.11a 6Mbps | Left Side     | 0mm      | OFF             | 165   | 5825        | 19.98               | 20.00               | 1.005                  | 93.64        | 1.068                     | 0.02             | 2.440                   | 1.03  | 2.618                   |

#### General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$ W/kg.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45$ W/kg, only one repeated measurement is required.
3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The ratio is the difference in percentage between original and repeated *measured* SAR.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

### **14.6 LTE Band 41 Power Class 2 and Power Class 3 Linearity**

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required

**<LTE Band 41 Linearity Data for Head>**

|                                     | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
|-------------------------------------|--------------------------------|--------------------------------|
| Maximum Tune up Power (dBm)         | 24                             | 27                             |
| Reported 1g SAR (W/kg)              | 0.501                          | 0.618                          |
| Duty Cycle                          | 63.30%                         | 43.30%                         |
| Frame Averaged (mW)                 | 159.00                         | 217.01                         |
| Linearity SAR(W/kg)                 | 0.68                           |                                |
| % deviation from expected linearity |                                | -9.62%                         |

**<LTE Band 41 Linearity Data for Hotspot and Body-worn>**

|                                     | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
|-------------------------------------|--------------------------------|--------------------------------|
| Maximum Tune up Power (dBm)         | 20                             | 21                             |
| Reported 1g SAR (W/kg)              | 1.117                          | 0.876                          |
| Duty Cycle                          | 63.30%                         | 43.30%                         |
| Frame Averaged (mW)                 | 63.30                          | 54.51                          |
| Linearity SAR(W/kg)                 | 0.96                           |                                |
| % deviation from expected linearity |                                | -8.93%                         |

**<LTE Band 41 Linearity Data for Product Specific>**

|                                     | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
|-------------------------------------|--------------------------------|--------------------------------|
| Maximum Tune up Power (dBm)         | 24                             | 25.5                           |
| Reported 1g SAR (W/kg)              | 3.195                          | 2.855                          |
| Duty Cycle                          | 63.30%                         | 43.30%                         |
| Frame Averaged (mW)                 | 159.00                         | 153.63                         |
| Linearity SAR(W/kg)                 | 3.09                           |                                |
| % deviation from expected linearity |                                | -7.52%                         |

## 15. Simultaneous Transmission Analysis

| NO. | Simultaneous Transmission Configurations | Portable Handset |           |         |                  |
|-----|------------------------------------------|------------------|-----------|---------|------------------|
|     |                                          | Head             | Body-worn | Hotspot | Product Specific |
| 1.  | GSM Voice + WLAN2.4GHz                   | Yes              | Yes       |         | Yes              |
| 2.  | GPRS/EDGE + WLAN2.4GHz                   | Yes              | Yes       | Yes     | Yes              |
| 3.  | WCDMA + WLAN2.4GHz                       | Yes              | Yes       | Yes     | Yes              |
| 4.  | LTE + WLAN2.4GHz                         | Yes              | Yes       | Yes     | Yes              |
| 5.  | GSM Voice + Bluetooth                    | Yes              | Yes       |         | Yes              |
| 6.  | GPRS/EDGE + Bluetooth                    | Yes              | Yes       | Yes     | Yes              |
| 7.  | WCDMA+ Bluetooth                         | Yes              | Yes       | Yes     | Yes              |
| 8.  | LTE + Bluetooth                          | Yes              | Yes       | Yes     | Yes              |
| 9.  | GSM Voice + WLAN5GHz                     | Yes              | Yes       |         | Yes              |
| 10. | GPRS/EDGE + WLAN5GHz                     | Yes              | Yes       | Yes     | Yes              |
| 11. | WCDMA + WLAN5GHz                         | Yes              | Yes       | Yes     | Yes              |
| 12. | LTE + WLAN5GHz                           | Yes              | Yes       | Yes     | Yes              |

**General Note:**

1. This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
2. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
3. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment.
4. The Scaled SAR summation is calculated based on the same configuration and test position.
5. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - i) Scalar SAR summation < 1.6W/kg.
  - ii)  $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - iii) If  $SPLSR \leq 0.04$  for 1g SAR, if  $SPLSR < 0.1$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.
  - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
  - v) The SPLSR calculated results please refer to section 15.2.



### 15.1 Head Exposure Conditions

| WWAN Band |                 | Exposure Position | 1                        | 2                                  | 3                                | 4                             | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+3<br>Summed<br>1g SAR<br>(W/kg) | 1+4<br>Summed<br>1g SAR<br>(W/kg) | SPLSR | Case No |
|-----------|-----------------|-------------------|--------------------------|------------------------------------|----------------------------------|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------|---------|
|           |                 |                   | WWAN<br>1g SAR<br>(W/kg) | 2.4GHz<br>WLAN<br>1g SAR<br>(W/kg) | 5GHz<br>WLAN<br>1g SAR<br>(W/kg) | Bluetooth<br>1g SAR<br>(W/kg) |                                   |                                   |                                   |       |         |
| GSM       | GSM850          | Right Cheek       | 0.083                    | 1.134                              | 1.176                            | 0.143                         | 1.217                             | 1.259                             | 0.226                             |       |         |
|           |                 | Right Tilted      | 0.037                    | 0.735                              | 0.758                            | 0.066                         | 0.772                             | 0.795                             | 0.103                             |       |         |
|           |                 | Left Cheek        | 0.182                    | 0.395                              | 0.390                            | 0.034                         | 0.577                             | 0.572                             | 0.216                             |       |         |
|           |                 | Left Tilted       | 0.043                    | 0.329                              | 0.403                            | 0.034                         | 0.372                             | 0.446                             | 0.077                             |       |         |
|           | GSM1900         | Right Cheek       | 0.128                    | 1.134                              | 1.176                            | 0.143                         | 1.262                             | 1.304                             | 0.271                             |       |         |
|           |                 | Right Tilted      | 0.032                    | 0.735                              | 0.758                            | 0.066                         | 0.767                             | 0.790                             | 0.098                             |       |         |
|           |                 | Left Cheek        | 0.065                    | 0.395                              | 0.390                            | 0.034                         | 0.460                             | 0.455                             | 0.099                             |       |         |
|           |                 | Left Tilted       | 0.051                    | 0.329                              | 0.403                            | 0.034                         | 0.380                             | 0.454                             | 0.085                             |       |         |
| WCDMA     | WCDMA II        | Right Cheek       | 0.278                    | 1.134                              | 1.176                            | 0.143                         | 1.412                             | 1.454                             | 0.421                             |       |         |
|           |                 | Right Tilted      | 0.088                    | 0.735                              | 0.758                            | 0.066                         | 0.823                             | 0.846                             | 0.154                             |       |         |
|           |                 | Left Cheek        | 0.113                    | 0.395                              | 0.390                            | 0.034                         | 0.508                             | 0.503                             | 0.147                             |       |         |
|           |                 | Left Tilted       | 0.121                    | 0.329                              | 0.403                            | 0.034                         | 0.450                             | 0.524                             | 0.155                             |       |         |
|           | WCDMA IV        | Right Cheek       | 0.307                    | 1.134                              | 1.176                            | 0.143                         | 1.441                             | 1.483                             | 0.450                             |       |         |
|           |                 | Right Tilted      | 0.092                    | 0.735                              | 0.758                            | 0.066                         | 0.827                             | 0.850                             | 0.158                             |       |         |
|           |                 | Left Cheek        | 0.143                    | 0.395                              | 0.390                            | 0.034                         | 0.538                             | 0.533                             | 0.177                             |       |         |
|           |                 | Left Tilted       | 0.091                    | 0.329                              | 0.403                            | 0.034                         | 0.420                             | 0.494                             | 0.125                             |       |         |
|           | WCDMA V         | Right Cheek       | 0.309                    | 1.134                              | 1.176                            | 0.143                         | 1.443                             | 1.485                             | 0.452                             |       |         |
|           |                 | Right Tilted      | 0.137                    | 0.735                              | 0.758                            | 0.066                         | 0.872                             | 0.895                             | 0.203                             |       |         |
|           |                 | Left Cheek        | 0.408                    | 0.395                              | 0.390                            | 0.034                         | 0.803                             | 0.798                             | 0.442                             |       |         |
|           |                 | Left Tilted       | 0.146                    | 0.329                              | 0.403                            | 0.034                         | 0.475                             | 0.549                             | 0.180                             |       |         |
| CDMA      | CDMA BC0        | Right Cheek       | 0.298                    | 1.134                              | 1.176                            | 0.143                         | 1.432                             | 1.474                             | 0.441                             |       |         |
|           |                 | Right Tilted      | 0.103                    | 0.735                              | 0.758                            | 0.066                         | 0.838                             | 0.861                             | 0.169                             |       |         |
|           |                 | Left Cheek        | 0.215                    | 0.395                              | 0.390                            | 0.034                         | 0.610                             | 0.605                             | 0.249                             |       |         |
|           |                 | Left Tilted       | 0.115                    | 0.329                              | 0.403                            | 0.034                         | 0.444                             | 0.518                             | 0.149                             |       |         |
|           | CDMA BC1        | Right Cheek       | 0.349                    | 1.134                              | 1.176                            | 0.143                         | 1.483                             | 1.525                             | 0.492                             |       |         |
|           |                 | Right Tilted      | 0.076                    | 0.735                              | 0.758                            | 0.066                         | 0.811                             | 0.834                             | 0.142                             |       |         |
|           |                 | Left Cheek        | 0.219                    | 0.395                              | 0.390                            | 0.034                         | 0.614                             | 0.609                             | 0.253                             |       |         |
|           |                 | Left Tilted       | 0.179                    | 0.329                              | 0.403                            | 0.034                         | 0.508                             | 0.582                             | 0.213                             |       |         |
|           | CDMA BC10       | Right Cheek       | 0.257                    | 1.134                              | 1.176                            | 0.143                         | 1.391                             | 1.433                             | 0.400                             |       |         |
|           |                 | Right Tilted      | 0.085                    | 0.735                              | 0.758                            | 0.066                         | 0.820                             | 0.843                             | 0.151                             |       |         |
|           |                 | Left Cheek        | 0.361                    | 0.395                              | 0.390                            | 0.034                         | 0.756                             | 0.751                             | 0.395                             |       |         |
|           |                 | Left Tilted       | 0.115                    | 0.329                              | 0.403                            | 0.034                         | 0.444                             | 0.518                             | 0.149                             |       |         |
| LTE       | LTE Band 7_Main | Right Cheek       | 0.799                    | 1.134                              | 1.176                            | 0.143                         | 1.933                             | 1.975                             | 0.942                             | 0.03  | Case 1  |
|           |                 | Right Tilted      | 0.389                    | 0.735                              | 0.758                            | 0.066                         | 1.124                             | 1.147                             | 0.455                             |       |         |
|           |                 | Left Cheek        | 0.348                    | 0.395                              | 0.390                            | 0.034                         | 0.743                             | 0.738                             | 0.382                             |       |         |
|           |                 | Left Tilted       | 0.423                    | 0.329                              | 0.403                            | 0.034                         | 0.752                             | 0.826                             | 0.457                             |       |         |
|           | LTE Band 7_Aux  | Right Cheek       | 0.359                    | 1.134                              | 1.176                            | 0.143                         | 1.493                             | 1.535                             | 0.502                             |       |         |
|           |                 | Right Tilted      | 0.264                    | 0.735                              | 0.758                            | 0.066                         | 0.999                             | 1.022                             | 0.330                             |       |         |
|           |                 | Left Cheek        | 0.643                    | 0.395                              | 0.390                            | 0.034                         | 1.038                             | 1.033                             | 0.677                             |       |         |
|           |                 | Left Tilted       | 0.196                    | 0.329                              | 0.403                            | 0.034                         | 0.525                             | 0.599                             | 0.230                             |       |         |
|           | LTE Band 12     | Right Cheek       | 0.250                    | 1.134                              | 1.176                            | 0.143                         | 1.384                             | 1.426                             | 0.393                             |       |         |
|           |                 | Right Tilted      | 0.115                    | 0.735                              | 0.758                            | 0.066                         | 0.850                             | 0.873                             | 0.181                             |       |         |
|           |                 | Left Cheek        | 0.317                    | 0.395                              | 0.390                            | 0.034                         | 0.712                             | 0.707                             | 0.351                             |       |         |
|           |                 | Left Tilted       | 0.142                    | 0.329                              | 0.403                            | 0.034                         | 0.471                             | 0.545                             | 0.176                             |       |         |



| WWAN Band |                  | Exposure Position | 1                        | 2                                  | 3                                | 4                             | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+3<br>Summed<br>1g SAR<br>(W/kg) | 1+4<br>Summed<br>1g SAR<br>(W/kg) | SPLSR | Case No |
|-----------|------------------|-------------------|--------------------------|------------------------------------|----------------------------------|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------|---------|
|           |                  |                   | WWAN<br>1g SAR<br>(W/kg) | 2.4GHz<br>WLAN<br>1g SAR<br>(W/kg) | 5GHz<br>WLAN<br>1g SAR<br>(W/kg) | Bluetooth<br>1g SAR<br>(W/kg) |                                   |                                   |                                   |       |         |
| LTE       | LTE Band 13      | Right Cheek       | 0.204                    | 1.134                              | 1.176                            | 0.143                         | 1.338                             | 1.380                             | 0.347                             |       |         |
|           |                  | Right Tilted      | 0.102                    | 0.735                              | 0.758                            | 0.066                         | 0.837                             | 0.860                             | 0.168                             |       |         |
|           |                  | Left Cheek        | 0.239                    | 0.395                              | 0.390                            | 0.034                         | 0.634                             | 0.629                             | 0.273                             |       |         |
|           |                  | Left Tilted       | 0.086                    | 0.329                              | 0.403                            | 0.034                         | 0.415                             | 0.489                             | 0.120                             |       |         |
|           | LTE Band 14      | Right Cheek       | 0.284                    | 1.134                              | 1.176                            | 0.143                         | 1.418                             | 1.460                             | 0.427                             |       |         |
|           |                  | Right Tilted      | 0.176                    | 0.735                              | 0.758                            | 0.066                         | 0.911                             | 0.934                             | 0.242                             |       |         |
|           |                  | Left Cheek        | 0.361                    | 0.395                              | 0.390                            | 0.034                         | 0.756                             | 0.751                             | 0.395                             |       |         |
|           |                  | Left Tilted       | 0.144                    | 0.329                              | 0.403                            | 0.034                         | 0.473                             | 0.547                             | 0.178                             |       |         |
|           | LTE Band 25      | Right Cheek       | 0.259                    | 1.134                              | 1.176                            | 0.143                         | 1.393                             | 1.435                             | 0.402                             |       |         |
|           |                  | Right Tilted      | 0.070                    | 0.735                              | 0.758                            | 0.066                         | 0.805                             | 0.828                             | 0.136                             |       |         |
|           |                  | Left Cheek        | 0.135                    | 0.395                              | 0.390                            | 0.034                         | 0.530                             | 0.525                             | 0.169                             |       |         |
|           |                  | Left Tilted       | 0.092                    | 0.329                              | 0.403                            | 0.034                         | 0.421                             | 0.495                             | 0.126                             |       |         |
|           | LTE Band 26      | Right Cheek       | 0.289                    | 1.134                              | 1.176                            | 0.143                         | 1.423                             | 1.465                             | 0.432                             |       |         |
|           |                  | Right Tilted      | 0.122                    | 0.735                              | 0.758                            | 0.066                         | 0.857                             | 0.880                             | 0.188                             |       |         |
|           |                  | Left Cheek        | 0.360                    | 0.395                              | 0.390                            | 0.034                         | 0.755                             | 0.750                             | 0.394                             |       |         |
|           |                  | Left Tilted       | 0.162                    | 0.329                              | 0.403                            | 0.034                         | 0.491                             | 0.565                             | 0.196                             |       |         |
|           | LTE Band 30_Main | Right Cheek       | 0.343                    | 1.134                              | 1.176                            | 0.143                         | 1.477                             | 1.519                             | 0.486                             |       |         |
|           |                  | Right Tilted      | 0.167                    | 0.735                              | 0.758                            | 0.066                         | 0.902                             | 0.925                             | 0.233                             |       |         |
|           |                  | Left Cheek        | 0.174                    | 0.395                              | 0.390                            | 0.034                         | 0.569                             | 0.564                             | 0.208                             |       |         |
|           |                  | Left Tilted       | 0.187                    | 0.329                              | 0.403                            | 0.034                         | 0.516                             | 0.590                             | 0.221                             |       |         |
|           | LTE Band 30_Aux  | Right Cheek       | 0.128                    | 1.134                              | 1.176                            | 0.143                         | 1.262                             | 1.304                             | 0.271                             |       |         |
|           |                  | Right Tilted      | 0.167                    | 0.735                              | 0.758                            | 0.066                         | 0.902                             | 0.925                             | 0.233                             |       |         |
|           |                  | Left Cheek        | 0.198                    | 0.395                              | 0.390                            | 0.034                         | 0.593                             | 0.588                             | 0.232                             |       |         |
|           |                  | Left Tilted       | 0.116                    | 0.329                              | 0.403                            | 0.034                         | 0.445                             | 0.519                             | 0.150                             |       |         |
|           | LTE Band 41_Main | Right Cheek       | 0.501                    | 1.134                              | 1.176                            | 0.143                         | 1.635                             | 1.677                             | 0.644                             | 0.02  | Case 2  |
|           |                  | Right Tilted      | 0.202                    | 0.735                              | 0.758                            | 0.066                         | 0.937                             | 0.960                             | 0.268                             |       |         |
|           |                  | Left Cheek        | 0.214                    | 0.395                              | 0.390                            | 0.034                         | 0.609                             | 0.604                             | 0.248                             |       |         |
|           |                  | Left Tilted       | 0.260                    | 0.329                              | 0.403                            | 0.034                         | 0.589                             | 0.663                             | 0.294                             |       |         |
|           | LTE Band 41_Aux  | Right Cheek       | 0.156                    | 1.134                              | 1.176                            | 0.143                         | 1.290                             | 1.332                             | 0.299                             |       |         |
|           |                  | Right Tilted      | 0.097                    | 0.735                              | 0.758                            | 0.066                         | 0.832                             | 0.855                             | 0.163                             |       |         |
|           |                  | Left Cheek        | 0.293                    | 0.395                              | 0.390                            | 0.034                         | 0.688                             | 0.683                             | 0.327                             |       |         |
|           |                  | Left Tilted       | 0.078                    | 0.329                              | 0.403                            | 0.034                         | 0.407                             | 0.481                             | 0.112                             |       |         |
|           | LTE Band 66      | Right Cheek       | 0.125                    | 1.134                              | 1.176                            | 0.143                         | 1.259                             | 1.301                             | 0.268                             |       |         |
|           |                  | Right Tilted      | 0.076                    | 0.735                              | 0.758                            | 0.066                         | 0.811                             | 0.834                             | 0.142                             |       |         |
|           |                  | Left Cheek        | 0.249                    | 0.395                              | 0.390                            | 0.034                         | 0.644                             | 0.639                             | 0.283                             |       |         |
|           |                  | Left Tilted       | 0.065                    | 0.329                              | 0.403                            | 0.034                         | 0.394                             | 0.468                             | 0.099                             |       |         |
|           | LTE Band 71      | Right Cheek       | 0.175                    | 1.134                              | 1.176                            | 0.143                         | 1.309                             | 1.351                             | 0.318                             |       |         |
|           |                  | Right Tilted      | 0.089                    | 0.735                              | 0.758                            | 0.066                         | 0.824                             | 0.847                             | 0.155                             |       |         |
|           |                  | Left Cheek        | 0.202                    | 0.395                              | 0.390                            | 0.034                         | 0.597                             | 0.592                             | 0.236                             |       |         |
|           |                  | Left Tilted       | 0.106                    | 0.329                              | 0.403                            | 0.034                         | 0.435                             | 0.509                             | 0.140                             |       |         |

### 15.2 Hotspot Exposure Conditions

| WWAN Band |           | Exposure Position | 1                        | 2                                  | 3                                | 4                             | 1+2                        | 1+3                        | 1+4                        | SPLSR | Case No |
|-----------|-----------|-------------------|--------------------------|------------------------------------|----------------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|-------|---------|
|           |           |                   | WWAN<br>1g SAR<br>(W/kg) | 2.4GHz<br>WLAN<br>1g SAR<br>(W/kg) | 5GHz<br>WLAN<br>1g SAR<br>(W/kg) | Bluetooth<br>1g SAR<br>(W/kg) | Summed<br>1g SAR<br>(W/kg) | Summed<br>1g SAR<br>(W/kg) | Summed<br>1g SAR<br>(W/kg) |       |         |
| GSM       | GSM850    | Front             | 0.359                    | 0.862                              | 0.476                            | 0.035                         | 1.221                      | 0.835                      | 0.394                      |       |         |
|           |           | Back              | 0.679                    | 1.009                              | 0.569                            | 0.045                         | 1.688                      | 1.248                      | 0.724                      | 0.01  | Case 3  |
|           |           | Left side         | 0.244                    | 1.195                              | 0.731                            | 0.081                         | 1.439                      | 0.975                      | 0.325                      |       |         |
|           |           | Right side        | 0.145                    |                                    |                                  |                               | 0.145                      | 0.145                      | 0.145                      |       |         |
|           |           | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |           | Bottom side       | 0.203                    |                                    |                                  |                               | 0.203                      | 0.203                      | 0.203                      |       |         |
|           | GSM1900   | Front             | 0.773                    | 0.862                              | 0.476                            | 0.035                         | 1.635                      | 1.249                      | 0.808                      | 0.01  | Case 4  |
|           |           | Back              | 0.750                    | 1.009                              | 0.569                            | 0.045                         | 1.759                      | 1.319                      | 0.795                      | 0.02  | Case 5  |
|           |           | Left side         | 0.027                    | 1.195                              | 0.731                            | 0.081                         | 1.222                      | 0.758                      | 0.108                      |       |         |
|           |           | Right side        | 0.075                    |                                    |                                  |                               | 0.075                      | 0.075                      | 0.075                      |       |         |
|           |           | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |           | Bottom side       | 1.140                    |                                    |                                  |                               | 1.140                      | 1.140                      | 1.140                      |       |         |
| WCDMA     | WCDMA II  | Front             | 0.794                    | 0.862                              | 0.476                            | 0.035                         | 1.656                      | 1.270                      | 0.829                      | 0.01  | Case 6  |
|           |           | Back              | 0.667                    | 1.009                              | 0.569                            | 0.045                         | 1.676                      | 1.236                      | 0.712                      | 0.01  | Case 7  |
|           |           | Left side         | 0.024                    | 1.195                              | 0.731                            | 0.081                         | 1.219                      | 0.755                      | 0.105                      |       |         |
|           |           | Right side        | 0.073                    |                                    |                                  |                               | 0.073                      | 0.073                      | 0.073                      |       |         |
|           |           | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |           | Bottom side       | 1.123                    |                                    |                                  |                               | 1.123                      | 1.123                      | 1.123                      |       |         |
|           | WCDMA IV  | Front             | 0.880                    | 0.862                              | 0.476                            | 0.035                         | 1.742                      | 1.356                      | 0.915                      | 0.02  | Case 8  |
|           |           | Back              | 0.816                    | 1.009                              | 0.569                            | 0.045                         | 1.825                      | 1.385                      | 0.861                      | 0.02  | Case 9  |
|           |           | Left side         | 0.048                    | 1.195                              | 0.731                            | 0.081                         | 1.243                      | 0.779                      | 0.129                      |       |         |
|           |           | Right side        | 0.088                    |                                    |                                  |                               | 0.088                      | 0.088                      | 0.088                      |       |         |
|           |           | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |           | Bottom side       | 1.175                    |                                    |                                  |                               | 1.175                      | 1.175                      | 1.175                      |       |         |
|           | WCDMA V   | Front             | 0.701                    | 0.862                              | 0.476                            | 0.035                         | 1.563                      | 1.177                      | 0.736                      |       |         |
|           |           | Back              | 0.898                    | 1.009                              | 0.569                            | 0.045                         | 1.907                      | 1.467                      | 0.943                      | 0.02  | Case 10 |
|           |           | Left side         | 0.440                    | 1.195                              | 0.731                            | 0.081                         | 1.635                      | 1.171                      | 0.521                      | 0.04  | Case 11 |
|           |           | Right side        | 0.286                    |                                    |                                  |                               | 0.286                      | 0.286                      | 0.286                      |       |         |
|           |           | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |           | Bottom side       | 0.386                    |                                    |                                  |                               | 0.386                      | 0.386                      | 0.386                      |       |         |
| CDMA      | CDMA BC0  | Front             | 0.653                    | 0.862                              | 0.476                            | 0.035                         | 1.515                      | 1.129                      | 0.688                      |       |         |
|           |           | Back              | 0.981                    | 1.009                              | 0.569                            | 0.045                         | 1.990                      | 1.550                      | 1.026                      | 0.02  | Case 12 |
|           |           | Left side         | 0.328                    | 1.195                              | 0.731                            | 0.081                         | 1.523                      | 1.059                      | 0.409                      |       |         |
|           |           | Right side        | 0.157                    |                                    |                                  |                               | 0.157                      | 0.157                      | 0.157                      |       |         |
|           |           | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |           | Bottom side       | 0.521                    |                                    |                                  |                               | 0.521                      | 0.521                      | 0.521                      |       |         |
|           | CDMA BC1  | Front             | 0.589                    | 0.862                              | 0.476                            | 0.035                         | 1.451                      | 1.065                      | 0.624                      |       |         |
|           |           | Back              | 0.601                    | 1.009                              | 0.569                            | 0.045                         | 1.610                      | 1.170                      | 0.646                      | 0.01  | Case 13 |
|           |           | Left side         | 0.023                    | 1.195                              | 0.731                            | 0.081                         | 1.218                      | 0.754                      | 0.104                      |       |         |
|           |           | Right side        | 0.071                    |                                    |                                  |                               | 0.071                      | 0.071                      | 0.071                      |       |         |
|           |           | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |           | Bottom side       | 1.002                    |                                    |                                  |                               | 1.002                      | 1.002                      | 1.002                      |       |         |
|           | CDMA BC10 | Front             | 0.743                    | 0.862                              | 0.476                            | 0.035                         | 1.605                      | 1.219                      | 0.778                      | 0.01  | Case 14 |
|           |           | Back              | 0.971                    | 1.009                              | 0.569                            | 0.045                         | 1.980                      | 1.540                      | 1.016                      | 0.02  | Case 15 |
|           |           | Left side         | 0.415                    | 1.195                              | 0.731                            | 0.081                         | 1.610                      | 1.146                      | 0.496                      | 0.04  | Case 16 |
|           |           | Right side        | 0.298                    |                                    |                                  |                               | 0.298                      | 0.298                      | 0.298                      |       |         |
|           |           | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |           | Bottom side       | 0.468                    |                                    |                                  |                               | 0.468                      | 0.468                      | 0.468                      |       |         |

| WWAN Band |                 | Exposure Position | 1<br>WWAN<br>1g SAR<br>(W/kg) | 2<br>2.4GHz<br>WLAN<br>1g SAR<br>(W/kg) | 3<br>5GHz<br>WLAN<br>1g SAR<br>(W/kg) | 4<br>Bluetooth<br>1g SAR<br>(W/kg) | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+3<br>Summed<br>1g SAR<br>(W/kg) | 1+4<br>Summed<br>1g SAR<br>(W/kg) | SPLSR | Case No |
|-----------|-----------------|-------------------|-------------------------------|-----------------------------------------|---------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------|---------|
| LTE       | LTE Band 7_Main | Front             | 0.642                         | 0.862                                   | 0.476                                 | 0.035                              | 1.504                             | 1.118                             | 0.677                             |       |         |
|           |                 | Back              | 1.095                         | 1.009                                   | 0.569                                 | 0.045                              | 2.104                             | 1.664                             | 1.140                             | 0.02  | Case 17 |
|           |                 | Left side         |                               | 1.195                                   | 0.731                                 | 0.081                              | 1.195                             | 0.731                             | 0.081                             |       |         |
|           |                 | Right side        | 0.907                         |                                         |                                       |                                    | 0.907                             | 0.907                             | 0.907                             |       |         |
|           |                 | Top side          |                               | 0.275                                   | 0.134                                 | 0.012                              | 0.275                             | 0.134                             | 0.012                             |       |         |
|           |                 | Bottom side       | 0.265                         |                                         |                                       |                                    | 0.265                             | 0.265                             | 0.265                             |       |         |
|           | LTE Band 7_Aux  | Front             | 0.512                         | 0.862                                   | 0.476                                 | 0.035                              | 1.374                             | 0.988                             | 0.547                             |       |         |
|           |                 | Back              | 0.864                         | 1.009                                   | 0.569                                 | 0.045                              | 1.873                             | 1.433                             | 0.909                             | 0.02  | Case 18 |
|           |                 | Left side         | 0.569                         | 1.195                                   | 0.731                                 | 0.081                              | 1.764                             | 1.300                             | 0.650                             | 0.02  | Case 19 |
|           |                 | Right side        |                               |                                         |                                       |                                    | 0.000                             | 0.000                             | 0.000                             |       |         |
|           |                 | Top side          |                               | 0.275                                   | 0.134                                 | 0.012                              | 0.275                             | 0.134                             | 0.012                             |       |         |
|           |                 | Bottom side       | 0.098                         |                                         |                                       |                                    | 0.098                             | 0.098                             | 0.098                             |       |         |
|           | LTE Band 12     | Front             | 0.884                         | 0.862                                   | 0.476                                 | 0.035                              | 1.746                             | 1.360                             | 0.919                             | 0.02  | Case 20 |
|           |                 | Back              | 1.157                         | 1.009                                   | 0.569                                 | 0.045                              | 2.166                             | 1.726                             | 1.202                             | 0.02  | Case 21 |
|           |                 | Left side         | 0.571                         | 1.195                                   | 0.731                                 | 0.081                              | 1.766                             | 1.302                             | 0.652                             | 0.04  | Case 22 |
|           |                 | Right side        | 0.488                         |                                         |                                       |                                    | 0.488                             | 0.488                             | 0.488                             |       |         |
|           |                 | Top side          |                               | 0.275                                   | 0.134                                 | 0.012                              | 0.275                             | 0.134                             | 0.012                             |       |         |
|           |                 | Bottom side       | 0.422                         |                                         |                                       |                                    | 0.422                             | 0.422                             | 0.422                             |       |         |
|           | LTE Band 13     | Front             | 0.986                         | 0.862                                   | 0.476                                 | 0.035                              | 1.848                             | 1.462                             | 1.021                             | 0.02  | Case 23 |
|           |                 | Back              | 1.136                         | 1.009                                   | 0.569                                 | 0.045                              | 2.145                             | 1.705                             | 1.181                             | 0.02  | Case 24 |
|           |                 | Left side         | 0.462                         | 1.195                                   | 0.731                                 | 0.081                              | 1.657                             | 1.193                             | 0.543                             | 0.03  | Case 25 |
|           |                 | Right side        | 0.545                         |                                         |                                       |                                    | 0.545                             | 0.545                             | 0.545                             |       |         |
|           |                 | Top side          |                               | 0.275                                   | 0.134                                 | 0.012                              | 0.275                             | 0.134                             | 0.012                             |       |         |
|           |                 | Bottom side       | 0.471                         |                                         |                                       |                                    | 0.471                             | 0.471                             | 0.471                             |       |         |
|           | LTE Band 14     | Front             | 0.774                         | 0.862                                   | 0.476                                 | 0.035                              | 1.636                             | 1.250                             | 0.809                             | 0.01  | Case 26 |
|           |                 | Back              | 1.069                         | 1.009                                   | 0.569                                 | 0.045                              | 2.078                             | 1.638                             | 1.114                             | 0.02  | Case 27 |
|           |                 | Left side         | 0.456                         | 1.195                                   | 0.731                                 | 0.081                              | 1.651                             | 1.187                             | 0.537                             | 0.03  | Case 28 |
|           |                 | Right side        | 0.537                         |                                         |                                       |                                    | 0.537                             | 0.537                             | 0.537                             |       |         |
|           |                 | Top side          |                               | 0.275                                   | 0.134                                 | 0.012                              | 0.275                             | 0.134                             | 0.012                             |       |         |
|           |                 | Bottom side       | 0.411                         |                                         |                                       |                                    | 0.411                             | 0.411                             | 0.411                             |       |         |
|           | LTE Band 25     | Front             | 1.081                         | 0.862                                   | 0.476                                 | 0.035                              | 1.943                             | 1.557                             | 1.116                             | 0.02  | Case 29 |
|           |                 | Back              | 0.740                         | 1.009                                   | 0.569                                 | 0.045                              | 1.749                             | 1.309                             | 0.785                             | 0.02  | Case 30 |
|           |                 | Left side         | 0.023                         | 1.195                                   | 0.731                                 | 0.081                              | 1.218                             | 0.754                             | 0.104                             |       |         |
|           |                 | Right side        | 0.045                         |                                         |                                       |                                    | 0.045                             | 0.045                             | 0.045                             |       |         |
|           |                 | Top side          |                               | 0.275                                   | 0.134                                 | 0.012                              | 0.275                             | 0.134                             | 0.012                             |       |         |
|           |                 | Bottom side       | 1.149                         |                                         |                                       |                                    | 1.149                             | 1.149                             | 1.149                             |       |         |
|           | LTE Band 26     | Front             | 0.768                         | 0.862                                   | 0.476                                 | 0.035                              | 1.630                             | 1.244                             | 0.803                             | 0.01  | Case 31 |
|           |                 | Back              | 0.917                         | 1.009                                   | 0.569                                 | 0.045                              | 1.926                             | 1.486                             | 0.962                             | 0.02  | Case 32 |
|           |                 | Left side         | 0.447                         | 1.195                                   | 0.731                                 | 0.081                              | 1.642                             | 1.178                             | 0.528                             | 0.04  | Case 33 |
|           |                 | Right side        | 0.310                         |                                         |                                       |                                    | 0.310                             | 0.310                             | 0.310                             |       |         |
|           |                 | Top side          |                               | 0.275                                   | 0.134                                 | 0.012                              | 0.275                             | 0.134                             | 0.012                             |       |         |
|           |                 | Bottom side       | 0.424                         |                                         |                                       |                                    | 0.424                             | 0.424                             | 0.424                             |       |         |

| WWAN Band |                  | Exposure Position | 1                        | 2                                  | 3                                | 4                             | 1+2                        | 1+3                        | 1+4                        | SPLSR | Case No |
|-----------|------------------|-------------------|--------------------------|------------------------------------|----------------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|-------|---------|
|           |                  |                   | WWAN<br>1g SAR<br>(W/kg) | 2.4GHz<br>WLAN<br>1g SAR<br>(W/kg) | 5GHz<br>WLAN<br>1g SAR<br>(W/kg) | Bluetooth<br>1g SAR<br>(W/kg) | Summed<br>1g SAR<br>(W/kg) | Summed<br>1g SAR<br>(W/kg) | Summed<br>1g SAR<br>(W/kg) |       |         |
| LTE       | LTE Band 30_Main | Front             | 0.674                    | 0.862                              | 0.476                            | 0.035                         | 1.536                      | 1.150                      | 0.709                      |       |         |
|           |                  | Back              | 1.067                    | 1.009                              | 0.569                            | 0.045                         | 2.076                      | 1.636                      | 1.112                      | 0.02  | Case 34 |
|           |                  | Left side         |                          | 1.195                              | 0.731                            | 0.081                         | 1.195                      | 0.731                      | 0.081                      |       |         |
|           |                  | Right side        | 0.695                    |                                    |                                  |                               | 0.695                      | 0.695                      | 0.695                      |       |         |
|           |                  | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |                  | Bottom side       | 0.441                    |                                    |                                  |                               | 0.441                      | 0.441                      | 0.441                      |       |         |
|           | LTE Band 30_Aux  | Front             | 0.459                    | 0.862                              | 0.476                            | 0.035                         | 1.321                      | 0.935                      | 0.494                      |       |         |
|           |                  | Back              | 0.976                    | 1.009                              | 0.569                            | 0.045                         | 1.985                      | 1.545                      | 1.021                      | 0.02  | Case 35 |
|           |                  | Left side         | 0.422                    | 1.195                              | 0.731                            | 0.081                         | 1.617                      | 1.153                      | 0.503                      | 0.02  | Case 36 |
|           |                  | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |                  | Bottom side       | 0.144                    |                                    |                                  |                               | 0.144                      | 0.144                      | 0.144                      |       |         |
|           | LTE Band 41_Main | Front             | 0.565                    | 0.862                              | 0.476                            | 0.035                         | 1.427                      | 1.041                      | 0.600                      |       |         |
|           |                  | Back              | 1.117                    | 1.009                              | 0.569                            | 0.045                         | 2.126                      | 1.686                      | 1.162                      | 0.02  | Case 37 |
|           |                  | Left side         |                          | 1.195                              | 0.731                            | 0.081                         | 1.195                      | 0.731                      | 0.081                      |       |         |
|           |                  | Right side        | 0.975                    |                                    |                                  |                               | 0.975                      | 0.975                      | 0.975                      |       |         |
|           |                  | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |                  | Bottom side       | 0.206                    |                                    |                                  |                               | 0.206                      | 0.206                      | 0.206                      |       |         |
|           | LTE Band 41_Aux  | Front             | 0.518                    | 0.862                              | 0.476                            | 0.035                         | 1.380                      | 0.994                      | 0.553                      |       |         |
|           |                  | Back              | 0.882                    | 1.009                              | 0.569                            | 0.045                         | 1.891                      | 1.451                      | 0.927                      | 0.02  | Case 38 |
|           |                  | Left side         | 0.578                    | 1.195                              | 0.731                            | 0.081                         | 1.773                      | 1.309                      | 0.659                      | 0.02  | Case 39 |
|           |                  | Right side        |                          |                                    |                                  |                               | 0.000                      | 0.000                      | 0.000                      |       |         |
|           |                  | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |                  | Bottom side       | 0.140                    |                                    |                                  |                               | 0.140                      | 0.140                      | 0.140                      |       |         |
|           | LTE Band 66      | Front             | 0.622                    | 0.862                              | 0.476                            | 0.035                         | 1.484                      | 1.098                      | 0.657                      |       |         |
|           |                  | Back              | 0.588                    | 1.009                              | 0.569                            | 0.045                         | 1.597                      | 1.157                      | 0.633                      | 0.01  | Case 40 |
|           |                  | Left side         | 0.045                    | 1.195                              | 0.731                            | 0.081                         | 1.240                      | 0.776                      | 0.126                      |       |         |
|           |                  | Right side        | 0.111                    |                                    |                                  |                               | 0.111                      | 0.111                      | 0.111                      |       |         |
|           |                  | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |                  | Bottom side       | 1.062                    |                                    |                                  |                               | 1.062                      | 1.062                      | 1.062                      |       |         |
|           | LTE Band 71      | Front             | 0.779                    | 0.862                              | 0.476                            | 0.035                         | 1.641                      | 1.255                      | 0.814                      | 0.01  | Case 41 |
|           |                  | Back              | 0.865                    | 1.009                              | 0.569                            | 0.045                         | 1.874                      | 1.434                      | 0.910                      | 0.02  | Case 42 |
|           |                  | Left side         | 0.365                    | 1.195                              | 0.731                            | 0.081                         | 1.560                      | 1.096                      | 0.446                      |       |         |
|           |                  | Right side        | 0.336                    |                                    |                                  |                               | 0.336                      | 0.336                      | 0.336                      |       |         |
|           |                  | Top side          |                          | 0.275                              | 0.134                            | 0.012                         | 0.275                      | 0.134                      | 0.012                      |       |         |
|           |                  | Bottom side       | 0.271                    |                                    |                                  |                               | 0.271                      | 0.271                      | 0.271                      |       |         |



### 15.3 Body-Worn Accessory Exposure Conditions

| WWAN Band |                  | Exposure Position | 1<br>WWAN<br>1g SAR<br>(W/kg) | 2<br>2.4GHz<br>WLAN<br>1g SAR<br>(W/kg) | 3<br>5GHz<br>WLAN<br>1g SAR<br>(W/kg) | 4<br>Bluetooth<br>1g SAR<br>(W/kg) | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+3<br>Summed<br>1g SAR<br>(W/kg) | 1+4<br>Summed<br>1g SAR<br>(W/kg) | SPLSR | Case No |
|-----------|------------------|-------------------|-------------------------------|-----------------------------------------|---------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------|---------|
| GSM       | GSM850           | Front             | 0.359                         | 0.862                                   | 0.758                                 | 0.035                              | 1.221                             | 1.117                             | 0.394                             |       |         |
|           |                  | Back              | 0.679                         | 1.009                                   | 1.015                                 | 0.055                              | 1.688                             | 1.694                             | 0.734                             | 0.01  | Case 43 |
|           | GSM1900          | Front             | 1.068                         | 0.862                                   | 0.758                                 | 0.035                              | 1.930                             | 1.826                             | 1.103                             | 0.02  | Case 44 |
|           |                  | Back              | 1.154                         | 1.009                                   | 1.015                                 | 0.055                              | 2.163                             | 2.169                             | 1.209                             | 0.02  | Case 45 |
| WCDMA     | WCDMA II         | Front             | 1.177                         | 0.862                                   | 0.758                                 | 0.035                              | 2.039                             | 1.935                             | 1.212                             | 0.02  | Case 46 |
|           |                  | Back              | 1.007                         | 1.009                                   | 1.015                                 | 0.055                              | 2.016                             | 2.022                             | 1.062                             | 0.02  | Case 47 |
|           | WCDMA IV         | Front             | 0.988                         | 0.862                                   | 0.758                                 | 0.035                              | 1.850                             | 1.746                             | 1.023                             | 0.02  | Case 48 |
|           |                  | Back              | 0.916                         | 1.009                                   | 1.015                                 | 0.055                              | 1.925                             | 1.931                             | 0.971                             | 0.02  | Case 49 |
|           | WCDMA V          | Front             | 0.701                         | 0.862                                   | 0.758                                 | 0.035                              | 1.563                             | 1.459                             | 0.736                             |       |         |
|           |                  | Back              | 0.898                         | 1.009                                   | 1.015                                 | 0.055                              | 1.907                             | 1.913                             | 0.953                             | 0.02  | Case 50 |
| CDMA      | CDMA BC0         | Front             | 0.775                         | 0.862                                   | 0.758                                 | 0.035                              | 1.637                             | 1.533                             | 0.810                             | 0.01  | Case 51 |
|           |                  | Back              | 1.029                         | 1.009                                   | 1.015                                 | 0.055                              | 2.038                             | 2.044                             | 1.084                             | 0.02  | Case 52 |
|           | CDMA BC1         | Front             | 0.975                         | 0.862                                   | 0.758                                 | 0.035                              | 1.837                             | 1.733                             | 1.010                             | 0.02  | Case 53 |
|           |                  | Back              | 1.072                         | 1.009                                   | 1.015                                 | 0.055                              | 2.081                             | 2.087                             | 1.127                             | 0.02  | Case 54 |
|           | CDMA BC10        | Front             | 0.697                         | 0.862                                   | 0.758                                 | 0.035                              | 1.559                             | 1.455                             | 0.732                             |       |         |
|           |                  | Back              | 0.966                         | 1.009                                   | 1.015                                 | 0.055                              | 1.975                             | 1.981                             | 1.021                             | 0.02  | Case 55 |
| LTE       | LTE Band 7_Main  | Front             | 0.642                         | 0.862                                   | 0.758                                 | 0.035                              | 1.504                             | 1.400                             | 0.677                             |       |         |
|           |                  | Back              | 1.095                         | 1.009                                   | 1.015                                 | 0.055                              | 2.104                             | 2.110                             | 1.150                             | 0.02  | Case 56 |
|           | LTE Band 7_Aux   | Front             | 0.512                         | 0.862                                   | 0.758                                 | 0.035                              | 1.374                             | 1.270                             | 0.547                             |       |         |
|           |                  | Back              | 0.864                         | 1.009                                   | 1.015                                 | 0.055                              | 1.873                             | 1.879                             | 0.919                             | 0.02  | Case 57 |
|           | LTE Band 12      | Front             | 0.884                         | 0.862                                   | 0.758                                 | 0.035                              | 1.746                             | 1.642                             | 0.919                             | 0.01  | Case 58 |
|           |                  | Back              | 1.157                         | 1.009                                   | 1.015                                 | 0.055                              | 2.166                             | 2.172                             | 1.212                             | 0.02  | Case 59 |
|           | LTE Band 13      | Front             | 0.986                         | 0.862                                   | 0.758                                 | 0.035                              | 1.848                             | 1.744                             | 1.021                             | 0.01  | Case 60 |
|           |                  | Back              | 1.136                         | 1.009                                   | 1.015                                 | 0.055                              | 2.145                             | 2.151                             | 1.191                             | 0.02  | Case 61 |
|           | LTE Band 14      | Front             | 0.774                         | 0.862                                   | 0.758                                 | 0.035                              | 1.636                             | 1.532                             | 0.809                             | 0.01  | Case 62 |
|           |                  | Back              | 1.069                         | 1.009                                   | 1.015                                 | 0.055                              | 2.078                             | 2.084                             | 1.124                             | 0.02  | Case 63 |
|           | LTE Band 25      | Front             | 1.081                         | 0.862                                   | 0.758                                 | 0.035                              | 1.943                             | 1.839                             | 1.116                             | 0.02  | Case 64 |
|           |                  | Back              | 0.740                         | 1.009                                   | 1.015                                 | 0.055                              | 1.749                             | 1.755                             | 0.795                             | 0.02  | Case 65 |
|           | LTE Band 26      | Front             | 0.768                         | 0.862                                   | 0.758                                 | 0.035                              | 1.630                             | 1.526                             | 0.803                             | 0.01  | Case 66 |
|           |                  | Back              | 0.917                         | 1.009                                   | 1.015                                 | 0.055                              | 1.926                             | 1.932                             | 0.972                             | 0.02  | Case 67 |
|           | LTE Band 30_Main | Front             | 0.674                         | 0.862                                   | 0.758                                 | 0.035                              | 1.536                             | 1.432                             | 0.709                             |       |         |
|           |                  | Back              | 1.067                         | 1.009                                   | 1.015                                 | 0.055                              | 2.076                             | 2.082                             | 1.122                             | 0.02  | Case 68 |
|           | LTE Band 30_Aux  | Front             | 0.459                         | 0.862                                   | 0.758                                 | 0.035                              | 1.321                             | 1.217                             | 0.494                             |       |         |
|           |                  | Back              | 0.976                         | 1.009                                   | 1.015                                 | 0.055                              | 1.985                             | 1.991                             | 1.031                             | 0.02  | Case 69 |
|           | LTE Band 41_Main | Front             | 0.565                         | 0.862                                   | 0.758                                 | 0.035                              | 1.427                             | 1.323                             | 0.600                             |       |         |
|           |                  | Back              | 1.117                         | 1.009                                   | 1.015                                 | 0.055                              | 2.126                             | 2.132                             | 1.172                             | 0.02  | Case 70 |
|           | LTE Band 41_Aux  | Front             | 0.518                         | 0.862                                   | 0.758                                 | 0.035                              | 1.380                             | 1.276                             | 0.553                             |       |         |
|           |                  | Back              | 0.882                         | 1.009                                   | 1.015                                 | 0.055                              | 1.891                             | 1.897                             | 0.937                             | 0.02  | Case 71 |
|           | LTE Band 66      | Front             | 0.706                         | 0.862                                   | 0.758                                 | 0.035                              | 1.568                             | 1.464                             | 0.741                             |       |         |
|           |                  | Back              | 0.660                         | 1.009                                   | 1.015                                 | 0.055                              | 1.669                             | 1.675                             | 0.715                             | 0.01  | Case 72 |
|           | LTE Band 71      | Front             | 0.779                         | 0.862                                   | 0.758                                 | 0.035                              | 1.641                             | 1.537                             | 0.814                             | 0.01  | Case 73 |
|           |                  | Back              | 0.865                         | 1.009                                   | 1.015                                 | 0.055                              | 1.874                             | 1.880                             | 0.920                             | 0.02  | Case 74 |

### 15.4 Product Specific Conditions

**Remark:**

- According to KDB 941225 D06 v02r01 and KDB 648474 D04v01r03, for WWAN / 2.4GHz WLAN / Bluetooth and 5GHz WLAN SAR ("..") was excluded, due to transmitting antenna located larger 25mm from that surface or edge and Hotspot SAR was < 1.2W/Kg.

| WWAN Band |                 | Exposure Position | 1                         | 2                                   | 3                                 | 4                              | 1+2                        | 1+3                        | 1+4                        | SPLSR | Case No |
|-----------|-----------------|-------------------|---------------------------|-------------------------------------|-----------------------------------|--------------------------------|----------------------------|----------------------------|----------------------------|-------|---------|
|           |                 |                   | WWAN<br>10g SAR<br>(W/kg) | 2.4GHz<br>WLAN<br>10g SAR<br>(W/kg) | 5GHz<br>WLAN<br>10g SAR<br>(W/kg) | Bluetooth<br>10g SAR<br>(W/kg) | Summed<br>1g SAR<br>(W/kg) | Summed<br>1g SAR<br>(W/kg) | Summed<br>1g SAR<br>(W/kg) |       |         |
| GSM       | GSM1900         | Front             | -                         | -                                   | 1.165                             | -                              |                            | 1.165                      |                            |       |         |
|           |                 | Back              | -                         | -                                   | 0.647                             | -                              |                            | 0.647                      |                            |       |         |
|           |                 | Left side         | -                         | 1.479                               | 2.865                             | -                              | 1.479                      | 2.865                      |                            |       |         |
|           |                 | Right side        | -                         | -                                   | -                                 | -                              |                            |                            |                            |       |         |
|           |                 | Top side          | -                         | -                                   | 0.296                             | -                              |                            | 0.296                      |                            |       |         |
|           |                 | Bottom side       | 1.375                     | -                                   | -                                 | -                              | 1.375                      | 1.375                      | 1.375                      |       |         |
| WCDMA     | WCDMA II        | Front             | -                         | -                                   | 1.165                             | -                              |                            | 1.165                      |                            |       |         |
|           |                 | Back              | -                         | -                                   | 0.647                             | -                              |                            | 0.647                      |                            |       |         |
|           |                 | Left side         | -                         | 1.479                               | 2.865                             | -                              | 1.479                      | 2.865                      |                            |       |         |
|           |                 | Right side        | -                         | -                                   | -                                 | -                              |                            |                            |                            |       |         |
|           |                 | Top side          | -                         | -                                   | 0.296                             | -                              |                            | 0.296                      |                            |       |         |
|           |                 | Bottom side       | 3.021                     | -                                   | -                                 | -                              | 3.021                      | 3.021                      | 3.021                      |       |         |
|           | WCDMA IV        | Front             | -                         | -                                   | 1.165                             | -                              |                            | 1.165                      |                            |       |         |
|           |                 | Back              | -                         | -                                   | 0.647                             | -                              |                            | 0.647                      |                            |       |         |
|           |                 | Left side         | -                         | 1.479                               | 2.865                             | -                              | 1.479                      | 2.865                      |                            |       |         |
|           |                 | Right side        | -                         | -                                   | -                                 | -                              |                            |                            |                            |       |         |
|           |                 | Top side          | -                         | -                                   | 0.296                             | -                              |                            | 0.296                      |                            |       |         |
|           |                 | Bottom side       | 3.153                     | -                                   | -                                 | -                              | 3.153                      | 3.153                      | 3.153                      |       |         |
| CDMA      | CDMA BC1        | Front             | -                         | -                                   | 1.165                             | -                              |                            | 1.165                      |                            |       |         |
|           |                 | Back              | -                         | -                                   | 0.647                             | -                              |                            | 0.647                      |                            |       |         |
|           |                 | Left side         | -                         | 1.479                               | 2.865                             | -                              | 1.479                      | 2.865                      |                            |       |         |
|           |                 | Right side        | -                         | -                                   | -                                 | -                              |                            |                            |                            |       |         |
|           |                 | Top side          | -                         | -                                   | 0.296                             | -                              |                            | 0.296                      |                            |       |         |
|           |                 | Bottom side       | 2.804                     | -                                   | -                                 | -                              | 2.804                      | 2.804                      | 2.804                      |       |         |
| LTE       | LTE Band 7_Main | Front             | -                         | -                                   | 1.165                             | -                              |                            | 1.165                      |                            |       |         |
|           |                 | Back              | -                         | -                                   | 0.647                             | -                              |                            | 0.647                      |                            |       |         |
|           |                 | Left side         | -                         | 1.479                               | 2.865                             | -                              | 1.479                      | 2.865                      |                            |       |         |
|           |                 | Right side        | 3.190                     | -                                   | -                                 | -                              | 3.190                      | 3.190                      |                            |       |         |
|           |                 | Top side          | -                         | -                                   | 0.296                             | -                              |                            | 0.296                      |                            |       |         |
|           |                 | Bottom side       | -                         | -                                   | -                                 | -                              |                            |                            |                            |       |         |
|           | LTE Band 7_Aux  | Front             | -                         | -                                   | 1.165                             | -                              |                            | 1.165                      |                            |       |         |
|           |                 | Back              | -                         | -                                   | 0.647                             | -                              |                            | 0.647                      |                            |       |         |
|           |                 | Left side         | 2.722                     | 1.479                               | 2.865                             | -                              | 4.201                      | 5.587                      | 2.722                      | 0.1   | Case 75 |
|           |                 | Right side        | -                         | -                                   | -                                 | -                              |                            |                            |                            |       |         |
|           |                 | Top side          | -                         | -                                   | 0.296                             | -                              |                            | 0.296                      |                            |       |         |
|           |                 | Bottom side       | -                         | -                                   | -                                 | -                              |                            |                            |                            |       |         |

| WWAN Band |                  | Exposure Position | 1                         | 2                                   | 3                                 | 4                              | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+3<br>Summed<br>1g SAR<br>(W/kg) | 1+4<br>Summed<br>1g SAR<br>(W/kg) | SPLSR | Case No |
|-----------|------------------|-------------------|---------------------------|-------------------------------------|-----------------------------------|--------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------|---------|
|           |                  |                   | WWAN<br>10g SAR<br>(W/kg) | 2.4GHz<br>WLAN<br>10g SAR<br>(W/kg) | 5GHz<br>WLAN<br>10g SAR<br>(W/kg) | Bluetooth<br>10g SAR<br>(W/kg) |                                   |                                   |                                   |       |         |
| LTE       | LTE 25           | Front             | -                         | -                                   | 1.165                             | -                              |                                   | 1.165                             |                                   |       |         |
|           |                  | Back              | -                         | -                                   | 0.647                             | -                              |                                   | 0.647                             |                                   |       |         |
|           |                  | Left side         | -                         | 1.479                               | 2.865                             | -                              | 1.479                             | 2.865                             |                                   |       |         |
|           |                  | Right side        | -                         | -                                   | -                                 | -                              |                                   |                                   |                                   |       |         |
|           |                  | Top side          | -                         | -                                   | 0.296                             | -                              |                                   | 0.296                             |                                   |       |         |
|           |                  | Bottom side       | 2.627                     | -                                   | -                                 | -                              | 2.627                             | 2.627                             | 2.627                             |       |         |
|           | LTE Band 30_Main | Front             | -                         | -                                   | 1.165                             | -                              |                                   | 1.165                             |                                   |       |         |
|           |                  | Back              | -                         | -                                   | 0.647                             | -                              |                                   | 0.647                             |                                   |       |         |
|           |                  | Left side         | -                         | 1.479                               | 2.865                             | -                              | 1.479                             | 2.865                             |                                   |       |         |
|           |                  | Right side        | 3.058                     | -                                   | -                                 | -                              | 3.058                             | 3.058                             | 3.058                             |       |         |
|           |                  | Top side          | -                         | -                                   | 0.296                             | -                              |                                   | 0.296                             |                                   |       |         |
|           |                  | Bottom side       | -                         | -                                   | -                                 | -                              |                                   |                                   |                                   |       |         |
|           | LTE Band 41_Main | Front             | -                         | -                                   | 1.165                             | -                              |                                   | 1.165                             |                                   |       |         |
|           |                  | Back              | -                         | -                                   | 0.647                             | -                              |                                   | 0.647                             |                                   |       |         |
|           |                  | Left side         | -                         | 1.479                               | 2.865                             | -                              | 1.479                             | 2.865                             |                                   |       |         |
|           |                  | Right side        | 3.195                     | -                                   | -                                 | -                              | 3.195                             | 3.195                             | 3.195                             |       |         |
|           |                  | Top side          | -                         | -                                   | 0.296                             | -                              |                                   | 0.296                             |                                   |       |         |
|           |                  | Bottom side       | -                         | -                                   | -                                 | -                              |                                   |                                   |                                   |       |         |
|           | LTE Band 41_Aux  | Front             | -                         | -                                   | 1.165                             | -                              |                                   | 1.165                             |                                   |       |         |
|           |                  | Back              | -                         | -                                   | 0.647                             | -                              |                                   | 0.647                             |                                   |       |         |
|           |                  | Left side         | 2.728                     | 1.479                               | 2.865                             | -                              | 4.207                             | 5.593                             | 2.728                             | 0.1   | Case 76 |
|           |                  | Right side        | -                         | -                                   | -                                 | -                              |                                   |                                   |                                   |       |         |
|           |                  | Top side          | -                         | -                                   | 0.296                             | -                              |                                   | 0.296                             |                                   |       |         |
|           |                  | Bottom side       | -                         | -                                   | -                                 | -                              |                                   |                                   |                                   |       |         |

### 15.5 SPLSR Evaluation and Analysis

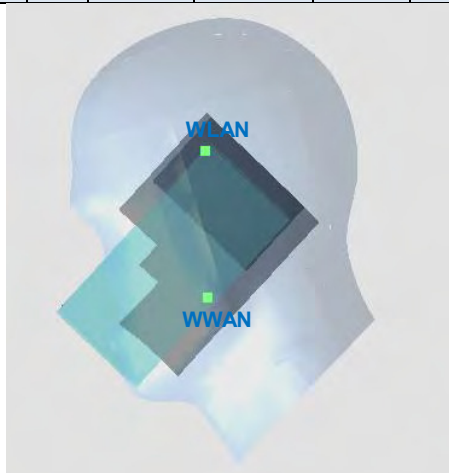
**General Note:**

1.  $SPLSR = (SAR_1 + SAR_2)^{1.5} / (min. \text{ separation distance, mm})$ . If  $SPLSR \leq 0.04$ , simultaneously transmission SAR measurement is not necessary

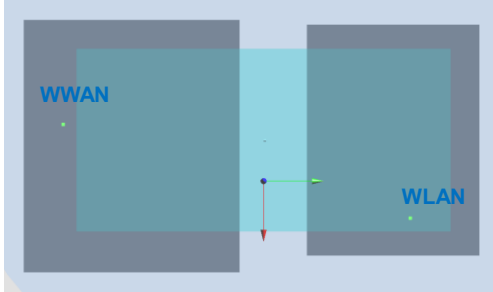
|        | Band        | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|-------------|-------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|        |             |             |            |          | X                      | Y      | Z     |                  |                   |               |                  |
| Case 1 | LTE Band 7  | Right Cheek | 0.799      | 0        | 49.01                  | 70.41  | 0.35  | 103.8            | 1.93              | 0.03          | Not required     |
|        | 2.4GHz WLAN |             | 1.134      | 0        | 16.97                  | -28.34 | -1.64 |                  |                   |               |                  |
|        | LTE Band 7  | Right Cheek | 0.799      | 0        | 49.01                  | 70.41  | 0.35  | 107.0            | 1.98              | 0.03          | Not required     |
|        | 5GHz WLAN   |             | 1.176      | 0        | 17.1                   | -31.7  | -0.77 |                  |                   |               |                  |



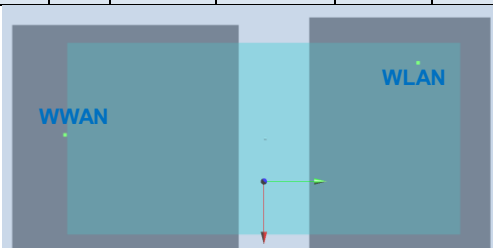
|        | Band        | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|-------------|-------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|        |             |             |            |          | X                      | Y      | Z     |                  |                   |               |                  |
| Case 2 | LTE Band 41 | Right Cheek | 0.501      | 0        | 43.64                  | 66.17  | -0.93 | 98.2             | 1.64              | 0.02          | Not required     |
|        | 2.4GHz WLAN |             | 1.134      | 0        | 16.97                  | -28.34 | -1.64 |                  |                   |               |                  |
|        | LTE Band 41 | Right Cheek | 0.501      | 0        | 43.64                  | 66.17  | -0.93 | 101.4            | 1.68              | 0.02          | Not required     |
|        | 5GHz WLAN   |             | 1.176      | 0        | 17.1                   | -31.7  | -0.77 |                  |                   |               |                  |



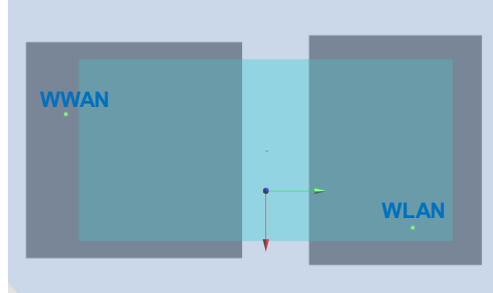
| Case 3 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|        |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|        |             |          |            |          |                        |       |       |                  |                   |               |                  |
|        | GSM850      | Back     | 0.679      | 5        | -13.9                  | -82.5 | -1.21 | 151.3            | 1.69              | 0.01          | Not required     |
|        | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |



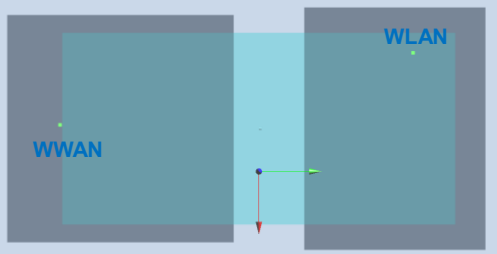
| Case 4 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|        |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
|        |             |          |            |          |                        |      |       |                  |                   |               |                  |
|        | GSM1900     | Front    | 0.773      | 5        | 2.3                    | -78  | -2.65 | 145.6            | 1.64              | 0.01          | Not required     |
|        | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2 | -1.84 |                  |                   |               |                  |



| Case 5 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|        |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|        |             |          |            |          |                        |       |       |                  |                   |               |                  |
|        | GSM1900     | Back     | 0.75       | 5        | -14.4                  | -84.1 | -2.68 | 153.0            | 1.76              | 0.02          | Not required     |
|        | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |

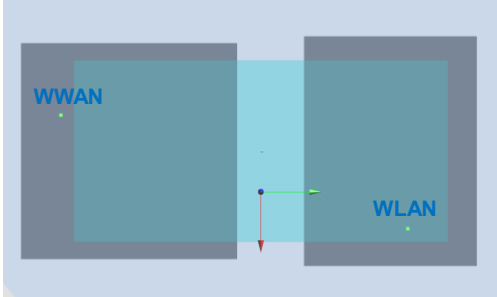


| Case 6 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|        |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|        | WCDMA II    | Front    | 0.794      | 5        | 0.8                    | -77.8 | -2.69 | 145.1            | 1.66              | 0.01          | Not required     |
|        | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2  | -1.84 |                  |                   |               |                  |



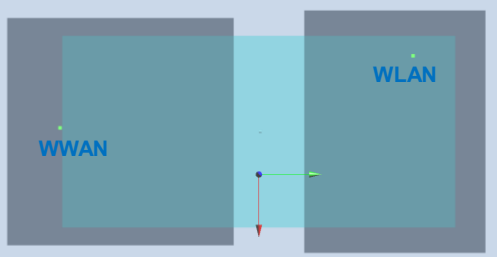
The diagram shows a top-down view of a device with two rectangular regions highlighted in light blue. The left region is labeled 'WWAN' and the right region is labeled 'WLAN'. A red dot with a green arrow points from the center of the WWAN region towards the WLAN region, indicating the SAR peak location. A red arrow points downwards from the center of the WWAN region.

| Case 7 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|        |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|        | WCDMA II    | Back     | 0.667      | 5        | -9.8                   | -77.8 | -2.68 | 145.5            | 1.68              | 0.01          | Not required     |
|        | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |



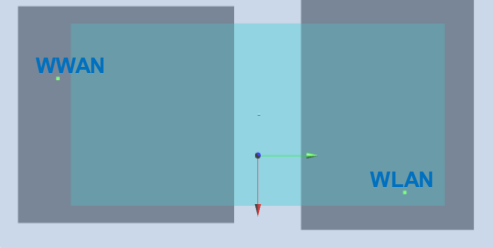
The diagram shows a top-down view of a device with two rectangular regions highlighted in light blue. The left region is labeled 'WWAN' and the right region is labeled 'WLAN'. A red dot with a green arrow points from the center of the WWAN region towards the WLAN region, indicating the SAR peak location. A red arrow points downwards from the center of the WWAN region.

| Case 8 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|        |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|        | WCDMA IV    | Front    | 0.88       | 5        | 0.2                    | -79.4 | -1.14 | 146.5            | 1.74              | 0.02          | Not required     |
|        | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2  | -1.84 |                  |                   |               |                  |



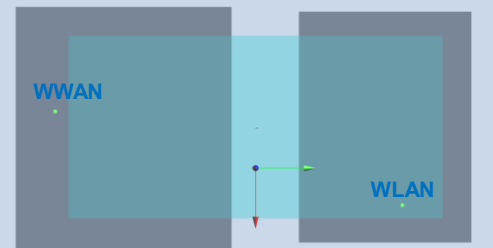
The diagram shows a top-down view of a device with two rectangular regions highlighted in light blue. The left region is labeled 'WWAN' and the right region is labeled 'WLAN'. A red dot with a green arrow points from the center of the WWAN region towards the WLAN region, indicating the SAR peak location. A red arrow points downwards from the center of the WWAN region.

| Case 9 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|        |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
|        | WCDMA IV    | Back     | 0.816      | 5        | 0.3                    | -81  | -1.13 | 145.7            | 1.83              | 0.02          | Not required     |
|        | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2 | -1.62 |                  |                   |               |                  |



The diagram shows a top-down view of a device with two rectangular regions highlighted in light blue. The left region is labeled 'WWAN' and the right region is labeled 'WLAN'. A red dot with a green arrow points from the center of the WWAN region towards the WLAN region, indicating the SAR peak location. A red arrow points downwards from the center of the WWAN region.

| Case 10 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | WCDMA V     | Back     | 0.898      | 5        | -14                    | -77.7 | -1.32 | 146.8            | 1.91              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |



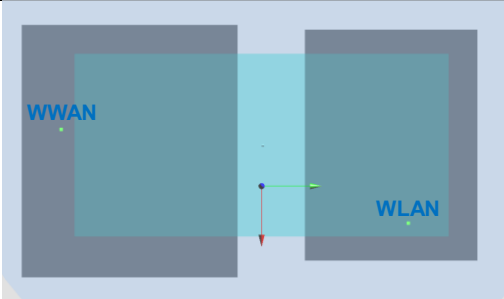
The diagram shows a top-down view of a device with two rectangular regions highlighted in light blue. The left region is labeled 'WWAN' and the right region is labeled 'WLAN'. A red dot with a green arrow points from the center of the WWAN region towards the WLAN region, indicating the SAR peak location. A red arrow points downwards from the center of the WWAN region.

| Case 11 | Band        | Position  | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|-----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |           |            |          | X                      | Y    | Z     |                  |                   |               |                  |
|         | WCDMA V     | Left Side | 0.44       | 5        | -2.4                   | 1    | -1.64 | 55.8             | 1.64              | 0.04          | Not required     |
|         | 2.4GHz WLAN |           | 1.195      | 5        | 2.4                    | 56.6 | -1.77 |                  |                   |               |                  |



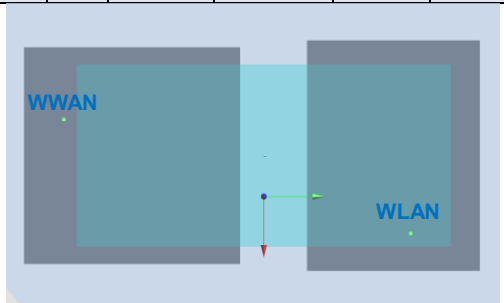
The diagram shows a top-down view of a device with two rectangular regions highlighted in light blue. The left region is labeled 'WWAN' and the right region is labeled 'WLAN'. A red dot with a green arrow points from the center of the WWAN region towards the WLAN region, indicating the SAR peak location. A red arrow points downwards from the center of the WWAN region.

| Case<br>12 | Band        | Position | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |      |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------------|-------------|----------|---------------|-------------|------------------------|------|-------|------------------------|-------------------------|------------------|---------------------|
|            |             |          |               |             | X                      | Y    | Z     |                        |                         |                  |                     |
|            | CDMA BC0    | Back     | 0.981         | 5           | -9.7                   | -77  | -6.16 | 144.8                  | 1.99                    | 0.02             | Not required        |
|            | 2.4GHz WLAN |          | 1.009         | 5           | 36.4                   | 60.2 | -1.62 |                        |                         |                  |                     |



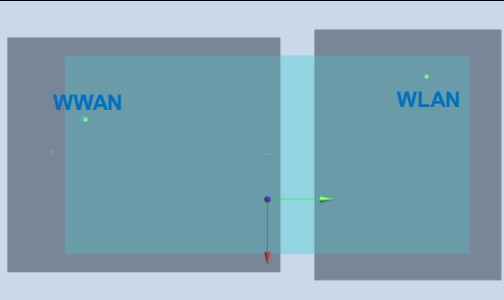
The diagram shows a top-down view of a device with two rectangular regions labeled 'WWAN' and 'WLAN'. A coordinate system is centered between them, with a red arrow pointing down (negative Z), a green arrow pointing right (positive X), and a blue arrow pointing up (positive Y). The WWAN region is on the left and the WLAN region is on the right.

| Case<br>13 | Band        | Position | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |       |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------------|-------------|----------|---------------|-------------|------------------------|-------|-------|------------------------|-------------------------|------------------|---------------------|
|            |             |          |               |             | X                      | Y     | Z     |                        |                         |                  |                     |
|            | CDMA BC1    | Back     | 0.601         | 5           | -10.4                  | -80.9 | -1.19 | 148.7                  | 1.61                    | 0.01             | Not required        |
|            | 2.4GHz WLAN |          | 1.009         | 5           | 36.4                   | 60.2  | -1.62 |                        |                         |                  |                     |



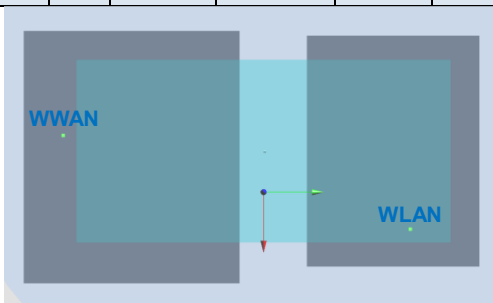
The diagram shows a top-down view of a device with two rectangular regions labeled 'WWAN' and 'WLAN'. A coordinate system is centered between them, with a red arrow pointing down (negative Z), a green arrow pointing right (positive X), and a blue arrow pointing up (positive Y). The WWAN region is on the left and the WLAN region is on the right.

| Case<br>14 | Band        | Position | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |       |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------------|-------------|----------|---------------|-------------|------------------------|-------|-------|------------------------|-------------------------|------------------|---------------------|
|            |             |          |               |             | X                      | Y     | Z     |                        |                         |                  |                     |
|            | CDMA BC10   | Front    | 0.743         | 5           | 12.5                   | -79.5 | -6    | 149.6                  | 1.61                    | 0.01             | Not required        |
|            | 2.4GHz WLAN |          | 0.862         | 5           | -29                    | 64.2  | -1.84 |                        |                         |                  |                     |



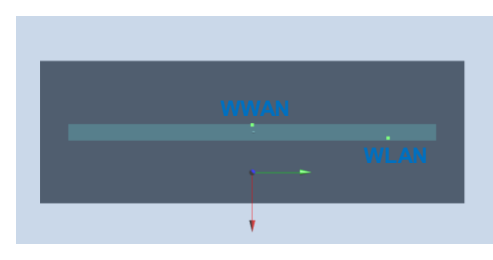
The diagram shows a top-down view of a device with two rectangular regions labeled 'WWAN' and 'WLAN'. A coordinate system is centered between them, with a red arrow pointing down (negative Z), a green arrow pointing right (positive X), and a blue arrow pointing up (positive Y). The WWAN region is on the left and the WLAN region is on the right.

| Case<br>15 | Band      | Position | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |     |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------------|-----------|----------|---------------|-------------|------------------------|-----|-------|------------------------|-------------------------|------------------|---------------------|
|            |           |          |               |             | X                      | Y   | Z     |                        |                         |                  |                     |
|            | CDMA BC10 | Back     | 0.971         | 5           | -9.7                   | -77 | -6.18 | 144.8                  | 1.98                    | 0.02             | Not required        |
|            |           |          |               |             |                        |     |       |                        |                         |                  |                     |



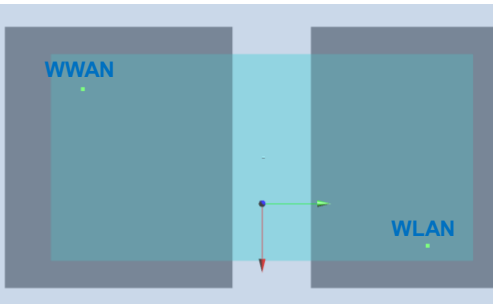
The diagram shows a top-down view of a device with two rectangular regions highlighted in light blue. The left region is labeled 'WWAN' and the right region is labeled 'WLAN'. A red dot with a green arrow points to the SAR peak location within the WLAN region. A red arrow points downwards from the peak location.

| Case<br>16 | Band        | Position  | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |      |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------------|-------------|-----------|---------------|-------------|------------------------|------|-------|------------------------|-------------------------|------------------|---------------------|
|            |             |           |               |             | X                      | Y    | Z     |                        |                         |                  |                     |
|            | CDMA BC10   | Left Side | 0.415         | 5           | 3.6                    | 0.4  | -6.9  | 56.4                   | 1.61                    | 0.04             | Not required        |
|            | 2.4GHz WLAN |           | 1.195         | 5           | 2.4                    | 56.6 | -1.77 |                        |                         |                  |                     |



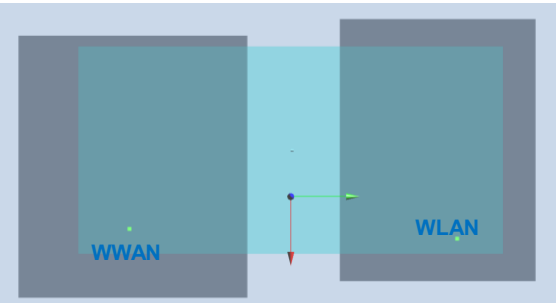
The diagram shows a top-down view of a device with a horizontal rectangular region highlighted in light blue. The left part of the region is labeled 'WWAN' and the right part is labeled 'WLAN'. A red dot with a green arrow points to the SAR peak location within the WLAN region. A red arrow points downwards from the peak location.

| Case<br>17 | Band            | Position | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |       |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------------|-----------------|----------|---------------|-------------|------------------------|-------|-------|------------------------|-------------------------|------------------|---------------------|
|            |                 |          |               |             | X                      | Y     | Z     |                        |                         |                  |                     |
|            | LTE Band 7_Main | Back     | 1.095         | 5           | -28.2                  | -67.2 | -6.03 | 142.9                  | 2.10                    | 0.02             | Not required        |
|            | 2.4GHz WLAN     |          | 1.009         | 5           | 36.4                   | 60.2  | -1.62 |                        |                         |                  |                     |
|            | LTE Band 7_Main | Back     | 1.064         | 5           | -28.2                  | -67.2 | -6.03 | 150.3                  | 1.63                    | 0.01             | Not required        |
|            | 5GHz WLAN       |          | 0.569         | 5           | 37.2                   | 68    | -0.92 |                        |                         |                  |                     |

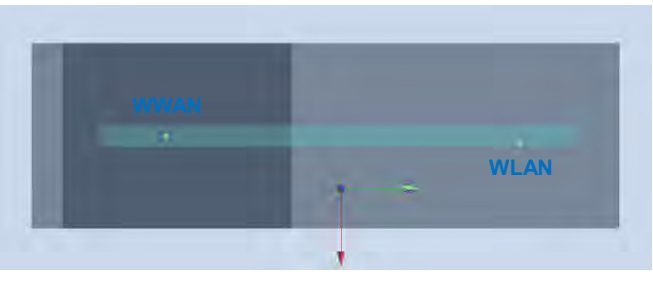


The diagram shows a top-down view of a device with two rectangular regions highlighted in light blue. The left region is labeled 'WWAN' and the right region is labeled 'WLAN'. A red dot with a green arrow points to the SAR peak location within the WLAN region. A red arrow points downwards from the peak location.

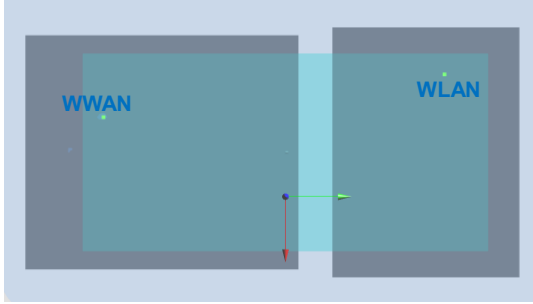
| Case 18 | Band           | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|----------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |                |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | LTE Band 7_Aux | Back     | 0.864      | 5        | 26.8                   | -60.2 | 0.09  | 120.8            | 1.87              | 0.02          | Not required     |
|         | 2.4GHz WLAN    |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |



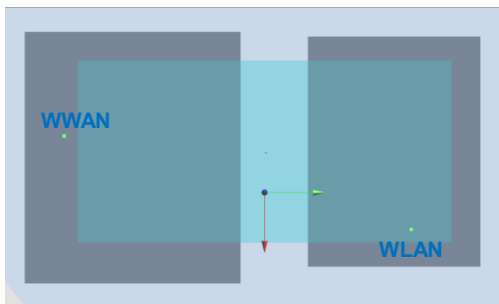
| Case 19 | Band           | Position  | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|----------------|-----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |                |           |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | LTE Band 7_Aux | Left Side | 0.569      | 5        | 0                      | -54.8 | -0.1  | 111.4            | 1.76              | 0.02          | Not required     |
|         | 2.4GHz WLAN    |           | 1.195      | 5        | 2.4                    | 56.6  | -1.77 |                  |                   |               |                  |



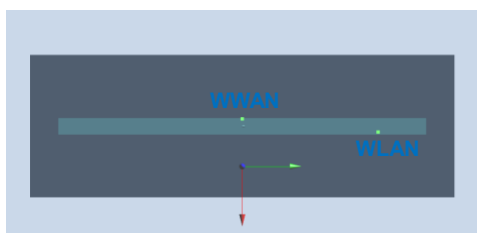
| Case 20 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
|         | LTE Band 12 | Front    | 0.882      | 5        | 12.5                   | -82  | -2.17 | 152.0            | 1.74              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2 | -1.84 |                  |                   |               |                  |



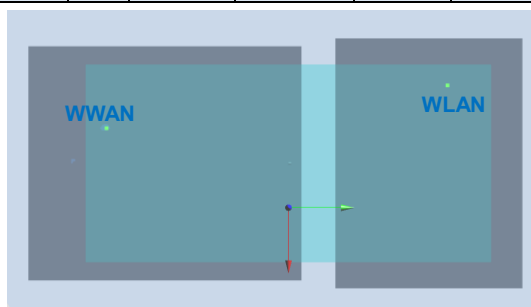
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 21 | LTE Band 12 | Back     | 1.155      | 5        | -12.9                  | -80.4 | -2.25 | 149.0            | 2.16              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | LTE Band 12 | Back     | 0.349      | 5        | -12.9                  | -80.4 | -2.25 | 156.6            | 0.92              | 0.01          | Not required     |
|         | 5GHz WLAN   |          | 0.569      | 5        | 37.2                   | 68    | -0.92 |                  |                   |               |                  |



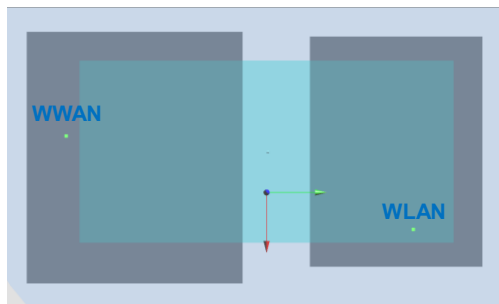
| Case    | Band        | Position  | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|-----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |           |            |          | X                      | Y    | Z     |                  |                   |               |                  |
| Case 22 | LTE Band 12 | Left Side | 0.571      | 5        | 0.6                    | -8.4 | -2.65 | 65.0             | 1.77              | 0.04          | Not required     |
|         | 2.4GHz WLAN |           | 1.195      | 5        | 2.4                    | 56.6 | -1.77 |                  |                   |               |                  |



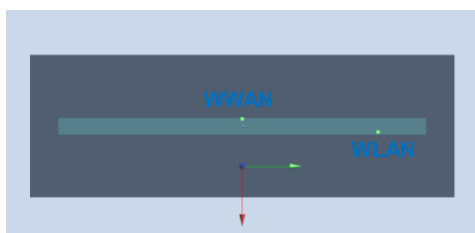
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
| Case 23 | LTE Band 13 | Front    | 0.986      | 5        | 12.5                   | -82  | -2.17 | 152.0            | 1.85              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2 | -1.84 |                  |                   |               |                  |



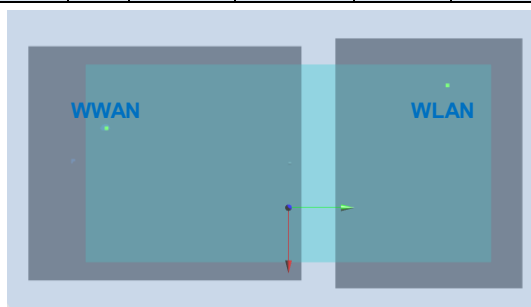
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 24 | LTE Band 13 | Back     | 1.136      | 5        | -12.9                  | -80.4 | -2.19 | 149.0            | 2.15              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | LTE Band 13 | Back     | 1.136      | 5        | -12.9                  | -80.4 | -2.19 | 156.6            | 1.71              | 0.01          | Not required     |
|         | 5GHz WLAN   |          | 0.569      | 5        | 37.2                   | 68    | -0.92 |                  |                   |               |                  |



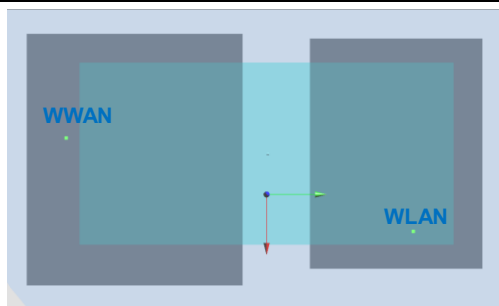
| Case    | Band        | Position  | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|-----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |           |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 25 | LTE Band 13 | Left Side | 0.462      | 5        | -1                     | -14.4 | -2.61 | 71.1             | 1.66              | 0.03          | Not required     |
|         | 2.4GHz WLAN |           | 1.195      | 5        | 2.4                    | 56.6  | -1.77 |                  |                   |               |                  |



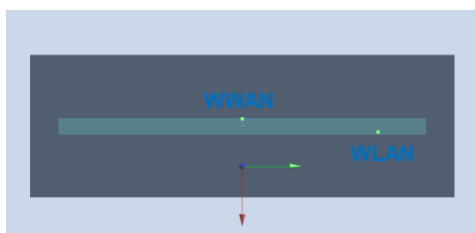
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 26 | LTE Band 14 | Front    | 0.774      | 5        | 10.9                   | -80.5 | -2.16 | 150.1            | 1.64              | 0.01          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2  | -1.84 |                  |                   |               |                  |



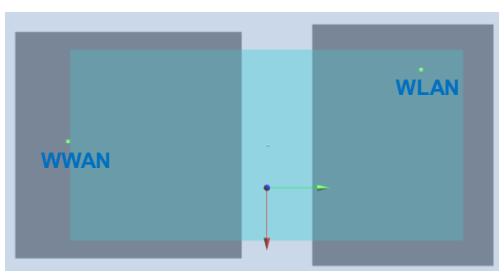
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
| Case 27 | LTE Band 14 | Back     | 1.069      | 5        | -9.6                   | -82  | -2.22 | 149.5            | 2.08              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2 | -1.62 |                  |                   |               |                  |
|         | LTE Band 14 | Back     | 1.069      | 5        | -9.6                   | -82  | -2.22 | 157.1            | 1.64              | 0.01          | Not required     |
|         | 5GHz WLAN   |          | 0.569      | 5        | 37.2                   | 68   | -0.92 |                  |                   |               |                  |



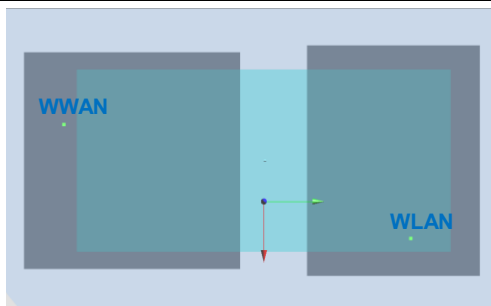
| Case    | Band        | Position  | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|-----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |           |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 28 | LTE Band 14 | Left Side | 0.456      | 5        | -1                     | -14.4 | -2.61 | 71.1             | 1.65              | 0.03          | Not required     |
|         | 2.4GHz WLAN |           | 1.195      | 5        | 2.4                    | 56.6  | -1.77 |                  |                   |               |                  |



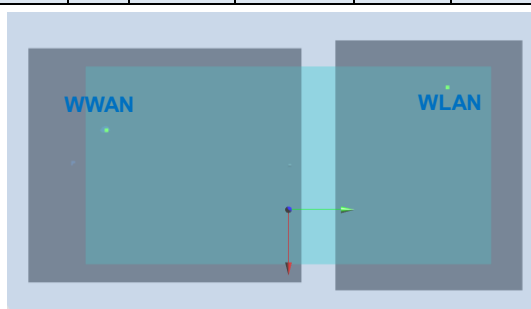
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 29 | LTE Band 25 | Front    | 1.081      | 5        | 2.3                    | -79.5 | -2.6  | 147.1            | 1.94              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2  | -1.84 |                  |                   |               |                  |



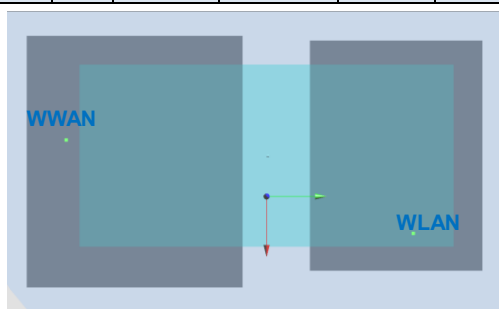
| Case 30 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | LTE Band 25 | Back     | 0.74       | 5        | -8.9                   | -77.8 | -2.69 | 145.2            | 1.75              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |



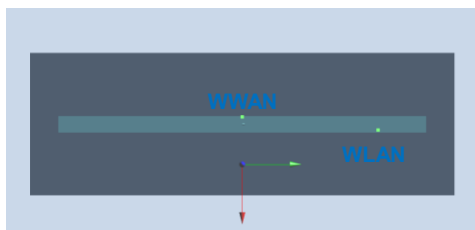
| Case 31 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | LTE Band 26 | Front    | 0.768      | 5        | 6                      | -79.5 | -1.29 | 147.9            | 1.63              | 0.01          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2  | -1.84 |                  |                   |               |                  |



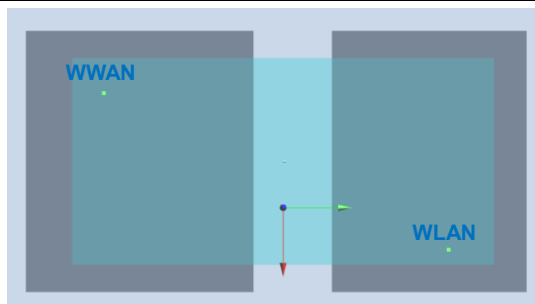
| Case 32 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | LTE Band 26 | Back     | 0.917      | 5        | -13.9                  | -79.4 | -1.36 | 148.4            | 1.93              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |



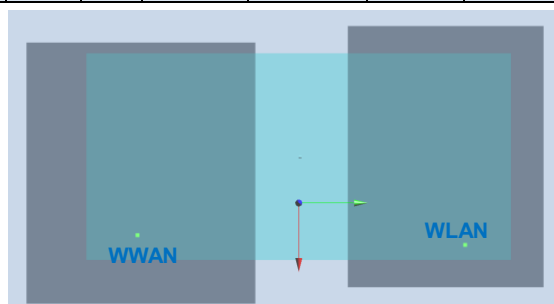
| Case<br>33 | Band        | Position  | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |      |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------------|-------------|-----------|---------------|-------------|------------------------|------|-------|------------------------|-------------------------|------------------|---------------------|
|            |             |           |               |             | X                      | Y    | Z     |                        |                         |                  |                     |
|            | LTE Band 26 | Left Side | 0.447         | 5           | 0.6                    | -2.1 | -1.67 | 58.7                   | 1.64                    | 0.04             | Not required        |
|            | 2.4GHz WLAN |           | 1.195         | 5           | 2.4                    | 56.6 | -1.77 |                        |                         |                  |                     |



| Case<br>34 | Band             | Position | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |       |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------------|------------------|----------|---------------|-------------|------------------------|-------|-------|------------------------|-------------------------|------------------|---------------------|
|            |                  |          |               |             | X                      | Y     | Z     |                        |                         |                  |                     |
|            | LTE Band 30_Main | Back     | 1.067         | 5           | -35.6                  | -62.8 | -1.14 | 142.5                  | 2.08                    | 0.02             | Not required        |
|            | 2.4GHz WLAN      |          | 1.009         | 5           | 36.4                   | 60.2  | -1.62 |                        |                         |                  |                     |
|            | LTE Band 30_Main | Back     | 1.067         | 5           | -35.6                  | -62.8 | -1.14 | 149.7                  | 1.64                    | 0.01             | Not required        |
|            | 5GHz WLAN        |          | 0.569         | 5           | 37.2                   | 68    | -0.92 |                        |                         |                  |                     |



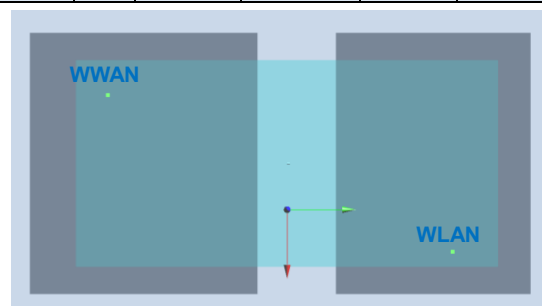
| Case<br>35 | Band            | Position | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |       |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------------|-----------------|----------|---------------|-------------|------------------------|-------|-------|------------------------|-------------------------|------------------|---------------------|
|            |                 |          |               |             | X                      | Y     | Z     |                        |                         |                  |                     |
|            | LTE Band 30_Aux | Back     | 0.976         | 5           | 29                     | -64.4 | -0.46 | 124.8                  | 1.99                    | 0.02             | Not required        |
|            | 2.4GHz WLAN     |          | 1.009         | 5           | 36.4                   | 60.2  | -1.62 |                        |                         |                  |                     |



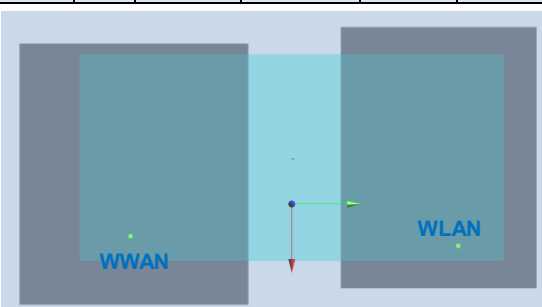
| Case | Band            | Position  | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |       |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------|-----------------|-----------|---------------|-------------|------------------------|-------|-------|------------------------|-------------------------|------------------|---------------------|
|      |                 |           |               |             | X                      | Y     | Z     |                        |                         |                  |                     |
| 36   | LTE Band 30_Aux | Left Side | 0.422         | 5           | 1.2                    | -54.2 | -0.7  | 110.8                  | 1.62                    | 0.02             | Not required        |
|      | 2.4GHz WLAN     |           | 1.195         | 5           | 2.4                    | 56.6  | -1.77 |                        |                         |                  |                     |



| Case | Band             | Position | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |      |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------|------------------|----------|---------------|-------------|------------------------|------|-------|------------------------|-------------------------|------------------|---------------------|
|      |                  |          |               |             | X                      | Y    | Z     |                        |                         |                  |                     |
| 37   | LTE Band 41_Main | Back     | 1.117         | 5           | -31.6                  | -58  | -0.75 | 136.4                  | 2.13                    | 0.02             | Not required        |
|      | 2.4GHz WLAN      |          | 1.009         | 5           | 36.4                   | 60.2 | -1.62 |                        |                         |                  |                     |
|      | LTE Band 41_Main | Back     | 1.117         | 5           | -31.6                  | -58  | -0.75 | 143.6                  | 1.69                    | 0.02             | Not required        |
|      | 5GHz WLAN        |          | 0.569         | 5           | 37.2                   | 68   | -0.92 |                        |                         |                  |                     |



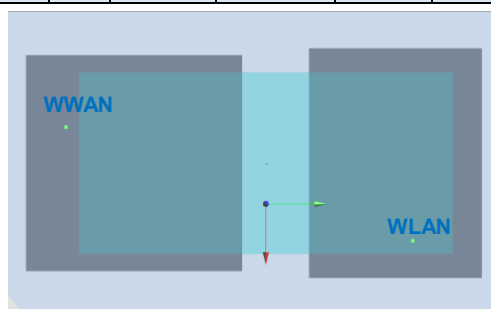
| Case | Band            | Position | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |       |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------|-----------------|----------|---------------|-------------|------------------------|-------|-------|------------------------|-------------------------|------------------|---------------------|
|      |                 |          |               |             | X                      | Y     | Z     |                        |                         |                  |                     |
| 38   | LTE Band 41_Aux | Back     | 0.882         | 5           | 26.6                   | -60.2 | 0.09  | 120.8                  | 1.89                    | 0.02             | Not required        |
|      | 2.4GHz WLAN     |          | 1.009         | 5           | 36.4                   | 60.2  | -1.62 |                        |                         |                  |                     |



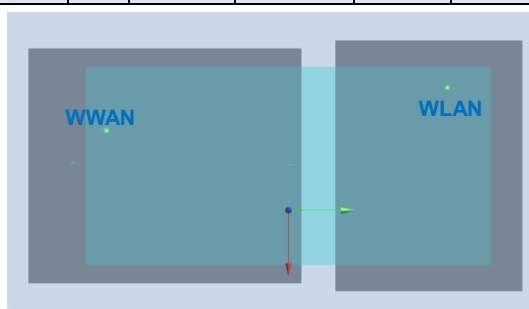
| Case 39 | Band            | Position  | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-----------------|-----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |                 |           |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | LTE Band 41_Aux | Left Side | 0.578      | 5        | 0                      | -55.4 | -0.68 | 112.0            | 1.77              | 0.02          | Not required     |
|         | 2.4GHz WLAN     |           | 1.195      | 5        | 2.4                    | 56.6  | -1.77 |                  |                   |               |                  |



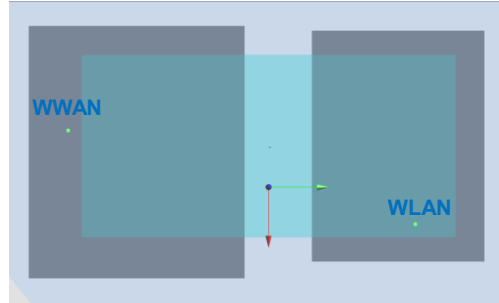
| Case 40 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | LTE Band 66 | Back     | 0.588      | 5        | 1.5                    | -80.6 | -1.2  | 145.1            | 1.60              | 0.01          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |



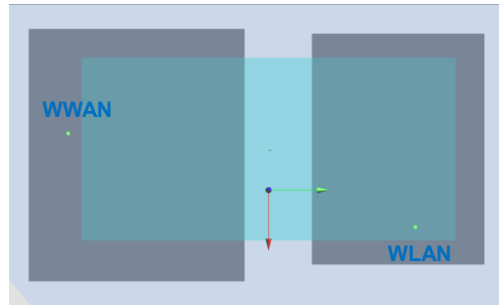
| Case 41 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
|         | LTE Band 71 | Front    | 0.779      | 5        | 12.5                   | -82  | -2.17 | 152.0            | 1.64              | 0.01          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2 | -1.84 |                  |                   |               |                  |



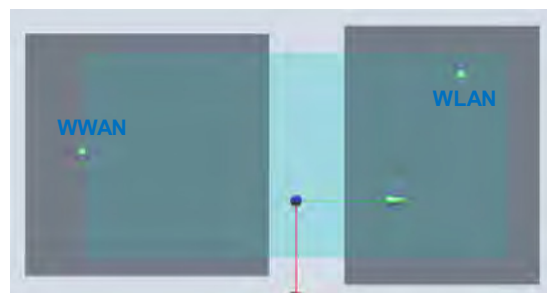
| Case 42 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | LTE Band 71 | Back     | 0.865      | 5        | -14.5                  | -77.3 | -2.27 | 146.6            | 1.87              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |



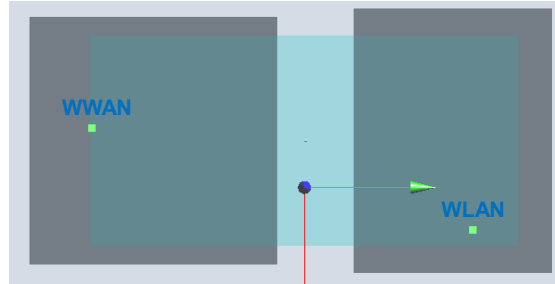
| Case 43 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | GSM850      | Back     | 0.679      | 5        | -13.9                  | -82.5 | -1.21 | 151.3            | 1.69              | 0.01          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | GSM850      | Back     | 0.679      | 5        | -13.9                  | -82.5 | -1.21 | 157.5            | 1.69              | 0.01          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



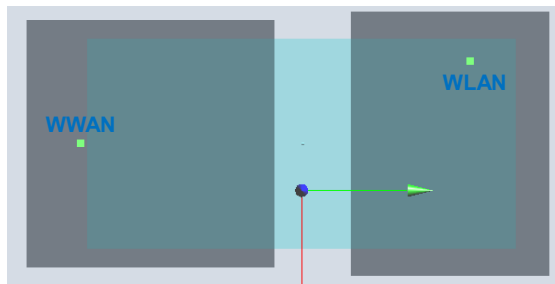
| Case 44 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
|         | GSM1900     | Front    | 1.13       | 5        | -0.9                   | -78  | -1.75 | 144.9            | 1.99              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2 | -1.84 |                  |                   |               |                  |
|         | GSM1900     | Front    | 1.13       | 5        | -0.9                   | -78  | -1.75 | 155.2            | 1.89              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 0.758      | 5        | -37.4                  | 72.8 | -1.3  |                  |                   |               |                  |



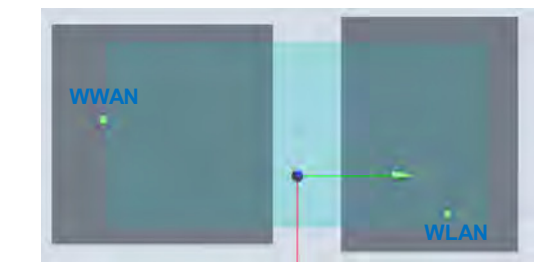
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 45 | GSM1900     | Back     | 1.109      | 5        | -11.9                  | -76.5 | -1.77 | 145.0            | 2.12              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | GSM1900     | Back     | 0.695      | 5        | -11.9                  | -76.5 | -1.77 | 151.2            | 1.71              | 0.01          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



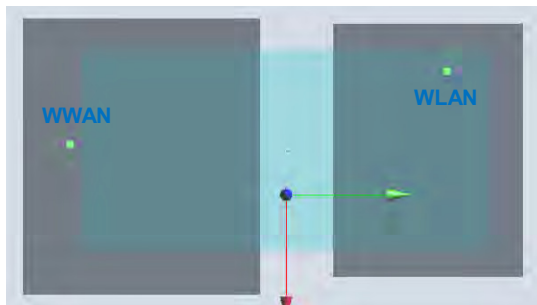
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 46 | WCDMA II    | Front    | 1.177      | 5        | 2.2                    | -77.9 | -1.72 | 145.5            | 2.04              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2  | -1.84 |                  |                   |               |                  |
|         | WCDMA II    | Front    | 1.177      | 5        | 2.2                    | -77.9 | -1.72 | 155.8            | 1.94              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 0.758      | 5        | -37.4                  | 72.8  | -1.3  |                  |                   |               |                  |



| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
| Case 47 | WCDMA II    | Back     | 1.007      | 5        | -13.4                  | -78  | -1.78 | 146.9            | 2.02              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2 | -1.62 |                  |                   |               |                  |
|         | WCDMA II    | Back     | 1.007      | 5        | -13.4                  | -78  | -1.78 | 153.1            | 2.02              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8 | -0.87 |                  |                   |               |                  |



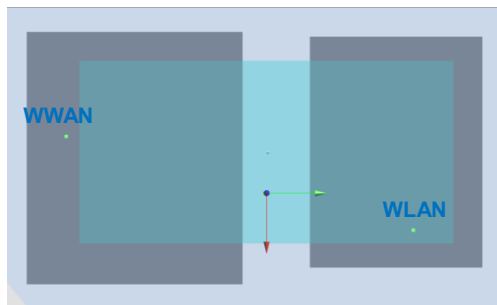
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 48 | WCDMA IV    | Front    | 0.988      | 5        | 0.2                    | -79.4 | -1.14 | 146.5            | 1.85              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2  | -1.84 |                  |                   |               |                  |
|         | WCDMA IV    | Front    | 0.988      | 5        | 0.2                    | -79.4 | -1.14 | 156.8            | 1.75              | 0.01          | Not required     |
|         | 5GHz WLAN   |          | 0.758      | 5        | -37.4                  | 72.8  | -1.3  |                  |                   |               |                  |



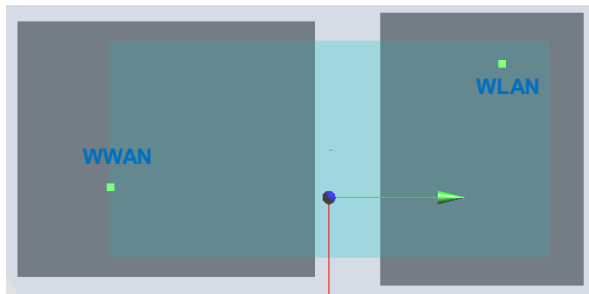
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
| Case 49 | WCDMA IV    | Back     | 0.916      | 5        | 0.3                    | -81  | -1.13 | 145.7            | 1.93              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2 | -1.62 |                  |                   |               |                  |
|         | WCDMA IV    | Back     | 0.916      | 5        | 0.3                    | -81  | -1.13 | 152.1            | 1.93              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8 | -0.87 |                  |                   |               |                  |



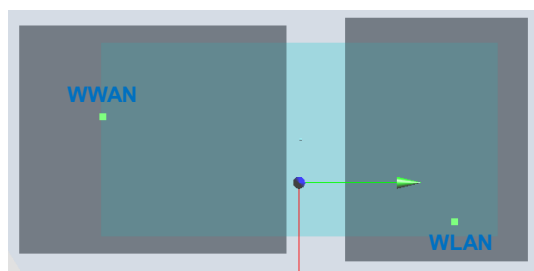
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 50 | WCDMA V     | Back     | 0.898      | 5        | -14                    | -77.7 | -1.32 | 146.8            | 1.91              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | WCDMA V     | Back     | 0.898      | 5        | -14                    | -77.7 | -1.32 | 153.0            | 1.91              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



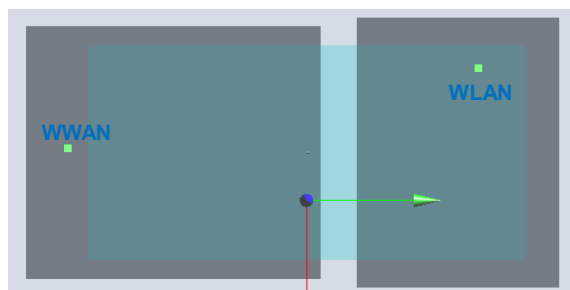
| Case 51 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | CDMA BC0    | Front    | 0.775      | 5        | 10.9                   | -82.4 | -5.94 | 152.0            | 1.64              | 0.01          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2  | -1.84 |                  |                   |               |                  |



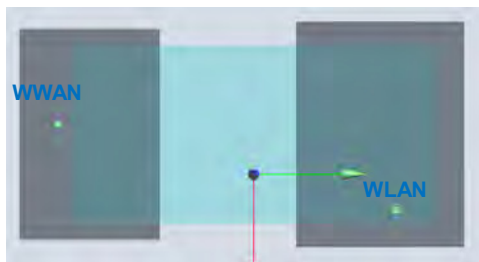
| Case 52 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | CDMA BC0    | Back     | 1.029      | 5        | -10                    | -77.6 | -6.13 | 145.5            | 2.04              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | CDMA BC0    | Back     | 1.029      | 5        | -10                    | -77.6 | -6.13 | 151.7            | 2.04              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



| Case 53 | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
|         | CDMA BC1    | Front    | 0.975      | 5        | -0.9                   | -82.4 | -1.16 | 149.3            | 1.84              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2  | -1.84 |                  |                   |               |                  |
|         | CDMA BC1    | Front    | 0.975      | 5        | -0.9                   | -82.4 | -1.16 | 159.4            | 1.73              | 0.01          | Not required     |
|         | 5GHz WLAN   |          | 0.758      | 5        | -37.4                  | 72.8  | -1.3  |                  |                   |               |                  |



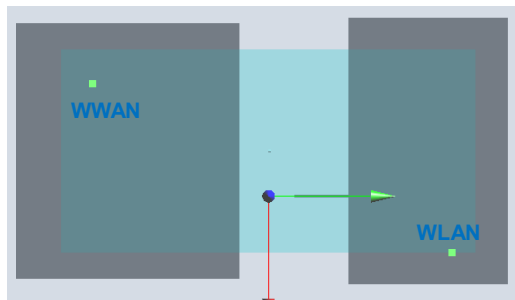
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 54 | CDMA BC1    | Back     | 1.072      | 5        | -11.9                  | -79.3 | -1.19 | 147.6            | 2.08              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | CDMA BC1    | Back     | 1.072      | 5        | -11.9                  | -79.3 | -1.19 | 153.8            | 2.09              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
| Case 55 | CDMA BC10   | Back     | 0.966      | 5        | -10                    | -76  | -6.15 | 144.0            | 1.98              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2 | -1.62 |                  |                   |               |                  |
|         | CDMA BC10   | Back     | 0.966      | 5        | -10                    | -76  | -6.15 | 150.2            | 1.98              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8 | -0.87 |                  |                   |               |                  |



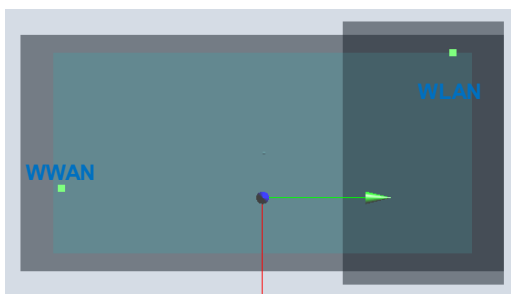
| Case    | Band            | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-----------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |                 |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 56 | LTE Band 7_Main | Back     | 1.095      | 5        | -28.2                  | -67.2 | -6.03 | 142.9            | 2.10              | 0.02          | Not required     |
|         | 2.4GHz WLAN     |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | LTE Band 7      | Back     | 1.095      | 5        | -28.2                  | -67.2 | -6.03 | 148.8            | 2.11              | 0.02          | Not required     |
|         | 5GHz WLAN       |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



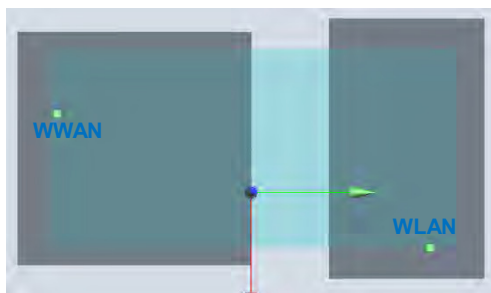
| Case    | Band           | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|----------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |                |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 57 | LTE Band 7_Aux | Back     | 0.864      | 5        | 26.8                   | -60.2 | 0.09  | 120.8            | 1.87              | 0.02          | Not required     |
|         | 2.4GHz WLAN    |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | LTE Band 7     | Back     | 0.864      | 5        | 26.8                   | -60.2 | 0.09  | 127.4            | 1.88              | 0.02          | Not required     |
|         | 5GHz WLAN      |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



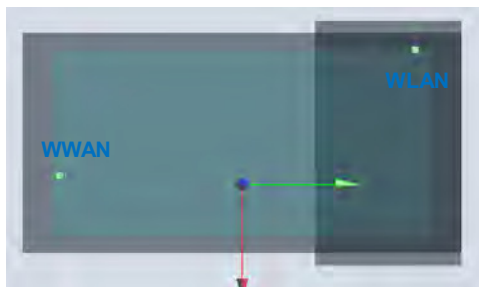
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
| Case 58 | LTE Band 12 | Front    | 0.882      | 5        | 12.5                   | -82  | -2.17 | 152.0            | 1.74              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2 | -1.84 |                  |                   |               |                  |
|         | LTE Band 12 | Front    | 0.882      | 5        | 12.5                   | -82  | -2.17 | 162.6            | 1.64              | 0.01          | Not required     |
|         | 5GHz WLAN   |          | 0.758      | 5        | -37.4                  | 72.8 | -1.3  |                  |                   |               |                  |



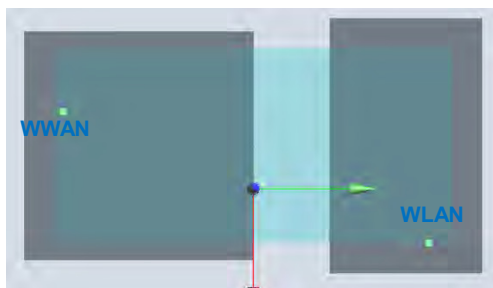
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 59 | LTE Band 12 | Back     | 1.155      | 5        | -12.9                  | -80.4 | -2.25 | 149.0            | 2.16              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | LTE Band 12 | Back     | 1.155      | 5        | -12.9                  | -80.4 | -2.25 | 155.2            | 2.17              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



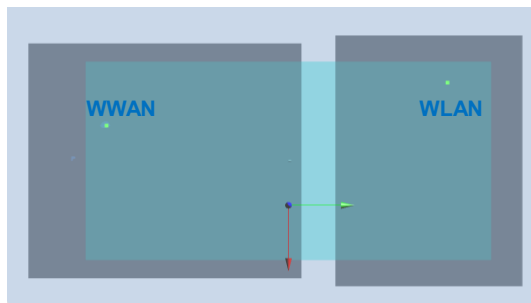
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
| Case 60 | LTE Band 13 | Front    | 0.986      | 5        | 12.5                   | -82  | -2.17 | 152.0            | 1.85              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2 | -1.84 |                  |                   |               |                  |
|         | LTE Band 13 | Front    | 0.986      | 5        | 12.5                   | -82  | -2.17 | 162.6            | 1.74              | 0.01          | Not required     |
|         | 5GHz WLAN   |          | 0.758      | 5        | -37.4                  | 72.8 | -1.3  |                  |                   |               |                  |



| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 61 | LTE Band 13 | Back     | 1.136      | 5        | -12.9                  | -80.4 | -2.19 | 149.0            | 2.15              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | LTE Band 13 | Back     | 1.136      | 5        | -12.9                  | -80.4 | -2.19 | 155.2            | 2.15              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 62 | LTE Band 14 | Front    | 0.774      | 5        | 10.9                   | -80.5 | -2.16 | 150.1            | 1.64              | 0.01          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2  | -1.84 |                  |                   |               |                  |



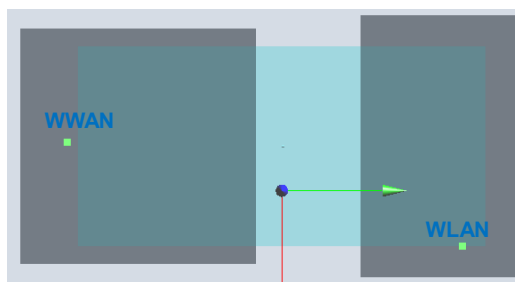
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
| Case 63 | LTE Band 14 | Back     | 1.069      | 5        | -9.6                   | -82  | -2.22 | 149.5            | 2.08              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2 | -1.62 |                  |                   |               |                  |
|         | LTE Band 14 | Back     | 1.069      | 5        | -9.6                   | -82  | -2.22 | 155.7            | 2.08              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8 | -0.87 |                  |                   |               |                  |



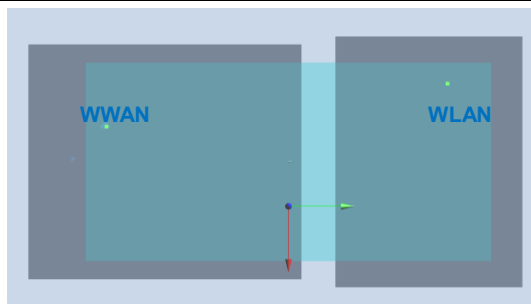
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 64 | LTE Band 25 | Front    | 1.081      | 5        | 2.3                    | -79.5 | -2.6  | 147.1            | 1.94              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2  | -1.84 |                  |                   |               |                  |
|         | LTE Band 25 | Front    | 1.081      | 5        | 2.3                    | -79.5 | -2.6  | 157.4            | 1.84              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 0.758      | 5        | -37.4                  | 72.8  | -1.3  |                  |                   |               |                  |



| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 65 | LTE Band 25 | Back     | 0.74       | 5        | -8.9                   | -77.8 | -2.69 | 145.2            | 1.75              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | LTE Band 25 | Back     | 0.74       | 5        | -8.9                   | -77.8 | -2.69 | 151.5            | 1.76              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



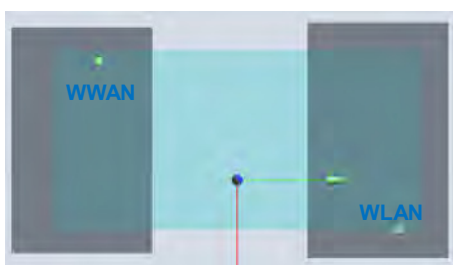
| Case<br>66 | Band        | Position | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |       |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------------|-------------|----------|---------------|-------------|------------------------|-------|-------|------------------------|-------------------------|------------------|---------------------|
|            |             |          |               |             | X                      | Y     | Z     |                        |                         |                  |                     |
|            | LTE Band 26 | Front    | 0.768         | 5           | 6                      | -79.5 | -1.29 | 147.9                  | 1.63                    | 0.01             | Not required        |
|            | 2.4GHz WLAN |          | 0.862         | 5           | -29                    | 64.2  | -1.84 |                        |                         |                  |                     |



| Case<br>67 | Band        | Position | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |       |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------------|-------------|----------|---------------|-------------|------------------------|-------|-------|------------------------|-------------------------|------------------|---------------------|
|            |             |          |               |             | X                      | Y     | Z     |                        |                         |                  |                     |
|            | LTE Band 26 | Back     | 0.993         | 5           | -13.9                  | -79.4 | -1.36 | 148.4                  | 1.93                    | 0.02             | Not required        |
|            | 2.4GHz WLAN |          | 1.009         | 5           | 36.4                   | 60.2  | -1.62 |                        |                         |                  |                     |
|            | LTE Band 26 | Back     | 0.930         | 5           | -13.9                  | -79.4 | -1.36 | 154.5                  | 1.93                    | 0.02             | Not required        |
|            | 5GHz WLAN   |          | 1.015         | 5           | 36.2                   | 66.8  | -0.87 |                        |                         |                  |                     |



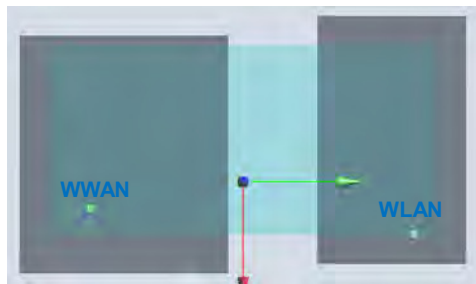
| Case<br>68 | Band             | Position | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |       |       | 3D<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|------------|------------------|----------|---------------|-------------|------------------------|-------|-------|------------------------|-------------------------|------------------|---------------------|
|            |                  |          |               |             | X                      | Y     | Z     |                        |                         |                  |                     |
|            | LTE Band 30_Main | Back     | 1.067         | 5           | -35.6                  | -62.8 | -1.14 | 142.5                  | 2.08                    | 0.02             | Not required        |
|            | 2.4GHz WLAN      |          | 1.009         | 5           | 36.4                   | 60.2  | -1.62 |                        |                         |                  |                     |
|            | LTE Band 30      | Back     | 1.067         | 5           | -35.6                  | -62.8 | -1.14 | 148.2                  | 2.08                    | 0.02             | Not required        |
|            | 5GHz WLAN        |          | 1.015         | 5           | 36.2                   | 66.8  | -0.87 |                        |                         |                  |                     |



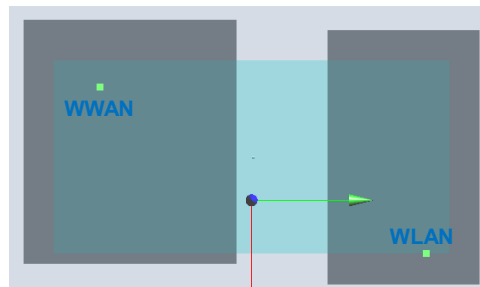
| Case    | Band            | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-----------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |                 |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 69 | LTE Band 30_Aux | Back     | 0.976      | 5        | 29                     | -64.4 | -0.46 | 124.8            | 1.99              | 0.02          | Not required     |
|         | 2.4GHz WLAN     |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | LTE Band 30     | Back     | 0.976      | 5        | 29                     | -64.4 | -0.46 | 131.4            | 1.99              | 0.02          | Not required     |
|         | 5GHz WLAN       |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



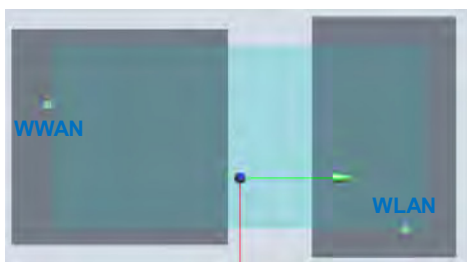
| Case    | Band             | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|------------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |                  |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 70 | LTE Band 41_Main | Back     | 1.117      | 5        | -31.6                  | -58   | -0.75 | 136.4            | 2.13              | 0.02          | Not required     |
|         | 2.4GHz WLAN      |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | LTE Band 41      | Back     | 1.117      | 5        | 26.6                   | -60.2 | 0.09  | 127.4            | 2.13              | 0.02          | Not required     |
|         | 5GHz WLAN        |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



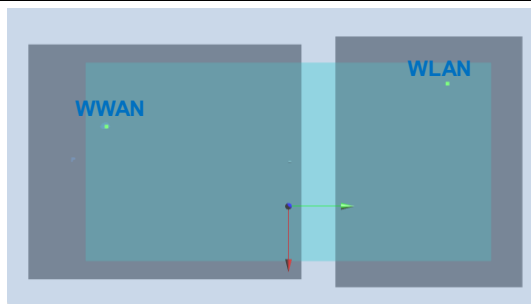
| Case    | Band            | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-----------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |                 |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 71 | LTE Band 41_Aux | Back     | 0          | 5        | 26.6                   | -60.2 | 0.09  | 120.8            | 1.89              | 0.02          | 120.8            |
|         | 2.4GHz WLAN     |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | LTE Band 41     | Back     | 0.882      | 5        | -31.6                  | -58   | -0.75 | 142.0            | 1.90              | 0.02          | Not required     |
|         | 5GHz WLAN       |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



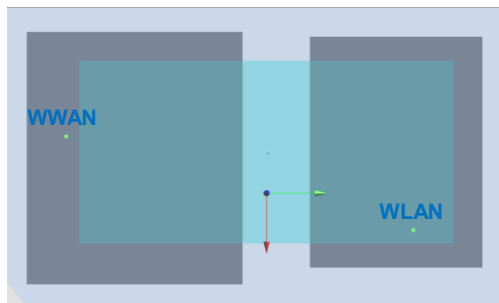
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 72 | LTE Band 66 | Back     | 0.66       | 5        | 1.5                    | -80.6 | -1.2  | 145.1            | 1.67              | 0.01          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | LTE Band 66 | Back     | 0.66       | 5        | 1.5                    | -80.6 | -1.2  | 151.4            | 1.68              | 0.01          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



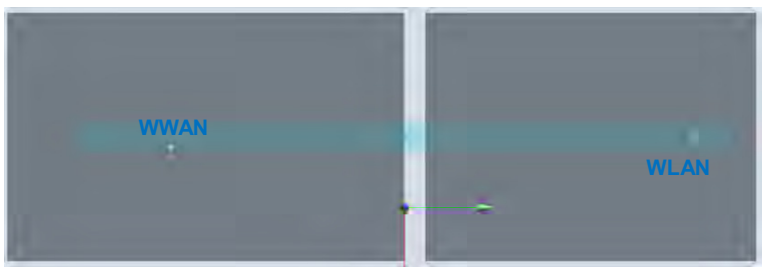
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |      |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y    | Z     |                  |                   |               |                  |
| Case 73 | LTE Band 71 | Front    | 0.779      | 5        | 12.5                   | -82  | -2.17 | 152.0            | 1.64              | 0.01          | Not required     |
|         | 2.4GHz WLAN |          | 0.862      | 5        | -29                    | 64.2 | -1.84 |                  |                   |               |                  |



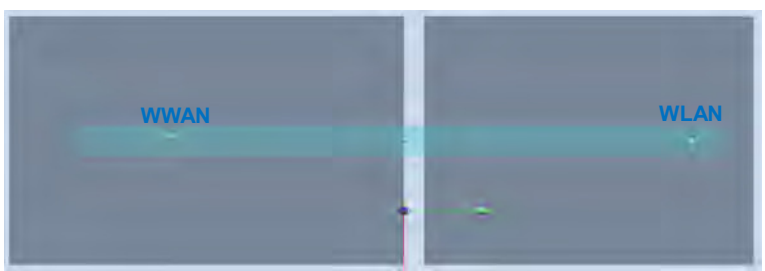
| Case    | Band        | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|-------------|----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|         |             |          |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| Case 74 | LTE Band 71 | Back     | 0.865      | 5        | -14.5                  | -77.3 | -2.27 | 146.6            | 1.87              | 0.02          | Not required     |
|         | 2.4GHz WLAN |          | 1.009      | 5        | 36.4                   | 60.2  | -1.62 |                  |                   |               |                  |
|         | LTE Band 71 | Back     | 0.865      | 5        | -14.5                  | -77.3 | -2.27 | 152.8            | 1.88              | 0.02          | Not required     |
|         | 5GHz WLAN   |          | 1.015      | 5        | 36.2                   | 66.8  | -0.87 |                  |                   |               |                  |



| Case | Band           | Position  | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|------|----------------|-----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|      |                |           |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| 75   | LTE Band 7_Aux | Left Side | 2.722      | 0        | 1.4                    | -60.4 | 0.61  | 120.8            | 4.20              | 0.07          | Not required     |
|      | 2.4GHz WLAN    |           | 1.479      | 0        | 0                      | 60.4  | -1.62 |                  |                   |               |                  |
|      | LTE Band 7_Aux | Left Side | 2.722      | 0        | 1.4                    | -60.4 | 0.61  | 129.0            | 5.59              | 0.10          | Not required     |
|      | 5GHz WLAN      |           | 2.865      | 0        | 0.6                    | 68.6  | -0.83 |                  |                   |               |                  |



| Case | Band            | Position  | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |       |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|------|-----------------|-----------|------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
|      |                 |           |            |          | X                      | Y     | Z     |                  |                   |               |                  |
| 76   | LTE Band 41_Aux | Left Side | 2.728      | 0        | -1.2                   | -60.4 | -0.54 | 120.8            | 4.21              | 0.07          | Not required     |
|      | 2.4GHz WLAN     |           | 1.479      | 0        | 0                      | 60.4  | -1.62 |                  |                   |               |                  |
|      | LTE Band 41_Aux | Left Side | 2.728      | 0        | -1.2                   | -60.4 | -0.54 | 129.0            | 5.59              | 0.10          | Not required     |
|      | 5GHz WLAN       |           | 2.865      | 0        | 0.6                    | 68.6  | -0.83 |                  |                   |               |                  |



## 16. Supplemental tuner tests results

### General Note:

1. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
2. To evaluate all of the tuner states, the 144 tuner states are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. The bands which are dynamically tuned are split into two separate antennas, so each antenna system will have its own test plan to cover the corresponding 144 tuner states.
3. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

### 16.1 Supplemental Head SAR results

| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                           |       |       |       |       |       |       |       |       |
|-----------|------------------------|--------------------|---------|------------|--------------|------------------|---------|------------------------------|------------------------------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State<br>116)        | Default<br>(State<br>14)  | 0     | 19    | 38    | 57    | 76    | 95    | 114   | 133   |
| GSM850    | GPRS (2 Tx slots)      | 824.2              | 128     | N/A        | N/A          | Left Cheek       | 0 mm    | 0.123                        | 0.147                              | 0.1                       | 0.015 | 0.018 | 0.011 | 0.021 | 0.031 | 0.028 | 0.033 | 0.037 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                           |       |       |       |       |       |       |       |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 2)             | Default<br>(State<br>14)  | 1     | 20    | 39    | 58    | 77    | 96    | 115   | 134   |
| GSM1900   | GPRS (3 Tx slots)      | 1909.8             | 810     | N/A        | N/A          | Right Cheek      | 0 mm    | 0.091                        | 0.128                              |                           | 0.122 | 0.111 | 0.109 | 0.082 | 0.103 | 0.081 | 0.071 | 0.058 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                           |       |       |       |       |       |       |       |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 2)             | Default<br>(State<br>123) | 2     | 21    | 40    | 59    | 78    | 97    | 116   | 135   |
| WCDMA B2  | RMC12.2K               | 1907.6             | 9538    | N/A        | N/A          | Right Cheek      | 0 mm    | 0.233                        | 0.341                              |                           | 0.339 | 0.195 | 0.239 | 0.139 | 0.231 | 0.124 | 0.169 | 0.085 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                           |       |       |       |       |       |       |       |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 27)            | Default<br>(State<br>81)  | 3     | 22    | 41    | 60    | 79    | 98    | 117   | 136   |
| WCDMA B4  | RMC12.2K               | 1712.4             | 1312    | N/A        | N/A          | Right Cheek      | 0 mm    | 0.251                        | 0.312                              |                           | 0.219 | 0.279 | 0.275 | 0.294 | 0.299 | 0.303 | 0.297 | 0.281 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                           |       |       |       |       |       |       |       |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State<br>119)        | Default<br>(State<br>33)  | 4     | 23    | 42    | 61    | 80    | 99    | 118   | 137   |
| WCDMA B5  | RMC12.2K               | 826.4              | 4132    | N/A        | N/A          | Left Cheek       | 0 mm    | 0.298                        | 0.342                              |                           | 0.026 | 0.033 | 0.023 | 0.045 | 0.151 | 0.279 | 0.322 | 0.319 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                           |       |       |       |       |       |       |       |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State<br>116)        | Default<br>(State<br>81)  | 5     | 24    | 43    | 62    | 81    | 100   | 119   | 138   |
| CDMA BC0  | 1xRTT RC3 SO55         | 824.7              | 1013    | N/A        | N/A          | Right Cheek      | 0 mm    | 0.229                        | 0.253                              |                           | 0.017 | 0.023 | 0.037 | 0.046 | 0.222 | 0.201 | 0.223 | 0.126 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                           |       |       |       |       |       |       |       |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 1)             | Default<br>(State<br>14)  | 6     | 25    | 44    | 63    | 82    | 101   | 120   | 139   |
| CDMA BC1  | 1xRTT RC3 SO55         | 1908.75            | 1175    | N/A        | N/A          | Right Cheek      | 0 mm    | 0.248                        | 0.238                              | 0.15                      | 0.235 | 0.23  | 0.228 | 0.209 | 0.226 | 0.214 | 0.207 | 0.221 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                           |       |       |       |       |       |       |       |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State<br>118)        | Default<br>(State<br>14)  | 7     | 26    | 45    | 64    | 83    | 102   | 121   | 140   |
| CDMA BC10 | 1xRTT RC3 SO55         | 820.5              | 580     | N/A        | N/A          | Left Cheek       | 0 mm    | 0.276                        | 0.311                              | 0.03                      | 0.158 | 0.176 | 0.301 | 0.295 | 0.303 | 0.196 | 0.209 | 0.182 |

| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                       |       |        |       |       |       |       |       |       |
|---------|------------------------|--------------------|---------|------------|--------------|------------------|---------|------------------------------|------------------------------------|-----------------------|-------|--------|-------|-------|-------|-------|-------|-------|
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 38)            | Default<br>(State 33) | 8     | 27     | 46    | 65    | 84    | 103   | 122   | 141   |
| LTE B2  | QPSK                   | 1860               | 18700   | 1          | 0            | Right Cheek      | 0 mm    | 0.195                        | 0.269                              |                       | 0.224 | 0.177  | 0.168 | 0.137 | 0.167 | 0.141 | 0.131 | 0.113 |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                       |       |        |       |       |       |       |       |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 79)            | Default<br>(State 81) | 9     | 28     | 47    | 66    | 85    | 104   | 123   | 142   |
| LTE B4  | QPSK                   | 1732.5             | 20175   | 1          | 0            | Right Cheek      | 0 mm    | 0.182                        | 0.251                              |                       | 0.246 | 0.249  | 0.244 | 0.223 | 0.225 | 0.229 | 0.205 | 0.218 |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                       |       |        |       |       |       |       |       |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 117)           | Default<br>(State 14) | 10    | 29     | 48    | 67    | 86    | 105   | 124   | 143   |
| LTE B5  | QPSK                   | 836.5              | 20525   | 1          | 0            | Left Cheek       | 0 mm    | 0.28                         | 0.324                              |                       | 0.224 | 0.184  | 0.155 | 0.135 | 0.144 | 0.121 | 0.116 | 0.069 |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                       |       |        |       |       |       |       |       |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 34)            | Default<br>(State 14) | 11    | 30     | 49    | 68    | 87    | 106   | 125   |       |
| LTE B12 | QPSK                   | 707.5              | 23095   | 1          | 49           | Left Cheek       | 0 mm    | 0.239                        | 0.246                              |                       | 0.122 | 0.185  | 0.123 | 0.144 | 0.197 | 0.226 | 0.051 |       |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                       |       |        |       |       |       |       |       |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 47)            | Default<br>(State 33) | 12    | 31     | 50    | 69    | 88    | 107   | 126   |       |
| LTE B13 | QPSK                   | 782                | 23230   | 1          | 0            | Left Cheek       | 0 mm    | 0.178                        | 0.153                              |                       | 0.107 | 0.099  | 0.118 | 0.095 | 0.086 | 0.009 | 0.001 |       |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                       |       |        |       |       |       |       |       |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State x)             | Default<br>(State 81) | 13    | 32     | 51    | 70    | 89    | 108   | 127   |       |
| LTE B14 | QPSK                   | 793                | 23330   | 1          | 0            | Left Cheek       | 0 mm    | 0.268                        | 0.259                              |                       | 0.135 | 0.116  | 0.122 | 0.012 | 0.043 | 0     | 0     |       |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                       |       |        |       |       |       |       |       |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 34)            | Default<br>(State 14) | 14    | 33     | 52    | 71    | 90    | 109   | 128   |       |
| LTE B17 | QPSK                   | 710                | 23790   | 1          | 0            | Left Cheek       | 0 mm    | 0.25                         | 0.258                              | 0.01                  | 0.195 | 0.242  | 0.183 | 0.031 | 0.001 | 0.001 | 0.002 |       |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                       |       |        |       |       |       |       |       |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State x)             | Default<br>(State 14) | 15    | 34     | 53    | 72    | 91    | 110   | 129   |       |
| LTE B25 | QPSK                   | 1860               | 26140   | 1          | 0            | Right Cheek      | 0 mm    | 0.245                        | 0.324                              |                       | 0.221 | 0.209  | 0.189 | 0.168 | 0.225 | 0.321 | 0.28  |       |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                       |       |        |       |       |       |       |       |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 117)           | Default<br>(State 33) | 16    | 35     | 54    | 73    | 92    | 111   | 130   |       |
| LTE B26 | QPSK                   | 831.5              | 26865   | 1          | 0            | Left Cheek       | 0 mm    | 0.269                        | 0.287                              |                       | 0.08  | 0.001  | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |       |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                       |       |        |       |       |       |       |       |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State x)             | Default<br>(State 81) | 17    | 36     | 55    | 74    | 93    | 112   | 131   |       |
| LTE B66 | QPSK                   | 1720               | 132072  | 1          | 0            | Left Cheek       | 0 mm    | 0.11                         | 0.265                              |                       | 0.245 | 0.0656 | 0.118 | 0.184 | 0.245 | 0.247 | 0.251 |       |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |                       |       |        |       |       |       |       |       |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 16)            | Default<br>(State 14) | 18    | 37     | 56    | 75    | 94    | 113   | 132   |       |
| LTE B71 | QPSK                   | 683                | 133322  | 1          | 0            | Left Cheek       | 0 mm    | 0.167                        | 0.172                              |                       | 0.001 | 0.001  | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |       |

## 16.2 Supplemental Body SAR results

| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|-----------|------------------------|--------------------|---------|------------|--------------|------------------|---------|------------------------------|------------------------------------|-------|--------|-------|--------|-------|--------|--------|-------|
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 117)           | 0     | 19     | 38    | 57     | 76    | 95     | 114    | 133   |
| GSM850    | GPRS 2TX               | 824.2              | 128     | N/A        | N/A          | Back             | 5mm     | 0.46                         | 0.802                              | 0.001 | 0.0028 | 0.004 | 0.0068 | 0.027 | 0.0324 | 0.0367 | 0.069 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 2)             | 1     | 20     | 39    | 58     | 77    | 96     | 115    | 134   |
| GSM1900   | GPRS (3 Tx slots)      | 1909.8             | 810     | N/A        | N/A          | Bottom Side      | 5mm     | 0.732                        | 1.33                               | 1.234 | 1.25   | 1.305 | 1.217  | 1.199 | 1.112  | 0.998  | 0.911 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 2)             | 2     | 21     | 40    | 59     | 78    | 97     | 116    | 135   |
| WCDMA B2  | RMC12.2K               | 1852.4             | 9262    | N/A        | N/A          | Bottom Side      | 5mm     | 0.786                        | 1.22                               | 1.18  | 1.159  | 1.005 | 0.884  | 0.981 | 0.795  | 0.774  | 0.582 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 7)             | 3     | 22     | 41    | 60     | 79    | 98     | 117    | 136   |
| WCDMA B4  | RMC12.2K               | 1752.6             | 1513    | N/A        | N/A          | Bottom Side      | 5mm     | 0.94                         | 1.53                               | 1.381 | 1.493  | 1.362 | 1.295  | 1.416 | 1.311  | 1.194  | 1.018 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 117)           | 4     | 23     | 42    | 61     | 80    | 99     | 118    | 137   |
| WCDMA B5  | RMC12.2K               | 846.6              | 4233    | N/A        | N/A          | Back             | 5mm     | 0.658                        | 1.093                              | 0.161 | 0.177  | 0.213 | 0.376  | 0.947 | 0.909  | 0.972  | 0.851 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 44)            | 5     | 24     | 43    | 62     | 81    | 100    | 119    | 138   |
| CDMA BC0  | RTAP 155.6K            | 848.31             | 777     | N/A        | N/A          | Back             | 5mm     | 0.831                        | 1.23                               | 0.394 | 0.389  | 0.947 | 0.812  | 0.926 | 0.744  | 0.706  | 0.341 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 126)           | 6     | 25     | 44    | 63     | 82    | 101    | 120    | 139   |
| CDMA BC1  | RTAP 155.6K            | 1908.75            | 1175    | N/A        | N/A          | Bottom Side      | 5mm     | 0.82                         | 1.314                              | 1.251 | 1.171  | 1.159 | 0.882  | 1.165 | 0.938  | 0.903  | 0.689 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 118)           | 7     | 26     | 45    | 64     | 83    | 102    | 121    | 140   |
| CDMA BC10 | RTAP 155.6K            | 820.5              | 580     | N/A        | N/A          | Back             | 5mm     | 0.793                        | 1.305                              | 0.907 | 0.835  | 1.3   | 1.113  | 1.004 | 0.51   | 0.507  | 0.412 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 19)            | 8     | 27     | 46    | 65     | 84    | 103    | 122    | 141   |
| LTE B2    | QPSK                   | 1860               | 18700   | 1          | 0            | Bottom Side      | 5mm     | 0.94                         | 1.447                              | 1.395 | 1.128  | 1.104 | 0.903  | 1.133 | 0.918  | 0.899  | 0.729 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 90)            | 9     | 28     | 47    | 66     | 85    | 104    | 123    | 142   |
| LTE B4    | QPSK                   | 1732.5             | 20175   | 100        | 0            | Bottom Side      | 5mm     | 0.565                        | 1.13                               | 0.96  | 0.88   | 1     | 0.985  | 1.02  | 1.06   | 1.023  | 0.905 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State x)             | 10    | 29     | 48    | 67     | 86    | 105    | 124    | 143   |
| LTE B5    | QPSK                   | 836.5              | 20525   | 1          | 0            | Back             | 5mm     | 0.685                        | 1.006                              | 0.754 | 0.605  | 0.461 | 0.387  | 0.409 | 0.319  | 0.299  | 0.056 |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 33)            | 11    | 30     | 49    | 68     | 87    | 106    | 125    |       |
| LTE B12   | QPSK                   | 707.5              | 23095   | 1          | 49           | Back             | 5mm     | 0.872                        | 1.438                              | 0.769 | 1.216  | 0.798 | 0.975  | 1.31  | 1.428  | 0.097  |       |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 47)            | 12    | 31     | 50    | 69     | 88    | 107    | 126    |       |
| LTE B13   | QPSK                   | 782                | 23230   | 1          | 0            | Back             | 5mm     | 0.846                        | 1.415                              | 0.918 | 0.821  | 0.926 | 0.736  | 0.71  | 0.105  | 0.0002 |       |
| Mode      | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |        |        |       |
|           |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 47)            | 13    | 32     | 51    | 70     | 89    | 108    | 127    |       |
| LTE B14   | QPSK                   | 793                | 23330   | 1          | 0            | Back             | 5mm     | 0.7                          | 1.213                              | 0.627 | 0.535  | 0.539 | 0.433  | 0.096 | 0.0006 | 0.001  |       |

| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |       |        |        |       |
|---------|------------------------|--------------------|---------|------------|--------------|------------------|---------|------------------------------|------------------------------------|-------|--------|-------|-------|--------|--------|-------|
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 33)            | 14    | 33     | 52    | 71    | 90     | 109    | 128   |
| LTE B17 | QPSK                   | 710                | 23790   | 1          | 0            | Back             | 5mm     | 0.728                        | 1.313                              | 1.133 | 1.302  | 1.119 | 0.117 | 0.0007 | 0.0002 | 0.002 |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |       |        |        |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 18)            | 15    | 34     | 53    | 72    | 91     | 110    | 129   |
| LTE B25 | QPSK                   | 1905               | 26590   | 50         | 0            | Bottom Side      | 5mm     | 0.934                        | 1.32                               | 1.18  | 1.072  | 1.03  | 1.31  | 1.318  | 1.314  | 1.281 |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |       |        |        |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 45)            | 16    | 35     | 54    | 73    | 92     | 111    | 130   |
| LTE B26 | QPSK                   | 831.5              | 26865   | 36         | 0            | Back             | 5mm     | 0.646                        | 1.041                              | 0.375 | 0.101  | 0.001 | 0.005 | 0.009  | 0.014  | 0.019 |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |       |        |        |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 90)            | 17    | 36     | 55    | 74    | 93     | 112    | 131   |
| LTE B66 | QPSK                   | 1770               | 132572  | 100        | 0            | Bottom Side      | 5mm     | 0.819                        | 1.26                               | 1.22  | 1.045  | 1.14  | 1.16  | 1.06   | 1.01   | 1.182 |
| Mode    | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |       |        |        |       |
|         |                        |                    |         |            |              |                  |         |                              | Auto-Tune<br>(State 34)            | 18    | 37     | 56    | 75    | 94     | 113    | 132   |
| LTE B71 | QPSK                   | 683                | 133322  | 1          | 0            | Back             | 5mm     | 0.716                        | 1.152                              | 0.002 | 0.0003 | 0.004 | 0.006 | 0.016  | 0.007  | 0.016 |

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## **17. Uncertainty Assessment**

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be  $\leq 30\%$ , for a confidence interval of  $k = 2$ . If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

## **18. References**

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [9] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [10] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [11] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [12] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [13] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.