



# FCC SAR Test Report

## FCC ID: 2AUCY-V2606

**Project No.** : 2604C042  
**Equipment** : Mobile Phone  
**Brand Name** : vivo  
**Model Name** : V2606  
**Date of Receipt** : Apr. 13, 2026  
**Date of Test** : Apr. 13, 2026 ~ Apr. 26, 2026  
**Issued Date** : Apr. 27, 2026  
**Test Sample** : Engineering Sample No.: DG920260413147  
**Standard(s)** : Please refer to page 2.  
**Applicant** : vivo Mobile Communication Co., Ltd.  
**Address** : No.1, vivo Road, Chang'an, Dongguan, Guangdong, China  
**Manufacturer** : vivo Mobile Communication Co., Ltd.  
**Address** : No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan).

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|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard(s)</b> | <b>:</b> <b>IEEE Std C95.1:2019</b> IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 kHz to 300 GHz<br><br><b>IEEE Std 1528™-2013</b> IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques<br><br><b>KDB447498 D01</b> General RF Exposure Guidance v06<br><b>KDB865664 D01</b> SAR measurement 100 MHz to 6 GHz v01r04 |
| <b>Test method</b> | <b>:</b> <b>KDB865664 D02</b> SAR Reporting v01r02<br><b>KDB941225 D01</b> 3G SAR Procedures v03r01<br><b>KDB941225 D05</b> SAR for LTE Devices v02r05<br><b>KDB941225 D06</b> Hotspot Mode V02r01<br><b>KDB248227 D01</b> 802.11 Wi-Fi SAR v02r02<br><b>KDB648474 D04</b> Handset SAR v01r03<br><b>KDB690783 D01</b> SAR Listings on Grants v01r03                                                                                                                                                                    |

**Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL's** reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**. The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

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**BTL's** laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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### REVISION HISTORY

| Report No.             | Version | Description      | Issued Date   | Note  |
|------------------------|---------|------------------|---------------|-------|
| BTL-FCC SAR-1-2604C042 | R00     | Original Report. | Apr. 27, 2026 | Valid |

## 1. GENERAL INFORMATION

### 1.1 STATEMENT OF COMPLIANCE

| Mode      | Highest Reported Head SAR-1g (W/kg) | Highest Reported Body-worn SAR-1g (W/kg) | Highest Reported Hotspot SAR-1g (W/kg) |
|-----------|-------------------------------------|------------------------------------------|----------------------------------------|
| GSM850    | 0.574                               | 0.317                                    | 0.469                                  |
| GSM1900   | 0.447                               | 0.395                                    | 0.444                                  |
| UMTS B2   | 0.907                               | 0.446                                    | 0.793                                  |
| UMTS B4   | 0.879                               | 0.643                                    | 0.661                                  |
| UMTS B5   | 0.659                               | 0.202                                    | 0.391                                  |
| LTE B2    | 0.702                               | 0.369                                    | 0.781                                  |
| LTE B4    | 0.676                               | 0.449                                    | 0.709                                  |
| LTE B5    | 0.582                               | 0.235                                    | 0.395                                  |
| LTE B7    | 0.906                               | 0.424                                    | 0.823                                  |
| LTE B13   | 0.483                               | 0.149                                    | 0.238                                  |
| LTE B26   | 0.523                               | 0.189                                    | 0.462                                  |
| LTE B38   | 0.882                               | 0.335                                    | 0.491                                  |
| LTE B41   | 0.906                               | 0.328                                    | 0.464                                  |
| LTE B66   | 0.634                               | 0.342                                    | 0.706                                  |
| WLAN 2.4G | 1.021                               | 0.257                                    | 0.565                                  |
| WLAN 5.2G | 0.983                               | 0.353                                    | 0.522                                  |
| WLAN 5.3G | 1.035                               | 0.397                                    | 0.485                                  |
| WLAN 5.6G | 1.058                               | 0.774                                    | 0.794                                  |
| WLAN 5.8G | 0.978                               | 0.715                                    | 0.670                                  |
| Bluetooth | 0.279                               | 0.039                                    | 0.086                                  |

Note:

1) The device is in compliance with Specific Absorption Rate (SAR) for general population uncontrolled exposure limits according to the FCC rule §2.1093, the ANSI/IEEE C95.1, the NCRP Report Number 86 for uncontrolled environment, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528™.

### 1.2 LABORATORY ENVIRONMENT

|                                                                                                 |                          |
|-------------------------------------------------------------------------------------------------|--------------------------|
| Temperature                                                                                     | Min. = 18°C, Max. = 25°C |
| Relative humidity                                                                               | Min. = 30%, Max. = 70%   |
| Ground system resistance                                                                        | < 0.5Ω                   |
| Ambient noise is checked and found very low and in compliance with requirement of standards.    |                          |
| Reflection of surrounding objects is minimized and in compliance with requirement of standards. |                          |

### 1.3 GENERAL DESCRIPTION OF EUT

|                               |                                                                                                        |             |
|-------------------------------|--------------------------------------------------------------------------------------------------------|-------------|
| Equipment                     | Mobile Phone                                                                                           |             |
| Brand Name                    | vivo                                                                                                   |             |
| Test Model                    | V2606                                                                                                  |             |
| Model Name                    | V2606                                                                                                  |             |
| Model Difference(s)           | N/A                                                                                                    |             |
| IMEI Code                     | 865721082004982<br>865721082004990                                                                     |             |
| S/N                           | 10HG3ZF5X00000D                                                                                        |             |
| Hardware Version              | MP_0.1                                                                                                 |             |
| Software Version              | PD2577BF_EX_A_16.0.3.20.W30                                                                            |             |
| Modulation                    | GSM(GMSK/8PSK), UMTS(QPSK/16QAM), LTE(QPSK/16QAM/64QAM),<br>WiFi(DSSS/OFDM), BT(GFSK/π/4-DQPSK/8-DPSK) |             |
| Operation Frequency Range(s)  | Band                                                                                                   | TX (MHz)    |
|                               | GSM850                                                                                                 | 824~849     |
|                               | GSM1900                                                                                                | 1850~1910   |
|                               | UMTS B2                                                                                                | 1850~1910   |
|                               | UMTS B4                                                                                                | 1710~1755   |
|                               | UMTS B5                                                                                                | 824~849     |
|                               | LTE B2                                                                                                 | 1850~1910   |
|                               | LTE B4                                                                                                 | 1710~1755   |
|                               | LTE B5                                                                                                 | 824~849     |
|                               | LTE B7                                                                                                 | 2500~2570   |
|                               | LTE B13                                                                                                | 777~787     |
|                               | LTE B26                                                                                                | 814~849     |
|                               | LTE B38                                                                                                | 2570~2620   |
|                               | LTE B41                                                                                                | 2535~2655   |
|                               | LTE B66                                                                                                | 1710~1780   |
|                               | Bluetooth                                                                                              | 2400~2483.5 |
|                               | WLAN 2.4G                                                                                              | 2400~2483.5 |
|                               | WLAN 5.2G                                                                                              | 5150~5250   |
|                               | WLAN 5.3G                                                                                              | 5250~5350   |
|                               | WLAN 5.6G                                                                                              | 5470~5725   |
|                               | WLAN 5.8G                                                                                              | 5725~5850   |
| GPRS/EDGE Multislot Class(12) | Max Number of Timeslots in Uplink:                                                                     | 4           |
|                               | Max Number of Timeslots in Downlink:                                                                   | 4           |
|                               | Max Total Timeslot:                                                                                    | 5           |
| Power Class                   | 4, tested with power level 5(GSM850)                                                                   |             |
|                               | 1, tested with power level 0(GSM1900)                                                                  |             |
|                               | 3, tested with power control "all up bits" (UMTS B2/4/5)                                               |             |
|                               | 3, tested with power control "all Max"(LTE B2/4/5/7/13/26/38/41/66)                                    |             |

|                                 |                                              |       |       |             |             |
|---------------------------------|----------------------------------------------|-------|-------|-------------|-------------|
| Test Channels<br>(low-mid-high) | 128-190-251 (GSM850)                         |       |       |             |             |
|                                 | 512-661-810 (GSM1900)                        |       |       |             |             |
|                                 | 9262-9400-9538 (UMTS B2)                     |       |       |             |             |
|                                 | 1312-1413-1513 (UMTS B4)                     |       |       |             |             |
|                                 | 4132-4182-4233 (UMTS B5)                     |       |       |             |             |
|                                 | 18700-18900-19100 (LTE B2 BW=20MHz)          |       |       |             |             |
|                                 | 20050-20175-20300 (LTE B4 BW=20MHz)          |       |       |             |             |
|                                 | 20450-20525-20600 (LTE B5 BW=10MHz)          |       |       |             |             |
|                                 | 20850-21100-21350 (LTE B7 BW=20MHz)          |       |       |             |             |
|                                 | 23230 (LTE B13 BW=10MHz)                     |       |       |             |             |
|                                 | 26765-26865-26965 (LTE B26 BW=15MHz)         |       |       |             |             |
|                                 | 37850-38000-38150 (LTE B38 BW=20MHz)         |       |       |             |             |
|                                 | 40140-40640-41140 (LTE B41 BW=20MHz)         |       |       |             |             |
|                                 | 132072-132322-132572 (LTE B66 BW=20MHz)      |       |       |             |             |
|                                 | 0-39-78 (BT)                                 |       |       |             |             |
|                                 | 0-19-39 (BLE)                                |       |       |             |             |
|                                 | 1-6-11 (2.4G WiFi 802.11b/g/n HT20/ac VHT20) |       |       |             |             |
|                                 | 3-6-9 (2.4G WiFi 802.11n HT40/ac VHT40)      |       |       |             |             |
|                                 | 5G WiFi                                      | 5.2G  | 5.3G  | 5.6G        | 5.8G        |
|                                 | 802.11a/n HT20/<br>ac VHT20                  | 36-48 | 52-64 | 100-120-140 | 149-157-165 |
|                                 | 802.11n HT40/<br>ac VHT40                    | 38-46 | 54-62 | 102-118-134 | 151-159     |
|                                 | 802.11ac VHT80                               | 42    | 58    | 106-122     | 155         |

| Antenna Information | Manufacturer                           | Antenna Type                 | Ant. No. | Gain (dBi) | Band      |
|---------------------|----------------------------------------|------------------------------|----------|------------|-----------|
|                     | Shenzhen Sunway Communication Co.,Ltd. | PIFA                         | Ant 13#  | -5.05      | GSM850    |
|                     |                                        |                              |          | 2.27       | GSM1900   |
|                     |                                        |                              |          | 2.27       | UMTS B2   |
|                     |                                        |                              |          | 1.33       | UMTS B4   |
|                     |                                        |                              |          | -5.05      | UMTS B5   |
|                     |                                        |                              |          | 2.27       | LTE B2    |
|                     |                                        |                              |          | 1.33       | LTE B4    |
|                     |                                        |                              |          | -5.05      | LTE B5    |
|                     |                                        |                              |          | 2.69       | LTE B7    |
|                     |                                        |                              |          | -8.27      | LTE B13   |
|                     |                                        |                              |          | -5.05      | LTE B26   |
|                     |                                        |                              |          | 2.67       | LTE B38   |
|                     |                                        |                              |          | 2.67       | LTE B41   |
|                     |                                        |                              |          | 2.42       | LTE B66   |
|                     |                                        |                              | Ant 31#  | -4.95      | GSM850    |
|                     |                                        |                              |          | -1.48      | GSM1900   |
|                     |                                        |                              |          | -1.48      | UMTS B2   |
|                     |                                        |                              |          | -2.78      | UMTS B4   |
|                     |                                        |                              |          | -4.24      | UMTS B5   |
|                     |                                        |                              |          | -1.48      | LTE B2    |
|                     |                                        |                              |          | -2.78      | LTE B4    |
|                     |                                        |                              |          | -4.24      | LTE B5    |
|                     |                                        |                              |          | -0.28      | LTE B7    |
|                     |                                        |                              |          | -5.81      | LTE B13   |
|                     |                                        |                              |          | -4.95      | LTE B26   |
|                     |                                        |                              |          | -0.80      | LTE B38   |
|                     |                                        |                              |          | 0.28       | LTE B41   |
|                     |                                        |                              |          | -2.54      | LTE B66   |
|                     |                                        |                              | Ant 22#  | 0.84       | Bluetooth |
|                     |                                        |                              |          | 0.84       | WLAN 2.4G |
|                     |                                        |                              |          | 0.83       | WLAN 5G   |
| Other Information   |                                        |                              |          |            |           |
| Battery             | Trademark                              | vivo                         |          |            |           |
|                     | Model Name                             | BA60                         |          |            |           |
|                     | Power Rating                           | DC 3.85V, 5050mAh, 19.45Wh   |          |            |           |
|                     | Manufacturer                           | Sunwoda Electronic Co., Ltd. |          |            |           |
| USB-C Cable         | Trademark                              | vivo                         |          |            |           |
|                     | Model Name                             | BK-C-50-B                    |          |            |           |

Note: The antenna gain is provided by the manufacturer.

## 1.4 MAIN TEST INSTRUMENTS

| Item | Equipment                           | Manufacturer     | Model                 | Serial No.         | Cal. Date     | Cal. Interval |
|------|-------------------------------------|------------------|-----------------------|--------------------|---------------|---------------|
| 1    | DASY5 System                        | Speag            | DASY 5                | N/A                | N/A           | N/A           |
| 2    | DASY8 System                        | Speag            | DASY 8                | N/A                | N/A           | N/A           |
| 3    | Data Acquisition Electronics        | Speag            | DAE4                  | 1717               | Jun. 19, 2025 | 1 Year        |
| 4    | Data Acquisition Electronics        | Speag            | DAE4                  | 1390               | Nov. 19, 2025 | 1 Year        |
| 5    | E-field Probe                       | Speag            | EX3DV4                | 7544               | Jun. 19, 2025 | 1 Year        |
| 6    | E-field Probe                       | Speag            | EX3DV4                | 7693               | Nov. 26, 2025 | 1 Year        |
| 7    | System Validation Dipole            | Speag            | D750V3                | 1095               | Sep. 16, 2024 | 3 Years       |
| 8    | System Validation Dipole            | Speag            | D835V2                | 4d160              | Apr. 25, 2024 | 3 Years       |
| 9    | System Validation Dipole            | Speag            | D1750V2               | 1101               | Apr. 25, 2024 | 3 Years       |
| 10   | System Validation Dipole            | Speag            | D1900V2               | 5d179              | Apr. 25, 2024 | 3 Years       |
| 11   | System Validation Dipole            | Speag            | D2300V2               | 1033               | Sep. 13, 2024 | 3 Years       |
| 12   | System Validation Dipole            | Speag            | D2450V2               | 919                | Apr. 22, 2024 | 3 Years       |
| 13   | System Validation Dipole            | Speag            | D2600V2               | 1067               | Apr. 22, 2024 | 3 Years       |
| 14   | System Validation Dipole            | Speag            | D5GHzV2               | 1160               | Apr. 25, 2024 | 3 Years       |
| 15   | Twin Sam Phantom                    | Speag            | Twin Sam Phantom V5.0 | 1469               | N/A           | N/A           |
| 16   | Twin Sam Phantom                    | Speag            | SAM-Twim V8.0         | 2081               | N/A           | N/A           |
| 17   | Wideband Radio Communication Tester | R&S              | CMW500                | 165848             | Dec. 20, 2025 | 1 Year        |
| 18   | Power Amplifier                     | Mini-Circuits    | ZHL-42W+              | QA1333003          | May 29, 2025  | 1 Year        |
| 19   | Power Amplifier                     | Mini-Circuits    | ZVE-8G+               | 520701341          | Dec. 20, 2025 | 1 Year        |
| 20   | DC Source meter                     | Iteck            | IT6154                | 006104126768201001 | May 29, 2025  | 1 Year        |
| 21   | Vector Network Analyzer             | Agilent          | E5071C                | MY46102965         | Dec. 20, 2025 | 1 Year        |
| 22   | Signal Generator                    | Agilent          | N5172B                | MY53050758         | Dec. 20, 2025 | 1 Year        |
| 23   | Smart Power Sensor                  | R&S              | NRP-Z21               | 102209             | Dec. 20, 2025 | 1 Year        |
| 24   | 3.5mm Economy Calibration Kit       | Agilent          | 85052D                | MY43252246         | Nov. 20, 2025 | 1 Year        |
| 25   | Dielectric Assessment Kit           | Speag            | DAK-3.5               | 1226               | Feb. 19, 2026 | 1 Year        |
| 26   | Directional Coupler                 | Talent Microwave | TC-05180-20S          | 210628013          | Dec. 20, 2025 | 1 Year        |
| 27   | Coupler                             | Woken            | ATD10-400M-6G-A2      | 2021008            | May 29, 2025  | 1 Year        |
| 28   | Liquid Thermometer                  | Nscing Es        | YZ6021S               | /                  | Nov. 13, 2025 | 1 Year        |

### Remark:

1. "N/A" denotes no model name, serial No. or calibration specified.

2.

1) Per KDB865664 D01 requirements for dipole calibration, the test laboratory has adopted three-year extended calibration interval. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

a) There is no physical damage on the dipole;

b) System check with specific dipole is within 10% of calibrated value;

c) The most recent return-loss result, measured at least annually, deviates by no more than 20% from the previous measurement;

d) The most recent measurement of the real or imaginary parts of the impedance, measured at least annually is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a short block performed before measuring liquid parameters.

## 2. RF EMISSIONS MEASUREMENT

### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is SAR room at the location of No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

BTL's Registration Number for FCC: 747969.

BTL's Designation Number for FCC: CN1377.

### 2.2 MEASUREMENT UNCERTAINTY

Note: The test uses more than one Probe, and only the worst uncertainty result is presented.

#### Uncertainty Budget for Frequency range of 300 MHz to 3 GHz

| Symbol                                                       | Input quantity $X_i$<br>(source of uncertainty) | Unc.<br>Value | Prob.<br>Dist. | Div.       | $c_i$<br>(1g) | $c_i$<br>(10g) | Std.Unc.<br>(1g)<br>(±%) | Std.Unc.<br>(10g)<br>(±%) |
|--------------------------------------------------------------|-------------------------------------------------|---------------|----------------|------------|---------------|----------------|--------------------------|---------------------------|
| <b>Measurement system errors</b>                             |                                                 |               |                |            |               |                |                          |                           |
| <b>CF</b>                                                    | Probe calibration(±%)                           | 13.0          | N              | 2          | 1             | 1              | 6.5                      | 6.5                       |
| <b>CF<sub>drift</sub></b>                                    | Probe calibration drift(±%)                     | 1.7           | R              | $\sqrt{3}$ | 1             | 1              | 1.0                      | 1.0                       |
| <b>LIN</b>                                                   | Probe linearity and detection limit(±%)         | 4.7           | R              | $\sqrt{3}$ | 1             | 1              | 2.7                      | 2.7                       |
| <b>BBS</b>                                                   | Broadband signal(±%)                            | 3.0           | R              | $\sqrt{3}$ | 1             | 1              | 1.7                      | 1.7                       |
| <b>ISO</b>                                                   | Probe isotropy(±%)                              | 7.6           | R              | $\sqrt{3}$ | 1             | 1              | 4.4                      | 4.4                       |
| <b>DAE</b>                                                   | Other probe and data acquisition errors(±%)     | 0.7           | N              | 1          | 1             | 1              | 0.7                      | 0.7                       |
| <b>AMB</b>                                                   | RF ambient and noise(±%)                        | 1.8           | N              | 1          | 1             | 1              | 1.8                      | 1.8                       |
| <b><math>\Delta_{xyz}</math></b>                             | Probe positioning errors(±mm)                   | 0.006         | N              | 1          | 0.14          | 0.14           | 0.08                     | 0.08                      |
| <b>DAT</b>                                                   | Data processing errors(±%)                      | 1.2           | N              | 1          | 1             | 1              | 1.2                      | 1.2                       |
| <b>Phantom and device (DUT or validation antenna) errors</b> |                                                 |               |                |            |               |                |                          |                           |
| <b>LIQ(<math>\sigma</math>)</b>                              | Conductivity (meas.)(±%)                        | 0.8           | N              | 1          | 0.78          | 0.71           | 0.7                      | 0.6                       |
| <b>LIQ(<math>T_c</math>)</b>                                 | Conductivity (temp.)(±%)                        | 4.16          | R              | $\sqrt{3}$ | 0.78          | 0.71           | 1.9                      | 1.7                       |
| <b>EPS</b>                                                   | Phantom Permittivity(±%)                        | 14            | R              | $\sqrt{3}$ | 0             | 0              | 0.0                      | 0.0                       |
| <b>DIS</b>                                                   | Distance DUT - TSL(±%)                          | 2             | N              | 1          | 2             | 2              | 4.0                      | 4.0                       |
| <b>D<sub>xyz</sub></b>                                       | Device Positioning(±%)                          | 0.1           | N              | 1          | 1             | 1              | 0.1                      | 0.1                       |
| <b>H</b>                                                     | Device Holder(±%)                               | 2.1           | N              | 1          | 1             | 1              | 2.1                      | 2.1                       |
| <b>MOD</b>                                                   | DUT Modulationm(±%)                             | 2.4           | R              | $\sqrt{3}$ | 1             | 1              | 1.4                      | 1.4                       |
| <b>TAS</b>                                                   | Time-average SAR(±%)                            | 1.7           | R              | $\sqrt{3}$ | 1             | 1              | 1.0                      | 1.0                       |
| <b>RF<sub>drift</sub></b>                                    | DUT drift(±%)                                   | 1.3           | N              | 1          | 1             | 1              | 1.3                      | 1.3                       |
| <b>VAL</b>                                                   | Val Antenna Unc.(±%)                            | 0             | N              | 1          | 1             | 1              | 0.0                      | 0.0                       |
| <b>P<sub>in</sub></b>                                        | Unc. Input Power(±%)                            | 0             | N              | 1          | 1             | 1              | 0.0                      | 0.0                       |
| <b>Corrections to the SAR result</b>                         |                                                 |               |                |            |               |                |                          |                           |
| <b>C(<math>\epsilon'</math>,<math>\sigma</math>)</b>         | Deviation to Target(±%)                         | 1.9           | N              | 1          | 1             | 0.84           | 1.9                      | 1.6                       |
| <b>C(R)</b>                                                  | SAR scaling(±%)                                 | 0             | R              | $\sqrt{3}$ | 1             | 1              | 0.0                      | 0.0                       |
| <b>u(<math>\Delta</math>SAR)</b>                             | Combined uncertainty                            |               |                |            |               |                | 10.5                     | 10.4                      |
|                                                              | Coverage Factor for 95%                         |               |                |            |               |                | k=2                      | k=2                       |
| <b>U</b>                                                     | Expanded uncertainty                            |               |                |            |               | U =            | 21.0                     | 20.9                      |

a Other probability distributions and divisors may be used if they better represent available knowledge of the quantities concerned.

**Uncertainty Budget for Frequency range of 3 GHz to 6 GHz**

| Symbol                                                                                                                               | Input quantity $X_i$<br>(source of uncertainty) | Unc.<br>Value | Prob.<br>Dist. | Div.       | ci<br>(1g) | ci<br>(10g) | Std.Unc.<br>(1g)<br>(±%) | Std.Unc.<br>(10g)<br>(±%) |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------|----------------|------------|------------|-------------|--------------------------|---------------------------|
| <b>Measurement system errors</b>                                                                                                     |                                                 |               |                |            |            |             |                          |                           |
| <b>CF</b>                                                                                                                            | Probe calibration(±%)                           | 14.0          | N              | 2          | 1          | 1           | 7.0                      | 7.0                       |
| <b>CF<sub>drift</sub></b>                                                                                                            | Probe calibration drift(±%)                     | 1.7           | R              | $\sqrt{3}$ | 1          | 1           | 1.0                      | 1.0                       |
| <b>LIN</b>                                                                                                                           | Probe linearity and detection limit(±%)         | 4.7           | R              | $\sqrt{3}$ | 1          | 1           | 2.7                      | 2.7                       |
| <b>BBS</b>                                                                                                                           | Broadband signal(±%)                            | 2.6           | R              | $\sqrt{3}$ | 1          | 1           | 1.5                      | 1.5                       |
| <b>ISO</b>                                                                                                                           | Probe isotropy(±%)                              | 7.6           | R              | $\sqrt{3}$ | 1          | 1           | 4.4                      | 4.4                       |
| <b>DAE</b>                                                                                                                           | Other probe and data acquisition errors(±%)     | 1.2           | N              | 1          | 1          | 1           | 1.2                      | 1.2                       |
| <b>AMB</b>                                                                                                                           | RF ambient and noise(±%)                        | 1.8           | N              | 1          | 1          | 1           | 1.8                      | 1.8                       |
| <b><math>\Delta_{xyz}</math></b>                                                                                                     | Probe positioning errors(±mm)                   | 0.005         | N              | 1          | 0.29       | 0.29        | 0.15                     | 0.15                      |
| <b>DAT</b>                                                                                                                           | Data processing errors(±%)                      | 2.3           | N              | 1          | 1          | 1           | 2.3                      | 2.3                       |
| <b>Phantom and device (DUT or validation antenna) errors</b>                                                                         |                                                 |               |                |            |            |             |                          |                           |
| <b>LIQ(<math>\sigma</math>)</b>                                                                                                      | Conductivity (meas.)(±%)                        | 0.7           | N              | 1          | 0.78       | 0.71        | 0.6                      | 0.5                       |
| <b>LIQ(<math>T_c</math>)</b>                                                                                                         | Conductivity (temp.)(±%)                        | 2.45          | R              | $\sqrt{3}$ | 0.78       | 0.71        | 1.1                      | 1.0                       |
| <b>EPS</b>                                                                                                                           | Phantom Permittivity(±%)                        | 14            | R              | $\sqrt{3}$ | 0.25       | 0.25        | 2.0                      | 2.0                       |
| <b>DIS</b>                                                                                                                           | Distance DUT - TSL(±%)                          | 2             | N              | 1          | 2          | 2           | 4.0                      | 4.0                       |
| <b><math>D_{xyz}</math></b>                                                                                                          | Device Positioning(±%)                          | 0.5           | N              | 1          | 1          | 1           | 0.5                      | 0.5                       |
| <b>H</b>                                                                                                                             | Device Holder(±%)                               | 1.9           | N              | 1          | 1          | 1           | 1.9                      | 1.9                       |
| <b>MOD</b>                                                                                                                           | DUT Modulationm(±%)                             | 2.4           | R              | $\sqrt{3}$ | 1          | 1           | 1.4                      | 1.4                       |
| <b>TAS</b>                                                                                                                           | Time-average SAR(±%)                            | 1.7           | R              | $\sqrt{3}$ | 1          | 1           | 1.0                      | 1.0                       |
| <b>RF<sub>drift</sub></b>                                                                                                            | DUT drift(±%)                                   | 1.1           | N              | 1          | 1          | 1           | 1.1                      | 1.1                       |
| <b>VAL</b>                                                                                                                           | Val Antenna Unc.(±%)                            | 0             | N              | 1          | 1          | 1           | 0.0                      | 0.0                       |
| <b><math>P_{in}</math></b>                                                                                                           | Unc. Input Power(±%)                            | 0             | N              | 1          | 1          | 1           | 0.0                      | 0.0                       |
| <b>Corrections to the SAR result</b>                                                                                                 |                                                 |               |                |            |            |             |                          |                           |
| <b><math>C(\epsilon', \sigma)</math></b>                                                                                             | Deviation to Target(±%)                         | 1.9           | N              | 1          | 1          | 0.84        | 1.9                      | 1.6                       |
| <b><math>C(R)</math></b>                                                                                                             | SAR scaling(±%)                                 | 0             | R              | $\sqrt{3}$ | 1          | 1           | 0.0                      | 0.0                       |
| <b><math>u(\Delta SAR)</math></b>                                                                                                    | Combined uncertainty                            |               |                |            |            |             | 11.0                     | 11.0                      |
|                                                                                                                                      | Coverage Factor for 95%                         |               |                |            |            |             | k=2                      | k=2                       |
| <b>U</b>                                                                                                                             | Expanded uncertainty                            |               |                |            |            | U =         | 22.1                     | 22.0                      |
| a Other probability distributions and divisors may be used if they better represent available knowledge of the quantities concerned. |                                                 |               |                |            |            |             |                          |                           |

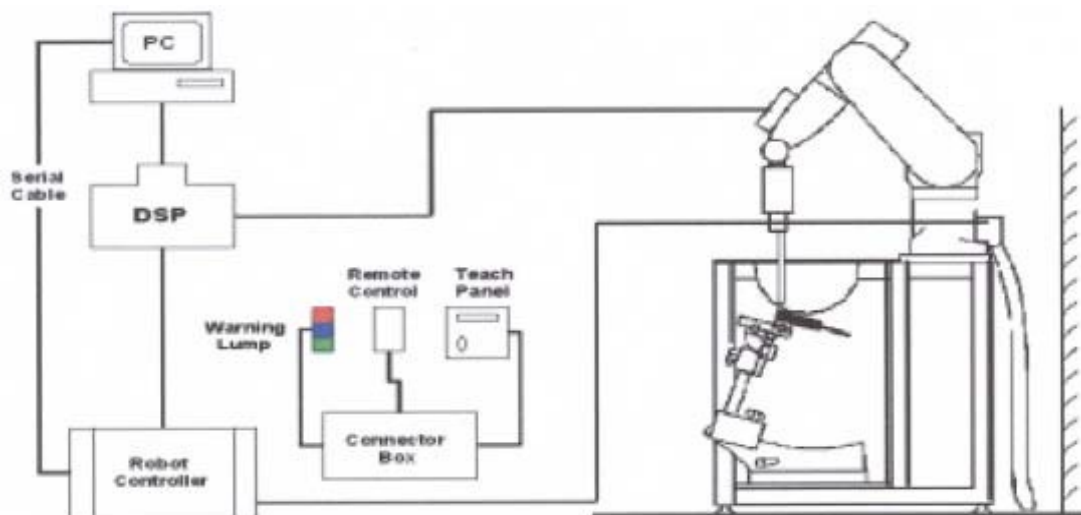
### 3. SAR MEASUREMENTS SYSTEM CONFIGURATION

#### 3.1 SAR MEASUREMENT SET-UP

The DASY system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY measurement server.
6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows.
7. DASY software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

##### 3.1.1 TEST SETUP LAYOUT



### 3.2 DASY E-FIELD PROBE SYSTEM

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric valuation.

#### 3.2.1 PROBE SPECIFICATION

EX3DV4

|               |                                                                                                                                                                           |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction  | Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE) |
| Calibration   | ISO/IEC 17025 calibration service available                                                                                                                               |
| Frequency     | 4 MHz to 10 GHz<br>Linearity: $\pm 0.2$ dB (30 MHz to 10 GHz)                                                                                                             |
| Directivity   | $\pm 0.1$ dB in TSL (rotation around probe axis)<br>$\pm 0.3$ dB in TSL (rotation normal to probe axis)                                                                   |
| Dynamic Range | 10 $\mu$ W/g to > 100 mW/g<br>Linearity: $\pm 0.2$ dB(noise: typically <1 $\mu$ W/g)                                                                                      |
| Dimensions    | Overall length: 337 mm (Tip: 9 mm)<br>Tip diameter: 2.5 mm (Body: 12 mm)<br>Typical distance from probe tip to dipole centers: 1.0 mm                                     |

Note: This size is only the standard information for the E-Field Probe device. For the exact dimensions, please refer to the calibration report in the appendix.



E-field Probe

### 3.2.2 E-FIELD PROBE CALIBRATION

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than  $\pm 10\%$ . The spherical isotropy was evaluated and found to be better than  $\pm 0.25\text{dB}$ . The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$\text{SAR} = C \frac{\Delta T}{\Delta t}$$

Where:  $\Delta t$  = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

$\Delta T$  = Temperature increase due to RF exposure.

Or

$$\text{SAR} = \frac{|E|^2 \sigma}{\rho}$$

Where:  $\sigma$  = Simulated tissue conductivity,

$\rho$  = Tissue density ( $\text{kg/m}^3$ ).

### 3.2.3 OTHER TEST EQUIPMENT

#### 3.2.3.1. Device Holder for Transmitters

**Construction:** Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices (e.g., laptops, cameras, etc.) It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner. The extension is fully compatible with the Twin SAM, ELI Phantoms.

**Material:** POM, Acrylic glass, Foam

#### 3.2.3.2 Phantom

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                    |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Model           | Twin SAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| Construction    | The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEC/IEEE 62209-1528. It enables the dosimetric evaluation of left—and right-hand phone usage as well as body-mounted usage at the flat phantom region. A cover prevents the liquid from evaporating. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot. |                                                                                    |
| Shell Thickness | $2 \pm 0.2$ mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |
| Filling Volume  | Approx. 25 liters                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |
| Dimensions      | Length:1000mm; Width: 500mm<br>Height: adjustable feet                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                    |
| Available       | Special                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                    |

### 3.2.4 SCANNING PROCEDURE

The DASY system installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT’s output power and should vary max.  $\pm 5\%$ .

Both area scanning and zoom scanning comply with the IEC/IEEE 62209-1528 standard.

- Area Scan

**Table 3 – Area scan parameters**

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DUT transmit frequency being tested                                     |                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $f \leq 3 \text{ GHz}$                                                  | $3 \text{ GHz} < f \leq 10 \text{ GHz}$                                      |
| Maximum distance between the measured points (geometric centre of the sensors) and the inner phantom surface ( $z_{M1}$ in Figure 20 in mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | $5 \pm 1$                                                               | $\delta \ln(2)/2 \pm 0,5^a$                                                  |
| Maximum spacing between adjacent measured points in mm (see O.8.3.1) <sup>b</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20, or half of the corresponding zoom scan length, whichever is smaller | $60/f$ , or half of the corresponding zoom scan length, whichever is smaller |
| Maximum angle between the probe axis and the phantom surface normal ( $\alpha$ in Figure 20) <sup>c</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5° (flat phantom only)<br>30° (other phantoms)                          | 5° (flat phantom only)<br>20° (other phantoms)                               |
| Tolerance in the probe angle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1°                                                                      | 1°                                                                           |
| <sup>a</sup> $\delta$ is the penetration depth for a plane-wave incident normally on a planar half-space.<br><sup>b</sup> See Clause O.8 on how $\Delta x$ and $\Delta y$ may be selected for individual area scan requirements.<br><sup>c</sup> The probe angle relative to the phantom surface normal is restricted due to the degradation in the measurement accuracy in fields with steep spatial gradients. The measurement accuracy decreases with increasing probe angle and increasing frequency. This is the reason for the tighter probe angle restriction at frequencies above 3 GHz. |                                                                         |                                                                              |

- Zoom Scan

**Table 4 – Zoom scan parameters**

| Parameter                                                                                                                                                                           | DUT transmit frequency being tested            |                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|
|                                                                                                                                                                                     | $f \leq 3 \text{ GHz}$                         | $3 \text{ GHz} < f \leq 10 \text{ GHz}$        |
| Maximum distance between the closest measured points and the phantom surface ( $z_{M1}$ in Figure 20 and Table 3, in mm)                                                            | 5                                              | $\delta \ln(2)/2^a$                            |
| Maximum angle between the probe axis and the phantom surface normal ( $\alpha$ in Figure 20)                                                                                        | 5° (flat phantom only)<br>30° (other phantoms) | 5° (flat phantom only)<br>20° (other phantoms) |
| Maximum spacing between measured points in the $x$ - and $y$ -directions ( $\Delta x$ and $\Delta y$ , in mm)                                                                       | 8                                              | $24/f^b$                                       |
| For uniform grids:<br>Maximum spacing between measured points in the direction normal to the phantom shell ( $\Delta z_1$ in Figure 20, in mm)                                      | 5                                              | $10/(f - 1)$                                   |
| For graded grids:<br>Maximum spacing between the two closest measured points in the direction normal to the phantom shell ( $\Delta z_1$ in Figure 20, in mm)                       | 4                                              | $12/f$                                         |
| For graded grids:<br>Maximum incremental increase in the spacing between measured points in the direction normal to the phantom shell ( $R_z = \Delta z_2/\Delta z_1$ in Figure 20) | 1,5                                            | 1,5                                            |
| Minimum edge length of the zoom scan volume in the $x$ - and $y$ -directions ( $L_z$ in O.8.3.2, in mm)                                                                             | 30                                             | 22                                             |
| Minimum edge length of the zoom scan volume in the direction normal to the phantom shell ( $L_n$ in O.8.3.2 in mm)                                                                  | 30                                             | 22                                             |
| Tolerance in the probe angle                                                                                                                                                        | 1°                                             | 1°                                             |
| <sup>a</sup> $\delta$ is the penetration depth for a plane-wave incident normally on a planar half-space.                                                                           |                                                |                                                |
| <sup>b</sup> This is the maximum spacing allowed, which might not work for all circumstances.                                                                                       |                                                |                                                |

## 4. SYSTEM VERIFICATION PROCEDURE

### 4.1 TISSUE VERIFICATION

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within  $\pm 5\%$  of the target values.

The following materials are used for producing the tissue-equivalent materials.

| Tissue Type | Bactericide | DGBE | HEC | NaCl | Sucrose | Triton X-100 | Water | Diethylene Glycol Mono-hexylether |
|-------------|-------------|------|-----|------|---------|--------------|-------|-----------------------------------|
| Head 750    | 0.2         | -    | 0.2 | 1.5  | 56.0    | -            | 42.1  | -                                 |
| Head 835    | 0.2         | -    | 0.2 | 1.5  | 57.0    | -            | 41.1  | -                                 |
| Head 1750   | -           | 47.0 | -   | 0.4  | -       | -            | 52.6  | -                                 |
| Head 1900   | -           | 44.5 | -   | 0.2  | -       | -            | 55.3  | -                                 |
| Head 2300   | -           | 44.9 | -   | 0.1  | -       | -            | 55.0  | -                                 |
| Head 2450   | -           | 45.0 | -   | 0.1  | -       | -            | 54.9  | -                                 |
| Head 2600   | -           | 45.1 | -   | 0.1  | -       | -            | 54.8  | -                                 |
| Head 5G     | -           | -    | -   | -    | -       | 17.2         | 65.5  | 17.3                              |

| Tissue Verification |                 |                   |                           |                               |                                    |                                        |                                         |                                             |               |
|---------------------|-----------------|-------------------|---------------------------|-------------------------------|------------------------------------|----------------------------------------|-----------------------------------------|---------------------------------------------|---------------|
| Tissue Type         | Frequency (MHz) | Liquid Temp. (°C) | Conductivity ( $\sigma$ ) | Permittivity ( $\epsilon_r$ ) | Targeted Conductivity ( $\sigma$ ) | Targeted Permittivity ( $\epsilon_r$ ) | Deviation Conductivity ( $\sigma$ ) (%) | Deviation Permittivity ( $\epsilon_r$ ) (%) | Date          |
| Head                | 750             | 22.3              | 0.910                     | 42.630                        | 0.89                               | 41.9                                   | 2.25                                    | 1.74                                        | Apr. 20, 2026 |
| Head                | 750             | 22.1              | 0.878                     | 42.549                        | 0.89                               | 41.9                                   | -1.35                                   | 1.55                                        | Apr. 24, 2026 |
| Head                | 750             | 22.2              | 0.875                     | 42.600                        | 0.89                               | 41.9                                   | -1.69                                   | 1.67                                        | Apr. 25, 2026 |
| Head                | 835             | 22.5              | 0.927                     | 42.201                        | 0.90                               | 41.5                                   | 3.00                                    | 1.69                                        | Apr. 15, 2026 |
| Head                | 835             | 22.2              | 0.922                     | 42.094                        | 0.90                               | 41.5                                   | 2.44                                    | 1.43                                        | Apr. 16, 2026 |
| Head                | 835             | 22.3              | 0.885                     | 42.030                        | 0.90                               | 41.5                                   | -1.67                                   | 1.28                                        | Apr. 20, 2026 |
| Head                | 835             | 22.4              | 0.926                     | 42.140                        | 0.90                               | 41.5                                   | 2.89                                    | 1.54                                        | Apr. 23, 2026 |
| Head                | 835             | 22.1              | 0.928                     | 42.124                        | 0.90                               | 41.5                                   | 3.11                                    | 1.50                                        | Apr. 24, 2026 |
| Head                | 835             | 22.2              | 0.920                     | 42.100                        | 0.90                               | 41.5                                   | 2.22                                    | 1.45                                        | Apr. 25, 2026 |
| Head                | 1750            | 22.4              | 1.325                     | 38.932                        | 1.37                               | 40.1                                   | -3.28                                   | -2.91                                       | Apr. 17, 2026 |
| Head                | 1750            | 22.1              | 1.324                     | 38.896                        | 1.37                               | 40.1                                   | -3.36                                   | -3.00                                       | Apr. 22, 2026 |
| Head                | 1750            | 22.4              | 1.320                     | 39.000                        | 1.37                               | 40.1                                   | -3.65                                   | -2.74                                       | Apr. 23, 2026 |
| Head                | 1750            | 22.2              | 1.325                     | 38.976                        | 1.37                               | 40.1                                   | -3.28                                   | -2.80                                       | Apr. 25, 2026 |
| Head                | 1900            | 22.2              | 1.355                     | 39.193                        | 1.40                               | 40.0                                   | -3.21                                   | -2.02                                       | Apr. 16, 2026 |
| Head                | 1900            | 22.4              | 1.354                     | 39.240                        | 1.40                               | 40.0                                   | -3.29                                   | -1.90                                       | Apr. 17, 2026 |
| Head                | 1900            | 22.5              | 1.355                     | 39.141                        | 1.40                               | 40.0                                   | -3.21                                   | -2.15                                       | Apr. 18, 2026 |
| Head                | 1900            | 22.5              | 1.355                     | 39.248                        | 1.40                               | 40.0                                   | -3.21                                   | -1.88                                       | Apr. 19, 2026 |
| Head                | 2450            | 22.4              | 1.830                     | 38.500                        | 1.80                               | 39.2                                   | 1.67                                    | -1.79                                       | Apr. 18, 2026 |
| Head                | 2450            | 21.9              | 1.860                     | 39.000                        | 1.80                               | 39.2                                   | 3.33                                    | -0.51                                       | Apr. 22, 2026 |
| Head                | 2450            | 22.1              | 1.854                     | 38.924                        | 1.80                               | 39.2                                   | 3.00                                    | -0.70                                       | Apr. 24, 2026 |
| Head                | 2600            | 22.1              | 1.995                     | 38.170                        | 1.96                               | 39.0                                   | 1.79                                    | -2.13                                       | Apr. 21, 2026 |
| Head                | 2600            | 22.1              | 2.050                     | 39.000                        | 1.96                               | 39.0                                   | 4.59                                    | 0.00                                        | Apr. 22, 2026 |
| Head                | 2600            | 22.4              | 2.003                     | 38.292                        | 1.96                               | 39.0                                   | 2.19                                    | -1.82                                       | Apr. 23, 2026 |
| Head                | 2600            | 22.1              | 2.000                     | 38.240                        | 1.96                               | 39.0                                   | 2.04                                    | -1.95                                       | Apr. 24, 2026 |
| Head                | 2600            | 22.1              | 2.000                     | 38.200                        | 1.96                               | 39.0                                   | 2.04                                    | -2.05                                       | Apr. 24, 2026 |
| Head                | 5250            | 22.1              | 4.710                     | 35.900                        | 4.71                               | 36.0                                   | 0.00                                    | -0.14                                       | Apr. 20, 2026 |
| Head                | 5250            | 21.9              | 4.720                     | 36.000                        | 4.71                               | 36.0                                   | 0.21                                    | 0.14                                        | Apr. 22, 2026 |
| Head                | 5600            | 22.1              | 5.110                     | 35.100                        | 5.07                               | 35.5                                   | 0.79                                    | -1.13                                       | Apr. 20, 2026 |
| Head                | 5600            | 21.9              | 5.130                     | 35.200                        | 5.07                               | 35.5                                   | 1.18                                    | -0.85                                       | Apr. 22, 2026 |
| Head                | 5850            | 22.1              | 5.400                     | 34.500                        | 5.32                               | 35.3                                   | 1.50                                    | -2.13                                       | Apr. 20, 2026 |
| Head                | 5850            | 21.9              | 5.500                     | 34.700                        | 5.32                               | 35.3                                   | 3.38                                    | -1.56                                       | Apr. 22, 2026 |

**Note:**

- 1) The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.
- 2) The above measured tissue parameters were used in the DASY software to perform interpolation via the DASY software to determine actual dielectric parameters at the test frequencies. The SAR test plots may slightly differ from the table above since the DASY rounds to three significant digits.

## 4.2 SYSTEM CHECK

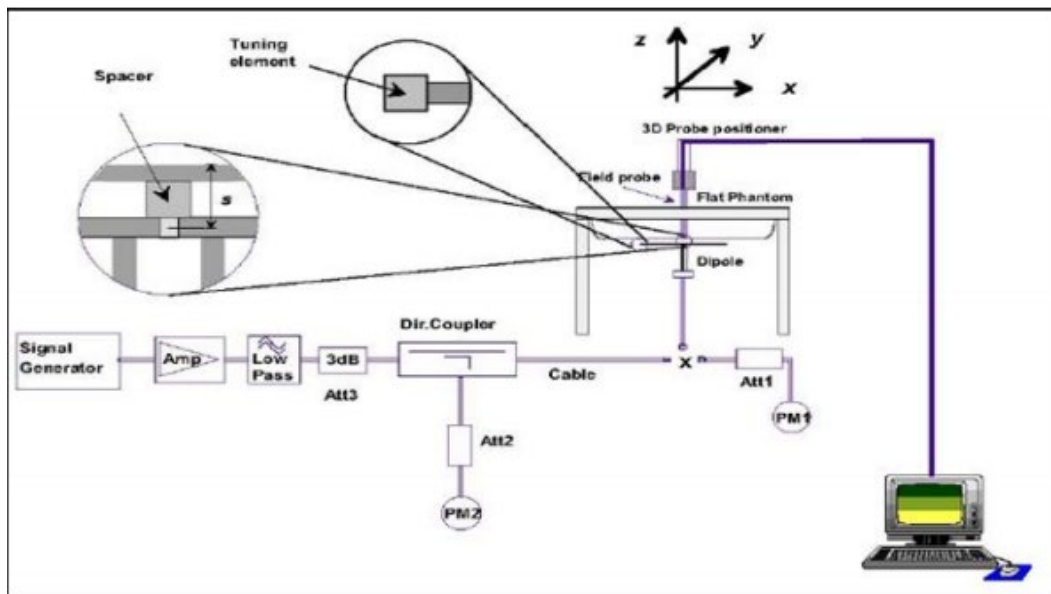
The system check is performed for verifying the accuracy of the complete measurement system and performance of the software. The system check is performed with tissue equivalent material according to IEEE Std 1528™ (described above). The following table shows system check results for all frequency bands and tissue liquids used during the tests.

| System Check | Date          | Frequency (MHz) | Targeted SAR 1g (W/kg) | Measured SAR 1g (W/kg) | normalized SAR 1g (W/kg) | Deviation 1g (%) | Dipole S/N |
|--------------|---------------|-----------------|------------------------|------------------------|--------------------------|------------------|------------|
| Head         | Apr. 20, 2026 | 750             | 8.48                   | 0.884                  | 8.84                     | 4.25             | 1095       |
| Head         | Apr. 24, 2026 | 750             | 8.48                   | 0.836                  | 8.36                     | -1.42            | 1095       |
| Head         | Apr. 25, 2026 | 750             | 8.48                   | 0.843                  | 8.43                     | -0.59            | 1095       |
| Head         | Apr. 15, 2026 | 835             | 9.83                   | 0.984                  | 9.84                     | 0.10             | 4d160      |
| Head         | Apr. 16, 2026 | 835             | 9.83                   | 0.966                  | 9.66                     | -1.73            | 4d160      |
| Head         | Apr. 20, 2026 | 835             | 9.83                   | 0.953                  | 9.53                     | -3.05            | 4d160      |
| Head         | Apr. 23, 2026 | 835             | 9.83                   | 0.995                  | 9.95                     | 1.22             | 4d160      |
| Head         | Apr. 24, 2026 | 835             | 9.83                   | 1.020                  | 10.20                    | 3.76             | 4d160      |
| Head         | Apr. 25, 2026 | 835             | 9.83                   | 1.030                  | 10.30                    | 4.78             | 4d160      |
| Head         | Apr. 17, 2026 | 1750            | 37.00                  | 3.700                  | 37.00                    | 0.00             | 1101       |
| Head         | Apr. 22, 2026 | 1750            | 37.00                  | 3.670                  | 36.70                    | -0.81            | 1101       |
| Head         | Apr. 23, 2026 | 1750            | 37.00                  | 3.610                  | 36.10                    | -2.43            | 1101       |
| Head         | Apr. 25, 2026 | 1750            | 37.00                  | 3.770                  | 37.70                    | 1.89             | 1101       |
| Head         | Apr. 16, 2026 | 1900            | 39.40                  | 4.030                  | 40.30                    | 2.28             | 5d179      |
| Head         | Apr. 17, 2026 | 1900            | 39.40                  | 3.900                  | 39.00                    | -1.02            | 5d179      |
| Head         | Apr. 18, 2026 | 1900            | 39.40                  | 3.910                  | 39.10                    | -0.76            | 5d179      |
| Head         | Apr. 19, 2026 | 1900            | 39.40                  | 4.110                  | 41.10                    | 4.31             | 5d179      |
| Head         | Apr. 18, 2026 | 2450            | 53.10                  | 5.33                   | 53.30                    | 0.38             | 919        |
| Head         | Apr. 22, 2026 | 2450            | 53.10                  | 5.30                   | 53.00                    | -0.19            | 919        |
| Head         | Apr. 24, 2026 | 2450            | 53.10                  | 5.25                   | 52.50                    | -1.13            | 919        |
| Head         | Apr. 21, 2026 | 2600            | 56.80                  | 5.410                  | 54.10                    | -4.75            | 1067       |
| Head         | Apr. 22, 2026 | 2600            | 56.80                  | 5.780                  | 57.80                    | 1.76             | 1067       |
| Head         | Apr. 23, 2026 | 2600            | 56.80                  | 5.600                  | 56.00                    | -1.41            | 1067       |
| Head         | Apr. 24, 2026 | 2600            | 56.80                  | 5.510                  | 55.10                    | -2.99            | 1067       |
| Head         | Apr. 24, 2026 | 2600            | 56.80                  | 5.660                  | 56.60                    | -0.35            | 1067       |
| Head         | Apr. 20, 2026 | 5250            | 78.70                  | 8.01                   | 80.10                    | 1.78             | 1160       |
| Head         | Apr. 22, 2026 | 5250            | 78.70                  | 7.75                   | 77.50                    | -1.52            | 1160       |
| Head         | Apr. 20, 2026 | 5600            | 81.80                  | 8.08                   | 80.80                    | -1.22            | 1160       |
| Head         | Apr. 22, 2026 | 5600            | 81.80                  | 8.09                   | 80.90                    | -1.10            | 1160       |
| Head         | Apr. 20, 2026 | 5850            | 80.60                  | 8.13                   | 81.30                    | 0.87             | 1160       |
| Head         | Apr. 22, 2026 | 5850            | 80.60                  | 8.09                   | 80.90                    | 0.37             | 1160       |

### 4.3 SYSTEM CHECK PROCEDURE

The system check is performed by using a system check dipole which is positioned parallel to the planar part of the phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a plexiglass spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. The forward power supplied to the system check antenna shall produce a psSAR of at least 0,4 W/kg. The 1 g or 10 g psSAR range is 0,4 W/kg to 10 W/kg.

The power sensor is connected to the cable before the system check to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system check to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test. System check results have to be equal or near the values determined during dipole calibration (target SAR in table above) with the relevant liquids and test system ( $\pm 10\%$ ).



## 5. OPERATIONAL CONDITIONS DURING TEST

### 5.1 GENERAL DESCRIPTION OF TEST PROCEDURES

Connection to the EUT is established via air interface with R&S CMW500, and the EUT is Set to maximum output power by R&S CMW500. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. The antenna connected to the output of the base station simulator shall be placed at least 50cm away from the EUT. The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the EUT by at least 30dB.

### 5.2 SAR TEST CONFIGURATION

#### 5.2.1 GSM TEST CONFIGURATION

SAR tests for GSM850 and GSM1900, a communication link is set up with a base station by air link. Using 8960 Series the power lever is set to “5” and “0” in SAR of GSM850 and GSM1900. The tests in the band of GSM850 and GSM1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8PSK.

According to specification 3GPP TS 51.010, the maximum power of the GSM can do the power reduction for the multi-slot.

The allowed power reduction in the multi-slot configuration is as following:

| Number of timeslots in uplink assignment |            | Reduction of maximum output power (dB) |              |               |
|------------------------------------------|------------|----------------------------------------|--------------|---------------|
| Band                                     | Time Slots | GPRS (GMSK)                            | EGPRS (GMSK) | EGPRS (8PSK ) |
| GSM850                                   | 1 TX slot  | 0.0                                    | 0.0          | 6.4           |
|                                          | 2 TX slots | 3.0                                    | 3.0          | 9.4           |
|                                          | 3 TX slots | 4.8                                    | 4.8          | 11.2          |
|                                          | 4 TX slots | 6.0                                    | 6.0          | 12.4          |
| GSM1900                                  | 1 TX slot  | 0.0                                    | 0.0          | 4.3           |
|                                          | 2 TX slots | 3.0                                    | 3.0          | 7.3           |
|                                          | 3 TX slots | 4.8                                    | 4.8          | 9.1           |
|                                          | 4 TX slots | 6.0                                    | 6.0          | 10.3          |

## 5.2.2 UMTS TEST CONFIGURATION

### 1. Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the procedures description in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1s" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Result for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) should be tabulated in the SAR report. All configuration that are not supported by the DUT or cannot be measured due to technical or equipment limitation should be clearly identified.

### 2. WCDMA

#### (1) Head SAR Measurements

SAR for next to ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1s". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR with 3.4kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

#### (2) Body SAR Measurements

SAR for body-worn accessory is measured using the 12.2 kbps RMC with the TPC bits configured to all "1s". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by handset with 12.2 kbps RMC as the primary mode.

### 3. HSDPA

SAR for body exposure configurations is measured according to the "Body SAR Measurements" procedures of 3G device. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$ W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

Per KDB941225 D01, the 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures for the highest reported SAR body exposure configuration in 12.2 kbps RMC.

HSDPA should be configured according to UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HAPRQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission condition, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. The  $\beta_c$  and  $\beta_d$  gain factors for DPCCH and DPDCH were set according to the values in the below table,  $\beta_{hs}$  for HS-DPCCH is set automatically to the correct value when  $\Delta ACK$ ,  $\Delta NACK$ ,  $\Delta CQI = 8$ . The variation of the  $\beta_c / \beta_d$  ratio causes a power reduction at sub-tests 2 - 4.

| Sub-test <sup>o</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\beta_c$ <sup>o</sup> | $\beta_d$ <sup>o</sup> | $\beta_d$ (SF) <sup>o</sup> | $\beta_c / \beta_d$ <sup>o</sup> | $\beta_{hs}$ (1) <sup>o</sup> | CM(dB)(2) <sup>o</sup> | MPR (dB) <sup>o</sup> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|-----------------------------|----------------------------------|-------------------------------|------------------------|-----------------------|
| 1 <sup>o</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2/15 <sup>o</sup>      | 15/15 <sup>o</sup>     | 64 <sup>o</sup>             | 2/15 <sup>o</sup>                | 4/15 <sup>o</sup>             | 0.0 <sup>o</sup>       | 0 <sup>o</sup>        |
| 2 <sup>o</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12/15(3) <sup>o</sup>  | 15/15(3) <sup>o</sup>  | 64 <sup>o</sup>             | 12/15(3) <sup>o</sup>            | 24/15 <sup>o</sup>            | 1.0 <sup>o</sup>       | 0 <sup>o</sup>        |
| 3 <sup>o</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15/15 <sup>o</sup>     | 8/15 <sup>o</sup>      | 64 <sup>o</sup>             | 15/8 <sup>o</sup>                | 30/15 <sup>o</sup>            | 1.5 <sup>o</sup>       | 0.5 <sup>o</sup>      |
| 4 <sup>o</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15/15 <sup>o</sup>     | 4/15 <sup>o</sup>      | 64 <sup>o</sup>             | 15/4 <sup>o</sup>                | 30/15 <sup>o</sup>            | 1.5 <sup>o</sup>       | 0.5 <sup>o</sup>      |
| <p>Note 1: <math>\Delta ACK</math>, <math>\Delta NACK</math> and <math>\Delta CQI = 8</math>    <math>A_{hs} = \beta_{hs} / \beta_c = 30/15</math>    <math>\beta_{hs} = 30/15 * \beta_c</math><br/> Note 2: CM=1 for <math>\beta_c / \beta_d = 12/15</math>, <math>\beta_{hs} / \beta_c = 24/15</math>. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.<br/> Note 3: For subtest 2 the <math>\beta_c / \beta_d</math> ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to <math>\beta_c = 11/15</math> and <math>\beta_d = 15/15</math></p> |                        |                        |                             |                                  |                               |                        |                       |

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Settings of required H-Set 1 QPSK acc. to 3GPP 34.121

| Parameter                        | Value       |
|----------------------------------|-------------|
| Nominal average inf. bit rate    | 534 kbit/s  |
| Inter-TTI Distance               | 3 TTI"s     |
| Number of HARQ Processes         | 2 Processes |
| Information Bit Payload          | 3202 Bits   |
| MAC-d PDU size                   | 336 Bits    |
| Number Code Blocks               | 1 Block     |
| Binary Channel Bits Per TTI      | 4800 Bits   |
| Total Available SMLs in UE       | 19200 SMLs  |
| Number of SMLs per HARQ Process  | 9600 SMLs   |
| Coding Rate                      | 0.67        |
| Number of Physical Channel Codes | 5           |

HSDPA UE category

| HS-DSCH Category | Maximum HS-DSCH Codes Received | Minimum Inter-TTI Interval | Maximum HS-DSCH Transport Block Bits/HS-DSCH TTI | Total Soft Channel Bits |
|------------------|--------------------------------|----------------------------|--------------------------------------------------|-------------------------|
| 1                | 5                              | 3                          | 7298                                             | 19200                   |
| 2                | 5                              | 3                          | 7298                                             | 28800                   |
| 3                | 5                              | 2                          | 7298                                             | 28800                   |
| 4                | 5                              | 2                          | 7298                                             | 38400                   |
| 5                | 5                              | 1                          | 7298                                             | 57600                   |
| 6                | 5                              | 1                          | 7298                                             | 67200                   |
| 7                | 10                             | 1                          | 14411                                            | 115200                  |
| 8                | 10                             | 1                          | 14411                                            | 134400                  |
| 9                | 15                             | 1                          | 25251                                            | 172800                  |
| 10               | 15                             | 1                          | 27952                                            | 172800                  |
| 11               | 5                              | 2                          | 3630                                             | 14400                   |
| 12               | 5                              | 1                          | 3630                                             | 28800                   |
| 13               | 15                             | 1                          | 34800                                            | 259200                  |
| 14               | 15                             | 1                          | 42196                                            | 259200                  |
| 15               | 15                             | 1                          | 23370                                            | 345600                  |
| 16               | 15                             | 1                          | 27952                                            | 345600                  |

#### 4. HSUPA

SAR for Body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. 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 or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2W/kg$ , SAR measurement is not required for the secondary mode.

Per KDB941225 D01, the 3G SAR test reduction procedures is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures for the highest reported body exposure SAR configuration in 12.2 kbps RMC.

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSDPA should be configured according to the values indicated below as well as other applicable procedures described in the “WCDMA Handset” and “Release 5 HSDPA Data Device” sections of 3G device.

##### Subtests for WCDMA Release 6 HSUPA

| Sub-test <sup>1</sup> | $\beta_c$ <sup>2</sup> | $\beta_d$ <sup>3</sup> | $\beta_d$ (SF) <sup>3</sup> | $\beta_c/\beta_d$ <sup>3</sup> | $\beta_{hs}$ <sup>1</sup> | $\beta_{ec}$ <sup>3</sup> | $\beta_{ed}$ <sup>3</sup>                  | $\beta_{ec}$ (SF) <sup>3</sup> | $\beta_{ed}$ (code) <sup>3</sup> | CM <sup>2</sup> (dB) <sup>3</sup> | MP R <sup>3</sup> (dB) <sup>3</sup> | AG <sup>4</sup> Index <sup>3</sup> | E-TFC I <sup>3</sup> |
|-----------------------|------------------------|------------------------|-----------------------------|--------------------------------|---------------------------|---------------------------|--------------------------------------------|--------------------------------|----------------------------------|-----------------------------------|-------------------------------------|------------------------------------|----------------------|
| 1 <sup>3</sup>        | 11/15 <sup>(3)</sup>   | 15/15 <sup>(3)</sup>   | 64 <sup>3</sup>             | 11/15 <sup>(3)</sup>           | 22/15 <sup>3</sup>        | 209/225 <sup>3</sup>      | 1039/225 <sup>3</sup>                      | 4 <sup>3</sup>                 | 1 <sup>3</sup>                   | 1.0 <sup>3</sup>                  | 0.0 <sup>3</sup>                    | 20 <sup>3</sup>                    | 75 <sup>3</sup>      |
| 2 <sup>3</sup>        | 6/15 <sup>3</sup>      | 15/15 <sup>3</sup>     | 64 <sup>3</sup>             | 6/15 <sup>3</sup>              | 12/15 <sup>3</sup>        | 12/15 <sup>3</sup>        | 94/75 <sup>3</sup>                         | 4 <sup>3</sup>                 | 1 <sup>3</sup>                   | 3.0 <sup>3</sup>                  | 2.0 <sup>3</sup>                    | 12 <sup>3</sup>                    | 67 <sup>3</sup>      |
| 3 <sup>3</sup>        | 15/15 <sup>3</sup>     | 9/15 <sup>3</sup>      | 64 <sup>3</sup>             | 15/9 <sup>3</sup>              | 30/15 <sup>3</sup>        | 30/15 <sup>3</sup>        | $\beta_{ed1}:47/15$<br>$\beta_{ed2}:47/15$ | 4 <sup>3</sup>                 | 2 <sup>3</sup>                   | 2.0 <sup>3</sup>                  | 1.0 <sup>3</sup>                    | 15 <sup>3</sup>                    | 92 <sup>3</sup>      |
| 4 <sup>3</sup>        | 2/15 <sup>3</sup>      | 15/15 <sup>3</sup>     | 64 <sup>3</sup>             | 2/15 <sup>3</sup>              | 4/15 <sup>3</sup>         | 2/15 <sup>3</sup>         | 56/75 <sup>3</sup>                         | 4 <sup>3</sup>                 | 1 <sup>3</sup>                   | 3.0 <sup>3</sup>                  | 2.0 <sup>3</sup>                    | 17 <sup>3</sup>                    | 71 <sup>3</sup>      |
| 5 <sup>3</sup>        | 15/15 <sup>(4)</sup>   | 15/15 <sup>(4)</sup>   | 64 <sup>3</sup>             | 15/15 <sup>(4)</sup>           | 30/15 <sup>3</sup>        | 24/15 <sup>3</sup>        | 134/15 <sup>3</sup>                        | 4 <sup>3</sup>                 | 1 <sup>3</sup>                   | 1.0 <sup>3</sup>                  | 0.0 <sup>3</sup>                    | 21 <sup>3</sup>                    | 81 <sup>3</sup>      |

Note 1:  $\Delta ACK$ ,  $\Delta NACK$  and  $\Delta CQI = 8$   $A_{hs} = \beta_{hs}/\beta_c = 30/15$   $\beta_{hs} = 30/15 * \beta_c$

Note 2: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference<sup>3</sup>

Note 3 : For subtest 1 the  $\beta_c/\beta_d$  ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 10/15$  and  $\beta_d = 15/15$ <sup>3</sup>

Note 4 : For subtest 5 the  $\beta_c/\beta_d$  ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 14/15$  and  $\beta_d = 15/15$ <sup>3</sup>

Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g<sup>3</sup>

Note 6:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.<sup>3</sup>

### HSUPA UE category

| UE E-DCH Category | Maximum E-DCH Codes Transmitted | Number of HARQ Processes | E-DCH TTI(ms) | Minimum Spreading Factor | Maximum E-DCH Transport Block Bits | Max Rate (Mbps) |
|-------------------|---------------------------------|--------------------------|---------------|--------------------------|------------------------------------|-----------------|
| 1                 | 1                               | 4                        | 10            | 4                        | 7110                               | 0.7296          |
| 2                 | 2                               | 8                        | 2             | 4                        | 2798                               | 1.4592          |
|                   | 2                               | 4                        | 10            | 4                        | 14484                              |                 |
| 3                 | 2                               | 4                        | 10            | 4                        | 14484                              | 1.4592          |
| 4                 | 2                               | 8                        | 2             | 2                        | 5772                               | 2.9185          |
|                   | 2                               | 4                        | 10            | 2                        | 20000                              | 2.00            |
| 5                 | 2                               | 4                        | 10            | 2                        | 20000                              | 2.00            |
| 6<br>(No DPDCH)   | 4                               | 8                        | 10            | 2SF2&2SF4                | 11484                              | 5.76            |
|                   | 4                               | 4                        | 2             |                          | 20000                              | 2.00            |
| 7<br>(No DPDCH)   | 4                               | 8                        | 2             | 2SF2&2SF4                | 22996                              | ?               |
|                   | 4                               | 4                        | 10            |                          | 20000                              | ?               |

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM. (TS25.306-7.3.0).

### 5. DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel.5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode.

Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0  
Levels for HSDPA connection setup

| Parameter<br>During Connection setup | Unit | Value |
|--------------------------------------|------|-------|
| P-CPICH_Ec/Ior                       | dB   | -10   |
| P-CCPCH and SCH_Ec/Ior               | dB   | -12   |
| PICH_Ec/Ior                          | dB   | -15   |
| HS-PDSCH                             | dB   | off   |
| HS-SCCH_1                            | dB   | off   |
| DPCH_Ec/Ior                          | dB   | -5    |
| OCNS_Ec/Ior                          | dB   | -3.1  |

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

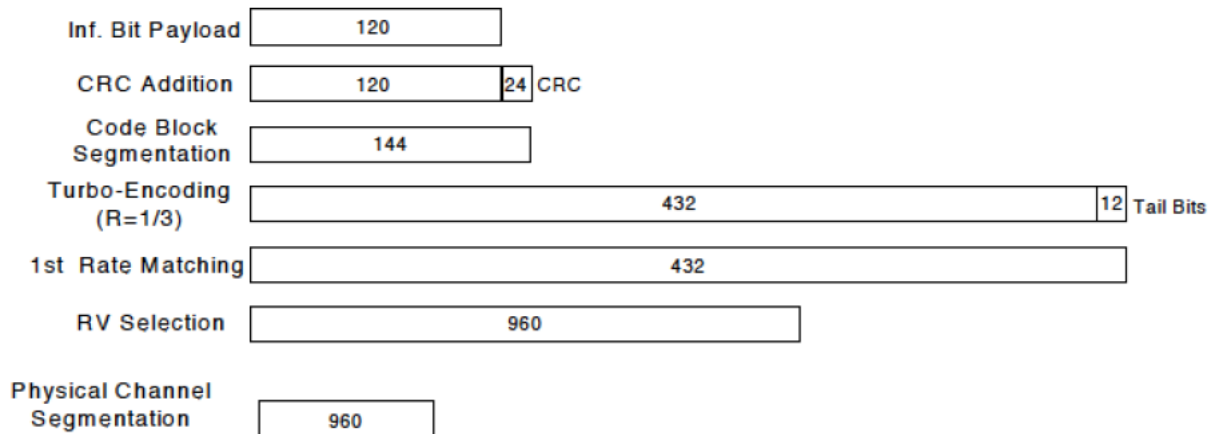
The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK

| Parameter                        | Value       |
|----------------------------------|-------------|
| Nominal average inf. bit rate    | 60 kbit/s   |
| Inter-TTI Distance               | 1 TTI's     |
| Number of HARQ Processes         | 6 Processes |
| Information Bit Payload          | 120 Bits    |
| Number Code Blocks               | 1 Block     |
| Binary Channel Bits Per TTI      | 960 Bits    |
| Total Available SMLs in UE       | 19200 SMLs  |
| Number of SMLs per HARQ Process  | 3200 SMLs   |
| Coding Rate                      | 0.15        |
| Number of Physical Channel Codes | 1           |

Note:

1.The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.

2.Maximum number of transmission is limited to 1,i.e.,retransmission is not allowed. The redundancy and constellation version 0 shall be used.



**Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)**

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

| Sub-test <sup>o</sup> | $\beta_c$ <sup>o</sup> | $\beta_d$ <sup>o</sup> | $\beta_d$ (SF) <sup>o</sup> | $\beta_c/\beta_d$ <sup>o</sup> | $\beta_{hs}(1)$ <sup>o</sup> | CM(dB)(2) <sup>o</sup> | MPR (dB) <sup>o</sup> |
|-----------------------|------------------------|------------------------|-----------------------------|--------------------------------|------------------------------|------------------------|-----------------------|
| 1 <sup>o</sup>        | 2/15 <sup>o</sup>      | 15/15 <sup>o</sup>     | 64 <sup>o</sup>             | 2/15 <sup>o</sup>              | 4/15 <sup>o</sup>            | 0.0 <sup>o</sup>       | 0 <sup>o</sup>        |
| 2 <sup>o</sup>        | 12/15(3) <sup>o</sup>  | 15/15(3) <sup>o</sup>  | 64 <sup>o</sup>             | 12/15(3) <sup>o</sup>          | 24/15 <sup>o</sup>           | 1.0 <sup>o</sup>       | 0 <sup>o</sup>        |
| 3 <sup>o</sup>        | 15/15 <sup>o</sup>     | 8/15 <sup>o</sup>      | 64 <sup>o</sup>             | 15/8 <sup>o</sup>              | 30/15 <sup>o</sup>           | 1.5 <sup>o</sup>       | 0.5 <sup>o</sup>      |
| 4 <sup>o</sup>        | 15/15 <sup>o</sup>     | 4/15 <sup>o</sup>      | 64 <sup>o</sup>             | 15/4 <sup>o</sup>              | 30/15 <sup>o</sup>           | 1.5 <sup>o</sup>       | 0.5 <sup>o</sup>      |

Note 1:  $\Delta ACK$ ,  $\Delta NACK$  and  $\Delta CQI = 8$   $A_{hs} = \beta_{hs}/\beta_c = 30/15$   $\beta_{hs} = 30/15 * \beta_c$

Note 2: CM=1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 3: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

Up commands are set continuously to set the UE to Max power.

## 6. HSPA+

An E-DCH call is set up according to TS 34.108 [3] 7.3.9 with the following exceptions in the RADIO BEARER SETUP messages. These exceptions allow the beta values to be set according to table C.11.1.4 and each UL physical channel to be at constant power at the start of the measurement. RF parameters are set up according to table E.5.A.1. Settings for the serving cell are defined in table 5.2E.4. Uplink SRB for DCCH mapped on E-DCH and downlink SRB for DCCH on DCH. E-DCH is configured with 2ms TTI.

**Table C.11.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM**

| Sub-test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\beta_c$<br>(Note 3) | $\beta_d$ | $\beta_{HS}$<br>(Note 1) | $\beta_{ec}$ | $\beta_{ed}$<br>(2xSF2)<br>(Note 4)            | $\beta_{ed}$<br>(2xSF4)<br>(Note 4)            | CM<br>(dB)<br>(Note 2) | MPR<br>(dB)<br>(Note 2) | AG<br>Index<br>(Note 4) | E-TFCI<br>(Note 5) | E-TFCI<br>(boost) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------|--------------------------|--------------|------------------------------------------------|------------------------------------------------|------------------------|-------------------------|-------------------------|--------------------|-------------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1                     | 0         | 30/15                    | 30/15        | $\beta_{ed1}$ : 30/15<br>$\beta_{ed2}$ : 30/15 | $\beta_{ed3}$ : 24/15<br>$\beta_{ed4}$ : 24/15 | 3.5                    | 2.5                     | 14                      | 105                | 105               |
| <p>Note 1: <math>\Delta_{ACK}</math>, <math>\Delta_{NACK}</math> and <math>\Delta_{CQI} = 30/15</math> with <math>\beta_{hs} = 30/15 * \beta_c</math>.</p> <p>Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).</p> <p>Note 3: DPDCH is not configured, therefore the <math>\beta_c</math> is set to 1 and <math>\beta_d = 0</math> by default.</p> <p>Note 4: <math>\beta_{ed}</math> can not be set directly; it is set by Absolute Grant Value.</p> <p>Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signaled to use the extrapolation algorithm.</p> |                       |           |                          |              |                                                |                                                |                        |                         |                         |                    |                   |

### Note:

1. The Dual Carriers transmission support HSDPA and HSUPA physical channels.
2. The Dual Carriers belong to the same Node and are on adjacent carriers.
3. The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation.
4. The Dual Carriers operate in the same frequency band.
5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
6. The device doesn't support carrier aggregation for it just can operate in Release 8.

### 5.2.3 LTE TEST CONFIGURATION

SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices. The CMW500 Wide Band Radio Communication Tester was used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR test were performed with the same number of RB and RB offsets transmitting on all TTI frames (Maximum TTI).

#### 1. Spectrum Plots for RB configurations

A properly configured base station simulator was used for LTE output power measurements and SAR testing. Therefore, spectrum plots for RB configurations were not required to be included in this report.

#### 2. MPR

When MPR is implemented permanently within the UE, regardless of network requirements, only those RB configurations allowed by 3GPP for the channel bandwidth and modulation. Combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR.

The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101:

**Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3**

| Modulation | Channel bandwidth / Transmission bandwidth ( $N_{RB}$ ) |            |          |           |           |           | MPR (dB) |
|------------|---------------------------------------------------------|------------|----------|-----------|-----------|-----------|----------|
|            | 1.4<br>MHz                                              | 3.0<br>MHz | 5<br>MHz | 10<br>MHz | 15<br>MHz | 20<br>MHz |          |
| QPSK       | > 5                                                     | > 4        | > 8      | > 12      | > 16      | > 18      | $\leq 1$ |
| 16 QAM     | $\leq 5$                                                | $\leq 4$   | $\leq 8$ | $\leq 12$ | $\leq 16$ | $\leq 18$ | $\leq 1$ |
| 16 QAM     | > 5                                                     | > 4        | > 8      | > 12      | > 16      | > 18      | $\leq 2$ |

### 3. A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by using Network Signalling Value of "NS\_01" on the base station simulator.

### 4. LTE procedures for SAR testing

#### A) Largest channel bandwidth standalone SAR test requirements

##### i) QPSK with 1 RB allocation

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. When the reported SAR is  $\leq 0.8$  W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is  $> 1.45$  W/kg, SAR is required for all three RB offset configurations for that required test channel.

##### ii) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in i) are applied to measure the SAR for QPSK with 50% RB allocation.

##### iii) QPSK with 100% RB allocation

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 in i) and ii) 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.

##### iv) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is  $> \frac{1}{2}$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is  $> 1.45$  W/kg.

#### B) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is  $> \frac{1}{2}$  dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is  $> 1.45$  W/kg.

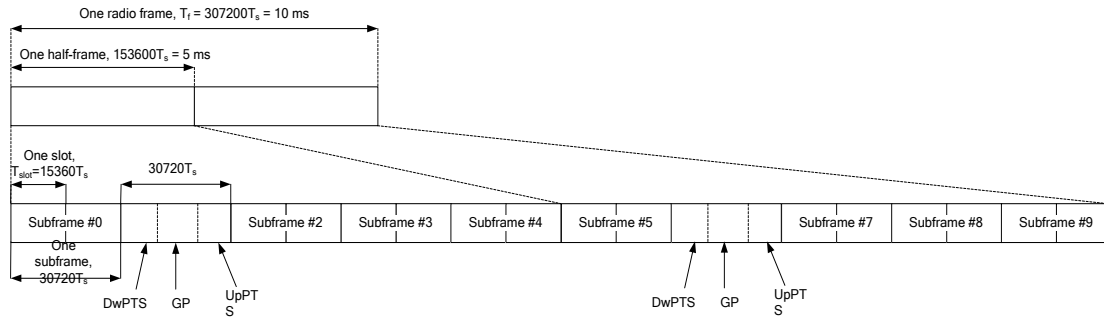
## LTE (TDD) Test Configuration

According to KDB 941225 D05 SAR for LTE Devices V02r05, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

TDD LTE B38/41 supports 3GPP TS 36 for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

TDD LTE B38/41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

**Figure 4.2-1: Frame structure type 2**



**Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)**

| Special subframe configuration | Normal cyclic prefix in downlink |                                |                                  | Extended cyclic prefix in downlink |                                |                                  |
|--------------------------------|----------------------------------|--------------------------------|----------------------------------|------------------------------------|--------------------------------|----------------------------------|
|                                | DwPTS                            | UpPTS                          |                                  | DwPTS                              | UpPTS                          |                                  |
|                                |                                  | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |                                    | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| 0                              | $6592 \cdot T_s$                 | $2192 \cdot T_s$               | $2560 \cdot T_s$                 | $7680 \cdot T_s$                   | $2192 \cdot T_s$               | $2560 \cdot T_s$                 |
| 1                              | $19760 \cdot T_s$                |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 2                              | $21952 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 3                              | $24144 \cdot T_s$                |                                |                                  | $25600 \cdot T_s$                  |                                |                                  |
| 4                              | $26336 \cdot T_s$                |                                |                                  | $7680 \cdot T_s$                   | $4384 \cdot T_s$               | $5120 \cdot T_s$                 |
| 5                              | $6592 \cdot T_s$                 | $4384 \cdot T_s$               | $5120 \cdot T_s$                 | $20480 \cdot T_s$                  |                                |                                  |
| 6                              | $19760 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 7                              | $21952 \cdot T_s$                |                                |                                  | $12800 \cdot T_s$                  |                                |                                  |
| 8                              | $24144 \cdot T_s$                |                                |                                  | -                                  | -                              | -                                |
| 9                              | $13168 \cdot T_s$                |                                |                                  | -                                  | -                              | -                                |

**Table 4.2-2: Uplink-downlink configurations**

| Uplink-downlink configuration | Downlink-to-Uplink Switch-point periodicity | Subframe number |   |   |   |   |   |   |   |   |   |
|-------------------------------|---------------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
|                               |                                             | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | U |
| 1                             | 5 ms                                        | D               | S | U | U | D | D | S | U | U | D |
| 2                             | 5 ms                                        | D               | S | U | D | D | D | S | U | D | D |
| 3                             | 10 ms                                       | D               | S | U | U | U | D | D | D | D | D |
| 4                             | 10 ms                                       | D               | S | U | U | D | D | D | D | D | D |
| 5                             | 10 ms                                       | D               | S | U | D | D | D | D | D | D | D |
| 6                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | D |

According to Figure 4.2-1, one radio frame is configured by 10 subframes, which consist of Uplink-subframe, Downlink-subframe and Special subframe. For TDD-LTE, the Duty Cycle should be calculated on Uplink-subframes and Special subframes, due to Special subframe containing both Uplink transmissions. So for one radio frame, Duty Cycle can be calculated with formula as below. The count of Uplink subframes are according to Table 4.2-2:

$$\text{Duty cycle} = (30720Ts \cdot \text{Ups} + \text{Uplink Component} \cdot \text{Specials}) / (307200Ts)$$

About the uplink component of Special subframes, we can figure out by Table 4.2-1:

$$\text{Uplink Component} = \text{UpPTS}$$

In conclusion, for the TDD LTE B38/41, Duty Cycle can be calculated with formula as below. All these sets are ok when we test, or we can set as below.

$$\text{Duty cycle} = [(30720Ts \cdot \text{Ups}) + \text{UpPTS} \cdot \text{Specials}] / (307200Ts)$$

And we can get different Duty cycles under different configurations:

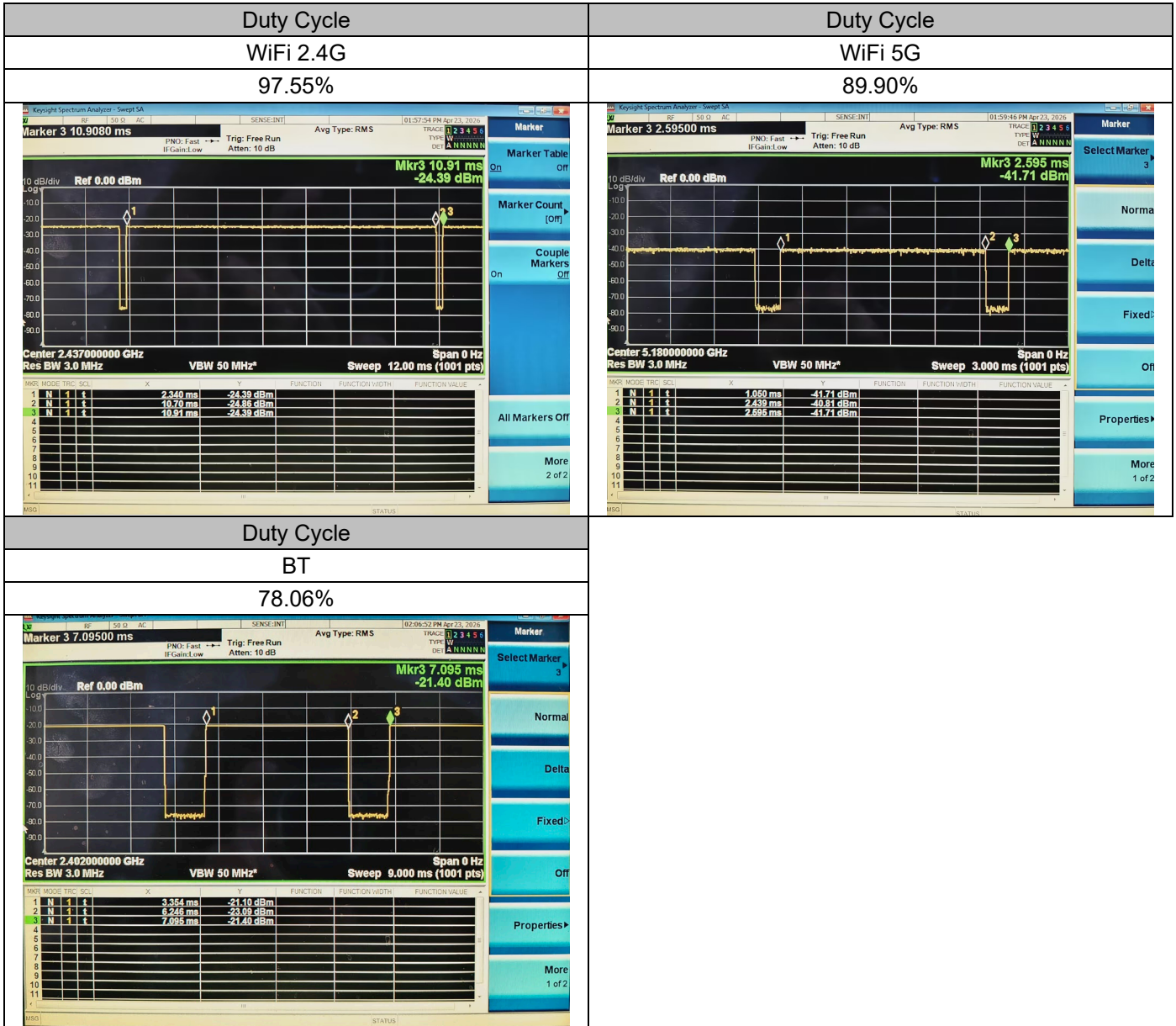
| Uplink-downlink configuration | Subframe number |   |   | Configuration of special subframe |                   |                                  |                   |                                    |                   |                                  |                   |
|-------------------------------|-----------------|---|---|-----------------------------------|-------------------|----------------------------------|-------------------|------------------------------------|-------------------|----------------------------------|-------------------|
|                               |                 |   |   | Normal cyclic prefix in downlink  |                   |                                  |                   | Extended cyclic prefix in downlink |                   |                                  |                   |
|                               |                 |   |   | Normal cyclic prefix in uplink    |                   | Extended cyclic prefix in uplink |                   | Normal cyclic prefix in uplink     |                   | Extended cyclic prefix in uplink |                   |
|                               | D               | S | U | configuration 0-4                 | configuration 5-9 | configuration 0-4                | configuration 5-9 | configuration 0-3                  | configuration 4-7 | configuration 0-3                | configuration 4-7 |
| 0                             | 2               | 2 | 6 | 61.43%                            | 62.85%            | 61.67%                           | 63.33%            | 61.43%                             | 62.85%            | 61.67%                           | 63.33%            |
| 1                             | 4               | 2 | 4 | 41.43%                            | 42.85%            | 41.67%                           | 43.33%            | 41.43%                             | 42.85%            | 41.67%                           | 43.33%            |
| 2                             | 6               | 2 | 2 | 21.43%                            | 22.85%            | 21.67%                           | 23.33%            | 21.43%                             | 22.85%            | 21.67%                           | 23.33%            |
| 3                             | 6               | 1 | 3 | 30.71%                            | 31.43%            | 30.83%                           | 31.67%            | 30.71%                             | 31.43%            | 30.83%                           | 31.67%            |
| 4                             | 7               | 1 | 2 | 20.71%                            | 21.43%            | 20.83%                           | 21.67%            | 20.71%                             | 21.43%            | 20.83%                           | 21.67%            |
| 5                             | 8               | 1 | 1 | 10.71%                            | 11.43%            | 10.83%                           | 11.67%            | 10.71%                             | 11.43%            | 10.83%                           | 11.67%            |
| 6                             | 3               | 2 | 5 | 51.43%                            | 52.85%            | 51.67%                           | 53.33%            | 51.43%                             | 52.85%            | 51.67%                           | 53.33%            |

For TDD LTE, SAR should be tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7 for Frame structure type 2.

## 5.2.4 WIFI TEST CONFIGURATION

For BT / WLAN SAR testing, BT/ WLAN engineering testing software installed on the DUT can provide continuous transmitting RF signal.

For WiFi SAR testing, a communication link is set up with the test mode software for WiFi mode test. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. The RF signal utilized in SAR measurement has 100% duty cycle and its crest factor is 1. The test procedures in KDB 248227 D01 are applied.



#### 5.2.4.1 2.4G SAR Test Requirements

##### 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8$  W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is  $> 0.8$  W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is  $> 1.2$  W/kg, SAR is required for the third channel; i.e., all channels require testing.

##### 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied. SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) 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.

##### SAR Test Requirements for OFDM configurations

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

#### 5.2.4.2 5G SAR Test Requirements

##### ✧ U-NII-1 and U-NII-2A Band

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is  $\leq 1.2$  W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.

##### ✧ U-NII-2C, U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification.

Unless band gap channels are permanently disabled, they must be considered for SAR testing.

To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels.<sup>11</sup> When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

#### 5.2.4.3 OFDM transmission mode and SAR test channel selection

For the 2.4GHz and 5GHz bands, when the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations (for example 802.11a, 802.11n and 802.11ac, or 802.11g and 802.11n, with the same channel bandwidth, modulation, and data rate, etc.), the lower order 802.11 mode (i.e. 802.11a then 802.11n and 802.11ac, or 802.11g then 802.11n) is used for SAR measurement. When the maximum output power is the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

#### 5.2.4.4 Initial test configuration procedure

For OFDM, in both 2.4GHz and 5GHz bands, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, and lowest data rate. If the average RF output powers of the highest identical transmission modes are within 0.25 dB of each other, mid channel of the transmission mode with highest average RF output powers is the initial test channel. Otherwise, the channel of the transmission mode with the highest average RF output power will be the initial test configuration.

When the reported SAR is  $\leq 0.8$  W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is  $\leq 1.2$  W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurement.

### 5.3 TEST POSITION

#### 5.3.1 HEAD TEST CONFIGURATION

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

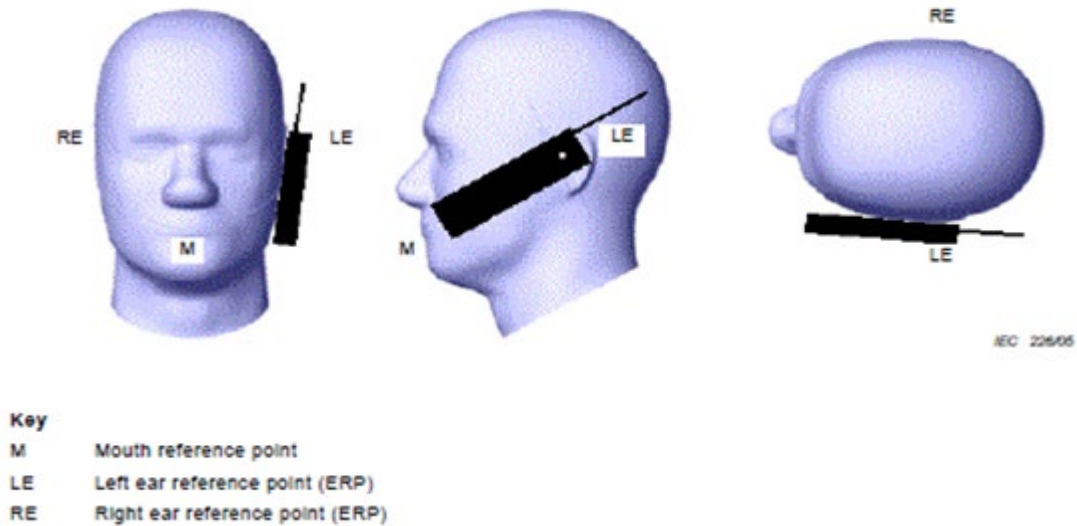


Figure 1 Cheek position of the wireless device on the left side of SAM

Note1: Cheek position of the wireless device on Right side of SAM also is similar to the left side represented above.

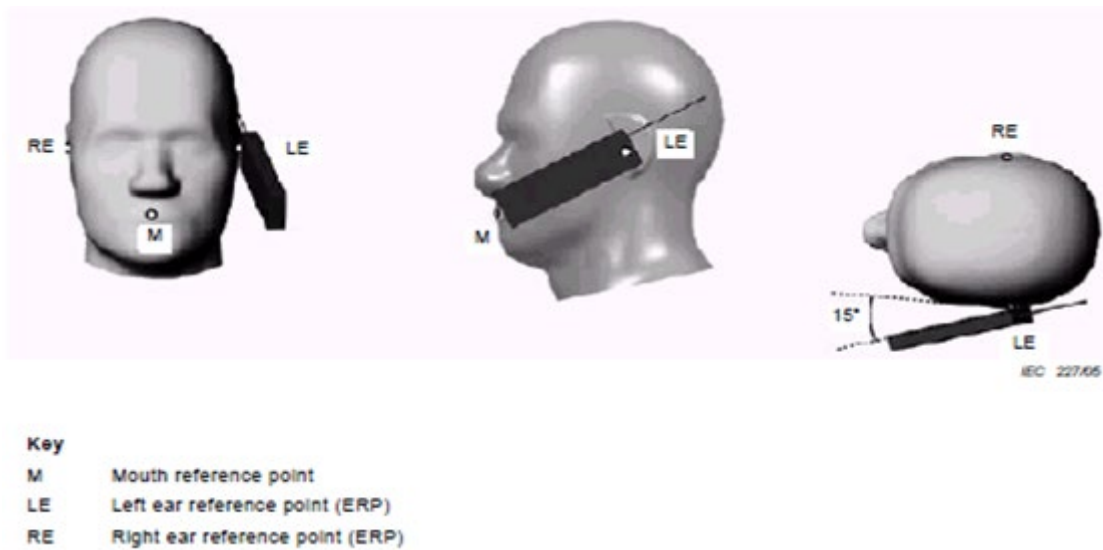


Figure 2 Tilt position of the wireless device on the left side of SAM

Note2: Tilt position of the wireless device on Right side of SAM also is similar to the left side represented above.

### 5.3.2 BODY-WORN TEST CONFIGURATION

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. The distance between the device and the phantom was kept 15mm.

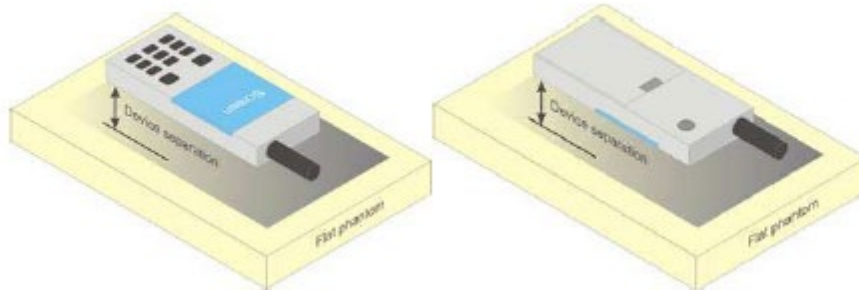


Figure 3 Test positions for body-worn device

### 5.3.3 HOTSPOT TEST CONFIGURATION

Per FCC KDB 941225D06, the SAR test separation distance for hotspot mode is determined according to device form factor. When the overall length and width of a device is  $> 9\text{cm} \times 5\text{cm}$ , a test separation distance of 10mm is required for hotspot mode SAR measurements. A test separation distance of 5mm or less is required for smaller devices. Hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25mm from that surface or edge; for the data modes, wireless technologies and frequency bands supporting hotspot mode. The SAR results are used to determine simultaneous transmission SAR test exclusion for hotspot mode; otherwise, simultaneous transmission SAR measurement is required.

### 5.3.4 PRODUCT SPECIFIC 10-G SAR TEST CONFIGURATION

Per KDB 648474 D04, for smart phones with a display diagonal dimension  $> 15.0\text{cm}$  or an overall diagonal dimension  $> 16.0\text{cm}$  that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as “Phablet”. The UMPC mini-tablets procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at  $\leq 25\text{mm}$  from that surface or edge, in direct contact with a flat phantom, for product specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, product specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR  $> 1.2\text{W/kg}$ ; 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  $1.2\text{ W/kg}$  SAR test reduction threshold.

The length of the overall diagonal dimension of the EUT is  $177\text{mm} > 160\text{mm}$ .

The location of the antenna inside EUT is as below:

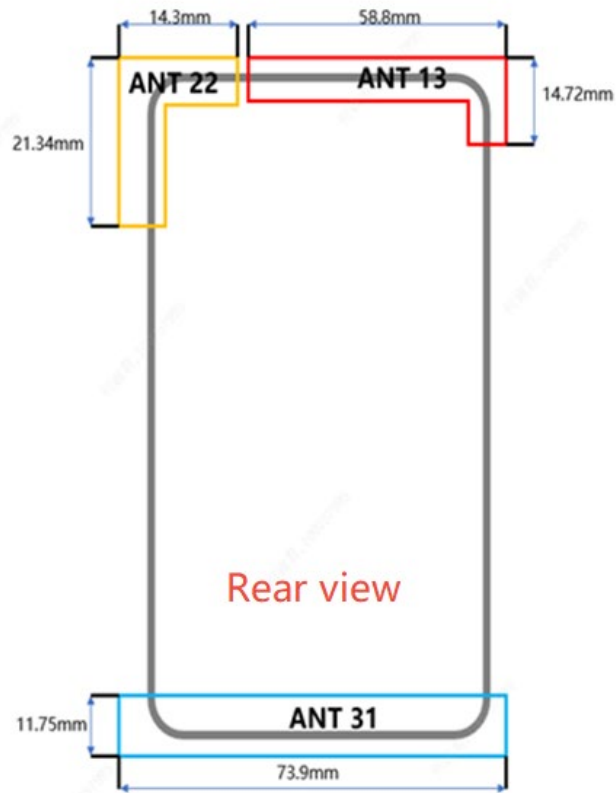


Figure: The location of the antennas

## 5.4 RECEIVER DETECTION MECHANISM SPECIFICATION

| DSI  | Test conditions   | Test scenario             | Antenna | Test surface |
|------|-------------------|---------------------------|---------|--------------|
| DSI5 | Receiver on       | Head Standalone           | All Ant | Head         |
| DSI6 | Receiver off      | Body Standalone           | All Ant | Body         |
| DSI7 | Receiver on+WLAN  | Head Simultaneous         | All Ant | Head         |
| DSI8 | Receiver off+WLAN | Body/Hotspot Simultaneous | All Ant | Body/Hotspot |

| Power level | Power scenario                               | WWAN_Ant 13#(dBm) |          |         |         |         |        |        |        |        |         |         |         |         |         |
|-------------|----------------------------------------------|-------------------|----------|---------|---------|---------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
|             |                                              | GSM 850           | GSM 1900 | UMTS B2 | UMTS B4 | UMTS B5 | LTE B2 | LTE B4 | LTE B5 | LTE B7 | LTE B13 | LTE B26 | LTE B38 | LTE B41 | LTE B66 |
| DSI5        | Head (Receiver on) Standalone                | 32                | 25.5     | 16      | 17.5    | 22.5    | 15     | 16     | 22.5   | 17.5   | 25      | 22.5    | 21      | 21      | 17      |
| DSI6        | Body (Receiver off) Standalone               | 34                | 28.5     | 20.5    | 22      | 25      | 20     | 21.5   | 25     | 18.5   | 25      | 25      | 21.5    | 21.5    | 21      |
| DSI7        | Head (Receiver on+WLAN) Simultaneous         | 30                | 24.5     | 15      | 16.5    | 21      | 13.5   | 15     | 21.5   | 16.5   | 25      | 21      | 20      | 20      | 16      |
| DSI8        | Body/Hospot (Receiver off+WLAN) Simultaneous | 34                | 26.5     | 18.5    | 19.5    | 25      | 18     | 20     | 25     | 17     | 25      | 25      | 20      | 20      | 19.5    |

| Power level | Power scenario                               | WWAN_Ant 31#(dBm) |          |         |         |         |        |        |        |        |         |         |         |         |         |
|-------------|----------------------------------------------|-------------------|----------|---------|---------|---------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
|             |                                              | GSM 850           | GSM 1900 | UMTS B2 | UMTS B4 | UMTS B5 | LTE B2 | LTE B4 | LTE B5 | LTE B7 | LTE B13 | LTE B26 | LTE B38 | LTE B41 | LTE B66 |
| DSI5        | Head (Receiver on) Standalone                | 34                | 30.5     | 25      | 25      | 25      | 25     | 25     | 25     | 24.5   | 25      | 24.5    | 25      | 24.5    | 25      |
| DSI6        | Body (Receiver off) Standalone               | 34                | 30.5     | 22      | 22      | 25      | 21.5   | 22.5   | 25     | 22.5   | 25      | 24.5    | 23.5    | 23      | 21.5    |
| DSI7        | Head (Receiver on+WLAN) Simultaneous         | 34                | 30.5     | 25      | 25      | 25      | 25     | 25     | 25     | 24.5   | 25      | 24.5    | 25      | 24.5    | 25      |
| DSI8        | Body/Hospot (Receiver off+WLAN) Simultaneous | 31                | 28.5     | 20.5    | 20      | 24.5    | 19.5   | 20.5   | 24.5   | 21     | 25      | 24      | 22      | 21.5    | 20      |

| Power level | Power scenario                         | WiFi 2.4G_Ant 22#(dBm) |          |            |            |             |             |    |    |
|-------------|----------------------------------------|------------------------|----------|------------|------------|-------------|-------------|----|----|
|             |                                        | 802.11 b               | 802.11 g | 802.11 n20 | 802.11 n40 | 802.11 ac20 | 802.11 ac40 | BT | LE |
| Level 1     | Head<br>(Receiver on)<br>Standalone    | 18                     | 18       | 18         | 17         | 17          | 16          | 9  | 8  |
| Level 2     | Head<br>(Receiver on)<br>Simultaneous  | 17                     | 17       | 17         | 17         | 17          | 16          | 9  | 8  |
| Level 3     | Body<br>(Receiver off)<br>Standalone   | 20                     | 19       | 18         | 17         | 17          | 16          | 9  | 8  |
| Level 4     | Body<br>(Receiver off)<br>Simultaneous | 20                     | 19       | 18         | 17         | 17          | 16          | 9  | 8  |

| Power level | Power scenario                                | WiFi 5G_Ant 22# (dBm)<br>UNII_1 (5.15-5.25GHz) |            |            |             |             |             | WiFi 5G_Ant 22# (dBm)<br>UNII_2A (5.25-5.35GHz) |            |            |             |             |             |
|-------------|-----------------------------------------------|------------------------------------------------|------------|------------|-------------|-------------|-------------|-------------------------------------------------|------------|------------|-------------|-------------|-------------|
|             |                                               | 802.11 a                                       | 802.11 n20 | 802.11 n40 | 802.11 ac20 | 802.11 ac40 | 802.11 ac80 | 802.11 a                                        | 802.11 n20 | 802.11 n40 | 802.11 ac20 | 802.11 ac40 | 802.11 ac80 |
| Level 1     | Head<br>(Receiver on)<br>Standalone           | 18                                             | 18         | 18         | 18          | 17.5        | 17          | 19                                              | 19         | 18         | 18          | 17.5        | 17          |
| Level 2     | Head<br>(Receiver on)<br>Simultaneous         | 17                                             | 17         | 17         | 17          | 17          | 17          | 18                                              | 18         | 18         | 18          | 17.5        | 17          |
| Level 3     | Body<br>(Receiver off)<br>Standalone          | 19                                             | 19         | 18         | 18          | 17.5        | 17          | 19                                              | 19         | 18         | 18          | 17.5        | 17          |
| Level 4     | Body/Hospot<br>(Receiver off)<br>Simultaneous | 19                                             | 19         | 18         | 18          | 17.5        | 17          | 19                                              | 19         | 18         | 18          | 17.5        | 17          |

| Power level | Power scenario                                | WiFi 5G_Ant 22# (dBm)<br>UNII_2C (5.47-5.725GHz) |            |            |             |             |             | WiFi 5G_Ant 22# (dBm)<br>UNII_3 (5.725-5.85GHz) |            |            |             |             |             |
|-------------|-----------------------------------------------|--------------------------------------------------|------------|------------|-------------|-------------|-------------|-------------------------------------------------|------------|------------|-------------|-------------|-------------|
|             |                                               | 802.11 a                                         | 802.11 n20 | 802.11 n40 | 802.11 ac20 | 802.11 ac40 | 802.11 ac80 | 802.11 a                                        | 802.11 n20 | 802.11 n40 | 802.11 ac20 | 802.11 ac40 | 802.11 ac80 |
| Level 1     | Head<br>(Receiver on)<br>Standalone           | 18                                               | 18         | 18         | 18          | 17.5        | 17          | 19                                              | 19         | 18         | 18          | 17.5        | 17          |
| Level 2     | Head<br>(Receiver on)<br>Simultaneous         | 17                                               | 17         | 17         | 17          | 17          | 17          | 18                                              | 18         | 18         | 18          | 17.5        | 17          |
| Level 3     | Body<br>(Receiver off)<br>Standalone          | 19                                               | 19         | 18         | 18          | 17.5        | 17          | 16                                              | 16         | 16         | 16          | 16          | 16          |
| Level 4     | Body/Hospot<br>(Receiver off)<br>Simultaneous | 18                                               | 18         | 18         | 18          | 17.5        | 17          | 14                                              | 14         | 14         | 14          | 14          | 14          |

## **6. TEST RESULT**

### **6.1 CONDUCTED POWER RESULTS**

The conducted power measurement result please refer to Appendix E.

## 6.2 SAR TEST RESULTS

### General Notes:

- 1) Per KDB447498 D01, all measurement SAR results are scaled to the maximum tune-up tolerance limit to demonstrate compliant.
- 2) Per KDB447498 D01, 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. When the maximum output power variation across the required test channels is  $> \frac{1}{2}$  dB, instead of the middle channel, the highest output power channel must be used.
- 3) Per KDB865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$  W/kg; if the deviation among the repeated measurement is  $\leq 20\%$ , and the measured SAR  $< 1.45$  W/kg, only one repeated measurement is required.
- 4) Per KDB941225 D06, the DUT Dimension is bigger than 9 cm x 5 cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
- 5) Per KDB648474 D04, SAR is evaluated without a headset connected to the device. When the standalone reported body-worn SAR is  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset are required.
- 6) Per KDB865664 D02, SAR plot is only required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination; Plots are also required when the measured SAR is  $> 1.5$  W/kg, or  $> 7.0$  W/kg for occupational exposure. The published RF exposure KDB procedures may require additional plots; for example, to support SAR to peak location separation ratio test exclusion and/or volume scan post-processing.

### GSM Notes:

- 1) Per KDB648474 D04, body-worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
- 2) Per KDB941225 D01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data 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.

### UMTS Notes:

Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

### LTE notes:

- 1) The LTE test configurations are determined according to KDB941225 D05 SAR for LTE Devices. The general test procedures used for SAR testing can be found in Section 7.1.3.
- 2) A-MPR was disabled for all SAR test by setting NS\_01 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

### WLAN Notes:

- 1) For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When the reported SAR of the initial test position is  $\leq 0.4$  W/kg, further SAR measurement is not required for the other (remaining) test positions. Otherwise, SAR is evaluated at the subsequent highest peak SAR position until the reported SAR result is  $\leq 0.8$  W/kg or all test positions are measured.
- 2) Justification for test configurations for WLAN per KDB Publication 248227 for 2.4GHz WIFI single transmission chain operations, the highest measured maximum output power Channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4GHz 802.11g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.1.5 for more information.
- 3) Justification for test configurations for WLAN per KDB Publication 248227 for 5GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed power. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2W/kg. See Section 7.1.5 for more information.

## 6.2.1 SAR MEASUREMENT RESULT OF HEAD

### 1. Head SAR test results of GSM

DSI5

| Test No. | Band     | Mode | Channel | Test Position | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|------|---------|---------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| G01      | GSM 850  | GSM  | 190     | Right Cheek   | Ant 13 | 1   | 32.00                 | 31.66                 | -0.02            | <b>0.531</b>  | <b>0.349</b>   | <b>0.574</b>           |
| G02      | GSM 850  | GSM  | 190     | Right Tilted  | Ant 13 | 1   | 32.00                 | 31.66                 | -0.01            | 0.502         | 0.293          | 0.543                  |
| G03      | GSM 850  | GSM  | 190     | Left Cheek    | Ant 13 | 1   | 32.00                 | 31.66                 | 0.08             | 0.434         | 0.287          | 0.469                  |
| G04      | GSM 850  | GSM  | 190     | Left Tilted   | Ant 13 | 1   | 32.00                 | 31.66                 | 0.06             | 0.436         | 0.259          | 0.472                  |
| G05      | GSM 850  | GSM  | 128     | Right Cheek   | Ant 13 | 1   | 32.00                 | 31.64                 | 0.03             | 0.525         | 0.346          | 0.570                  |
| G06      | GSM 850  | GSM  | 251     | Right Cheek   | Ant 13 | 1   | 32.00                 | 31.61                 | 0.13             | 0.506         | 0.343          | 0.554                  |
| G07      | GSM 850  | GSM  | 190     | Right Cheek   | Ant 13 | 2   | 32.00                 | 31.66                 | 0.05             | 0.521         | 0.349          | 0.563                  |
| G09      | GSM 850  | GSM  | 190     | Right Cheek   | Ant 31 | 1   | 34.00                 | 32.42                 | -0.09            | 0.144         | 0.106          | 0.207                  |
| G10      | GSM 850  | GSM  | 190     | Right Tilted  | Ant 31 | 1   | 34.00                 | 32.42                 | 0.04             | 0.079         | 0.063          | 0.113                  |
| G11      | GSM 850  | GSM  | 190     | Left Cheek    | Ant 31 | 1   | 34.00                 | 32.42                 | 0.08             | 0.180         | 0.133          | 0.259                  |
| G12      | GSM 850  | GSM  | 190     | Left Tilted   | Ant 31 | 1   | 34.00                 | 32.42                 | 0.16             | 0.105         | 0.082          | 0.151                  |
| G13      | GSM 850  | GSM  | 128     | Left Cheek    | Ant 31 | 1   | 34.00                 | 32.36                 | -0.05            | 0.168         | 0.116          | 0.245                  |
| G14      | GSM 850  | GSM  | 251     | Left Cheek    | Ant 31 | 1   | 34.00                 | 32.41                 | 0.07             | <b>0.216</b>  | <b>0.162</b>   | <b>0.311</b>           |
| G15      | GSM 850  | GSM  | 251     | Left Cheek    | Ant 31 | 2   | 34.00                 | 32.41                 | 0.01             | 0.210         | 0.157          | 0.303                  |
| G17      | GSM 1900 | GSM  | 512     | Right Cheek   | Ant 13 | 1   | 25.50                 | 25.48                 | 0.03             | 0.353         | 0.178          | 0.355                  |
| G18      | GSM 1900 | GSM  | 512     | Right Tilted  | Ant 13 | 1   | 25.50                 | 25.48                 | -0.09            | <b>0.445</b>  | <b>0.222</b>   | <b>0.447</b>           |
| G19      | GSM 1900 | GSM  | 512     | Left Cheek    | Ant 13 | 1   | 25.50                 | 25.48                 | 0.15             | 0.233         | 0.126          | 0.234                  |
| G20      | GSM 1900 | GSM  | 512     | Left Tilted   | Ant 13 | 1   | 25.50                 | 25.48                 | 0.06             | 0.318         | 0.171          | 0.319                  |
| G21      | GSM 1900 | GSM  | 661     | Right Tilted  | Ant 13 | 1   | 25.50                 | 25.43                 | 0.1              | 0.417         | 0.205          | 0.424                  |
| G22      | GSM 1900 | GSM  | 810     | Right Tilted  | Ant 13 | 1   | 25.50                 | 25.31                 | -0.08            | 0.424         | 0.208          | 0.443                  |
| G23      | GSM 1900 | GSM  | 512     | Right Tilted  | Ant 13 | 2   | 25.50                 | 25.48                 | 0.03             | 0.440         | 0.222          | 0.442                  |
| G25      | GSM 1900 | GSM  | 661     | Right Cheek   | Ant 31 | 1   | 30.50                 | 29.16                 | 0.02             | 0.028         | 0.017          | 0.038                  |
| G26      | GSM 1900 | GSM  | 661     | Right Tilted  | Ant 31 | 1   | 30.50                 | 29.16                 | -0.09            | 0.028         | 0.016          | 0.038                  |
| G27      | GSM 1900 | GSM  | 661     | Left Cheek    | Ant 31 | 1   | 30.50                 | 29.16                 | 0.11             | 0.061         | 0.034          | 0.083                  |
| G28      | GSM 1900 | GSM  | 661     | Left Tilted   | Ant 31 | 1   | 30.50                 | 29.16                 | 0.03             | 0.021         | 0.012          | 0.029                  |
| G29      | GSM 1900 | GSM  | 512     | Left Cheek    | Ant 31 | 1   | 30.50                 | 29.09                 | 0.07             | 0.062         | 0.035          | 0.086                  |
| G30      | GSM 1900 | GSM  | 810     | Left Cheek    | Ant 31 | 1   | 30.50                 | 28.97                 | -0.03            | 0.057         | 0.034          | 0.081                  |
| G31      | GSM 1900 | GSM  | 512     | Left Cheek    | Ant 31 | 2   | 30.50                 | 29.09                 | -0.04            | <b>0.068</b>  | <b>0.038</b>   | <b>0.094</b>           |

Note: The value with boldface is the maximum SAR Value of each test band.

## 2. Head SAR test results of UMTS

### DSI5

| Test No. | Band    | Mode     | Channel | Test Position | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|---------|---------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| U01      | UMTS B2 | RMC12.2K | 9400    | Right Cheek   | Ant 13 | 1   | 16.00                 | 15.41                 | 0.18             | 0.512         | 0.257          | 0.587                  |
| U02      | UMTS B2 | RMC12.2K | 9400    | Right Tilted  | Ant 13 | 1   | 16.00                 | 15.41                 | 0.04             | 0.720         | 0.358          | 0.825                  |
| U03      | UMTS B2 | RMC12.2K | 9400    | Left Cheek    | Ant 13 | 1   | 16.00                 | 15.41                 | 0.06             | 0.394         | 0.217          | 0.451                  |
| U04      | UMTS B2 | RMC12.2K | 9400    | Left Tilted   | Ant 13 | 1   | 16.00                 | 15.41                 | -0.09            | 0.526         | 0.286          | 0.603                  |
| U05      | UMTS B2 | RMC12.2K | 9262    | Right Tilted  | Ant 13 | 1   | 16.00                 | 15.39                 | -0.02            | <b>0.788</b>  | <b>0.383</b>   | <b>0.907</b>           |
| U06      | UMTS B2 | RMC12.2K | 9538    | Right Tilted  | Ant 13 | 1   | 16.00                 | 15.28                 | 0.05             | 0.643         | 0.310          | 0.759                  |
| U07      | UMTS B2 | RMC12.2K | 9262    | Right Tilted  | Ant 13 | 2   | 16.00                 | 15.39                 | 0.13             | 0.781         | 0.378          | 0.899                  |
| U09      | UMTS B2 | RMC12.2K | 9400    | Right Cheek   | Ant 31 | 1   | 25.00                 | 24.26                 | -0.09            | 0.131         | 0.086          | 0.155                  |
| U10      | UMTS B2 | RMC12.2K | 9400    | Right Tilted  | Ant 31 | 1   | 25.00                 | 24.26                 | 0.12             | 0.101         | 0.064          | 0.120                  |
| U11      | UMTS B2 | RMC12.2K | 9400    | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.26                 | 0.03             | 0.182         | 0.110          | 0.216                  |
| U12      | UMTS B2 | RMC12.2K | 9400    | Left Tilted   | Ant 31 | 1   | 25.00                 | 24.26                 | 0.11             | 0.071         | 0.043          | 0.084                  |
| U13      | UMTS B2 | RMC12.2K | 9262    | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.23                 | -0.04            | 0.185         | 0.112          | 0.221                  |
| U14      | UMTS B2 | RMC12.2K | 9538    | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.19                 | 0.07             | <b>0.192</b>  | <b>0.119</b>   | <b>0.231</b>           |
| U15      | UMTS B2 | RMC12.2K | 9538    | Left Cheek    | Ant 31 | 2   | 25.00                 | 24.19                 | 0.08             | 0.187         | 0.114          | 0.225                  |
| U17      | UMTS B4 | RMC12.2K | 1413    | Right Cheek   | Ant 13 | 1   | 17.50                 | 16.71                 | 0.02             | 0.631         | 0.301          | 0.757                  |
| U18      | UMTS B4 | RMC12.2K | 1413    | Right Tilted  | Ant 13 | 1   | 17.50                 | 16.71                 | 0.09             | <b>0.733</b>  | <b>0.354</b>   | <b>0.879</b>           |
| U19      | UMTS B4 | RMC12.2K | 1413    | Left Cheek    | Ant 13 | 1   | 17.50                 | 16.71                 | 0.09             | 0.289         | 0.148          | 0.347                  |
| U20      | UMTS B4 | RMC12.2K | 1413    | Left Tilted   | Ant 13 | 1   | 17.50                 | 16.71                 | 0.12             | 0.377         | 0.189          | 0.452                  |
| U21      | UMTS B4 | RMC12.2K | 1312    | Right Tilted  | Ant 13 | 1   | 17.50                 | 16.60                 | -0.03            | 0.592         | 0.281          | 0.728                  |
| U22      | UMTS B4 | RMC12.2K | 1513    | Right Tilted  | Ant 13 | 1   | 17.50                 | 16.64                 | 0.11             | 0.706         | 0.338          | 0.861                  |
| U23      | UMTS B4 | RMC12.2K | 1413    | Right Tilted  | Ant 13 | 2   | 17.50                 | 16.71                 | -0.05            | 0.721         | 0.342          | 0.865                  |
| U25      | UMTS B4 | RMC12.2K | 1413    | Right Cheek   | Ant 31 | 1   | 25.00                 | 24.43                 | -0.11            | 0.079         | 0.056          | 0.090                  |
| U26      | UMTS B4 | RMC12.2K | 1413    | Right Tilted  | Ant 31 | 1   | 25.00                 | 24.43                 | 0.02             | 0.046         | 0.025          | 0.053                  |
| U27      | UMTS B4 | RMC12.2K | 1413    | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.43                 | -0.01            | 0.130         | 0.086          | 0.148                  |
| U28      | UMTS B4 | RMC12.2K | 1413    | Left Tilted   | Ant 31 | 1   | 25.00                 | 24.43                 | 0.09             | 0.040         | 0.023          | 0.046                  |
| U29      | UMTS B4 | RMC12.2K | 1312    | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.37                 | 0.08             | 0.121         | 0.082          | 0.140                  |
| U30      | UMTS B4 | RMC12.2K | 1513    | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.26                 | -0.15            | <b>0.142</b>  | <b>0.093</b>   | <b>0.168</b>           |
| U31      | UMTS B4 | RMC12.2K | 1513    | Left Cheek    | Ant 31 | 2   | 25.00                 | 24.26                 | 0.01             | 0.135         | 0.089          | 0.160                  |
| U33      | UMTS B5 | RMC12.2K | 4182    | Right Cheek   | Ant 13 | 1   | 22.50                 | 21.96                 | 0.05             | 0.550         | 0.345          | 0.623                  |
| U34      | UMTS B5 | RMC12.2K | 4182    | Right Tilted  | Ant 13 | 1   | 22.50                 | 21.96                 | -0.13            | 0.520         | 0.292          | 0.589                  |
| U35      | UMTS B5 | RMC12.2K | 4182    | Left Cheek    | Ant 13 | 1   | 22.50                 | 21.96                 | 0.06             | 0.507         | 0.323          | 0.574                  |
| U36      | UMTS B5 | RMC12.2K | 4182    | Left Tilted   | Ant 13 | 1   | 22.50                 | 21.96                 | 0.01             | 0.495         | 0.296          | 0.561                  |
| U37      | UMTS B5 | RMC12.2K | 4132    | Right Cheek   | Ant 13 | 1   | 22.50                 | 21.93                 | 0.17             | 0.558         | 0.347          | 0.636                  |
| U38      | UMTS B5 | RMC12.2K | 4233    | Right Cheek   | Ant 13 | 1   | 22.50                 | 21.92                 | 0.02             | 0.529         | 0.333          | 0.605                  |
| U39      | UMTS B5 | RMC12.2K | 4132    | Right Cheek   | Ant 13 | 2   | 22.50                 | 21.92                 | -0.06            | <b>0.577</b>  | <b>0.363</b>   | <b>0.659</b>           |
| U41      | UMTS B5 | RMC12.2K | 4182    | Right Cheek   | Ant 31 | 1   | 25.00                 | 24.06                 | 0.08             | 0.131         | 0.100          | 0.163                  |
| U42      | UMTS B5 | RMC12.2K | 4182    | Right Tilted  | Ant 31 | 1   | 25.00                 | 24.06                 | 0.02             | 0.080         | 0.064          | 0.099                  |
| U43      | UMTS B5 | RMC12.2K | 4182    | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.06                 | 0.09             | 0.146         | 0.115          | 0.181                  |
| U44      | UMTS B5 | RMC12.2K | 4182    | Left Tilted   | Ant 31 | 1   | 25.00                 | 24.06                 | -0.07            | 0.093         | 0.075          | 0.116                  |
| U45      | UMTS B5 | RMC12.2K | 4132    | Left Cheek    | Ant 31 | 1   | 25.00                 | 23.95                 | 0.15             | 0.140         | 0.107          | 0.178                  |
| U46      | UMTS B5 | RMC12.2K | 4233    | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.03                 | 0.03             | <b>0.193</b>  | <b>0.147</b>   | <b>0.241</b>           |
| U47      | UMTS B5 | RMC12.2K | 4233    | Left Cheek    | Ant 31 | 2   | 25.00                 | 24.03                 | 0.06             | 0.182         | 0.139          | 0.228                  |

Note: The value with boldface is the maximum SAR Value of each test band.

### 3. Head SAR test results of LTE

#### DSI5

| Test No. | Band   | Mode    | Channel | RB | offset | Test Position | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------|---------|---------|----|--------|---------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L01      | LTE B2 | QPSK20M | 19100   | 1  | 0      | Right Cheek   | Ant 13 | 1   | 15.00                 | 14.71                 | 0.02             | 0.526         | 0.249          | 0.562                  |
| L02      | LTE B2 | QPSK20M | 19100   | 1  | 0      | Right Tilted  | Ant 13 | 1   | 15.00                 | 14.71                 | -0.03            | <b>0.657</b>  | <b>0.310</b>   | <b>0.702</b>           |
| L03      | LTE B2 | QPSK20M | 19100   | 1  | 0      | Left Cheek    | Ant 13 | 1   | 15.00                 | 14.71                 | 0.16             | 0.325         | 0.164          | 0.347                  |
| L04      | LTE B2 | QPSK20M | 19100   | 1  | 0      | Left Tilted   | Ant 13 | 1   | 15.00                 | 14.71                 | 0.08             | 0.451         | 0.225          | 0.482                  |
| L05      | LTE B2 | QPSK20M | 19100   | 50 | 0      | Right Cheek   | Ant 13 | 1   | 15.00                 | 14.34                 | -0.09            | 0.412         | 0.198          | 0.480                  |
| L06      | LTE B2 | QPSK20M | 19100   | 50 | 0      | Right Tilted  | Ant 13 | 1   | 15.00                 | 14.34                 | 0.04             | 0.524         | 0.250          | 0.610                  |
| L07      | LTE B2 | QPSK20M | 19100   | 50 | 0      | Left Cheek    | Ant 13 | 1   | 15.00                 | 14.34                 | 0.11             | 0.259         | 0.131          | 0.302                  |
| L08      | LTE B2 | QPSK20M | 19100   | 50 | 0      | Left Tilted   | Ant 13 | 1   | 15.00                 | 14.34                 | 0.05             | 0.370         | 0.184          | 0.431                  |
| L09      | LTE B2 | QPSK20M | 18900   | 1  | 0      | Right Tilted  | Ant 13 | 1   | 15.00                 | 14.62                 | -0.01            | 0.557         | 0.263          | 0.608                  |
| L10      | LTE B2 | QPSK20M | 18700   | 1  | 99     | Right Tilted  | Ant 13 | 1   | 15.00                 | 14.13                 | -0.06            | 0.522         | 0.247          | 0.638                  |
| L11      | LTE B2 | QPSK20M | 18700   | 50 | 50     | Right Tilted  | Ant 13 | 1   | 15.00                 | 13.97                 | 0.08             | 0.550         | 0.260          | 0.697                  |
| L12      | LTE B2 | QPSK20M | 18900   | 50 | 0      | Right Tilted  | Ant 13 | 1   | 15.00                 | 14.31                 | -0.02            | 0.532         | 0.251          | 0.624                  |
| L13      | LTE B2 | QPSK20M | 19100   | 1  | 0      | Right Tilted  | Ant 13 | 2   | 15.00                 | 14.71                 | 0.04             | 0.638         | 0.305          | 0.682                  |
| L15      | LTE B2 | QPSK20M | 18900   | 1  | 0      | Right Cheek   | Ant 31 | 1   | 25.00                 | 24.14                 | 0.05             | 0.128         | 0.084          | 0.156                  |
| L16      | LTE B2 | QPSK20M | 18900   | 1  | 0      | Right Tilted  | Ant 31 | 1   | 25.00                 | 24.14                 | 0.13             | 0.104         | 0.065          | 0.127                  |
| L17      | LTE B2 | QPSK20M | 18900   | 1  | 0      | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.14                 | 0.04             | 0.157         | 0.096          | 0.191                  |
| L18      | LTE B2 | QPSK20M | 18900   | 1  | 0      | Left Tilted   | Ant 31 | 1   | 25.00                 | 24.14                 | 0.09             | 0.085         | 0.052          | 0.103                  |
| L19      | LTE B2 | QPSK20M | 18900   | 50 | 25     | Right Cheek   | Ant 31 | 1   | 24.00                 | 22.95                 | -0.06            | 0.099         | 0.064          | 0.126                  |
| L20      | LTE B2 | QPSK20M | 18900   | 50 | 25     | Right Tilted  | Ant 31 | 1   | 24.00                 | 22.95                 | 0.11             | 0.081         | 0.051          | 0.103                  |
| L21      | LTE B2 | QPSK20M | 18900   | 50 | 25     | Left Cheek    | Ant 31 | 1   | 24.00                 | 22.95                 | 0.08             | 0.133         | 0.082          | 0.169                  |
| L22      | LTE B2 | QPSK20M | 18900   | 50 | 25     | Left Tilted   | Ant 31 | 1   | 24.00                 | 22.95                 | -0.12            | 0.070         | 0.043          | 0.089                  |
| L23      | LTE B2 | QPSK20M | 18700   | 1  | 0      | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.04                 | 0.03             | 0.144         | 0.089          | 0.180                  |
| L24      | LTE B2 | QPSK20M | 19100   | 1  | 0      | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.05                 | 0.09             | <b>0.168</b>  | <b>0.103</b>   | <b>0.209</b>           |
| L25      | LTE B2 | QPSK20M | 18700   | 50 | 25     | Left Cheek    | Ant 31 | 1   | 24.00                 | 22.84                 | -0.08            | 0.122         | 0.074          | 0.159                  |
| L26      | LTE B2 | QPSK20M | 19100   | 50 | 0      | Left Cheek    | Ant 31 | 1   | 24.00                 | 22.88                 | 0.16             | 0.133         | 0.082          | 0.172                  |
| L27      | LTE B2 | QPSK20M | 19100   | 1  | 0      | Left Cheek    | Ant 31 | 2   | 25.00                 | 24.05                 | 0.18             | 0.159         | 0.097          | 0.198                  |
| L29      | LTE B4 | QPSK20M | 20175   | 1  | 99     | Right Cheek   | Ant 13 | 1   | 16.00                 | 15.89                 | 0.05             | 0.446         | 0.218          | 0.457                  |
| L30      | LTE B4 | QPSK20M | 20175   | 1  | 99     | Right Tilted  | Ant 13 | 1   | 16.00                 | 15.89                 | 0.01             | 0.590         | 0.282          | 0.605                  |
| L31      | LTE B4 | QPSK20M | 20175   | 1  | 99     | Left Cheek    | Ant 13 | 1   | 16.00                 | 15.89                 | -0.08            | 0.315         | 0.162          | 0.323                  |
| L32      | LTE B4 | QPSK20M | 20175   | 1  | 99     | Left Tilted   | Ant 13 | 1   | 16.00                 | 15.89                 | 0.14             | 0.418         | 0.214          | 0.429                  |
| L33      | LTE B4 | QPSK20M | 20300   | 50 | 50     | Right Cheek   | Ant 13 | 1   | 16.00                 | 15.78                 | 0.06             | 0.423         | 0.214          | 0.445                  |
| L34      | LTE B4 | QPSK20M | 20300   | 50 | 50     | Right Tilted  | Ant 13 | 1   | 16.00                 | 15.78                 | 0.08             | 0.589         | 0.276          | 0.620                  |
| L35      | LTE B4 | QPSK20M | 20300   | 50 | 50     | Left Cheek    | Ant 13 | 1   | 16.00                 | 15.78                 | -0.07            | 0.300         | 0.156          | 0.316                  |
| L36      | LTE B4 | QPSK20M | 20300   | 50 | 50     | Left Tilted   | Ant 13 | 1   | 16.00                 | 15.78                 | 0.15             | 0.409         | 0.209          | 0.430                  |
| L37      | LTE B4 | QPSK20M | 20050   | 1  | 99     | Right Tilted  | Ant 13 | 1   | 16.00                 | 15.80                 | 0.03             | 0.619         | 0.293          | 0.648                  |
| L38      | LTE B4 | QPSK20M | 20300   | 1  | 99     | Right Tilted  | Ant 13 | 1   | 16.00                 | 15.65                 | 0.18             | <b>0.624</b>  | <b>0.298</b>   | <b>0.676</b>           |
| L39      | LTE B4 | QPSK20M | 20050   | 50 | 50     | Right Tilted  | Ant 13 | 1   | 16.00                 | 15.61                 | 0.07             | 0.546         | 0.258          | 0.597                  |
| L40      | LTE B4 | QPSK20M | 20175   | 50 | 50     | Right Tilted  | Ant 13 | 1   | 16.00                 | 15.75                 | 0.09             | 0.519         | 0.243          | 0.550                  |
| L41      | LTE B4 | QPSK20M | 20300   | 1  | 99     | Right Tilted  | Ant 13 | 2   | 16.00                 | 15.65                 | -0.05            | 0.616         | 0.289          | 0.668                  |

| Test No. | Band   | Mode    | Channel | RB | offset | Test Position | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------|---------|---------|----|--------|---------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L43      | LTE B4 | QPSK20M | 20050   | 1  | 0      | Right Cheek   | Ant 31 | 1   | 25.00                 | 24.26                 | 0.05             | 0.059         | 0.039          | 0.069                  |
| L44      | LTE B4 | QPSK20M | 20050   | 1  | 0      | Right Tilted  | Ant 31 | 1   | 25.00                 | 24.26                 | -0.16            | 0.046         | 0.028          | 0.054                  |
| L45      | LTE B4 | QPSK20M | 20050   | 1  | 0      | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.26                 | 0.04             | 0.111         | 0.072          | 0.132                  |
| L46      | LTE B4 | QPSK20M | 20050   | 1  | 0      | Left Tilted   | Ant 31 | 1   | 25.00                 | 24.26                 | 0.11             | 0.054         | 0.021          | 0.064                  |
| L47      | LTE B4 | QPSK20M | 20175   | 50 | 50     | Right Cheek   | Ant 31 | 1   | 24.00                 | 23.63                 | -0.03            | 0.057         | 0.038          | 0.062                  |
| L48      | LTE B4 | QPSK20M | 20175   | 50 | 50     | Right Tilted  | Ant 31 | 1   | 24.00                 | 23.63                 | 0.09             | 0.046         | 0.027          | 0.050                  |
| L49      | LTE B4 | QPSK20M | 20175   | 50 | 50     | Left Cheek    | Ant 31 | 1   | 24.00                 | 23.63                 | 0.04             | 0.104         | 0.067          | 0.113                  |
| L50      | LTE B4 | QPSK20M | 20175   | 50 | 50     | Left Tilted   | Ant 31 | 1   | 24.00                 | 23.63                 | 0.11             | 0.040         | 0.028          | 0.044                  |
| L51      | LTE B4 | QPSK20M | 20175   | 1  | 0      | Left Cheek    | Ant 31 | 1   | 25.00                 | 23.99                 | 0.01             | <b>0.125</b>  | <b>0.077</b>   | <b>0.158</b>           |
| L52      | LTE B4 | QPSK20M | 20300   | 1  | 99     | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.00                 | 0.08             | 0.118         | 0.074          | 0.149                  |
| L53      | LTE B4 | QPSK20M | 20050   | 50 | 50     | Left Cheek    | Ant 31 | 1   | 24.00                 | 23.60                 | -0.05            | 0.114         | 0.071          | 0.125                  |
| L54      | LTE B4 | QPSK20M | 20300   | 50 | 50     | Left Cheek    | Ant 31 | 1   | 24.00                 | 23.58                 | 0.04             | 0.109         | 0.068          | 0.120                  |
| L55      | LTE B4 | QPSK20M | 20175   | 1  | 0      | Left Cheek    | Ant 31 | 2   | 25.00                 | 23.99                 | -0.19            | 0.115         | 0.073          | 0.145                  |
| L57      | LTE B5 | QPSK10M | 20600   | 1  | 0      | Right Cheek   | Ant 13 | 1   | 22.50                 | 22.08                 | 0.03             | 0.464         | 0.282          | 0.511                  |
| L58      | LTE B5 | QPSK10M | 20600   | 1  | 0      | Right Tilted  | Ant 13 | 1   | 22.50                 | 22.08                 | -0.05            | 0.493         | 0.300          | 0.543                  |
| L59      | LTE B5 | QPSK10M | 20600   | 1  | 0      | Left Cheek    | Ant 13 | 1   | 22.50                 | 22.08                 | 0.11             | 0.401         | 0.261          | 0.442                  |
| L60      | LTE B5 | QPSK10M | 20600   | 1  | 0      | Left Tilted   | Ant 13 | 1   | 22.50                 | 22.08                 | 0.05             | 0.430         | 0.257          | 0.474                  |
| L61      | LTE B5 | QPSK10M | 20525   | 25 | 12     | Right Cheek   | Ant 13 | 1   | 22.50                 | 21.97                 | 0.03             | 0.293         | 0.214          | 0.331                  |
| L62      | LTE B5 | QPSK10M | 20525   | 25 | 12     | Right Tilted  | Ant 13 | 1   | 22.50                 | 21.97                 | -0.06            | 0.479         | 0.273          | 0.541                  |
| L63      | LTE B5 | QPSK10M | 20525   | 25 | 12     | Left Cheek    | Ant 13 | 1   | 22.50                 | 21.97                 | -0.08            | 0.387         | 0.254          | 0.437                  |
| L64      | LTE B5 | QPSK10M | 20525   | 25 | 12     | Left Tilted   | Ant 13 | 1   | 22.50                 | 21.97                 | 0.16             | 0.447         | 0.265          | 0.505                  |
| L65      | LTE B5 | QPSK10M | 20525   | 1  | 24     | Right Tilted  | Ant 13 | 1   | 22.50                 | 21.89                 | 0.02             | 0.481         | 0.274          | 0.554                  |
| L66      | LTE B5 | QPSK10M | 20450   | 1  | 49     | Right Tilted  | Ant 13 | 1   | 22.50                 | 21.90                 | -0.09            | 0.461         | 0.265          | 0.529                  |
| L67      | LTE B5 | QPSK10M | 20450   | 25 | 0      | Right Tilted  | Ant 13 | 1   | 22.50                 | 21.87                 | -0.01            | <b>0.503</b>  | <b>0.289</b>   | <b>0.582</b>           |
| L68      | LTE B5 | QPSK10M | 20600   | 25 | 0      | Right Tilted  | Ant 13 | 1   | 22.50                 | 21.83                 | 0.03             | 0.474         | 0.274          | 0.553                  |
| L69      | LTE B5 | QPSK10M | 20450   | 25 | 0      | Right Tilted  | Ant 13 | 2   | 22.50                 | 21.87                 | 0.14             | 0.497         | 0.279          | 0.575                  |
| L71      | LTE B5 | QPSK10M | 20450   | 1  | 24     | Right Cheek   | Ant 31 | 1   | 25.00                 | 24.59                 | -0.08            | 0.101         | 0.075          | 0.111                  |
| L72      | LTE B5 | QPSK10M | 20450   | 1  | 24     | Right Tilted  | Ant 31 | 1   | 25.00                 | 24.59                 | 0.12             | 0.057         | 0.044          | 0.062                  |
| L73      | LTE B5 | QPSK10M | 20450   | 1  | 24     | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.59                 | 0.04             | 0.125         | 0.094          | 0.137                  |
| L74      | LTE B5 | QPSK10M | 20450   | 1  | 24     | Left Tilted   | Ant 31 | 1   | 25.00                 | 24.59                 | 0.03             | 0.076         | 0.059          | 0.084                  |
| L75      | LTE B5 | QPSK10M | 20450   | 25 | 12     | Right Cheek   | Ant 31 | 1   | 24.00                 | 23.84                 | 0.17             | 0.106         | 0.079          | 0.110                  |
| L76      | LTE B5 | QPSK10M | 20450   | 25 | 12     | Right Tilted  | Ant 31 | 1   | 24.00                 | 23.84                 | -0.05            | 0.051         | 0.040          | 0.053                  |
| L77      | LTE B5 | QPSK10M | 20450   | 25 | 12     | Left Cheek    | Ant 31 | 1   | 24.00                 | 23.84                 | 0.06             | 0.117         | 0.087          | 0.121                  |
| L78      | LTE B5 | QPSK10M | 20450   | 25 | 12     | Left Tilted   | Ant 31 | 1   | 24.00                 | 23.84                 | -0.07            | 0.071         | 0.053          | 0.073                  |
| L79      | LTE B5 | QPSK10M | 20525   | 1  | 0      | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.25                 | 0.12             | 0.132         | 0.099          | 0.157                  |
| L80      | LTE B5 | QPSK10M | 20600   | 1  | 49     | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.43                 | 0.02             | <b>0.178</b>  | <b>0.132</b>   | <b>0.203</b>           |
| L81      | LTE B5 | QPSK10M | 20525   | 25 | 0      | Left Cheek    | Ant 31 | 1   | 24.00                 | 23.64                 | 0.05             | 0.128         | 0.096          | 0.139                  |
| L82      | LTE B5 | QPSK10M | 20600   | 25 | 0      | Left Cheek    | Ant 31 | 1   | 24.00                 | 23.67                 | -0.08            | 0.144         | 0.108          | 0.155                  |
| L83      | LTE B5 | QPSK10M | 20600   | 1  | 49     | Left Cheek    | Ant 31 | 2   | 25.00                 | 24.43                 | 0.06             | 0.166         | 0.124          | 0.189                  |

| Test No. | Band    | Mode    | Channel | RB | offset | Test Position | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|---------|----|--------|---------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L85      | LTE B7  | QPSK20M | 21350   | 1  | 0      | Right Cheek   | Ant 13 | 1   | 17.50                 | 16.85                 | 0.07             | 0.454         | 0.239          | 0.527                  |
| L86      | LTE B7  | QPSK20M | 21350   | 1  | 0      | Right Tilted  | Ant 13 | 1   | 17.50                 | 16.85                 | -0.03            | <b>0.78</b>   | <b>0.376</b>   | <b>0.906</b>           |
| L87      | LTE B7  | QPSK20M | 21350   | 1  | 0      | Left Cheek    | Ant 13 | 1   | 17.50                 | 16.85                 | 0.12             | 0.394         | 0.189          | 0.458                  |
| L88      | LTE B7  | QPSK20M | 21350   | 1  | 0      | Left Tilted   | Ant 13 | 1   | 17.50                 | 16.85                 | 0.04             | 0.519         | 0.227          | 0.603                  |
| L89      | LTE B7  | QPSK20M | 21350   | 50 | 0      | Right Cheek   | Ant 13 | 1   | 17.50                 | 16.41                 | -0.03            | 0.372         | 0.194          | 0.478                  |
| L90      | LTE B7  | QPSK20M | 21350   | 50 | 0      | Right Tilted  | Ant 13 | 1   | 17.50                 | 16.41                 | 0.08             | 0.624         | 0.300          | 0.802                  |
| L91      | LTE B7  | QPSK20M | 21350   | 50 | 0      | Left Cheek    | Ant 13 | 1   | 17.50                 | 16.41                 | 0.14             | 0.355         | 0.166          | 0.456                  |
| L92      | LTE B7  | QPSK20M | 21350   | 50 | 0      | Left Tilted   | Ant 13 | 1   | 17.50                 | 16.41                 | 0.06             | 0.476         | 0.215          | 0.612                  |
| L93      | LTE B7  | QPSK20M | 21100   | 1  | 99     | Right Tilted  | Ant 13 | 1   | 17.50                 | 16.64                 | -0.09            | 0.741         | 0.353          | 0.903                  |
| L94      | LTE B7  | QPSK20M | 20850   | 1  | 0      | Right Tilted  | Ant 13 | 1   | 17.50                 | 16.69                 | 0.01             | 0.616         | 0.284          | 0.742                  |
| L95      | LTE B7  | QPSK20M | 21100   | 50 | 50     | Right Tilted  | Ant 13 | 1   | 17.50                 | 16.64                 | 0.05             | 0.735         | 0.348          | 0.896                  |
| L96      | LTE B7  | QPSK20M | 20850   | 50 | 0      | Right Tilted  | Ant 13 | 1   | 17.50                 | 16.58                 | 0.16             | 0.630         | 0.290          | 0.779                  |
| L97      | LTE B7  | QPSK20M | 21350   | 1  | 0      | Right Tilted  | Ant 13 | 2   | 17.50                 | 16.85                 | -0.07            | 0.761         | 0.371          | 0.884                  |
| L99      | LTE B7  | QPSK20M | 20850   | 1  | 0      | Right Cheek   | Ant 31 | 1   | 24.50                 | 23.13                 | 0.05             | 0.209         | 0.118          | 0.287                  |
| L100     | LTE B7  | QPSK20M | 20850   | 1  | 0      | Right Tilted  | Ant 31 | 1   | 24.50                 | 23.13                 | 0.06             | 0.110         | 0.058          | 0.151                  |
| L101     | LTE B7  | QPSK20M | 20850   | 1  | 0      | Left Cheek    | Ant 31 | 1   | 24.50                 | 23.13                 | -0.02            | 0.102         | 0.061          | 0.140                  |
| L102     | LTE B7  | QPSK20M | 20850   | 1  | 0      | Left Tilted   | Ant 31 | 1   | 24.50                 | 23.13                 | 0.05             | 0.100         | 0.054          | 0.137                  |
| L103     | LTE B7  | QPSK20M | 20850   | 50 | 0      | Right Cheek   | Ant 31 | 1   | 23.50                 | 21.99                 | 0.05             | 0.176         | 0.100          | 0.250                  |
| L104     | LTE B7  | QPSK20M | 20850   | 50 | 0      | Right Tilted  | Ant 31 | 1   | 23.50                 | 21.99                 | -0.06            | 0.098         | 0.052          | 0.139                  |
| L105     | LTE B7  | QPSK20M | 20850   | 50 | 0      | Left Cheek    | Ant 31 | 1   | 23.50                 | 21.99                 | 0.06             | 0.091         | 0.054          | 0.129                  |
| L106     | LTE B7  | QPSK20M | 20850   | 50 | 0      | Left Tilted   | Ant 31 | 1   | 23.50                 | 21.99                 | -0.11            | 0.072         | 0.040          | 0.102                  |
| L107     | LTE B7  | QPSK20M | 21100   | 1  | 99     | Right Cheek   | Ant 31 | 1   | 24.50                 | 23.01                 | 0.04             | 0.245         | 0.135          | 0.345                  |
| L108     | LTE B7  | QPSK20M | 21350   | 1  | 0      | Right Cheek   | Ant 31 | 1   | 24.50                 | 23.09                 | 0.05             | <b>0.252</b>  | <b>0.139</b>   | <b>0.349</b>           |
| L109     | LTE B7  | QPSK20M | 21100   | 50 | 50     | Right Cheek   | Ant 31 | 1   | 23.50                 | 21.96                 | -0.09            | 0.207         | 0.113          | 0.295                  |
| L110     | LTE B7  | QPSK20M | 21350   | 50 | 50     | Right Cheek   | Ant 31 | 1   | 23.50                 | 21.91                 | 0.16             | 0.196         | 0.108          | 0.283                  |
| L111     | LTE B7  | QPSK20M | 21350   | 1  | 0      | Right Cheek   | Ant 31 | 2   | 24.50                 | 23.09                 | 0.07             | 0.248         | 0.134          | 0.343                  |
| L113     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Right Cheek   | Ant 13 | 1   | 25.00                 | 24.35                 | 0.05             | 0.372         | 0.259          | 0.432                  |
| L114     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Right Tilted  | Ant 13 | 1   | 25.00                 | 24.35                 | 0.19             | <b>0.416</b>  | <b>0.241</b>   | <b>0.483</b>           |
| L115     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Left Cheek    | Ant 13 | 1   | 25.00                 | 24.35                 | -0.08            | 0.367         | 0.241          | 0.426                  |
| L116     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Left Tilted   | Ant 13 | 1   | 25.00                 | 24.35                 | 0.04             | 0.384         | 0.231          | 0.446                  |
| L117     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Right Cheek   | Ant 13 | 1   | 24.00                 | 23.41                 | 0.13             | 0.376         | 0.247          | 0.431                  |
| L118     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Right Tilted  | Ant 13 | 1   | 24.00                 | 23.41                 | 0.08             | 0.390         | 0.221          | 0.447                  |
| L119     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Left Cheek    | Ant 13 | 1   | 24.00                 | 23.41                 | -0.04            | 0.324         | 0.213          | 0.371                  |
| L120     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Left Tilted   | Ant 13 | 1   | 24.00                 | 23.41                 | 0.06             | 0.348         | 0.161          | 0.399                  |
| L121     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Right Tilted  | Ant 13 | 2   | 25.00                 | 24.35                 | 0.01             | 0.408         | 0.232          | 0.474                  |
| L123     | LTE B13 | QPSK10M | 23230   | 1  | 0      | Right Cheek   | Ant 31 | 1   | 25.00                 | 24.50                 | 0.02             | 0.065         | 0.050          | 0.073                  |
| L124     | LTE B13 | QPSK10M | 23230   | 1  | 0      | Right Tilted  | Ant 31 | 1   | 25.00                 | 24.50                 | 0.11             | 0.043         | 0.035          | 0.048                  |
| L125     | LTE B13 | QPSK10M | 23230   | 1  | 0      | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.50                 | -0.05            | <b>0.098</b>  | <b>0.075</b>   | <b>0.110</b>           |
| L126     | LTE B13 | QPSK10M | 23230   | 1  | 0      | Left Tilted   | Ant 31 | 1   | 25.00                 | 24.50                 | 0.07             | 0.066         | 0.051          | 0.074                  |
| L127     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Right Cheek   | Ant 31 | 1   | 24.00                 | 23.71                 | -0.06            | 0.063         | 0.048          | 0.067                  |
| L128     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Right Tilted  | Ant 31 | 1   | 24.00                 | 23.71                 | 0.07             | 0.040         | 0.029          | 0.043                  |
| L129     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Left Cheek    | Ant 31 | 1   | 24.00                 | 23.71                 | -0.09            | 0.084         | 0.064          | 0.090                  |
| L130     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Left Tilted   | Ant 31 | 1   | 24.00                 | 23.71                 | 0.03             | 0.056         | 0.043          | 0.060                  |
| L131     | LTE B13 | QPSK10M | 23230   | 1  | 0      | Left Cheek    | Ant 31 | 2   | 25.00                 | 24.50                 | 0.02             | 0.091         | 0.065          | 0.102                  |

| Test No. | Band    | Mode    | Channel | RB | offset | Test Position | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|---------|----|--------|---------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L133     | LTE B26 | QPSK15M | 26765   | 1  | 74     | Right Cheek   | Ant 13 | 1   | 22.50                 | 22.12                 | 0.02             | 0.440         | 0.292          | 0.480                  |
| L134     | LTE B26 | QPSK15M | 26765   | 1  | 74     | Right Tilted  | Ant 13 | 1   | 22.50                 | 22.12                 | 0.03             | <b>0.479</b>  | <b>0.275</b>   | <b>0.523</b>           |
| L135     | LTE B26 | QPSK15M | 26765   | 1  | 74     | Left Cheek    | Ant 13 | 1   | 22.50                 | 22.12                 | -0.06            | 0.427         | 0.276          | 0.466                  |
| L136     | LTE B26 | QPSK15M | 26765   | 1  | 74     | Left Tilted   | Ant 13 | 1   | 22.50                 | 22.12                 | 0.04             | 0.440         | 0.260          | 0.480                  |
| L137     | LTE B26 | QPSK15M | 26865   | 36 | 39     | Right Cheek   | Ant 13 | 1   | 22.50                 | 22.10                 | 0.11             | 0.459         | 0.310          | 0.503                  |
| L138     | LTE B26 | QPSK15M | 26865   | 36 | 39     | Right Tilted  | Ant 13 | 1   | 22.50                 | 22.10                 | 0.14             | 0.470         | 0.275          | 0.515                  |
| L139     | LTE B26 | QPSK15M | 26865   | 36 | 39     | Left Cheek    | Ant 13 | 1   | 22.50                 | 22.10                 | 0.03             | 0.399         | 0.264          | 0.437                  |
| L140     | LTE B26 | QPSK15M | 26865   | 36 | 39     | Left Tilted   | Ant 13 | 1   | 22.50                 | 22.10                 | 0.04             | 0.440         | 0.263          | 0.482                  |
| L141     | LTE B26 | QPSK15M | 26865   | 1  | 37     | Right Tilted  | Ant 13 | 1   | 22.50                 | 22.01                 | -0.05            | 0.463         | 0.270          | 0.518                  |
| L142     | LTE B26 | QPSK15M | 26965   | 1  | 0      | Right Tilted  | Ant 13 | 1   | 22.50                 | 22.05                 | 0.07             | 0.455         | 0.254          | 0.505                  |
| L143     | LTE B26 | QPSK15M | 26765   | 36 | 19     | Right Tilted  | Ant 13 | 1   | 22.50                 | 21.92                 | 0.06             | 0.443         | 0.249          | 0.506                  |
| L144     | LTE B26 | QPSK15M | 26965   | 36 | 19     | Right Tilted  | Ant 13 | 1   | 22.50                 | 21.94                 | -0.18            | 0.426         | 0.243          | 0.485                  |
| L145     | LTE B26 | QPSK15M | 26765   | 1  | 74     | Right Tilted  | Ant 13 | 2   | 22.50                 | 22.12                 | 0.09             | 0.472         | 0.270          | 0.515                  |
| L147     | LTE B26 | QPSK15M | 26765   | 1  | 74     | Right Cheek   | Ant 31 | 1   | 24.50                 | 24.21                 | 0.02             | 0.086         | 0.064          | 0.092                  |
| L148     | LTE B26 | QPSK15M | 26765   | 1  | 74     | Right Tilted  | Ant 31 | 1   | 24.50                 | 24.21                 | -0.08            | 0.047         | 0.037          | 0.050                  |
| L149     | LTE B26 | QPSK15M | 26765   | 1  | 74     | Left Cheek    | Ant 31 | 1   | 24.50                 | 24.21                 | -0.11            | 0.113         | 0.085          | 0.121                  |
| L150     | LTE B26 | QPSK15M | 26765   | 1  | 74     | Left Tilted   | Ant 31 | 1   | 24.50                 | 24.21                 | 0.19             | 0.065         | 0.049          | 0.069                  |
| L151     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Right Cheek   | Ant 31 | 1   | 23.50                 | 22.93                 | 0.03             | 0.075         | 0.056          | 0.086                  |
| L152     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Right Tilted  | Ant 31 | 1   | 23.50                 | 22.93                 | 0.07             | 0.044         | 0.035          | 0.050                  |
| L153     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Left Cheek    | Ant 31 | 1   | 23.50                 | 22.93                 | -0.08            | 0.088         | 0.066          | 0.100                  |
| L154     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Left Tilted   | Ant 31 | 1   | 23.50                 | 22.93                 | 0.05             | 0.055         | 0.042          | 0.062                  |
| L155     | LTE B26 | QPSK15M | 26865   | 1  | 74     | Left Cheek    | Ant 31 | 1   | 24.50                 | 23.95                 | -0.08            | 0.115         | 0.087          | 0.131                  |
| L156     | LTE B26 | QPSK15M | 26965   | 1  | 74     | Left Cheek    | Ant 31 | 1   | 24.50                 | 23.87                 | 0.06             | <b>0.131</b>  | <b>0.098</b>   | <b>0.151</b>           |
| L157     | LTE B26 | QPSK15M | 26765   | 36 | 19     | Left Cheek    | Ant 31 | 1   | 23.50                 | 22.91                 | 0.11             | 0.097         | 0.073          | 0.111                  |
| L158     | LTE B26 | QPSK15M | 26965   | 36 | 0      | Left Cheek    | Ant 31 | 1   | 23.50                 | 22.85                 | 0.16             | 0.102         | 0.076          | 0.118                  |
| L159     | LTE B26 | QPSK15M | 26965   | 1  | 74     | Left Cheek    | Ant 31 | 2   | 24.50                 | 23.87                 | 0.08             | 0.125         | 0.095          | 0.145                  |
| L161     | LTE B38 | QPSK20M | 38000   | 1  | 0      | Right Cheek   | Ant 13 | 1   | 21.00                 | 20.55                 | 0.02             | 0.464         | 0.209          | 0.515                  |
| L162     | LTE B38 | QPSK20M | 38000   | 1  | 0      | Right Tilted  | Ant 13 | 1   | 21.00                 | 20.55                 | 0.14             | 0.675         | 0.326          | 0.749                  |
| L163     | LTE B38 | QPSK20M | 38000   | 1  | 0      | Left Cheek    | Ant 13 | 1   | 21.00                 | 20.55                 | -0.08            | 0.491         | 0.219          | 0.545                  |
| L164     | LTE B38 | QPSK20M | 38000   | 1  | 0      | Left Tilted   | Ant 13 | 1   | 21.00                 | 20.55                 | 0.07             | 0.517         | 0.225          | 0.573                  |
| L165     | LTE B38 | QPSK20M | 38000   | 50 | 50     | Right Cheek   | Ant 13 | 1   | 21.00                 | 20.25                 | 0.03             | 0.495         | 0.220          | 0.588                  |
| L166     | LTE B38 | QPSK20M | 38000   | 50 | 50     | Right Tilted  | Ant 13 | 1   | 21.00                 | 20.25                 | -0.06            | 0.661         | 0.323          | 0.786                  |
| L167     | LTE B38 | QPSK20M | 38000   | 50 | 50     | Left Cheek    | Ant 13 | 1   | 21.00                 | 20.25                 | -0.12            | 0.498         | 0.22           | 0.592                  |
| L168     | LTE B38 | QPSK20M | 38000   | 50 | 50     | Left Tilted   | Ant 13 | 1   | 21.00                 | 20.25                 | 0.07             | 0.504         | 0.221          | 0.599                  |
| L169     | LTE B38 | QPSK20M | 37850   | 1  | 99     | Right Tilted  | Ant 13 | 1   | 21.00                 | 20.19                 | -0.09            | 0.643         | 0.314          | 0.775                  |
| L170     | LTE B38 | QPSK20M | 38150   | 1  | 50     | Right Tilted  | Ant 13 | 1   | 21.00                 | 20.17                 | 0.04             | 0.62          | 0.303          | 0.751                  |
| L171     | LTE B38 | QPSK20M | 37850   | 50 | 25     | Right Tilted  | Ant 13 | 1   | 21.00                 | 20.09                 | -0.09            | <b>0.715</b>  | <b>0.346</b>   | <b>0.882</b>           |
| L172     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Right Tilted  | Ant 13 | 1   | 21.00                 | 20.24                 | 0.6              | 0.624         | 0.304          | 0.743                  |
| L173     | LTE B38 | QPSK20M | 37850   | 50 | 25     | Right Tilted  | Ant 13 | 2   | 21.00                 | 20.09                 | 0.04             | 0.709         | 0.337          | 0.874                  |

| Test No. | Band    | Mode    | Channel | RB | offset | Test Position | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|---------|----|--------|---------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L175     | LTE B38 | QPSK20M | 38000   | 1  | 99     | Right Cheek   | Ant 31 | 1   | 25.00                 | 23.92                 | 0.04             | 0.195         | 0.109          | 0.250                  |
| L176     | LTE B38 | QPSK20M | 38000   | 1  | 99     | Right Tilted  | Ant 31 | 1   | 25.00                 | 23.92                 | 0.12             | 0.103         | 0.058          | 0.132                  |
| L177     | LTE B38 | QPSK20M | 38000   | 1  | 99     | Left Cheek    | Ant 31 | 1   | 25.00                 | 23.92                 | -0.06            | 0.120         | 0.073          | 0.154                  |
| L178     | LTE B38 | QPSK20M | 38000   | 1  | 99     | Left Tilted   | Ant 31 | 1   | 25.00                 | 23.92                 | -0.01            | 0.104         | 0.058          | 0.133                  |
| L179     | LTE B38 | QPSK20M | 38150   | 50 | 25     | Right Cheek   | Ant 31 | 1   | 24.00                 | 22.45                 | 0.09             | 0.162         | 0.091          | 0.231                  |
| L180     | LTE B38 | QPSK20M | 38150   | 50 | 25     | Right Tilted  | Ant 31 | 1   | 24.00                 | 22.45                 | 0.17             | 0.081         | 0.045          | 0.116                  |
| L181     | LTE B38 | QPSK20M | 38150   | 50 | 25     | Left Cheek    | Ant 31 | 1   | 24.00                 | 22.45                 | 0.05             | 0.091         | 0.054          | 0.130                  |
| L182     | LTE B38 | QPSK20M | 38150   | 50 | 25     | Left Tilted   | Ant 31 | 1   | 24.00                 | 22.45                 | 0.13             | 0.073         | 0.042          | 0.104                  |
| L183     | LTE B38 | QPSK20M | 37850   | 1  | 99     | Right Cheek   | Ant 31 | 1   | 25.00                 | 23.53                 | 0.01             | 0.204         | 0.116          | 0.286                  |
| L184     | LTE B38 | QPSK20M | 38150   | 1  | 99     | Right Cheek   | Ant 31 | 1   | 25.00                 | 23.71                 | 0.02             | <b>0.213</b>  | <b>0.126</b>   | <b>0.287</b>           |
| L185     | LTE B38 | QPSK20M | 37850   | 50 | 0      | Right Cheek   | Ant 31 | 1   | 24.00                 | 22.35                 | -0.08            | 0.159         | 0.090          | 0.232                  |
| L186     | LTE B38 | QPSK20M | 38000   | 50 | 0      | Right Cheek   | Ant 31 | 1   | 24.00                 | 22.42                 | 0.07             | 0.167         | 0.096          | 0.240                  |
| L187     | LTE B38 | QPSK20M | 38150   | 1  | 99     | Right Cheek   | Ant 31 | 2   | 25.00                 | 23.71                 | -0.06            | 0.211         | 0.117          | 0.284                  |
| L189     | LTE B41 | QPSK20M | 40640   | 1  | 99     | Right Cheek   | Ant 13 | 1   | 21.00                 | 20.45                 | 0.08             | 0.397         | 0.18           | 0.451                  |
| L190     | LTE B41 | QPSK20M | 40640   | 1  | 99     | Right Tilted  | Ant 13 | 1   | 21.00                 | 20.45                 | -0.06            | 0.575         | 0.287          | 0.653                  |
| L191     | LTE B41 | QPSK20M | 40640   | 1  | 99     | Left Cheek    | Ant 13 | 1   | 21.00                 | 20.45                 | 0.01             | 0.385         | 0.172          | 0.437                  |
| L192     | LTE B41 | QPSK20M | 40640   | 1  | 99     | Left Tilted   | Ant 13 | 1   | 21.00                 | 20.45                 | -0.09            | 0.523         | 0.208          | 0.594                  |
| L193     | LTE B41 | QPSK20M | 40640   | 50 | 50     | Right Cheek   | Ant 13 | 1   | 21.00                 | 20.27                 | 0.15             | 0.417         | 0.171          | 0.493                  |
| L194     | LTE B41 | QPSK20M | 40640   | 50 | 50     | Right Tilted  | Ant 13 | 1   | 21.00                 | 20.27                 | 0.06             | 0.55          | 0.268          | 0.651                  |
| L195     | LTE B41 | QPSK20M | 40640   | 50 | 50     | Left Cheek    | Ant 13 | 1   | 21.00                 | 20.27                 | 0.03             | 0.392         | 0.174          | 0.464                  |
| L196     | LTE B41 | QPSK20M | 40640   | 50 | 50     | Left Tilted   | Ant 13 | 1   | 21.00                 | 20.27                 | 0.08             | 0.51          | 0.214          | 0.603                  |
| L197     | LTE B41 | QPSK20M | 40140   | 1  | 0      | Right Tilted  | Ant 13 | 1   | 21.00                 | 20.25                 | 0.02             | <b>0.762</b>  | <b>0.355</b>   | <b>0.906</b>           |
| L198     | LTE B41 | QPSK20M | 41140   | 1  | 99     | Right Tilted  | Ant 13 | 1   | 21.00                 | 20.39                 | -0.09            | 0.479         | 0.221          | 0.551                  |
| L199     | LTE B41 | QPSK20M | 40140   | 50 | 0      | Right Tilted  | Ant 13 | 1   | 21.00                 | 20.22                 | 0.2              | 0.727         | 0.338          | 0.870                  |
| L200     | LTE B41 | QPSK20M | 41140   | 50 | 50     | Right Tilted  | Ant 13 | 1   | 21.00                 | 20.25                 | 0.11             | 0.514         | 0.238          | 0.611                  |
| L201     | LTE B41 | QPSK20M | 40140   | 1  | 0      | Right Tilted  | Ant 13 | 2   | 21.00                 | 20.25                 | -0.03            | 0.748         | 0.348          | 0.889                  |
| L203     | LTE B41 | QPSK20M | 40640   | 1  | 50     | Right Cheek   | Ant 31 | 1   | 24.50                 | 24.13                 | -0.08            | 0.196         | 0.110          | 0.213                  |
| L204     | LTE B41 | QPSK20M | 40640   | 1  | 50     | Right Tilted  | Ant 31 | 1   | 24.50                 | 24.13                 | 0.11             | 0.095         | 0.052          | 0.103                  |
| L205     | LTE B41 | QPSK20M | 40640   | 1  | 50     | Left Cheek    | Ant 31 | 1   | 24.50                 | 24.13                 | 0.16             | 0.105         | 0.061          | 0.114                  |
| L206     | LTE B41 | QPSK20M | 40640   | 1  | 50     | Left Tilted   | Ant 31 | 1   | 24.50                 | 24.13                 | -0.09            | 0.084         | 0.046          | 0.091                  |
| L207     | LTE B41 | QPSK20M | 41140   | 50 | 25     | Right Cheek   | Ant 31 | 1   | 23.50                 | 23.23                 | 0.04             | 0.210         | 0.115          | 0.223                  |
| L208     | LTE B41 | QPSK20M | 41140   | 50 | 25     | Right Tilted  | Ant 31 | 1   | 23.50                 | 23.23                 | 0.16             | 0.100         | 0.054          | 0.106                  |
| L209     | LTE B41 | QPSK20M | 41140   | 50 | 25     | Left Cheek    | Ant 31 | 1   | 23.50                 | 23.23                 | 0.05             | 0.115         | 0.065          | 0.122                  |
| L210     | LTE B41 | QPSK20M | 41140   | 50 | 25     | Left Tilted   | Ant 31 | 1   | 23.50                 | 23.23                 | -0.08            | 0.110         | 0.059          | 0.117                  |
| L211     | LTE B41 | QPSK20M | 40140   | 1  | 0      | Right Cheek   | Ant 31 | 1   | 24.50                 | 24.09                 | 0.04             | 0.241         | 0.136          | 0.265                  |
| L212     | LTE B41 | QPSK20M | 41140   | 1  | 99     | Right Cheek   | Ant 31 | 1   | 24.50                 | 24.07                 | 0.02             | <b>0.300</b>  | <b>0.159</b>   | <b>0.331</b>           |
| L213     | LTE B41 | QPSK20M | 40140   | 50 | 0      | Right Cheek   | Ant 31 | 1   | 23.50                 | 23.22                 | -0.05            | 0.184         | 0.103          | 0.196                  |
| L214     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Right Cheek   | Ant 31 | 1   | 23.50                 | 23.10                 | 0.07             | 0.187         | 0.105          | 0.205                  |
| L215     | LTE B41 | QPSK20M | 41140   | 1  | 99     | Right Cheek   | Ant 31 | 2   | 24.50                 | 24.07                 | -0.06            | 0.293         | 0.169          | 0.323                  |

| Test No. | Band    | Mode    | Channel | RB | offset | Test Position | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|---------|----|--------|---------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L217     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Right Cheek   | Ant 13 | 1   | 17.00                 | 16.90                 | 0.01             | 0.448         | 0.224          | 0.458                  |
| L218     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Right Tilted  | Ant 13 | 1   | 17.00                 | 16.90                 | -0.08            | <b>0.620</b>  | <b>0.297</b>   | <b>0.634</b>           |
| L219     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Left Cheek    | Ant 13 | 1   | 17.00                 | 16.90                 | 0.04             | 0.300         | 0.165          | 0.307                  |
| L220     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Left Tilted   | Ant 13 | 1   | 17.00                 | 16.90                 | -0.06            | 0.451         | 0.238          | 0.462                  |
| L221     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Right Cheek   | Ant 13 | 1   | 17.00                 | 16.82                 | 0.05             | 0.410         | 0.208          | 0.427                  |
| L222     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Right Tilted  | Ant 13 | 1   | 17.00                 | 16.82                 | 0.19             | 0.513         | 0.253          | 0.535                  |
| L223     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Left Cheek    | Ant 13 | 1   | 17.00                 | 16.82                 | 0.12             | 0.241         | 0.132          | 0.251                  |
| L224     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Left Tilted   | Ant 13 | 1   | 17.00                 | 16.82                 | 0.03             | 0.368         | 0.194          | 0.384                  |
| L225     | LTE B66 | QPSK20M | 132322  | 1  | 0      | Right Tilted  | Ant 13 | 1   | 17.00                 | 16.87                 | -0.05            | 0.497         | 0.245          | 0.512                  |
| L226     | LTE B66 | QPSK20M | 132072  | 1  | 99     | Right Tilted  | Ant 13 | 1   | 17.00                 | 16.81                 | 0.06             | 0.482         | 0.230          | 0.504                  |
| L227     | LTE B66 | QPSK20M | 132572  | 50 | 0      | Right Tilted  | Ant 13 | 1   | 17.00                 | 16.69                 | -0.02            | 0.515         | 0.265          | 0.553                  |
| L228     | LTE B66 | QPSK20M | 132072  | 50 | 50     | Right Tilted  | Ant 13 | 1   | 17.00                 | 16.58                 | 0.01             | 0.458         | 0.225          | 0.505                  |
| L229     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Right Tilted  | Ant 13 | 2   | 17.00                 | 16.90                 | 0.11             | 0.590         | 0.263          | 0.604                  |
| L231     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Right Cheek   | Ant 31 | 1   | 25.00                 | 24.13                 | 0.02             | 0.074         | 0.052          | 0.091                  |
| L232     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Right Tilted  | Ant 31 | 1   | 25.00                 | 24.13                 | -0.03            | 0.056         | 0.034          | 0.068                  |
| L233     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.13                 | 0.02             | <b>0.128</b>  | <b>0.081</b>   | <b>0.156</b>           |
| L234     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Left Tilted   | Ant 31 | 1   | 25.00                 | 24.13                 | 0.09             | 0.058         | 0.034          | 0.070                  |
| L235     | LTE B66 | QPSK20M | 132072  | 50 | 0      | Right Cheek   | Ant 31 | 1   | 24.00                 | 23.45                 | 0.14             | 0.054         | 0.037          | 0.061                  |
| L236     | LTE B66 | QPSK20M | 132072  | 50 | 0      | Right Tilted  | Ant 31 | 1   | 24.00                 | 23.45                 | 0.02             | 0.063         | 0.036          | 0.072                  |
| L237     | LTE B66 | QPSK20M | 132072  | 50 | 0      | Left Cheek    | Ant 31 | 1   | 24.00                 | 23.45                 | -0.08            | 0.106         | 0.070          | 0.120                  |
| L238     | LTE B66 | QPSK20M | 132072  | 50 | 0      | Left Tilted   | Ant 31 | 1   | 24.00                 | 23.45                 | 0.02             | 0.043         | 0.025          | 0.049                  |
| L239     | LTE B66 | QPSK20M | 132322  | 1  | 99     | Left Cheek    | Ant 31 | 1   | 25.00                 | 23.90                 | -0.04            | 0.115         | 0.076          | 0.148                  |
| L240     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Left Cheek    | Ant 31 | 1   | 25.00                 | 24.06                 | 0.07             | 0.119         | 0.077          | 0.148                  |
| L241     | LTE B66 | QPSK20M | 132322  | 50 | 0      | Left Cheek    | Ant 31 | 1   | 24.00                 | 23.42                 | 0.1              | 0.118         | 0.077          | 0.135                  |
| L242     | LTE B66 | QPSK20M | 132572  | 50 | 0      | Left Cheek    | Ant 31 | 1   | 24.00                 | 23.41                 | 0.06             | 0.110         | 0.074          | 0.126                  |
| L243     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Left Cheek    | Ant 31 | 2   | 25.00                 | 24.13                 | -0.15            | 0.119         | 0.073          | 0.145                  |

Note: The value with boldface is the maximum SAR Value of each test band.

#### 4. Head SAR test results of WiFi 2.4G

##### Level 1

| Test No. | Band      | Mode    | Channel | Test Position | Data Rate | Duty Cycle (%) | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|---------|---------|---------------|-----------|----------------|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| W01      | WiFi 2.4G | 802.11b | 6       | Right Cheek   | 1M        | 97.55          | 18.00                 | 17.80                 | 0.14             | 0.530         | 0.279          | 0.569                  |
| W02      | WiFi 2.4G | 802.11b | 6       | Right Tilted  | 1M        | 97.55          | 18.00                 | 17.80                 | -0.07            | 0.734         | 0.341          | 0.788                  |
| W03      | WiFi 2.4G | 802.11b | 6       | Left Cheek    | 1M        | 97.55          | 18.00                 | 17.80                 | 0.09             | <b>0.951</b>  | <b>0.482</b>   | <b>1.021</b>           |
| W04      | WiFi 2.4G | 802.11b | 6       | Left Tilted   | 1M        | 97.55          | 18.00                 | 17.80                 | 0.02             | 0.927         | 0.465          | 0.995                  |
| W05      | WiFi 2.4G | 802.11b | 1       | Left Cheek    | 1M        | 97.55          | 18.00                 | 17.75                 | -0.13            | 0.910         | 0.444          | 0.988                  |
| W06      | WiFi 2.4G | 802.11b | 11      | Left Cheek    | 1M        | 97.55          | 18.00                 | 17.64                 | 0.02             | 0.906         | 0.431          | 1.009                  |

##### Level 2

| Test No. | Band      | Mode    | Channel | Test Position | Data Rate | Duty Cycle (%) | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|---------|---------|---------------|-----------|----------------|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| W100     | WiFi 2.4G | 802.11b | 6       | Right Cheek   | 1M        | 97.55          | 17.00                 | 16.85                 | 0.13             | 0.420         | 0.221          | 0.446                  |
| W101     | WiFi 2.4G | 802.11b | 6       | Right Tilted  | 1M        | 97.55          | 17.00                 | 16.85                 | -0.15            | 0.501         | 0.232          | 0.532                  |
| W102     | WiFi 2.4G | 802.11b | 6       | Left Cheek    | 1M        | 97.55          | 17.00                 | 16.85                 | -0.05            | <b>0.772</b>  | <b>0.378</b>   | <b>0.819</b>           |
| W103     | WiFi 2.4G | 802.11b | 6       | Left Tilted   | 1M        | 97.55          | 17.00                 | 16.85                 | 0.07             | 0.741         | 0.343          | 0.786                  |
| W104     | WiFi 2.4G | 802.11b | 1       | Left Cheek    | 1M        | 97.55          | 17.00                 | 16.55                 | -0.14            | 0.637         | 0.307          | 0.724                  |
| W105     | WiFi 2.4G | 802.11b | 11      | Left Cheek    | 1M        | 97.55          | 17.00                 | 16.35                 | 0.04             | 0.604         | 0.296          | 0.719                  |

Note: The value with boldface is the maximum SAR Value of each test band.

#### 5. Head SAR test results of BT

| Test No. | Band | Mode | Channel | Test Position | Data Rate | Duty Cycle (%) | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|------|------|---------|---------------|-----------|----------------|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| B01      | BT   | DH5  | 39      | Right Cheek   | 1M        | 78.06          | 9.00                  | 8.78                  | 0.16             | 0.092         | 0.048          | 0.124                  |
| B02      | BT   | DH5  | 39      | Right Tilted  | 1M        | 78.06          | 9.00                  | 8.78                  | 0.03             | 0.122         | 0.057          | 0.164                  |
| B03      | BT   | DH5  | 39      | Left Cheek    | 1M        | 78.06          | 9.00                  | 8.78                  | 0                | <b>0.207</b>  | <b>0.103</b>   | <b>0.279</b>           |
| B04      | BT   | DH5  | 39      | Left Tilted   | 1M        | 78.06          | 9.00                  | 8.78                  | -0.17            | 0.172         | 0.083          | 0.232                  |
| B05      | BT   | DH5  | 0       | Left Cheek    | 1M        | 78.06          | 9.00                  | 7.30                  | -0.06            | 0.143         | 0.076          | 0.271                  |
| B06      | BT   | DH5  | 78      | Left Cheek    | 1M        | 78.06          | 9.00                  | 7.83                  | 0.06             | 0.124         | 0.072          | 0.208                  |

Note: The value with boldface is the maximum SAR Value of each test band.

## 6. Head SAR test results of WiFi 5G

### Level 1

| Test No. | Band              | Mode    | Channel | Test Position | Data Rate | Duty Cycle (%) | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|---------|---------|---------------|-----------|----------------|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| W08      | WiFi 5.2G UNII_1  | 802.11a | 36      | Right Cheek   | 6M        | 89.90          | 18.00                 | 17.32                 | -0.18            | 0.237         | 0.059          | 0.308                  |
| W09      | WiFi 5.2G UNII_1  | 802.11a | 36      | Right Tilted  | 6M        | 89.90          | 18.00                 | 17.32                 | -0.03            | 0.320         | 0.076          | 0.416                  |
| W10      | WiFi 5.2G UNII_1  | 802.11a | 36      | Left Cheek    | 6M        | 89.90          | 18.00                 | 17.32                 | -0.05            | 0.517         | 0.128          | 0.673                  |
| W11      | WiFi 5.2G UNII_1  | 802.11a | 36      | Left Tilted   | 6M        | 89.90          | 18.00                 | 17.32                 | -0.09            | <b>0.756</b>  | <b>0.177</b>   | <b>0.983</b>           |
| W12      | WiFi 5.2G UNII_1  | 802.11a | 48      | Left Tilted   | 6M        | 89.90          | 18.00                 | 17.30                 | -0.07            | 0.724         | 0.145          | 0.946                  |
| W14      | WiFi 5.3G UNII_2A | 802.11a | 52      | Right Cheek   | 6M        | 89.90          | 19.00                 | 18.57                 | -0.12            | 0.351         | 0.102          | 0.431                  |
| W15      | WiFi 5.3G UNII_2A | 802.11a | 52      | Right Tilted  | 6M        | 89.90          | 19.00                 | 18.57                 | -0.1             | 0.366         | 0.104          | 0.449                  |
| W16      | WiFi 5.3G UNII_2A | 802.11a | 52      | Left Cheek    | 6M        | 89.90          | 19.00                 | 18.57                 | 0.1              | 0.668         | 0.202          | 0.820                  |
| W17      | WiFi 5.3G UNII_2A | 802.11a | 52      | Left Tilted   | 6M        | 89.90          | 19.00                 | 18.57                 | 0                | <b>0.843</b>  | <b>0.210</b>   | <b>1.035</b>           |
| W18      | WiFi 5.3G UNII_2A | 802.11a | 64      | Left Tilted   | 6M        | 89.90          | 19.00                 | 18.36                 | 0.02             | 0.712         | 0.192          | 0.918                  |
| W20      | WiFi 5.6G UNII_2C | 802.11a | 120     | Right Cheek   | 6M        | 89.90          | 18.00                 | 17.56                 | 0.06             | 0.340         | 0.117          | 0.419                  |
| W21      | WiFi 5.6G UNII_2C | 802.11a | 120     | Right Tilted  | 6M        | 89.90          | 18.00                 | 17.56                 | 0.15             | 0.420         | 0.139          | 0.517                  |
| W22      | WiFi 5.6G UNII_2C | 802.11a | 120     | Left Cheek    | 6M        | 89.90          | 18.00                 | 17.56                 | 0.09             | 0.594         | 0.205          | 0.731                  |
| W23      | WiFi 5.6G UNII_2C | 802.11a | 120     | Left Tilted   | 6M        | 89.90          | 18.00                 | 17.56                 | 0.15             | 0.784         | 0.254          | 0.965                  |
| W24      | WiFi 5.6G UNII_2C | 802.11a | 140     | Left Tilted   | 6M        | 89.90          | 18.00                 | 17.50                 | 0                | <b>0.848</b>  | <b>0.262</b>   | <b>1.058</b>           |
| W25      | WiFi 5.6G UNII_2C | 802.11a | 100     | Left Tilted   | 6M        | 89.90          | 18.00                 | 17.42                 | -0.07            | 0.830         | 0.251          | 1.055                  |
| W27      | WiFi 5.8G UNII_3  | 802.11a | 165     | Right Cheek   | 6M        | 89.90          | 19.00                 | 18.55                 | 0.13             | 0.234         | 0.080          | 0.289                  |
| W28      | WiFi 5.8G UNII_3  | 802.11a | 165     | Right Tilted  | 6M        | 89.90          | 19.00                 | 18.55                 | 0.17             | 0.301         | 0.094          | 0.371                  |
| W29      | WiFi 5.8G UNII_3  | 802.11a | 165     | Left Cheek    | 6M        | 89.90          | 19.00                 | 18.55                 | -0.15            | 0.622         | 0.201          | 0.767                  |
| W30      | WiFi 5.8G UNII_3  | 802.11a | 165     | Left Tilted   | 6M        | 89.90          | 19.00                 | 18.55                 | 0.06             | <b>0.793</b>  | <b>0.228</b>   | <b>0.978</b>           |
| W31      | WiFi 5.8G UNII_3  | 802.11a | 149     | Left Tilted   | 6M        | 89.90          | 19.00                 | 18.38                 | 0.02             | 0.721         | 0.207          | 0.925                  |
| W32      | WiFi 5.8G UNII_3  | 802.11a | 157     | Left Tilted   | 6M        | 89.90          | 19.00                 | 18.35                 | 0.04             | 0.745         | 0.214          | 0.962                  |

## Level 2

| Test No. | Band              | Mode    | Channel | Test Position | Data Rate | Duty Cycle (%) | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|---------|---------|---------------|-----------|----------------|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| W107     | WiFi 5.2G UNII_1  | 802.11a | 36      | Right Cheek   | 6M        | 89.90          | 17.00                 | 16.57                 | -0.04            | 0.128         | 0.046          | 0.157                  |
| W108     | WiFi 5.2G UNII_1  | 802.11a | 36      | Right Tilted  | 6M        | 89.90          | 17.00                 | 16.57                 | 0.13             | 0.149         | 0.039          | 0.183                  |
| W109     | WiFi 5.2G UNII_1  | 802.11a | 36      | Left Cheek    | 6M        | 89.90          | 17.00                 | 16.57                 | 0.04             | 0.250         | 0.089          | 0.307                  |
| W110     | WiFi 5.2G UNII_1  | 802.11a | 36      | Left Tilted   | 6M        | 89.90          | 17.00                 | 16.57                 | 0.12             | <b>0.500</b>  | <b>0.115</b>   | <b>0.614</b>           |
| W111     | WiFi 5.2G UNII_1  | 802.11a | 48      | Left Tilted   | 6M        | 89.90          | 17.00                 | 16.55                 | -0.06            | 0.353         | 0.099          | 0.436                  |
| W113     | WiFi 5.3G UNII_2A | 802.11a | 52      | Right Cheek   | 6M        | 89.90          | 18.00                 | 17.57                 | 0.14             | 0.274         | 0.073          | 0.336                  |
| W114     | WiFi 5.3G UNII_2A | 802.11a | 52      | Right Tilted  | 6M        | 89.90          | 18.00                 | 17.57                 | -0.1             | 0.321         | 0.085          | 0.394                  |
| W115     | WiFi 5.3G UNII_2A | 802.11a | 52      | Left Cheek    | 6M        | 89.90          | 18.00                 | 17.57                 | 0.17             | 0.400         | 0.118          | 0.491                  |
| W116     | WiFi 5.3G UNII_2A | 802.11a | 52      | Left Tilted   | 6M        | 89.90          | 18.00                 | 17.57                 | 0.03             | <b>0.614</b>  | <b>0.149</b>   | <b>0.754</b>           |
| W117     | WiFi 5.3G UNII_2A | 802.11a | 64      | Left Tilted   | 6M        | 89.90          | 18.00                 | 17.36                 | -0.06            | 0.536         | 0.146          | 0.691                  |
| W119     | WiFi 5.6G UNII_2C | 802.11a | 120     | Right Cheek   | 6M        | 89.90          | 17.00                 | 16.84                 | -0.15            | 0.276         | 0.082          | 0.319                  |
| W120     | WiFi 5.6G UNII_2C | 802.11a | 120     | Right Tilted  | 6M        | 89.90          | 17.00                 | 16.84                 | -0.18            | 0.318         | 0.092          | 0.367                  |
| W121     | WiFi 5.6G UNII_2C | 802.11a | 120     | Left Cheek    | 6M        | 89.90          | 17.00                 | 16.84                 | 0.16             | 0.658         | 0.190          | 0.759                  |
| W122     | WiFi 5.6G UNII_2C | 802.11a | 120     | Left Tilted   | 6M        | 89.90          | 17.00                 | 16.84                 | 0.17             | 0.682         | 0.205          | 0.787                  |
| W123     | WiFi 5.6G UNII_2C | 802.11a | 140     | Left Tilted   | 6M        | 89.90          | 17.00                 | 16.68                 | -0.08            | <b>0.690</b>  | <b>0.209</b>   | <b>0.826</b>           |
| W124     | WiFi 5.6G UNII_2C | 802.11a | 100     | Left Tilted   | 6M        | 89.90          | 17.00                 | 16.53                 | -0.07            | 0.662         | 0.206          | 0.821                  |
| W126     | WiFi 5.8G UNII_3  | 802.11a | 165     | Right Cheek   | 6M        | 89.90          | 18.00                 | 17.51                 | 0.09             | 0.197         | 0.057          | 0.245                  |
| W127     | WiFi 5.8G UNII_3  | 802.11a | 165     | Right Tilted  | 6M        | 89.90          | 18.00                 | 17.51                 | -0.18            | 0.213         | 0.064          | 0.265                  |
| W128     | WiFi 5.8G UNII_3  | 802.11a | 165     | Left Cheek    | 6M        | 89.90          | 18.00                 | 17.51                 | 0.07             | 0.580         | 0.161          | 0.722                  |
| W129     | WiFi 5.8G UNII_3  | 802.11a | 165     | Left Tilted   | 6M        | 89.90          | 18.00                 | 17.51                 | -0.02            | <b>0.631</b>  | <b>0.169</b>   | <b>0.786</b>           |
| W130     | WiFi 5.8G UNII_3  | 802.11a | 149     | Left Tilted   | 6M        | 89.90          | 18.00                 | 17.34                 | -0.11            | 0.543         | 0.145          | 0.703                  |
| W131     | WiFi 5.8G UNII_3  | 802.11a | 157     | Left Tilted   | 6M        | 89.90          | 18.00                 | 17.40                 | -0.09            | 0.574         | 0.147          | 0.733                  |

Note: The value with boldface is the maximum SAR Value of each test band.

## 6.2.2 SAR MEASUREMENT RESULT OF BODY-WORN

### 1. Body-worn SAR test results of GSM

DSI6

| Test No. | Band     | Mode      | Channel | Test Position | Separation Distance (mm) | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|-----------|---------|---------------|--------------------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| G32      | GSM 850  | GPRS 2 TX | 190     | Front Side    | 15                       | Ant 13 | 1   | 32.00                 | 31.40                 | 0.02             | 0.161         | 0.120          | 0.185                  |
| G33      | GSM 850  | GPRS 2 TX | 190     | Back Side     | 15                       | Ant 13 | 1   | 32.00                 | 31.40                 | -0.04            | 0.186         | 0.139          | 0.214                  |
| G34      | GSM 850  | GPRS 2 TX | 128     | Back Side     | 15                       | Ant 13 | 1   | 32.00                 | 31.39                 | 0.08             | 0.198         | 0.145          | 0.228                  |
| G35      | GSM 850  | GPRS 2 TX | 251     | Back Side     | 15                       | Ant 13 | 1   | 32.00                 | 31.34                 | -0.1             | <b>0.215</b>  | <b>0.144</b>   | <b>0.250</b>           |
| G36      | GSM 850  | GPRS 2 TX | 251     | Back Side     | 15                       | Ant 13 | 2   | 32.00                 | 31.34                 | 0.06             | 0.210         | 0.143          | 0.244                  |
| G38      | GSM 850  | GPRS 2 TX | 190     | Front Side    | 15                       | Ant 31 | 1   | 32.00                 | 31.49                 | 0.03             | 0.195         | 0.151          | 0.219                  |
| G39      | GSM 850  | GPRS 2 TX | 190     | Back Side     | 15                       | Ant 31 | 1   | 32.00                 | 31.49                 | 0.12             | 0.229         | 0.177          | 0.258                  |
| G40      | GSM 850  | GPRS 2 TX | 128     | Back Side     | 15                       | Ant 31 | 1   | 32.00                 | 31.43                 | 0.01             | 0.253         | 0.195          | 0.288                  |
| G41      | GSM 850  | GPRS 2 TX | 251     | Back Side     | 15                       | Ant 31 | 1   | 32.00                 | 31.48                 | -0.06            | <b>0.281</b>  | <b>0.214</b>   | <b>0.317</b>           |
| G42      | GSM 850  | GPRS 2 TX | 251     | Back Side     | 15                       | Ant 31 | 2   | 32.00                 | 31.48                 | 0.1              | 0.262         | 0.197          | 0.295                  |
| G44      | GSM 1900 | GPRS 2 TX | 661     | Front Side    | 15                       | Ant 13 | 1   | 26.50                 | 25.68                 | -0.19            | 0.118         | 0.070          | 0.143                  |
| G45      | GSM 1900 | GPRS 2 TX | 661     | Back Side     | 15                       | Ant 13 | 1   | 26.50                 | 25.68                 | 0.04             | 0.266         | 0.148          | 0.321                  |
| G46      | GSM 1900 | GPRS 2 TX | 512     | Back Side     | 15                       | Ant 13 | 1   | 26.50                 | 25.64                 | 0.13             | 0.273         | 0.155          | 0.333                  |
| G47      | GSM 1900 | GPRS 2 TX | 810     | Back Side     | 15                       | Ant 13 | 1   | 26.50                 | 25.07                 | -0.06            | <b>0.284</b>  | <b>0.157</b>   | <b>0.395</b>           |
| G48      | GSM 1900 | GPRS 2 TX | 810     | Back Side     | 15                       | Ant 13 | 2   | 26.50                 | 25.07                 | 0.05             | 0.279         | 0.161          | 0.388                  |
| G50      | GSM 1900 | GPRS 2 TX | 661     | Front Side    | 15                       | Ant 31 | 1   | 28.50                 | 27.53                 | 0.08             | 0.178         | 0.113          | 0.223                  |
| G51      | GSM 1900 | GPRS 2 TX | 661     | Back Side     | 15                       | Ant 31 | 1   | 28.50                 | 27.53                 | -0.04            | 0.244         | 0.150          | 0.305                  |
| G52      | GSM 1900 | GPRS 2 TX | 512     | Back Side     | 15                       | Ant 31 | 1   | 28.50                 | 27.42                 | 0.01             | 0.234         | 0.142          | 0.300                  |
| G53      | GSM 1900 | GPRS 2 TX | 810     | Back Side     | 15                       | Ant 31 | 1   | 28.50                 | 27.39                 | 0.11             | <b>0.245</b>  | <b>0.152</b>   | <b>0.316</b>           |
| G54      | GSM 1900 | GPRS 2 TX | 810     | Back Side     | 15                       | Ant 31 | 2   | 28.50                 | 27.39                 | 0.08             | 0.235         | 0.145          | 0.303                  |

Note: The value with boldface is the maximum SAR Value of each test band.

## 2. Body-worn SAR test results of UMTS

### DSI6

| Test No. | Band    | Mode     | Channel | Test Position | Separation Distance (mm) | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|---------|---------------|--------------------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| U48      | UMTS B2 | RMC12.2K | 9400    | Front Side    | 15                       | Ant 13 | 1   | 20.50                 | 19.51                 | 0.06             | 0.158         | 0.095          | 0.198                  |
| U49      | UMTS B2 | RMC12.2K | 9400    | Back Side     | 15                       | Ant 13 | 1   | 20.50                 | 19.51                 | 0.12             | 0.342         | 0.192          | 0.430                  |
| U50      | UMTS B2 | RMC12.2K | 9262    | Back Side     | 15                       | Ant 13 | 1   | 20.50                 | 19.50                 | -0.01            | <b>0.354</b>  | <b>0.202</b>   | <b>0.446</b>           |
| U51      | UMTS B2 | RMC12.2K | 9538    | Back Side     | 15                       | Ant 13 | 1   | 20.50                 | 19.41                 | -0.08            | 0.311         | 0.174          | 0.400                  |
| U52      | UMTS B2 | RMC12.2K | 9262    | Back Side     | 15                       | Ant 13 | 2   | 20.50                 | 19.50                 | 0.02             | 0.348         | 0.199          | 0.438                  |
| U54      | UMTS B2 | RMC12.2K | 9400    | Front Side    | 15                       | Ant 31 | 1   | 22.00                 | 21.06                 | 0.01             | 0.134         | 0.088          | 0.166                  |
| U55      | UMTS B2 | RMC12.2K | 9400    | Back Side     | 15                       | Ant 31 | 1   | 22.00                 | 21.06                 | -0.09            | 0.265         | 0.170          | 0.329                  |
| U56      | UMTS B2 | RMC12.2K | 9262    | Back Side     | 15                       | Ant 31 | 1   | 22.00                 | 21.01                 | 0.16             | 0.254         | 0.162          | 0.319                  |
| U57      | UMTS B2 | RMC12.2K | 9538    | Back Side     | 15                       | Ant 31 | 1   | 22.00                 | 21.03                 | 0.14             | <b>0.277</b>  | <b>0.169</b>   | <b>0.346</b>           |
| U58      | UMTS B2 | RMC12.2K | 9538    | Back Side     | 15                       | Ant 31 | 2   | 22.00                 | 21.03                 | 0.03             | 0.261         | 0.165          | 0.326                  |
| U60      | UMTS B4 | RMC12.2K | 1413    | Front Side    | 15                       | Ant 13 | 1   | 22.00                 | 21.39                 | -0.12            | 0.289         | 0.171          | 0.333                  |
| U61      | UMTS B4 | RMC12.2K | 1413    | Back Side     | 15                       | Ant 13 | 1   | 22.00                 | 21.39                 | 0.04             | 0.474         | 0.274          | 0.545                  |
| U62      | UMTS B4 | RMC12.2K | 1312    | Back Side     | 15                       | Ant 13 | 1   | 22.00                 | 21.34                 | 0.08             | 0.395         | 0.229          | 0.460                  |
| U63      | UMTS B4 | RMC12.2K | 1513    | Back Side     | 15                       | Ant 13 | 1   | 22.00                 | 21.37                 | 0.04             | <b>0.556</b>  | <b>0.316</b>   | <b>0.643</b>           |
| U64      | UMTS B4 | RMC12.2K | 1513    | Back Side     | 15                       | Ant 13 | 2   | 22.00                 | 21.37                 | -0.09            | 0.543         | 0.313          | 0.628                  |
| U66      | UMTS B4 | RMC12.2K | 1413    | Front Side    | 15                       | Ant 31 | 1   | 22.00                 | 21.12                 | 0.01             | 0.098         | 0.062          | 0.120                  |
| U67      | UMTS B4 | RMC12.2K | 1413    | Back Side     | 15                       | Ant 31 | 1   | 22.00                 | 21.12                 | 0.12             | 0.201         | 0.126          | 0.246                  |
| U68      | UMTS B4 | RMC12.2K | 1312    | Back Side     | 15                       | Ant 31 | 1   | 22.00                 | 21.06                 | 0.14             | <b>0.208</b>  | <b>0.130</b>   | <b>0.258</b>           |
| U69      | UMTS B4 | RMC12.2K | 1513    | Back Side     | 15                       | Ant 31 | 1   | 22.00                 | 21.05                 | 0.09             | 0.199         | 0.124          | 0.248                  |
| U70      | UMTS B4 | RMC12.2K | 1312    | Back Side     | 15                       | Ant 31 | 2   | 22.00                 | 21.05                 | -0.11            | 0.200         | 0.129          | 0.249                  |
| U72      | UMTS B5 | RMC12.2K | 4182    | Front Side    | 15                       | Ant 13 | 1   | 25.00                 | 24.42                 | 0.01             | 0.152         | 0.105          | 0.174                  |
| U73      | UMTS B5 | RMC12.2K | 4182    | Back Side     | 15                       | Ant 13 | 1   | 25.00                 | 24.42                 | -0.05            | <b>0.177</b>  | <b>0.121</b>   | <b>0.202</b>           |
| U74      | UMTS B5 | RMC12.2K | 4132    | Back Side     | 15                       | Ant 13 | 1   | 25.00                 | 24.25                 | 0.08             | 0.158         | 0.101          | 0.188                  |
| U75      | UMTS B5 | RMC12.2K | 4233    | Back Side     | 15                       | Ant 13 | 1   | 25.00                 | 24.30                 | -0.04            | 0.161         | 0.101          | 0.189                  |
| U76      | UMTS B5 | RMC12.2K | 4182    | Back Side     | 15                       | Ant 13 | 2   | 25.00                 | 24.42                 | 0.06             | 0.176         | 0.118          | 0.201                  |
| U78      | UMTS B5 | RMC12.2K | 4182    | Front Side    | 15                       | Ant 31 | 1   | 25.00                 | 24.06                 | 0.02             | 0.117         | 0.077          | 0.145                  |
| U79      | UMTS B5 | RMC12.2K | 4182    | Back Side     | 15                       | Ant 31 | 1   | 25.00                 | 24.06                 | -0.08            | 0.127         | 0.082          | 0.158                  |
| U80      | UMTS B5 | RMC12.2K | 4132    | Back Side     | 15                       | Ant 31 | 1   | 25.00                 | 23.95                 | 0.01             | 0.129         | 0.083          | 0.164                  |
| U81      | UMTS B5 | RMC12.2K | 4233    | Back Side     | 15                       | Ant 31 | 1   | 25.00                 | 24.03                 | 0                | <b>0.156</b>  | <b>0.099</b>   | <b>0.195</b>           |
| U82      | UMTS B5 | RMC12.2K | 4233    | Back Side     | 15                       | Ant 31 | 2   | 25.00                 | 24.03                 | 0.03             | 0.152         | 0.098          | 0.190                  |

Note: The value with boldface is the maximum SAR Value of each test band.

### 3. Body-worn SAR test results of LTE

#### DSI6

| Test No. | Band   | Mode    | Channel | RB | offset | Test Position | Separation Distance (mm) | Ant   | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------|---------|---------|----|--------|---------------|--------------------------|-------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L244     | LTE B2 | QPSK20M | 18900   | 1  | 0      | Front Side    | 15                       | Ant13 | 1   | 20.00                 | 19.51                 | 0.02             | 0.119         | 0.072          | 0.133                  |
| L245     | LTE B2 | QPSK20M | 18900   | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 20.00                 | 19.51                 | 0.14             | 0.271         | 0.156          | 0.303                  |
| L246     | LTE B2 | QPSK20M | 18900   | 50 | 0      | Front Side    | 15                       | Ant13 | 1   | 20.00                 | 19.34                 | -0.05            | 0.111         | 0.068          | 0.129                  |
| L247     | LTE B2 | QPSK20M | 18900   | 50 | 0      | Back Side     | 15                       | Ant13 | 1   | 20.00                 | 19.34                 | 0.09             | 0.247         | 0.142          | 0.288                  |
| L248     | LTE B2 | QPSK20M | 18700   | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 20.00                 | 19.24                 | 0.06             | 0.241         | 0.140          | 0.287                  |
| L249     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 20.00                 | 19.37                 | 0.07             | <b>0.319</b>  | <b>0.183</b>   | <b>0.369</b>           |
| L250     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Back Side     | 15                       | Ant13 | 2   | 20.00                 | 19.37                 | -0.01            | 0.314         | 0.182          | 0.363                  |
| L252     | LTE B2 | QPSK20M | 18900   | 1  | 99     | Front Side    | 15                       | Ant31 | 1   | 21.50                 | 20.25                 | 0.08             | 0.132         | 0.083          | 0.176                  |
| L253     | LTE B2 | QPSK20M | 18900   | 1  | 99     | Back Side     | 15                       | Ant31 | 1   | 21.50                 | 20.25                 | 0.07             | <b>0.220</b>  | <b>0.135</b>   | <b>0.293</b>           |
| L254     | LTE B2 | QPSK20M | 18900   | 50 | 50     | Front Side    | 15                       | Ant31 | 1   | 21.50                 | 20.20                 | -0.06            | 0.127         | 0.081          | 0.171                  |
| L255     | LTE B2 | QPSK20M | 18900   | 50 | 50     | Back Side     | 15                       | Ant31 | 1   | 21.50                 | 20.20                 | 0.14             | 0.215         | 0.132          | 0.290                  |
| L256     | LTE B2 | QPSK20M | 18700   | 1  | 0      | Back Side     | 15                       | Ant31 | 1   | 21.50                 | 20.23                 | 0.03             | 0.138         | 0.085          | 0.185                  |
| L257     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Back Side     | 15                       | Ant31 | 1   | 21.50                 | 20.11                 | 0.02             | 0.203         | 0.130          | 0.280                  |
| L258     | LTE B2 | QPSK20M | 18900   | 1  | 99     | Back Side     | 15                       | Ant31 | 2   | 21.50                 | 20.25                 | -0.05            | 0.208         | 0.134          | 0.277                  |
| L260     | LTE B4 | QPSK20M | 20175   | 1  | 0      | Front Side    | 15                       | Ant13 | 1   | 21.50                 | 20.59                 | 0.09             | 0.163         | 0.0947         | 0.201                  |
| L261     | LTE B4 | QPSK20M | 20175   | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 21.50                 | 20.59                 | 0.01             | 0.287         | 0.163          | 0.354                  |
| L262     | LTE B4 | QPSK20M | 20050   | 50 | 25     | Front Side    | 15                       | Ant13 | 1   | 21.50                 | 20.52                 | -0.06            | 0.169         | 0.0976         | 0.212                  |
| L263     | LTE B4 | QPSK20M | 20050   | 50 | 25     | Back Side     | 15                       | Ant13 | 1   | 21.50                 | 20.52                 | 0.11             | 0.284         | 0.163          | 0.356                  |
| L264     | LTE B4 | QPSK20M | 20050   | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 21.50                 | 20.58                 | 0.03             | 0.253         | 0.145          | 0.313                  |
| L265     | LTE B4 | QPSK20M | 20300   | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 21.50                 | 20.32                 | -0.07            | <b>0.342</b>  | <b>0.195</b>   | <b>0.449</b>           |
| L266     | LTE B4 | QPSK20M | 20300   | 1  | 0      | Back Side     | 15                       | Ant13 | 2   | 21.50                 | 20.32                 | -0.02            | 0.309         | 0.18           | 0.405                  |
| L268     | LTE B4 | QPSK20M | 20050   | 1  | 0      | Front Side    | 15                       | Ant31 | 1   | 22.50                 | 21.73                 | 0.17             | 0.099         | 0.0633         | 0.118                  |
| L269     | LTE B4 | QPSK20M | 20050   | 1  | 0      | Back Side     | 15                       | Ant31 | 1   | 22.50                 | 21.73                 | 0.02             | 0.205         | 0.131          | 0.245                  |
| L270     | LTE B4 | QPSK20M | 20050   | 50 | 0      | Front Side    | 15                       | Ant31 | 1   | 22.50                 | 21.64                 | 0.06             | 0.097         | 0.0633         | 0.118                  |
| L271     | LTE B4 | QPSK20M | 20050   | 50 | 0      | Back Side     | 15                       | Ant31 | 1   | 22.50                 | 21.64                 | -0.11            | 0.235         | 0.147          | 0.286                  |
| L272     | LTE B4 | QPSK20M | 20175   | 50 | 0      | Back Side     | 15                       | Ant31 | 1   | 22.50                 | 21.62                 | 0.08             | 0.237         | 0.148          | 0.290                  |
| L273     | LTE B4 | QPSK20M | 20300   | 50 | 50     | Back Side     | 15                       | Ant31 | 1   | 22.50                 | 21.63                 | 0.01             | <b>0.244</b>  | <b>0.152</b>   | <b>0.298</b>           |
| L274     | LTE B4 | QPSK20M | 20300   | 50 | 50     | Back Side     | 15                       | Ant31 | 2   | 22.50                 | 21.63                 | -0.03            | 0.234         | 0.148          | 0.286                  |
| L276     | LTE B5 | QPSK10M | 20450   | 1  | 24     | Front Side    | 15                       | Ant13 | 1   | 25.00                 | 24.53                 | 0.06             | 0.165         | 0.104          | 0.184                  |
| L277     | LTE B5 | QPSK10M | 20450   | 1  | 24     | Back Side     | 15                       | Ant13 | 1   | 25.00                 | 24.53                 | 0.04             | 0.194         | 0.133          | 0.216                  |
| L278     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Front Side    | 15                       | Ant13 | 1   | 24.00                 | 23.73                 | 0.11             | 0.146         | 0.0941         | 0.155                  |
| L279     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Back Side     | 15                       | Ant13 | 1   | 24.00                 | 23.73                 | 0.08             | 0.177         | 0.121          | 0.188                  |
| L280     | LTE B5 | QPSK10M | 20525   | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 25.00                 | 24.21                 | -0.04            | 0.191         | 0.13           | 0.229                  |
| L281     | LTE B5 | QPSK10M | 20600   | 1  | 49     | Back Side     | 15                       | Ant13 | 1   | 25.00                 | 24.35                 | 0.03             | <b>0.202</b>  | <b>0.136</b>   | <b>0.235</b>           |
| L282     | LTE B5 | QPSK10M | 20600   | 1  | 49     | Back Side     | 15                       | Ant13 | 2   | 25.00                 | 24.35                 | -0.06            | 0.195         | 0.133          | 0.226                  |
| L284     | LTE B5 | QPSK10M | 20450   | 1  | 24     | Front Side    | 15                       | Ant31 | 1   | 25.00                 | 24.55                 | 0.04             | 0.118         | 0.0843         | 0.131                  |
| L285     | LTE B5 | QPSK10M | 20450   | 1  | 24     | Back Side     | 15                       | Ant31 | 1   | 25.00                 | 24.55                 | 0.07             | 0.121         | 0.088          | 0.134                  |
| L286     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Front Side    | 15                       | Ant31 | 1   | 24.00                 | 23.89                 | -0.11            | 0.107         | 0.078          | 0.110                  |
| L287     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Back Side     | 15                       | Ant31 | 1   | 24.00                 | 23.89                 | 0.06             | 0.113         | 0.082          | 0.116                  |
| L288     | LTE B5 | QPSK10M | 20525   | 1  | 0      | Back Side     | 15                       | Ant31 | 1   | 25.00                 | 24.27                 | 0.16             | 0.126         | 0.091          | 0.149                  |
| L289     | LTE B5 | QPSK10M | 20600   | 1  | 49     | Back Side     | 15                       | Ant31 | 1   | 25.00                 | 24.44                 | 0.03             | <b>0.158</b>  | <b>0.101</b>   | <b>0.180</b>           |
| L290     | LTE B5 | QPSK10M | 20600   | 1  | 49     | Back Side     | 15                       | Ant31 | 2   | 25.00                 | 24.44                 | 0.07             | 0.154         | 0.110          | 0.175                  |

| Test No. | Band    | Mode    | Channel | RB | offset | Test Position | Separation Distance (mm) | Ant   | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|---------|----|--------|---------------|--------------------------|-------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L292     | LTE B7  | QPKS20M | 21350   | 1  | 0      | Front Side    | 15                       | Ant13 | 1   | 18.50                 | 18.22                 | 0.05             | 0.0994        | 0.0548         | 0.106                  |
| L293     | LTE B7  | QPKS20M | 21350   | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 18.50                 | 18.22                 | 0.03             | 0.324         | 0.168          | 0.346                  |
| L294     | LTE B7  | QPKS20M | 21350   | 50 | 0      | Front Side    | 15                       | Ant13 | 1   | 18.50                 | 18.09                 | -0.04            | 0.0887        | 0.0494         | 0.097                  |
| L295     | LTE B7  | QPKS20M | 21350   | 50 | 0      | Back Side     | 15                       | Ant13 | 1   | 18.50                 | 18.09                 | 0.03             | 0.282         | 0.1473         | 0.310                  |
| L296     | LTE B7  | QPKS20M | 20850   | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 18.50                 | 17.96                 | 0.16             | 0.278         | 0.143          | 0.315                  |
| L297     | LTE B7  | QPKS20M | 21100   | 1  | 99     | Back Side     | 15                       | Ant13 | 1   | 18.50                 | 17.75                 | 0.03             | <b>0.357</b>  | <b>0.185</b>   | <b>0.424</b>           |
| L298     | LTE B7  | QPKS20M | 21100   | 1  | 99     | Back Side     | 15                       | Ant13 | 2   | 18.50                 | 17.75                 | -0.09            | 0.349         | 0.18           | 0.415                  |
| L300     | LTE B7  | QPKS20M | 20850   | 1  | 0      | Front Side    | 15                       | Ant31 | 1   | 22.50                 | 21.13                 | 0.01             | 0.159         | 0.0919         | 0.218                  |
| L301     | LTE B7  | QPKS20M | 20850   | 1  | 0      | Back Side     | 15                       | Ant31 | 1   | 22.50                 | 21.13                 | -0.14            | <b>0.175</b>  | <b>0.097</b>   | <b>0.240</b>           |
| L302     | LTE B7  | QPKS20M | 20850   | 50 | 0      | Front Side    | 15                       | Ant31 | 1   | 22.50                 | 21.11                 | -0.05            | 0.16          | 0.0919         | 0.220                  |
| L303     | LTE B7  | QPKS20M | 20850   | 50 | 0      | Back Side     | 15                       | Ant31 | 1   | 22.50                 | 21.11                 | 0.08             | 0.164         | 0.0931         | 0.226                  |
| L304     | LTE B7  | QPKS20M | 21100   | 1  | 0      | Back Side     | 15                       | Ant31 | 1   | 22.50                 | 21.02                 | 0.02             | 0.142         | 0.0803         | 0.200                  |
| L305     | LTE B7  | QPKS20M | 21350   | 1  | 50     | Back Side     | 15                       | Ant31 | 1   | 22.50                 | 20.89                 | 0.07             | 0.161         | 0.0872         | 0.233                  |
| L306     | LTE B7  | QPKS20M | 20850   | 1  | 0      | Back Side     | 15                       | Ant31 | 2   | 22.50                 | 21.13                 | -0.05            | 0.168         | 0.0954         | 0.230                  |
| L308     | LTE B13 | QPSK10M | 23230   | 1  | 0      | Front Side    | 15                       | Ant13 | 1   | 25.00                 | 24.55                 | 0.12             | 0.097         | 0.071          | 0.108                  |
| L309     | LTE B13 | QPSK10M | 23230   | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 25.00                 | 24.55                 | -0.06            | <b>0.122</b>  | <b>0.094</b>   | <b>0.135</b>           |
| L310     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Front Side    | 15                       | Ant13 | 1   | 24.00                 | 23.70                 | -0.02            | 0.085         | 0.031          | 0.091                  |
| L311     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Back Side     | 15                       | Ant13 | 1   | 24.00                 | 23.70                 | 0.09             | 0.113         | 0.087          | 0.121                  |
| L312     | LTE B13 | QPSK10M | 23230   | 1  | 0      | Back Side     | 15                       | Ant13 | 2   | 25.00                 | 24.55                 | 0.04             | 0.118         | 0.093          | 0.131                  |
| L314     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Front Side    | 15                       | Ant31 | 1   | 25.00                 | 24.50                 | 0.03             | 0.109         | 0.087          | 0.122                  |
| L315     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Back Side     | 15                       | Ant31 | 1   | 25.00                 | 24.50                 | -0.04            | <b>0.133</b>  | <b>0.103</b>   | <b>0.149</b>           |
| L316     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Front Side    | 15                       | Ant31 | 1   | 24.00                 | 23.76                 | 0.12             | 0.101         | 0.080          | 0.107                  |
| L317     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Back Side     | 15                       | Ant31 | 1   | 24.00                 | 23.76                 | 0.09             | 0.113         | 0.090          | 0.119                  |
| L318     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Back Side     | 15                       | Ant31 | 2   | 25.00                 | 24.50                 | 0.08             | 0.126         | 0.100          | 0.141                  |
| L320     | LTE B26 | QPSK15M | 26765   | 1  | 0      | Front Side    | 15                       | Ant13 | 1   | 25.00                 | 24.31                 | 0.02             | 0.11          | 0.0757         | 0.129                  |
| L321     | LTE B26 | QPSK15M | 26765   | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 25.00                 | 24.31                 | -0.07            | 0.135         | 0.0931         | 0.158                  |
| L322     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Front Side    | 15                       | Ant13 | 1   | 24.00                 | 23.23                 | -0.13            | 0.107         | 0.0686         | 0.128                  |
| L323     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Back Side     | 15                       | Ant13 | 1   | 24.00                 | 23.23                 | 0.01             | 0.13          | 0.086          | 0.155                  |
| L324     | LTE B26 | QPSK15M | 26865   | 1  | 74     | Back Side     | 15                       | Ant13 | 1   | 25.00                 | 24.23                 | 0.05             | 0.152         | 0.103          | 0.181                  |
| L325     | LTE B26 | QPSK15M | 26965   | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 25.00                 | 24.15                 | 0.01             | <b>0.155</b>  | <b>0.105</b>   | <b>0.189</b>           |
| L326     | LTE B26 | QPSK15M | 26965   | 1  | 0      | Back Side     | 15                       | Ant13 | 2   | 25.00                 | 24.15                 | 0.09             | 0.149         | 0.102          | 0.181                  |
| L328     | LTE B26 | QPSK15M | 26765   | 1  | 0      | Front Side    | 15                       | Ant31 | 1   | 24.50                 | 23.65                 | 0.06             | 0.106         | 0.0672         | 0.129                  |
| L329     | LTE B26 | QPSK15M | 26765   | 1  | 0      | Back Side     | 15                       | Ant31 | 1   | 24.50                 | 23.65                 | -0.17            | 0.107         | 0.0681         | 0.130                  |
| L330     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Front Side    | 15                       | Ant31 | 1   | 23.50                 | 22.80                 | 0.02             | 0.113         | 0.0716         | 0.133                  |
| L331     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Back Side     | 15                       | Ant31 | 1   | 23.50                 | 22.80                 | 0.05             | 0.116         | 0.0734         | 0.136                  |
| L332     | LTE B26 | QPSK15M | 26765   | 36 | 19     | Back Side     | 15                       | Ant31 | 1   | 23.50                 | 22.66                 | 0.08             | 0.105         | 0.0672         | 0.127                  |
| L333     | LTE B26 | QPSK15M | 26965   | 36 | 39     | Back Side     | 15                       | Ant31 | 1   | 23.50                 | 22.75                 | 0.01             | <b>0.132</b>  | <b>0.083</b>   | <b>0.157</b>           |
| L334     | LTE B26 | QPSK15M | 26965   | 36 | 39     | Back Side     | 15                       | Ant31 | 2   | 23.50                 | 22.75                 | -0.14            | 0.129         | 0.0823         | 0.153                  |
| L336     | LTE B38 | QPSK20M | 38000   | 1  | 50     | Front Side    | 15                       | Ant13 | 1   | 21.50                 | 20.87                 | 0.02             | 0.086         | 0.051          | 0.099                  |
| L337     | LTE B38 | QPSK20M | 38000   | 1  | 50     | Back Side     | 15                       | Ant13 | 1   | 21.50                 | 20.87                 | -0.06            | 0.257         | 0.142          | 0.297                  |
| L338     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Front Side    | 15                       | Ant13 | 1   | 21.50                 | 20.65                 | 0.01             | 0.088         | 0.051          | 0.107                  |
| L339     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Back Side     | 15                       | Ant13 | 1   | 21.50                 | 20.65                 | 0.13             | 0.240         | 0.135          | 0.292                  |
| L340     | LTE B38 | QPSK20M | 37850   | 1  | 99     | Back Side     | 15                       | Ant13 | 1   | 21.50                 | 20.53                 | 0.08             | <b>0.268</b>  | <b>0.148</b>   | <b>0.335</b>           |
| L341     | LTE B38 | QPSK20M | 38150   | 1  | 99     | Back Side     | 15                       | Ant13 | 1   | 21.50                 | 20.70                 | 0.09             | 0.232         | 0.129          | 0.279                  |
| L342     | LTE B38 | QPSK20M | 37850   | 1  | 99     | Back Side     | 15                       | Ant13 | 2   | 21.50                 | 20.53                 | -0.05            | 0.246         | 0.139          | 0.308                  |

| Test No. | Band    | Mode    | Channel | RB | offset | Test Position | Separation Distance (mm) | Ant   | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|---------|----|--------|---------------|--------------------------|-------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L344     | LTE B38 | QPSK20M | 38000   | 1  | 99     | Front Side    | 15                       | Ant31 | 1   | 23.50                 | 22.28                 | 0.05             | 0.120         | 0.069          | 0.159                  |
| L345     | LTE B38 | QPSK20M | 38000   | 1  | 99     | Back Side     | 15                       | Ant31 | 1   | 23.50                 | 22.28                 | -0.12            | <b>0.125</b>  | <b>0.064</b>   | <b>0.166</b>           |
| L346     | LTE B38 | QPSK20M | 38150   | 50 | 25     | Front Side    | 15                       | Ant31 | 1   | 22.50                 | 22.00                 | 0.03             | 0.115         | 0.066          | 0.129                  |
| L347     | LTE B38 | QPSK20M | 38150   | 50 | 25     | Back Side     | 15                       | Ant31 | 1   | 22.50                 | 22.00                 | 0.06             | 0.121         | 0.062          | 0.136                  |
| L348     | LTE B38 | QPSK20M | 37850   | 1  | 99     | Back Side     | 15                       | Ant31 | 1   | 23.50                 | 21.98                 | -0.12            | 0.108         | 0.057          | 0.153                  |
| L349     | LTE B38 | QPSK20M | 38150   | 1  | 99     | Back Side     | 15                       | Ant31 | 1   | 23.50                 | 22.12                 | 0.04             | 0.119         | 0.062          | 0.164                  |
| L350     | LTE B38 | QPSK20M | 38000   | 1  | 99     | Back Side     | 15                       | Ant31 | 2   | 23.50                 | 22.28                 | 0.08             | 0.111         | 0.059          | 0.147                  |
| L352     | LTE B41 | QPSK20M | 40640   | 1  | 99     | Front Side    | 15                       | Ant13 | 1   | 21.50                 | 20.88                 | 0.04             | 0.069         | 0.039          | 0.079                  |
| L353     | LTE B41 | QPSK20M | 40640   | 1  | 99     | Back Side     | 15                       | Ant13 | 1   | 21.50                 | 20.88                 | -0.15            | 0.206         | 0.110          | 0.238                  |
| L354     | LTE B41 | QPSK20M | 41140   | 50 | 50     | Front Side    | 15                       | Ant13 | 1   | 21.50                 | 20.83                 | 0.06             | 0.063         | 0.034          | 0.074                  |
| L355     | LTE B41 | QPSK20M | 41140   | 50 | 50     | Back Side     | 15                       | Ant13 | 1   | 21.50                 | 20.83                 | 0.07             | 0.227         | 0.120          | 0.265                  |
| L356     | LTE B41 | QPSK20M | 40140   | 50 | 50     | Back Side     | 15                       | Ant13 | 1   | 21.50                 | 20.73                 | 0.08             | <b>0.275</b>  | <b>0.143</b>   | <b>0.328</b>           |
| L357     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Back Side     | 15                       | Ant13 | 1   | 21.50                 | 20.81                 | -0.01            | 0.223         | 0.119          | 0.261                  |
| L358     | LTE B41 | QPSK20M | 40140   | 50 | 50     | Back Side     | 15                       | Ant13 | 2   | 21.50                 | 20.73                 | 0.15             | 0.262         | 0.135          | 0.313                  |
| L360     | LTE B41 | QPSK20M | 40640   | 1  | 0      | Front Side    | 15                       | Ant31 | 1   | 23.00                 | 22.25                 | 0.05             | 0.131         | 0.075          | 0.156                  |
| L361     | LTE B41 | QPSK20M | 40640   | 1  | 0      | Back Side     | 15                       | Ant31 | 1   | 23.00                 | 22.25                 | 0.14             | 0.137         | 0.069          | 0.163                  |
| L362     | LTE B41 | QPSK20M | 40640   | 50 | 25     | Front Side    | 15                       | Ant31 | 1   | 23.00                 | 22.19                 | -0.09            | 0.138         | 0.080          | 0.166                  |
| L363     | LTE B41 | QPSK20M | 40640   | 50 | 25     | Back Side     | 15                       | Ant31 | 1   | 23.00                 | 22.19                 | 0.01             | 0.146         | 0.074          | 0.176                  |
| L364     | LTE B41 | QPSK20M | 40140   | 50 | 0      | Back Side     | 15                       | Ant31 | 1   | 23.00                 | 22.12                 | -0.08            | 0.132         | 0.072          | 0.162                  |
| L365     | LTE B41 | QPSK20M | 41140   | 50 | 50     | Back Side     | 15                       | Ant31 | 1   | 23.00                 | 22.17                 | -0.15            | <b>0.181</b>  | <b>0.091</b>   | <b>0.219</b>           |
| L366     | LTE B41 | QPSK20M | 41140   | 50 | 50     | Back Side     | 15                       | Ant31 | 2   | 23.00                 | 22.17                 | 0.12             | 0.177         | 0.097          | 0.214                  |
| L368     | LTE B66 | QPSK20M | 132072  | 1  | 0      | Front Side    | 15                       | Ant13 | 1   | 21.00                 | 20.42                 | -0.07            | 0.112         | 0.0662         | 0.128                  |
| L369     | LTE B66 | QPSK20M | 132072  | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 21.00                 | 20.42                 | 0.06             | 0.187         | 0.11           | 0.214                  |
| L370     | LTE B66 | QPSK20M | 132072  | 50 | 0      | Front Side    | 15                       | Ant13 | 1   | 21.00                 | 20.36                 | 0.01             | 0.108         | 0.0652         | 0.125                  |
| L371     | LTE B66 | QPSK20M | 132072  | 50 | 0      | Back Side     | 15                       | Ant13 | 1   | 21.00                 | 20.36                 | 0.09             | 0.181         | 0.104          | 0.210                  |
| L372     | LTE B66 | QPSK20M | 132322  | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 21.00                 | 20.30                 | 0.05             | 0.220         | 0.126          | 0.258                  |
| L373     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Back Side     | 15                       | Ant13 | 1   | 21.00                 | 20.13                 | -0.04            | <b>0.280</b>  | <b>0.160</b>   | <b>0.342</b>           |
| L374     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Back Side     | 15                       | Ant13 | 2   | 21.00                 | 20.13                 | 0.03             | 0.268         | 0.155          | 0.327                  |
| L376     | LTE B66 | QPSK20M | 132072  | 1  | 0      | Front Side    | 15                       | Ant31 | 1   | 21.50                 | 20.75                 | -0.07            | 0.0925        | 0.0607         | 0.110                  |
| L377     | LTE B66 | QPSK20M | 132072  | 1  | 0      | Back Side     | 15                       | Ant31 | 1   | 21.50                 | 20.75                 | -0.15            | 0.197         | 0.126          | 0.234                  |
| L378     | LTE B66 | QPSK20M | 132072  | 50 | 0      | Front Side    | 15                       | Ant31 | 1   | 21.50                 | 20.59                 | 0.02             | 0.0872        | 0.057          | 0.108                  |
| L379     | LTE B66 | QPSK20M | 132072  | 50 | 0      | Back Side     | 15                       | Ant31 | 1   | 21.50                 | 20.59                 | 0.06             | 0.185         | 0.117          | 0.228                  |
| L380     | LTE B66 | QPSK20M | 132322  | 1  | 0      | Back Side     | 15                       | Ant31 | 1   | 21.50                 | 20.45                 | 0.03             | 0.199         | 0.123          | 0.253                  |
| L381     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Back Side     | 15                       | Ant31 | 1   | 21.50                 | 20.47                 | 0.03             | <b>0.206</b>  | <b>0.127</b>   | <b>0.261</b>           |
| L382     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Back Side     | 15                       | Ant31 | 2   | 21.50                 | 20.47                 | 0.08             | 0.185         | 0.116          | 0.235                  |

Note: The value with boldface is the maximum SAR Value of each test band.

#### 4. Body-worn SAR test results of WiFi 2.4G

| Test No. | Band      | Mode    | Channel | Test Position | Separation Distance (mm) | Data Rate | Duty Cycle (%) | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|---------|---------|---------------|--------------------------|-----------|----------------|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| W35      | WiFi 2.4G | 802.11b | 6       | Front Side    | 15                       | 1M        | 97.55          | 20.00                 | 18.34                 | 0.17             | 0.143         | 0.079          | 0.215                  |
| W36      | WiFi 2.4G | 802.11b | 6       | Back Side     | 15                       | 1M        | 97.55          | 20.00                 | 18.34                 | -0.08            | <b>0.171</b>  | <b>0.088</b>   | <b>0.257</b>           |
| W37      | WiFi 2.4G | 802.11b | 1       | Back Side     | 15                       | 1M        | 97.55          | 20.00                 | 18.17                 | 0.03             | 0.141         | 0.078          | 0.220                  |
| W38      | WiFi 2.4G | 802.11b | 11      | Back Side     | 15                       | 1M        | 97.55          | 20.00                 | 18.04                 | 0.12             | 0.139         | 0.076          | 0.224                  |

Note: The value with boldface is the maximum SAR Value of each test band.

#### 5. Body-worn SAR test results of BT

| Test No. | Band | Mode | Channel | Test Position | Separation Distance (mm) | Data Rate | Duty Cycle (%) | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|------|------|---------|---------------|--------------------------|-----------|----------------|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| B07      | BT   | DH5  | 39      | Front Side    | 15                       | 1M        | 78.06          | 9.00                  | 8.78                  | 0.01             | 0.023         | 0.013          | 0.031                  |
| B08      | BT   | DH5  | 39      | Back Side     | 15                       | 1M        | 78.06          | 9.00                  | 8.78                  | -0.04            | <b>0.029</b>  | <b>0.014</b>   | <b>0.039</b>           |
| B09      | BT   | DH5  | 0       | Back Side     | 15                       | 1M        | 78.06          | 9.00                  | 7.30                  | 0.14             | 0.012         | 0.007          | 0.023                  |
| B10      | BT   | DH5  | 78      | Back Side     | 15                       | 1M        | 78.06          | 9.00                  | 7.83                  | -0.17            | 0.018         | 0.009          | 0.030                  |

Note: The value with boldface is the maximum SAR Value of each test band.

#### 6. Body-worn SAR test results of WiFi 5G

| Test No. | Band              | Mode    | Channel | Test Position | Separation Distance (mm) | Data Rate | Duty Cycle (%) | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|---------|---------|---------------|--------------------------|-----------|----------------|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| W40      | WiFi 5.2G UNII_1  | 802.11a | 48      | Front Side    | 15                       | 6M        | 89.90          | 19.00                 | 17.84                 | 0.03             | 0.091         | 0.038          | 0.131                  |
| W41      | WiFi 5.2G UNII_1  | 802.11a | 48      | Back Side     | 15                       | 6M        | 89.90          | 19.00                 | 17.84                 | -0.05            | 0.234         | 0.092          | 0.340                  |
| W42      | WiFi 5.2G UNII_1  | 802.11a | 36      | Back Side     | 15                       | 6M        | 89.90          | 19.00                 | 17.71                 | -0.02            | <b>0.236</b>  | <b>0.094</b>   | <b>0.353</b>           |
| W44      | WiFi 5.3G UNII_2A | 802.11a | 52      | Front Side    | 15                       | 6M        | 89.90          | 19.00                 | 18.57                 | -0.15            | 0.129         | 0.050          | 0.158                  |
| W45      | WiFi 5.3G UNII_2A | 802.11a | 52      | Back Side     | 15                       | 6M        | 89.90          | 19.00                 | 18.57                 | -0.01            | 0.297         | 0.114          | 0.365                  |
| W46      | WiFi 5.3G UNII_2A | 802.11a | 64      | Back Side     | 15                       | 6M        | 89.90          | 19.00                 | 18.36                 | 0.03             | <b>0.308</b>  | <b>0.119</b>   | <b>0.397</b>           |
| W48      | WiFi 5.6G UNII_2C | 802.11a | 120     | Front Side    | 15                       | 6M        | 89.90          | 19.00                 | 18.21                 | 0.12             | 0.251         | 0.101          | 0.335                  |
| W49      | WiFi 5.6G UNII_2C | 802.11a | 120     | Back Side     | 15                       | 6M        | 89.90          | 19.00                 | 18.21                 | 0.18             | 0.468         | 0.180          | 0.624                  |
| W50      | WiFi 5.6G UNII_2C | 802.11a | 100     | Back Side     | 15                       | 6M        | 89.90          | 19.00                 | 18.16                 | -0.04            | 0.437         | 0.175          | 0.590                  |
| W51      | WiFi 5.6G UNII_2C | 802.11a | 140     | Back Side     | 15                       | 6M        | 89.90          | 19.00                 | 17.66                 | -0.02            | <b>0.511</b>  | <b>0.196</b>   | <b>0.774</b>           |
| W53      | WiFi 5.8G UNII_3  | 802.11a | 149     | Front Side    | 15                       | 6M        | 89.90          | 16.00                 | 15.62                 | 0.11             | 0.154         | 0.068          | 0.187                  |
| W54      | WiFi 5.8G UNII_3  | 802.11a | 149     | Back Side     | 15                       | 6M        | 89.90          | 16.00                 | 15.62                 | 0.06             | 0.574         | 0.214          | 0.697                  |
| W55      | WiFi 5.8G UNII_3  | 802.11a | 157     | Back Side     | 15                       | 6M        | 89.90          | 16.00                 | 15.57                 | 0.13             | 0.540         | 0.209          | 0.663                  |
| W56      | WiFi 5.8G UNII_3  | 802.11a | 165     | Back Side     | 15                       | 6M        | 89.90          | 16.00                 | 15.54                 | -0.02            | <b>0.578</b>  | <b>0.211</b>   | <b>0.715</b>           |

Note: The value with boldface is the maximum SAR Value of each test band.

### 6.2.3 SAR MEASUREMENT RESULT OF HOTSPOT

#### 1. Hotspot SAR test results of GSM

DSI8

| Test No. | Band     | Mode      | Channel | Test Position | Separation Distance (mm) | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|-----------|---------|---------------|--------------------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| G55      | GSM 850  | GPRS 2 TX | 251     | Front Side    | 10                       | Ant 13 | 1   | 32.00                 | 31.46                 | 0.02             | 0.297         | 0.198          | 0.336                  |
| G56      | GSM 850  | GPRS 2 TX | 251     | Back Side     | 10                       | Ant 13 | 1   | 32.00                 | 31.46                 | 0.12             | 0.383         | 0.261          | 0.434                  |
| G57      | GSM 850  | GPRS 2 TX | 251     | Left Side     | 10                       | Ant 13 | 1   | 32.00                 | 31.46                 | 0.06             | 0.135         | 0.092          | 0.153                  |
| G58      | GSM 850  | GPRS 2 TX | 251     | Right Side    | 10                       | Ant 13 | 1   | 32.00                 | 31.46                 | -0.09            | 0.164         | 0.115          | 0.186                  |
| G59      | GSM 850  | GPRS 2 TX | 251     | Top Side      | 10                       | Ant 13 | 1   | 32.00                 | 31.46                 | 0.11             | 0.347         | 0.211          | 0.393                  |
| G60      | GSM 850  | GPRS 2 TX | 251     | Bottom Side   | 10                       | Ant 13 | 1   | 32.00                 | 31.46                 | 0.03             | 0.0147        | 0.0101         | 0.017                  |
| G61      | GSM 850  | GPRS 2 TX | 190     | Back Side     | 10                       | Ant 13 | 1   | 32.00                 | 31.42                 | -0.02            | <b>0.410</b>  | <b>0.263</b>   | <b>0.469</b>           |
| G62      | GSM 850  | GPRS 2 TX | 128     | Back Side     | 10                       | Ant 13 | 1   | 32.00                 | 31.37                 | 0.06             | 0.314         | 0.209          | 0.363                  |
| G63      | GSM 850  | GPRS 2 TX | 190     | Back Side     | 10                       | Ant 13 | 2   | 32.00                 | 31.42                 | 0.18             | 0.395         | 0.257          | 0.451                  |
| G65      | GSM 850  | GPRS 2 TX | 251     | Front Side    | 10                       | Ant 31 | 1   | 31.00                 | 30.38                 | 0.02             | 0.224         | 0.133          | 0.258                  |
| G66      | GSM 850  | GPRS 2 TX | 251     | Back Side     | 10                       | Ant 31 | 1   | 31.00                 | 30.38                 | -0.012           | 0.309         | 0.189          | 0.356                  |
| G67      | GSM 850  | GPRS 2 TX | 251     | Left Side     | 10                       | Ant 31 | 1   | 31.00                 | 30.38                 | 0.06             | 0.266         | 0.144          | 0.307                  |
| G68      | GSM 850  | GPRS 2 TX | 251     | Right Side    | 10                       | Ant 31 | 1   | 31.00                 | 30.38                 | 0.08             | 0.132         | 0.088          | 0.152                  |
| G69      | GSM 850  | GPRS 2 TX | 251     | Top Side      | 10                       | Ant 31 | 1   | 31.00                 | 30.38                 | 0.15             | 0.016         | 0.011          | 0.018                  |
| G70      | GSM 850  | GPRS 2 TX | 251     | Bottom Side   | 10                       | Ant 31 | 1   | 31.00                 | 30.38                 | 0.03             | 0.277         | 0.141          | 0.320                  |
| G71      | GSM 850  | GPRS 2 TX | 190     | Back Side     | 10                       | Ant 31 | 1   | 31.00                 | 30.36                 | 0.02             | 0.253         | 0.159          | 0.293                  |
| G72      | GSM 850  | GPRS 2 TX | 128     | Back Side     | 10                       | Ant 31 | 1   | 31.00                 | 30.32                 | -0.09            | 0.172         | 0.112          | 0.201                  |
| G73      | GSM 850  | GPRS 2 TX | 251     | Back Side     | 10                       | Ant 31 | 2   | 31.00                 | 30.38                 | 0                | <b>0.322</b>  | <b>0.197</b>   | <b>0.371</b>           |
| G75      | GSM 1900 | GPRS 2 TX | 661     | Front Side    | 10                       | Ant 13 | 1   | 24.50                 | 24.48                 | -0.19            | 0.142         | 0.083          | 0.143                  |
| G76      | GSM 1900 | GPRS 2 TX | 661     | Back Side     | 10                       | Ant 13 | 1   | 24.50                 | 24.48                 | 0.08             | 0.321         | 0.170          | 0.322                  |
| G77      | GSM 1900 | GPRS 2 TX | 661     | Left Side     | 10                       | Ant 13 | 1   | 24.50                 | 24.48                 | 0.13             | 0.058         | 0.034          | 0.058                  |
| G78      | GSM 1900 | GPRS 2 TX | 661     | Right Side    | 10                       | Ant 13 | 1   | 24.50                 | 24.48                 | 0.04             | 0.066         | 0.042          | 0.066                  |
| G79      | GSM 1900 | GPRS 2 TX | 661     | Top Side      | 10                       | Ant 13 | 1   | 24.50                 | 24.48                 | -0.08            | 0.385         | 0.196          | 0.387                  |
| G80      | GSM 1900 | GPRS 2 TX | 661     | Bottom Side   | 10                       | Ant 13 | 1   | 24.50                 | 24.48                 | 0.06             | 0.023         | 0.012          | 0.023                  |
| G81      | GSM 1900 | GPRS 2 TX | 512     | Top Side      | 10                       | Ant 13 | 1   | 24.50                 | 24.41                 | 0.05             | <b>0.435</b>  | <b>0.221</b>   | <b>0.444</b>           |
| G82      | GSM 1900 | GPRS 2 TX | 810     | Top Side      | 10                       | Ant 13 | 1   | 24.50                 | 24.31                 | 0.12             | 0.399         | 0.198          | 0.417                  |
| G83      | GSM 1900 | GPRS 2 TX | 810     | Top Side      | 10                       | Ant 13 | 2   | 24.50                 | 24.31                 | -0.04            | 0.406         | 0.203          | 0.424                  |
| G85      | GSM 1900 | GPRS 2 TX | 661     | Front Side    | 10                       | Ant 31 | 1   | 26.50                 | 25.64                 | 0.03             | 0.117         | 0.075          | 0.143                  |
| G86      | GSM 1900 | GPRS 2 TX | 661     | Back Side     | 10                       | Ant 31 | 1   | 26.50                 | 25.64                 | -0.05            | 0.292         | 0.172          | 0.356                  |
| G87      | GSM 1900 | GPRS 2 TX | 661     | Left Side     | 10                       | Ant 31 | 1   | 26.50                 | 25.64                 | 0.07             | 0.032         | 0.020          | 0.039                  |
| G88      | GSM 1900 | GPRS 2 TX | 661     | Right Side    | 10                       | Ant 31 | 1   | 26.50                 | 25.64                 | 0.19             | 0.080         | 0.043          | 0.097                  |
| G89      | GSM 1900 | GPRS 2 TX | 661     | Top Side      | 10                       | Ant 31 | 1   | 26.50                 | 25.64                 | 0.08             | 0.001         | 0.005          | 0.001                  |
| G90      | GSM 1900 | GPRS 2 TX | 661     | Bottom Side   | 10                       | Ant 31 | 1   | 26.50                 | 25.64                 | 0.02             | 0.273         | 0.160          | 0.333                  |
| G91      | GSM 1900 | GPRS 2 TX | 512     | Back Side     | 10                       | Ant 31 | 1   | 26.50                 | 25.50                 | 0.04             | 0.277         | 0.163          | 0.349                  |
| G92      | GSM 1900 | GPRS 2 TX | 810     | Back Side     | 10                       | Ant 31 | 1   | 26.50                 | 25.48                 | 0.11             | <b>0.313</b>  | <b>0.179</b>   | <b>0.396</b>           |
| G93      | GSM 1900 | GPRS 2 TX | 810     | Back Side     | 10                       | Ant 31 | 2   | 26.50                 | 25.48                 | -0.03            | 0.299         | 0.176          | 0.378                  |

Note: The value with boldface is the maximum SAR Value of each test band.

## 2. Hotspot SAR test results of UMTS

### DSI8

| Test No. | Band    | Mode     | Channel | Test Position | Separation Distance (mm) | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|---------|---------------|--------------------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| U83      | UMTS B2 | RMC12.2K | 9400    | Front Side    | 10                       | Ant 13 | 1   | 18.50                 | 17.66                 | 0.02             | 0.257         | 0.147          | 0.312                  |
| U84      | UMTS B2 | RMC12.2K | 9400    | Back Side     | 10                       | Ant 13 | 1   | 18.50                 | 17.66                 | -0.13            | 0.490         | 0.252          | 0.595                  |
| U85      | UMTS B2 | RMC12.2K | 9400    | Left Side     | 10                       | Ant 13 | 1   | 18.50                 | 17.66                 | 0.05             | 0.078         | 0.048          | 0.095                  |
| U86      | UMTS B2 | RMC12.2K | 9400    | Right Side    | 10                       | Ant 13 | 1   | 18.50                 | 17.66                 | 0.13             | 0.055         | 0.035          | 0.067                  |
| U87      | UMTS B2 | RMC12.2K | 9400    | Top Side      | 10                       | Ant 13 | 1   | 18.50                 | 17.66                 | 0.16             | 0.619         | 0.323          | 0.751                  |
| U88      | UMTS B2 | RMC12.2K | 9400    | Bottom Side   | 10                       | Ant 13 | 1   | 18.50                 | 17.66                 | 0.2              | 0.026         | 0.016          | 0.032                  |
| U89      | UMTS B2 | RMC12.2K | 9262    | Top Side      | 10                       | Ant 13 | 1   | 18.50                 | 17.54                 | -0.15            | <b>0.636</b>  | <b>0.332</b>   | <b>0.793</b>           |
| U90      | UMTS B2 | RMC12.2K | 9538    | Top Side      | 10                       | Ant 13 | 1   | 18.50                 | 17.56                 | 0.03             | 0.611         | 0.319          | 0.759                  |
| U91      | UMTS B2 | RMC12.2K | 9262    | Top Side      | 10                       | Ant 13 | 2   | 18.50                 | 17.54                 | -0.11            | 0.628         | 0.325          | 0.783                  |
| U93      | UMTS B2 | RMC12.2K | 9400    | Front Side    | 10                       | Ant 31 | 1   | 20.50                 | 19.81                 | 0.01             | 0.140         | 0.088          | 0.164                  |
| U94      | UMTS B2 | RMC12.2K | 9400    | Back Side     | 10                       | Ant 31 | 1   | 20.50                 | 19.81                 | -0.08            | 0.322         | 0.187          | 0.377                  |
| U95      | UMTS B2 | RMC12.2K | 9400    | Left Side     | 10                       | Ant 31 | 1   | 20.50                 | 19.81                 | 0.02             | 0.050         | 0.031          | 0.058                  |
| U96      | UMTS B2 | RMC12.2K | 9400    | Right Side    | 10                       | Ant 31 | 1   | 20.50                 | 19.81                 | 0.17             | 0.072         | 0.041          | 0.085                  |
| U97      | UMTS B2 | RMC12.2K | 9400    | Top Side      | 10                       | Ant 31 | 1   | 20.50                 | 19.81                 | 0.09             | 0.012         | 0.008          | 0.014                  |
| U98      | UMTS B2 | RMC12.2K | 9400    | Bottom Side   | 10                       | Ant 31 | 1   | 20.50                 | 19.81                 | 0.03             | <b>0.357</b>  | <b>0.209</b>   | <b>0.418</b>           |
| U99      | UMTS B2 | RMC12.2K | 9262    | Bottom Side   | 10                       | Ant 31 | 1   | 20.50                 | 19.70                 | -0.08            | 0.336         | 0.195          | 0.404                  |
| U100     | UMTS B2 | RMC12.2K | 9538    | Bottom Side   | 10                       | Ant 31 | 1   | 20.50                 | 19.69                 | 0.01             | 0.322         | 0.189          | 0.388                  |
| U101     | UMTS B2 | RMC12.2K | 9400    | Bottom Side   | 10                       | Ant 31 | 2   | 20.50                 | 19.81                 | -0.06            | 0.355         | 0.208          | 0.416                  |
| U103     | UMTS B4 | RMC12.2K | 1413    | Front Side    | 10                       | Ant 13 | 1   | 19.50                 | 18.75                 | 0.06             | 0.277         | 0.156          | 0.329                  |
| U104     | UMTS B4 | RMC12.2K | 1413    | Back Side     | 10                       | Ant 13 | 1   | 19.50                 | 18.75                 | -0.08            | 0.448         | 0.246          | 0.532                  |
| U105     | UMTS B4 | RMC12.2K | 1413    | Left Side     | 10                       | Ant 13 | 1   | 19.50                 | 18.75                 | 0.04             | 0.109         | 0.064          | 0.130                  |
| U106     | UMTS B4 | RMC12.2K | 1413    | Right Side    | 10                       | Ant 13 | 1   | 19.50                 | 18.75                 | -0.05            | 0.058         | 0.037          | 0.069                  |
| U107     | UMTS B4 | RMC12.2K | 1413    | Top Side      | 10                       | Ant 13 | 1   | 19.50                 | 18.75                 | 0.12             | 0.510         | 0.268          | 0.606                  |
| U108     | UMTS B4 | RMC12.2K | 1413    | Bottom Side   | 10                       | Ant 13 | 1   | 19.50                 | 18.75                 | 0.06             | 0.011         | 0.007          | 0.013                  |
| U109     | UMTS B4 | RMC12.2K | 1312    | Top Side      | 10                       | Ant 13 | 1   | 19.50                 | 18.67                 | -0.09            | 0.461         | 0.240          | 0.558                  |
| U110     | UMTS B4 | RMC12.2K | 1513    | Top Side      | 10                       | Ant 13 | 1   | 19.50                 | 18.70                 | 0.07             | <b>0.550</b>  | <b>0.288</b>   | <b>0.661</b>           |
| U111     | UMTS B4 | RMC12.2K | 1513    | Top Side      | 10                       | Ant 13 | 2   | 19.50                 | 18.70                 | 0.02             | 0.524         | 0.280          | 0.630                  |
| U113     | UMTS B4 | RMC12.2K | 1413    | Front Side    | 10                       | Ant 31 | 1   | 20.00                 | 19.27                 | -0.09            | 0.115         | 0.070          | 0.136                  |
| U114     | UMTS B4 | RMC12.2K | 1413    | Back Side     | 10                       | Ant 31 | 1   | 20.00                 | 19.27                 | 0.04             | 0.258         | 0.150          | 0.305                  |
| U115     | UMTS B4 | RMC12.2K | 1413    | Left Side     | 10                       | Ant 31 | 1   | 20.00                 | 19.27                 | 0.01             | 0.013         | 0.008          | 0.016                  |
| U116     | UMTS B4 | RMC12.2K | 1413    | Right Side    | 10                       | Ant 31 | 1   | 20.00                 | 19.27                 | 0.06             | 0.060         | 0.035          | 0.071                  |
| U117     | UMTS B4 | RMC12.2K | 1413    | Top Side      | 10                       | Ant 31 | 1   | 20.00                 | 19.27                 | 0.17             | 0.074         | 0.004          | 0.088                  |
| U118     | UMTS B4 | RMC12.2K | 1413    | Bottom Side   | 10                       | Ant 31 | 1   | 20.00                 | 19.27                 | -0.02            | 0.314         | 0.179          | 0.371                  |
| U119     | UMTS B4 | RMC12.2K | 1312    | Bottom Side   | 10                       | Ant 31 | 1   | 20.00                 | 19.21                 | 0                | 0.319         | 0.180          | 0.383                  |
| U120     | UMTS B4 | RMC12.2K | 1513    | Bottom Side   | 10                       | Ant 31 | 1   | 20.00                 | 19.19                 | 0.09             | 0.294         | 0.168          | 0.354                  |
| U121     | UMTS B4 | RMC12.2K | 1312    | Bottom Side   | 10                       | Ant 31 | 2   | 20.00                 | 19.21                 | 0.05             | <b>0.324</b>  | <b>0.185</b>   | <b>0.389</b>           |

| Test No. | Band    | Mode     | Channel | Test Position | Separation Distance (mm) | Ant    | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|---------|---------------|--------------------------|--------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| U123     | UMTS B5 | RMC12.2K | 4182    | Front Side    | 10                       | Ant 13 | 1   | 25.00                 | 24.42                 | 0.08             | 0.233         | 0.156          | 0.266                  |
| U124     | UMTS B5 | RMC12.2K | 4182    | Back Side     | 10                       | Ant 13 | 1   | 25.00                 | 24.42                 | 0.04             | 0.323         | 0.211          | 0.369                  |
| U125     | UMTS B5 | RMC12.2K | 4182    | Left Side     | 10                       | Ant 13 | 1   | 25.00                 | 24.42                 | 0.01             | 0.139         | 0.097          | 0.159                  |
| U126     | UMTS B5 | RMC12.2K | 4182    | Right Side    | 10                       | Ant 13 | 1   | 25.00                 | 24.42                 | -0.09            | 0.150         | 0.105          | 0.171                  |
| U127     | UMTS B5 | RMC12.2K | 4182    | Top Side      | 10                       | Ant 13 | 1   | 25.00                 | 24.42                 | -0.04            | 0.270         | 0.167          | 0.309                  |
| U128     | UMTS B5 | RMC12.2K | 4182    | Bottom Side   | 10                       | Ant 13 | 1   | 25.00                 | 24.42                 | 0.01             | 0.003         | 0.002          | 0.003                  |
| U129     | UMTS B5 | RMC12.2K | 4132    | Back Side     | 10                       | Ant 13 | 1   | 25.00                 | 24.25                 | 0.02             | 0.313         | 0.204          | 0.372                  |
| U130     | UMTS B5 | RMC12.2K | 4233    | Back Side     | 10                       | Ant 13 | 1   | 25.00                 | 24.30                 | -0.06            | <b>0.333</b>  | <b>0.214</b>   | <b>0.391</b>           |
| U131     | UMTS B5 | RMC12.2K | 4233    | Back Side     | 10                       | Ant 13 | 2   | 25.00                 | 24.30                 | -0.09            | 0.321         | 0.213          | 0.377                  |
| U133     | UMTS B5 | RMC12.2K | 4182    | Front Side    | 10                       | Ant 31 | 1   | 24.50                 | 24.06                 | 0.01             | 0.168         | 0.101          | 0.186                  |
| U134     | UMTS B5 | RMC12.2K | 4182    | Back Side     | 10                       | Ant 31 | 1   | 24.50                 | 24.06                 | -0.02            | 0.254         | 0.155          | 0.281                  |
| U135     | UMTS B5 | RMC12.2K | 4182    | Left Side     | 10                       | Ant 31 | 1   | 24.50                 | 24.06                 | -0.07            | 0.153         | 0.100          | 0.169                  |
| U136     | UMTS B5 | RMC12.2K | 4182    | Right Side    | 10                       | Ant 31 | 1   | 24.50                 | 24.06                 | 0.09             | 0.096         | 0.063          | 0.106                  |
| U137     | UMTS B5 | RMC12.2K | 4182    | Top Side      | 10                       | Ant 31 | 1   | 24.50                 | 24.06                 | 0.12             | 0.014         | 0.010          | 0.015                  |
| U138     | UMTS B5 | RMC12.2K | 4182    | Bottom Side   | 10                       | Ant 31 | 1   | 24.50                 | 24.06                 | -0.08            | 0.193         | 0.099          | 0.214                  |
| U139     | UMTS B5 | RMC12.2K | 4132    | Back Side     | 10                       | Ant 31 | 1   | 24.50                 | 23.95                 | 0.06             | 0.209         | 0.129          | 0.237                  |
| U140     | UMTS B5 | RMC12.2K | 4233    | Back Side     | 10                       | Ant 31 | 1   | 24.50                 | 24.03                 | 0.08             | <b>0.292</b>  | <b>0.179</b>   | <b>0.325</b>           |
| U141     | UMTS B5 | RMC12.2K | 4233    | Back Side     | 10                       | Ant 31 | 2   | 24.50                 | 24.03                 | -0.08            | 0.288         | 0.177          | 0.321                  |

Note: The value with boldface is the maximum SAR Value of each test band.

### 3. Hotspot SAR test results of LTE

#### DSI8

| Test No. | Band   | Mode    | Channel | RB | offset | Test Position | Separation Distance (mm) | Ant   | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------|---------|---------|----|--------|---------------|--------------------------|-------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L270     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Front Side    | 10                       | Ant13 | 1   | 18.00                 | 17.56                 | 0.06             | 0.281         | 0.148          | 0.311                  |
| L271     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Back Side     | 10                       | Ant13 | 1   | 18.00                 | 17.56                 | 0.01             | 0.547         | 0.263          | 0.605                  |
| L272     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Left Side     | 10                       | Ant13 | 1   | 18.00                 | 17.56                 | -0.09            | 0.109         | 0.062          | 0.121                  |
| L273     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Right Side    | 10                       | Ant13 | 1   | 18.00                 | 17.56                 | 0.07             | 0.045         | 0.027          | 0.050                  |
| L274     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Top Side      | 10                       | Ant13 | 1   | 18.00                 | 17.56                 | -0.02            | <b>0.706</b>  | <b>0.359</b>   | <b>0.781</b>           |
| L275     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Bottom Side   | 10                       | Ant13 | 1   | 18.00                 | 17.56                 | 0.17             | 0.018         | 0.010          | 0.020                  |
| L276     | LTE B2 | QPSK20M | 19100   | 50 | 0      | Front Side    | 10                       | Ant13 | 1   | 18.00                 | 17.48                 | 0.12             | 0.224         | 0.118          | 0.252                  |
| L277     | LTE B2 | QPSK20M | 19100   | 50 | 0      | Back Side     | 10                       | Ant13 | 1   | 18.00                 | 17.48                 | 0.08             | 0.490         | 0.247          | 0.552                  |
| L278     | LTE B2 | QPSK20M | 19100   | 50 | 0      | Left Side     | 10                       | Ant13 | 1   | 18.00                 | 17.48                 | 0.04             | 0.087         | 0.051          | 0.098                  |
| L279     | LTE B2 | QPSK20M | 19100   | 50 | 0      | Right Side    | 10                       | Ant13 | 1   | 18.00                 | 17.48                 | 0.07             | 0.034         | 0.020          | 0.038                  |
| L280     | LTE B2 | QPSK20M | 19100   | 50 | 0      | Top Side      | 10                       | Ant13 | 1   | 18.00                 | 17.48                 | -0.04            | 0.600         | 0.299          | 0.676                  |
| L281     | LTE B2 | QPSK20M | 19100   | 50 | 0      | Bottom Side   | 10                       | Ant13 | 1   | 18.00                 | 17.48                 | 0.05             | 0.013         | 0.008          | 0.015                  |
| L282     | LTE B2 | QPSK20M | 18700   | 1  | 99     | Top Side      | 10                       | Ant13 | 1   | 18.00                 | 17.32                 | 0.18             | 0.473         | 0.230          | 0.553                  |
| L283     | LTE B2 | QPSK20M | 18900   | 1  | 0      | Top Side      | 10                       | Ant13 | 1   | 18.00                 | 17.37                 | -0.01            | 0.521         | 0.258          | 0.602                  |
| L284     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Top Side      | 10                       | Ant13 | 2   | 18.00                 | 17.56                 | -0.02            | 0.687         | 0.334          | 0.760                  |
| L286     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Front Side    | 10                       | Ant31 | 1   | 19.50                 | 18.74                 | 0.08             | 0.174         | 0.107          | 0.207                  |
| L287     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Back Side     | 10                       | Ant31 | 1   | 19.50                 | 18.74                 | 0.01             | <b>0.396</b>  | <b>0.227</b>   | <b>0.472</b>           |
| L288     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Left Side     | 10                       | Ant31 | 1   | 19.50                 | 18.74                 | -0.06            | 0.059         | 0.036          | 0.071                  |
| L289     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Right Side    | 10                       | Ant31 | 1   | 19.50                 | 18.74                 | 0.08             | 0.086         | 0.050          | 0.103                  |
| L290     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Top Side      | 10                       | Ant31 | 1   | 19.50                 | 18.74                 | -0.05            | 0.013         | 0.008          | 0.016                  |
| L291     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Bottom Side   | 10                       | Ant31 | 1   | 19.50                 | 18.74                 | 0.13             | 0.363         | 0.210          | 0.432                  |
| L292     | LTE B2 | QPSK20M | 19100   | 50 | 0      | Front Side    | 10                       | Ant31 | 1   | 19.50                 | 18.42                 | 0.08             | 0.154         | 0.095          | 0.197                  |
| L293     | LTE B2 | QPSK20M | 19100   | 50 | 0      | Back Side     | 10                       | Ant31 | 1   | 19.50                 | 18.42                 | 0.09             | 0.320         | 0.184          | 0.410                  |
| L294     | LTE B2 | QPSK20M | 19100   | 50 | 0      | Left Side     | 10                       | Ant31 | 1   | 19.50                 | 18.42                 | -0.06            | 0.069         | 0.042          | 0.088                  |
| L295     | LTE B2 | QPSK20M | 19100   | 50 | 0      | Right Side    | 10                       | Ant31 | 1   | 19.50                 | 18.42                 | 0.16             | 0.129         | 0.076          | 0.165                  |
| L296     | LTE B2 | QPSK20M | 19100   | 50 | 0      | Top Side      | 10                       | Ant31 | 1   | 19.50                 | 18.42                 | 0.17             | 0.111         | 0.007          | 0.142                  |
| L297     | LTE B2 | QPSK20M | 19100   | 50 | 0      | Bottom Side   | 10                       | Ant31 | 1   | 19.50                 | 18.42                 | -0.03            | 0.308         | 0.178          | 0.395                  |
| L298     | LTE B2 | QPSK20M | 18700   | 1  | 0      | Back Side     | 10                       | Ant31 | 1   | 19.50                 | 18.33                 | 0.05             | 0.287         | 0.163          | 0.376                  |
| L299     | LTE B2 | QPSK20M | 18900   | 1  | 0      | Back Side     | 10                       | Ant31 | 1   | 19.50                 | 18.65                 | -0.08            | 0.330         | 0.190          | 0.401                  |
| L300     | LTE B2 | QPSK20M | 19100   | 1  | 0      | Back Side     | 10                       | Ant31 | 2   | 19.50                 | 18.74                 | 0.01             | 0.373         | 0.217          | 0.444                  |
| L302     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Front Side    | 10                       | Ant13 | 1   | 20.00                 | 19.85                 | 0.14             | 0.353         | 0.190          | 0.365                  |
| L303     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Back Side     | 10                       | Ant13 | 1   | 20.00                 | 19.85                 | -0.01            | 0.592         | 0.314          | 0.613                  |
| L304     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Left Side     | 10                       | Ant13 | 1   | 20.00                 | 19.85                 | 0.05             | 0.128         | 0.072          | 0.132                  |
| L305     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Right Side    | 10                       | Ant13 | 1   | 20.00                 | 19.85                 | 0.07             | 0.075         | 0.046          | 0.078                  |
| L306     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Top Side      | 10                       | Ant13 | 1   | 20.00                 | 19.85                 | 0.08             | <b>0.685</b>  | <b>0.348</b>   | <b>0.709</b>           |
| L307     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Bottom Side   | 10                       | Ant13 | 1   | 20.00                 | 19.85                 | 0.06             | 0.031         | 0.018          | 0.032                  |
| L308     | LTE B4 | QPSK20M | 20175   | 50 | 50     | Front Side    | 10                       | Ant13 | 1   | 20.00                 | 19.67                 | 0.18             | 0.324         | 0.176          | 0.350                  |
| L309     | LTE B4 | QPSK20M | 20175   | 50 | 50     | Back Side     | 10                       | Ant13 | 1   | 20.00                 | 19.67                 | 0.08             | 0.550         | 0.294          | 0.593                  |
| L310     | LTE B4 | QPSK20M | 20175   | 50 | 50     | Left Side     | 10                       | Ant13 | 1   | 20.00                 | 19.67                 | 0.11             | 0.119         | 0.068          | 0.128                  |
| L311     | LTE B4 | QPSK20M | 20175   | 50 | 50     | Right Side    | 10                       | Ant13 | 1   | 20.00                 | 19.67                 | -0.06            | 0.048         | 0.030          | 0.052                  |
| L312     | LTE B4 | QPSK20M | 20175   | 50 | 50     | Top Side      | 10                       | Ant13 | 1   | 20.00                 | 19.67                 | 0.09             | 0.647         | 0.328          | 0.698                  |
| L313     | LTE B4 | QPSK20M | 20175   | 50 | 50     | Bottom Side   | 10                       | Ant13 | 1   | 20.00                 | 19.67                 | -0.05            | 0.036         | 0.021          | 0.039                  |
| L314     | LTE B4 | QPSK20M | 20050   | 1  | 99     | Top Side      | 10                       | Ant13 | 1   | 20.00                 | 19.70                 | -0.16            | 0.616         | 0.320          | 0.660                  |
| L315     | LTE B4 | QPSK20M | 20175   | 1  | 99     | Top Side      | 10                       | Ant13 | 1   | 20.00                 | 19.75                 | 0.05             | 0.584         | 0.300          | 0.619                  |
| L316     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Top Side      | 10                       | Ant13 | 2   | 20.00                 | 19.85                 | 0.08             | 0.627         | 0.312          | 0.649                  |

| Test No. | Band   | Mode    | Channel | RB | offset | Test Position | Separation Distance (mm) | Ant   | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------|---------|---------|----|--------|---------------|--------------------------|-------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L318     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Front Side    | 10                       | Ant31 | 1   | 20.50                 | 20.21                 | 0.01             | 0.146         | 0.087          | 0.156                  |
| L319     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Back Side     | 10                       | Ant31 | 1   | 20.50                 | 20.21                 | -0.06            | 0.384         | 0.220          | 0.411                  |
| L320     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Left Side     | 10                       | Ant31 | 1   | 20.50                 | 20.21                 | 0.15             | 0.041         | 0.025          | 0.044                  |
| L321     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Right Side    | 10                       | Ant31 | 1   | 20.50                 | 20.21                 | 0.03             | 0.083         | 0.049          | 0.088                  |
| L322     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Top Side      | 10                       | Ant31 | 1   | 20.50                 | 20.21                 | 0.07             | 0.008         | 0.004          | 0.008                  |
| L323     | LTE B4 | QPSK20M | 20300   | 1  | 99     | Bottom Side   | 10                       | Ant31 | 1   | 20.50                 | 20.21                 | 0.08             | 0.405         | 0.231          | 0.433                  |
| L324     | LTE B4 | QPSK20M | 20300   | 50 | 50     | Front Side    | 10                       | Ant31 | 1   | 20.50                 | 20.17                 | -0.09            | 0.152         | 0.091          | 0.164                  |
| L325     | LTE B4 | QPSK20M | 20300   | 50 | 50     | Back Side     | 10                       | Ant31 | 1   | 20.50                 | 20.17                 | 0.01             | 0.357         | 0.210          | 0.385                  |
| L326     | LTE B4 | QPSK20M | 20300   | 50 | 50     | Left Side     | 10                       | Ant31 | 1   | 20.50                 | 20.17                 | 0.17             | 0.048         | 0.033          | 0.052                  |
| L327     | LTE B4 | QPSK20M | 20300   | 50 | 50     | Right Side    | 10                       | Ant31 | 1   | 20.50                 | 20.17                 | 0.08             | 0.045         | 0.026          | 0.049                  |
| L328     | LTE B4 | QPSK20M | 20300   | 50 | 50     | Top Side      | 10                       | Ant31 | 1   | 20.50                 | 20.17                 | -0.06            | 0.008         | 0.005          | 0.009                  |
| L329     | LTE B4 | QPSK20M | 20300   | 50 | 50     | Bottom Side   | 10                       | Ant31 | 1   | 20.50                 | 20.17                 | 0.16             | <b>0.480</b>  | <b>0.272</b>   | <b>0.518</b>           |
| L330     | LTE B4 | QPSK20M | 20050   | 50 | 50     | Bottom Side   | 10                       | Ant31 | 1   | 20.50                 | 19.85                 | -0.05            | 0.437         | 0.248          | 0.508                  |
| L331     | LTE B4 | QPSK20M | 20175   | 50 | 50     | Bottom Side   | 10                       | Ant31 | 1   | 20.50                 | 19.89                 | 0.12             | 0.449         | 0.254          | 0.517                  |
| L332     | LTE B4 | QPSK20M | 20300   | 50 | 50     | Bottom Side   | 10                       | Ant31 | 2   | 20.50                 | 20.17                 | 0.16             | 0.477         | 0.263          | 0.515                  |
| L334     | LTE B5 | QPSK10M | 20450   | 1  | 24     | Front Side    | 10                       | Ant13 | 1   | 25.00                 | 24.51                 | 0.08             | 0.260         | 0.169          | 0.291                  |
| L335     | LTE B5 | QPSK10M | 20450   | 1  | 24     | Back Side     | 10                       | Ant13 | 1   | 25.00                 | 24.51                 | -0.02            | <b>0.353</b>  | <b>0.225</b>   | <b>0.395</b>           |
| L336     | LTE B5 | QPSK10M | 20450   | 1  | 24     | Left Side     | 10                       | Ant13 | 1   | 25.00                 | 24.51                 | 0.07             | 0.134         | 0.093          | 0.150                  |
| L337     | LTE B5 | QPSK10M | 20450   | 1  | 24     | Right Side    | 10                       | Ant13 | 1   | 25.00                 | 24.51                 | 0.04             | 0.146         | 0.101          | 0.163                  |
| L338     | LTE B5 | QPSK10M | 20450   | 1  | 24     | Top Side      | 10                       | Ant13 | 1   | 25.00                 | 24.51                 | 0.05             | 0.304         | 0.189          | 0.340                  |
| L339     | LTE B5 | QPSK10M | 20450   | 1  | 24     | Bottom Side   | 10                       | Ant13 | 1   | 25.00                 | 24.51                 | -0.17            | 0.017         | 0.012          | 0.019                  |
| L340     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Front Side    | 10                       | Ant13 | 1   | 24.00                 | 23.87                 | -0.01            | 0.220         | 0.146          | 0.227                  |
| L341     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Back Side     | 10                       | Ant13 | 1   | 24.00                 | 23.87                 | 0.02             | 0.287         | 0.189          | 0.296                  |
| L342     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Left Side     | 10                       | Ant13 | 1   | 24.00                 | 23.87                 | 0.11             | 0.115         | 0.078          | 0.118                  |
| L343     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Right Side    | 10                       | Ant13 | 1   | 24.00                 | 23.87                 | 0.07             | 0.138         | 0.096          | 0.142                  |
| L344     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Top Side      | 10                       | Ant13 | 1   | 24.00                 | 23.87                 | -0.04            | 0.272         | 0.152          | 0.280                  |
| L345     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Bottom Side   | 10                       | Ant13 | 1   | 24.00                 | 23.87                 | -0.02            | 0.016         | 0.011          | 0.016                  |
| L346     | LTE B5 | QPSK10M | 20600   | 1  | 24     | Top Side      | 10                       | Ant13 | 1   | 25.00                 | 24.41                 | 0.05             | 0.325         | 0.186          | 0.372                  |
| L347     | LTE B5 | QPSK10M | 20525   | 1  | 24     | Top Side      | 10                       | Ant13 | 1   | 25.00                 | 24.26                 | 0.16             | 0.295         | 0.167          | 0.350                  |
| L348     | LTE B5 | QPSK10M | 20450   | 1  | 24     | Back Side     | 10                       | Ant13 | 2   | 25.00                 | 24.51                 | -0.02            | 0.332         | 0.194          | 0.372                  |
| L350     | LTE B5 | QPSK10M | 20450   | 1  | 0      | Front Side    | 10                       | Ant31 | 1   | 24.50                 | 24.14                 | -0.03            | 0.122         | 0.077          | 0.133                  |
| L351     | LTE B5 | QPSK10M | 20450   | 1  | 0      | Back Side     | 10                       | Ant31 | 1   | 24.50                 | 24.14                 | 0.07             | 0.211         | 0.131          | 0.229                  |
| L352     | LTE B5 | QPSK10M | 20450   | 1  | 0      | Left Side     | 10                       | Ant31 | 1   | 24.50                 | 24.14                 | 0.05             | 0.126         | 0.086          | 0.137                  |
| L353     | LTE B5 | QPSK10M | 20450   | 1  | 0      | Right Side    | 10                       | Ant31 | 1   | 24.50                 | 24.14                 | 0.04             | 0.096         | 0.064          | 0.104                  |
| L354     | LTE B5 | QPSK10M | 20450   | 1  | 0      | Top Side      | 10                       | Ant31 | 1   | 24.50                 | 24.14                 | 0.19             | 0.017         | 0.012          | 0.018                  |
| L355     | LTE B5 | QPSK10M | 20450   | 1  | 0      | Bottom Side   | 10                       | Ant31 | 1   | 24.50                 | 24.14                 | 0.12             | 0.181         | 0.099          | 0.197                  |
| L356     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Front Side    | 10                       | Ant31 | 1   | 23.50                 | 23.11                 | -0.03            | 0.133         | 0.084          | 0.145                  |
| L357     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Back Side     | 10                       | Ant31 | 1   | 23.50                 | 23.11                 | 0.01             | 0.206         | 0.128          | 0.225                  |
| L358     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Left Side     | 10                       | Ant31 | 1   | 23.50                 | 23.11                 | 0.09             | 0.131         | 0.089          | 0.143                  |
| L359     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Right Side    | 10                       | Ant31 | 1   | 23.50                 | 23.11                 | 0.07             | 0.078         | 0.054          | 0.086                  |
| L360     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Top Side      | 10                       | Ant31 | 1   | 23.50                 | 23.11                 | -0.13            | 0.014         | 0.010          | 0.015                  |
| L361     | LTE B5 | QPSK10M | 20450   | 25 | 12     | Bottom Side   | 10                       | Ant31 | 1   | 23.50                 | 23.11                 | 0.02             | 0.150         | 0.080          | 0.164                  |
| L362     | LTE B5 | QPSK10M | 20600   | 1  | 49     | Back Side     | 10                       | Ant31 | 1   | 24.50                 | 24.07                 | -0.01            | <b>0.272</b>  | <b>0.170</b>   | <b>0.300</b>           |
| L363     | LTE B5 | QPSK10M | 20525   | 1  | 0      | Back Side     | 10                       | Ant31 | 1   | 24.50                 | 23.92                 | 0.13             | 0.213         | 0.133          | 0.243                  |
| L364     | LTE B5 | QPSK10M | 20600   | 1  | 49     | Back Side     | 10                       | Ant31 | 2   | 24.50                 | 24.07                 | -0.01            | 0.253         | 0.151          | 0.279                  |

| Test No. | Band    | Mode    | Channel | RB | offset | Test Position | Separation Distance (mm) | Ant   | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|---------|----|--------|---------------|--------------------------|-------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L366     | LTE B7  | QPSK20M | 20850   | 1  | 0      | Front Side    | 10                       | Ant13 | 1   | 17.00                 | 16.72                 | 0.07             | 0.133         | 0.071          | 0.142                  |
| L367     | LTE B7  | QPSK20M | 20850   | 1  | 0      | Back Side     | 10                       | Ant13 | 1   | 17.00                 | 16.72                 | 0.11             | 0.499         | 0.239          | 0.532                  |
| L368     | LTE B7  | QPSK20M | 20850   | 1  | 0      | Left Side     | 10                       | Ant13 | 1   | 17.00                 | 16.72                 | 0.06             | 0.063         | 0.034          | 0.067                  |
| L369     | LTE B7  | QPSK20M | 20850   | 1  | 0      | Right Side    | 10                       | Ant13 | 1   | 17.00                 | 16.72                 | -0.06            | 0.007         | 0.003          | 0.007                  |
| L370     | LTE B7  | QPSK20M | 20850   | 1  | 0      | Top Side      | 10                       | Ant13 | 1   | 17.00                 | 16.72                 | 0.14             | 0.620         | 0.283          | 0.661                  |
| L371     | LTE B7  | QPSK20M | 20850   | 1  | 0      | Bottom Side   | 10                       | Ant13 | 1   | 17.00                 | 16.72                 | 0                | 0.009         | 0.005          | 0.010                  |
| L372     | LTE B7  | QPSK20M | 21350   | 50 | 0      | Front Side    | 10                       | Ant13 | 1   | 17.00                 | 16.57                 | 0.04             | 0.140         | 0.076          | 0.155                  |
| L373     | LTE B7  | QPSK20M | 21350   | 50 | 0      | Back Side     | 10                       | Ant13 | 1   | 17.00                 | 16.57                 | 0.18             | 0.511         | 0.252          | 0.564                  |
| L374     | LTE B7  | QPSK20M | 21350   | 50 | 0      | Left Side     | 10                       | Ant13 | 1   | 17.00                 | 16.57                 | -0.06            | 0.064         | 0.038          | 0.071                  |
| L375     | LTE B7  | QPSK20M | 21350   | 50 | 0      | Right Side    | 10                       | Ant13 | 1   | 17.00                 | 16.57                 | 0.03             | 0.010         | 0.005          | 0.011                  |
| L376     | LTE B7  | QPSK20M | 21350   | 50 | 0      | Top Side      | 10                       | Ant13 | 1   | 17.00                 | 16.57                 | 0.01             | <b>0.745</b>  | <b>0.348</b>   | <b>0.823</b>           |
| L377     | LTE B7  | QPSK20M | 21350   | 50 | 0      | Bottom Side   | 10                       | Ant13 | 1   | 17.00                 | 16.57                 | 0.02             | 0.008         | 0.004          | 0.009                  |
| L378     | LTE B7  | QPSK20M | 20850   | 50 | 0      | Top Side      | 10                       | Ant13 | 1   | 17.00                 | 16.42                 | -0.11            | 0.614         | 0.291          | 0.702                  |
| L379     | LTE B7  | QPSK20M | 21100   | 50 | 0      | Top Side      | 10                       | Ant13 | 1   | 17.00                 | 16.50                 | 0.01             | 0.652         | 0.312          | 0.732                  |
| L380     | LTE B7  | QPSK20M | 21350   | 50 | 0      | Top Side      | 10                       | Ant13 | 2   | 17.00                 | 16.57                 | 0                | 0.711         | 0.322          | 0.785                  |
| L382     | LTE B7  | QPSK20M | 21100   | 1  | 99     | Front Side    | 10                       | Ant31 | 1   | 21.00                 | 19.51                 | -0.07            | 0.150         | 0.083          | 0.211                  |
| L383     | LTE B7  | QPSK20M | 21100   | 1  | 99     | Back Side     | 10                       | Ant31 | 1   | 21.00                 | 19.51                 | 0.15             | 0.175         | 0.089          | 0.247                  |
| L384     | LTE B7  | QPSK20M | 21100   | 1  | 99     | Left Side     | 10                       | Ant31 | 1   | 21.00                 | 19.51                 | 0.03             | 0.045         | 0.025          | 0.063                  |
| L385     | LTE B7  | QPSK20M | 21100   | 1  | 99     | Right Side    | 10                       | Ant31 | 1   | 21.00                 | 19.51                 | -0.03            | <b>0.178</b>  | <b>0.095</b>   | <b>0.251</b>           |
| L386     | LTE B7  | QPSK20M | 21100   | 1  | 99     | Top Side      | 10                       | Ant31 | 1   | 21.00                 | 19.51                 | -0.02            | 0.035         | 0.020          | 0.049                  |
| L387     | LTE B7  | QPSK20M | 21100   | 1  | 99     | Bottom Side   | 10                       | Ant31 | 1   | 21.00                 | 19.51                 | 0.11             | 0.135         | 0.066          | 0.190                  |
| L388     | LTE B7  | QPSK20M | 20850   | 50 | 25     | Front Side    | 10                       | Ant31 | 1   | 21.00                 | 19.47                 | 0.05             | 0.134         | 0.076          | 0.191                  |
| L389     | LTE B7  | QPSK20M | 20850   | 50 | 25     | Back Side     | 10                       | Ant31 | 1   | 21.00                 | 19.47                 | -0.06            | 0.166         | 0.089          | 0.236                  |
| L390     | LTE B7  | QPSK20M | 20850   | 50 | 25     | Left Side     | 10                       | Ant31 | 1   | 21.00                 | 19.47                 | 0.14             | 0.022         | 0.011          | 0.031                  |
| L391     | LTE B7  | QPSK20M | 20850   | 50 | 25     | Right Side    | 10                       | Ant31 | 1   | 21.00                 | 19.47                 | 0.18             | 0.135         | 0.076          | 0.192                  |
| L392     | LTE B7  | QPSK20M | 20850   | 50 | 25     | Top Side      | 10                       | Ant31 | 1   | 21.00                 | 19.47                 | -0.09            | 0.034         | 0.019          | 0.048                  |
| L393     | LTE B7  | QPSK20M | 20850   | 50 | 25     | Bottom Side   | 10                       | Ant31 | 1   | 21.00                 | 19.47                 | 0.1              | 0.102         | 0.052          | 0.145                  |
| L394     | LTE B7  | QPSK20M | 20850   | 1  | 0      | Right Side    | 10                       | Ant31 | 1   | 21.00                 | 19.48                 | -0.06            | 0.131         | 0.073          | 0.186                  |
| L395     | LTE B7  | QPSK20M | 21350   | 1  | 0      | Right Side    | 10                       | Ant31 | 1   | 21.00                 | 19.41                 | 0.04             | 0.135         | 0.075          | 0.195                  |
| L396     | LTE B7  | QPSK20M | 21100   | 1  | 99     | Right Side    | 10                       | Ant31 | 2   | 21.00                 | 19.51                 | 0.12             | 0.166         | 0.091          | 0.234                  |
| L398     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Front Side    | 10                       | Ant13 | 1   | 25.00                 | 24.57                 | 0.08             | 0.121         | 0.082          | 0.134                  |
| L399     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Back Side     | 10                       | Ant13 | 1   | 25.00                 | 24.57                 | 0.05             | <b>0.169</b>  | <b>0.108</b>   | <b>0.187</b>           |
| L400     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Left Side     | 10                       | Ant13 | 1   | 25.00                 | 24.57                 | -0.02            | 0.126         | 0.085          | 0.139                  |
| L401     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Right Side    | 10                       | Ant13 | 1   | 25.00                 | 24.57                 | 0.06             | 0.110         | 0.074          | 0.121                  |
| L402     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Top Side      | 10                       | Ant13 | 1   | 25.00                 | 24.57                 | 0.17             | 0.129         | 0.071          | 0.142                  |
| L403     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Bottom Side   | 10                       | Ant13 | 1   | 25.00                 | 24.57                 | 0                | 0.005         | 0.003          | 0.006                  |
| L404     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Front Side    | 10                       | Ant13 | 1   | 24.00                 | 23.73                 | 0.02             | 0.114         | 0.075          | 0.121                  |
| L405     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Back Side     | 10                       | Ant13 | 1   | 24.00                 | 23.73                 | -0.07            | 0.143         | 0.096          | 0.152                  |
| L406     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Left Side     | 10                       | Ant13 | 1   | 24.00                 | 23.73                 | 0.09             | 0.100         | 0.068          | 0.106                  |
| L407     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Right Side    | 10                       | Ant13 | 1   | 24.00                 | 23.73                 | 0.18             | 0.102         | 0.071          | 0.109                  |
| L408     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Top Side      | 10                       | Ant13 | 1   | 24.00                 | 23.73                 | 0.03             | 0.114         | 0.065          | 0.121                  |
| L409     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Bottom Side   | 10                       | Ant13 | 1   | 24.00                 | 23.73                 | 0.02             | 0.004         | 0.003          | 0.004                  |
| L410     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Back Side     | 10                       | Ant13 | 2   | 25.00                 | 24.57                 | 0.05             | 0.156         | 0.096          | 0.172                  |

| Test No. | Band    | Mode    | Channel | RB | offset | Test Position | Separation Distance (mm) | Ant   | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|---------|----|--------|---------------|--------------------------|-------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L412     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Front Side    | 10                       | Ant31 | 1   | 25.00                 | 24.43                 | 0.17             | 0.118         | 0.067          | 0.135                  |
| L413     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Back Side     | 10                       | Ant31 | 1   | 25.00                 | 24.43                 | -0.07            | 0.190         | 0.112          | 0.217                  |
| L414     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Left Side     | 10                       | Ant31 | 1   | 25.00                 | 24.43                 | 0.15             | 0.180         | 0.118          | 0.205                  |
| L415     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Right Side    | 10                       | Ant31 | 1   | 25.00                 | 24.43                 | 0.04             | 0.077         | 0.051          | 0.087                  |
| L416     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Top Side      | 10                       | Ant31 | 1   | 25.00                 | 24.43                 | 0.06             | 0.006         | 0.004          | 0.007                  |
| L417     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Bottom Side   | 10                       | Ant31 | 1   | 25.00                 | 24.43                 | 0                | <b>0.209</b>  | <b>0.110</b>   | <b>0.238</b>           |
| L418     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Front Side    | 10                       | Ant31 | 1   | 24.00                 | 23.74                 | 0.16             | 0.106         | 0.063          | 0.113                  |
| L419     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Back Side     | 10                       | Ant31 | 1   | 24.00                 | 23.74                 | -0.09            | 0.170         | 0.098          | 0.180                  |
| L420     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Left Side     | 10                       | Ant31 | 1   | 24.00                 | 23.74                 | 0.06             | 0.173         | 0.113          | 0.184                  |
| L421     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Right Side    | 10                       | Ant31 | 1   | 24.00                 | 23.74                 | 0.13             | 0.070         | 0.045          | 0.074                  |
| L422     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Top Side      | 10                       | Ant31 | 1   | 24.00                 | 23.74                 | -0.05            | 0.005         | 0.003          | 0.005                  |
| L423     | LTE B13 | QPSK10M | 23230   | 25 | 12     | Bottom Side   | 10                       | Ant31 | 1   | 24.00                 | 23.74                 | 0.07             | 0.172         | 0.089          | 0.183                  |
| L424     | LTE B13 | QPSK10M | 23230   | 1  | 24     | Bottom Side   | 10                       | Ant31 | 2   | 25.00                 | 24.43                 | 0.05             | 0.194         | 0.106          | 0.221                  |
| L426     | LTE B26 | QPSK15M | 26765   | 1  | 0      | Front Side    | 10                       | Ant13 | 1   | 25.00                 | 24.66                 | 0.03             | 0.224         | 0.151          | 0.242                  |
| L427     | LTE B26 | QPSK15M | 26765   | 1  | 0      | Back Side     | 10                       | Ant13 | 1   | 25.00                 | 24.66                 | -0.13            | 0.327         | 0.210          | 0.354                  |
| L428     | LTE B26 | QPSK15M | 26765   | 1  | 0      | Left Side     | 10                       | Ant13 | 1   | 25.00                 | 24.66                 | 0.07             | 0.122         | 0.083          | 0.132                  |
| L429     | LTE B26 | QPSK15M | 26765   | 1  | 0      | Right Side    | 10                       | Ant13 | 1   | 25.00                 | 24.66                 | 0.01             | 0.125         | 0.088          | 0.135                  |
| L430     | LTE B26 | QPSK15M | 26765   | 1  | 0      | Top Side      | 10                       | Ant13 | 1   | 25.00                 | 24.66                 | 0.15             | 0.259         | 0.138          | 0.280                  |
| L431     | LTE B26 | QPSK15M | 26765   | 1  | 0      | Bottom Side   | 10                       | Ant13 | 1   | 25.00                 | 24.66                 | 0.01             | 0.013         | 0.080          | 0.014                  |
| L432     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Front Side    | 10                       | Ant13 | 1   | 24.00                 | 23.67                 | 0.07             | 0.228         | 0.151          | 0.246                  |
| L433     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Back Side     | 10                       | Ant13 | 1   | 24.00                 | 23.67                 | 0.13             | 0.317         | 0.206          | 0.342                  |
| L434     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Left Side     | 10                       | Ant13 | 1   | 24.00                 | 23.67                 | -0.05            | 0.126         | 0.087          | 0.136                  |
| L435     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Right Side    | 10                       | Ant13 | 1   | 24.00                 | 23.67                 | 0.04             | 0.160         | 0.109          | 0.173                  |
| L436     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Top Side      | 10                       | Ant13 | 1   | 24.00                 | 23.67                 | 0.08             | 0.243         | 0.147          | 0.262                  |
| L437     | LTE B26 | QPSK15M | 26865   | 36 | 0      | Bottom Side   | 10                       | Ant13 | 1   | 24.00                 | 23.67                 | 0.04             | 0.013         | 0.009          | 0.014                  |
| L438     | LTE B26 | QPSK15M | 26865   | 1  | 0      | Back Side     | 10                       | Ant13 | 1   | 25.00                 | 24.35                 | -0.02            | <b>0.398</b>  | <b>0.256</b>   | <b>0.462</b>           |
| L439     | LTE B26 | QPSK15M | 26965   | 1  | 74     | Back Side     | 10                       | Ant13 | 1   | 25.00                 | 24.45                 | 0.04             | 0.336         | 0.234          | 0.381                  |
| L440     | LTE B26 | QPSK15M | 26865   | 1  | 0      | Back Side     | 10                       | Ant13 | 2   | 25.00                 | 24.35                 | 0.13             | 0.377         | 0.239          | 0.438                  |
| L442     | LTE B26 | QPSK15M | 26965   | 1  | 0      | Front Side    | 10                       | Ant31 | 1   | 24.00                 | 23.63                 | 0.08             | 0.123         | 0.070          | 0.134                  |
| L443     | LTE B26 | QPSK15M | 26965   | 1  | 0      | Back Side     | 10                       | Ant31 | 1   | 24.00                 | 23.63                 | 0.01             | 0.181         | 0.105          | 0.197                  |
| L444     | LTE B26 | QPSK15M | 26965   | 1  | 0      | Left Side     | 10                       | Ant31 | 1   | 24.00                 | 23.63                 | -0.16            | 0.113         | 0.069          | 0.123                  |
| L445     | LTE B26 | QPSK15M | 26965   | 1  | 0      | Right Side    | 10                       | Ant31 | 1   | 24.00                 | 23.63                 | 0.07             | 0.037         | 0.022          | 0.040                  |
| L446     | LTE B26 | QPSK15M | 26965   | 1  | 0      | Top Side      | 10                       | Ant31 | 1   | 24.00                 | 23.63                 | -0.09            | 0.006         | 0.004          | 0.007                  |
| L447     | LTE B26 | QPSK15M | 26965   | 1  | 0      | Bottom Side   | 10                       | Ant31 | 1   | 24.00                 | 23.63                 | -0.02            | 0.163         | 0.084          | 0.177                  |
| L448     | LTE B26 | QPSK15M | 26865   | 36 | 39     | Front Side    | 10                       | Ant31 | 1   | 23.00                 | 22.57                 | 0.07             | 0.122         | 0.069          | 0.135                  |
| L449     | LTE B26 | QPSK15M | 26865   | 36 | 39     | Back Side     | 10                       | Ant31 | 1   | 23.00                 | 22.57                 | 0                | 0.188         | 0.106          | 0.208                  |
| L450     | LTE B26 | QPSK15M | 26865   | 36 | 39     | Left Side     | 10                       | Ant31 | 1   | 23.00                 | 22.57                 | 0.19             | 0.116         | 0.071          | 0.128                  |
| L451     | LTE B26 | QPSK15M | 26865   | 36 | 39     | Right Side    | 10                       | Ant31 | 1   | 23.00                 | 22.57                 | 0.12             | 0.067         | 0.041          | 0.074                  |
| L452     | LTE B26 | QPSK15M | 26865   | 36 | 39     | Top Side      | 10                       | Ant31 | 1   | 23.00                 | 22.57                 | 0.03             | 0.007         | 0.005          | 0.008                  |
| L453     | LTE B26 | QPSK15M | 26865   | 36 | 39     | Bottom Side   | 10                       | Ant31 | 1   | 23.00                 | 22.57                 | 0.03             | 0.134         | 0.067          | 0.148                  |
| L454     | LTE B26 | QPSK15M | 26765   | 36 | 19     | Back Side     | 10                       | Ant31 | 1   | 23.00                 | 22.42                 | 0.12             | 0.162         | 0.094          | 0.185                  |
| L455     | LTE B26 | QPSK15M | 26965   | 36 | 39     | Back Side     | 10                       | Ant31 | 1   | 23.00                 | 22.47                 | -0.01            | <b>0.214</b>  | <b>0.124</b>   | <b>0.242</b>           |
| L456     | LTE B26 | QPSK15M | 26965   | 36 | 39     | Back Side     | 10                       | Ant31 | 2   | 23.00                 | 22.47                 | -0.02            | 0.192         | 0.113          | 0.217                  |

| Test No. | Band    | Mode    | Channel | RB | offset | Test Position | Separation Distance (mm) | Ant   | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|---------|----|--------|---------------|--------------------------|-------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L458     | LTE B38 | QPSK20M | 38150   | 1  | 0      | Front Side    | 10                       | Ant13 | 1   | 20.00                 | 19.30                 | 0.04             | 0.097         | 0.049          | 0.114                  |
| L459     | LTE B38 | QPSK20M | 38150   | 1  | 0      | Back Side     | 10                       | Ant13 | 1   | 20.00                 | 19.30                 | 0.03             | 0.305         | 0.157          | 0.358                  |
| L460     | LTE B38 | QPSK20M | 38150   | 1  | 0      | Left Side     | 10                       | Ant13 | 1   | 20.00                 | 19.30                 | -0.14            | 0.049         | 0.025          | 0.058                  |
| L461     | LTE B38 | QPSK20M | 38150   | 1  | 0      | Right Side    | 10                       | Ant13 | 1   | 20.00                 | 19.30                 | -0.01            | 0.015         | 0.008          | 0.018                  |
| L462     | LTE B38 | QPSK20M | 38150   | 1  | 0      | Top Side      | 10                       | Ant13 | 1   | 20.00                 | 19.30                 | -0.12            | <b>0.418</b>  | <b>0.200</b>   | <b>0.491</b>           |
| L463     | LTE B38 | QPSK20M | 38150   | 1  | 0      | Bottom Side   | 10                       | Ant13 | 1   | 20.00                 | 19.30                 | 0.02             | <0.001        | <0.001         | <0.001                 |
| L464     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Front Side    | 10                       | Ant13 | 1   | 20.00                 | 19.07                 | 0.17             | 0.093         | 0.047          | 0.115                  |
| L465     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Back Side     | 10                       | Ant13 | 1   | 20.00                 | 19.07                 | -0.09            | 0.282         | 0.143          | 0.349                  |
| L466     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Left Side     | 10                       | Ant13 | 1   | 20.00                 | 19.07                 | -0.04            | 0.047         | 0.026          | 0.058                  |
| L467     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Right Side    | 10                       | Ant13 | 1   | 20.00                 | 19.07                 | -0.06            | 0.012         | 0.006          | 0.015                  |
| L468     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Top Side      | 10                       | Ant13 | 1   | 20.00                 | 19.07                 | 0.06             | 0.384         | 0.185          | 0.476                  |
| L469     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Bottom Side   | 10                       | Ant13 | 1   | 20.00                 | 19.07                 | -0.04            | 0.006         | 0.003          | 0.007                  |
| L470     | LTE B38 | QPSK20M | 37850   | 1  | 0      | Top Side      | 10                       | Ant13 | 1   | 20.00                 | 18.84                 | 0.11             | 0.294         | 0.141          | 0.384                  |
| L471     | LTE B38 | QPSK20M | 38000   | 1  | 0      | Top Side      | 10                       | Ant13 | 1   | 20.00                 | 19.18                 | 0.02             | 0.358         | 0.172          | 0.432                  |
| L472     | LTE B38 | QPSK20M | 38150   | 1  | 0      | Top Side      | 10                       | Ant13 | 2   | 20.00                 | 19.30                 | -0.04            | 0.386         | 0.183          | 0.454                  |
| L474     | LTE B38 | QPSK20M | 38000   | 1  | 0      | Front Side    | 10                       | Ant31 | 1   | 22.00                 | 20.94                 | 0.03             | 0.170         | 0.088          | 0.217                  |
| L475     | LTE B38 | QPSK20M | 38000   | 1  | 0      | Back Side     | 10                       | Ant31 | 1   | 22.00                 | 20.94                 | 0.11             | 0.208         | 0.096          | 0.265                  |
| L476     | LTE B38 | QPSK20M | 38000   | 1  | 0      | Left Side     | 10                       | Ant31 | 1   | 22.00                 | 20.94                 | -0.06            | 0.014         | 0.008          | 0.018                  |
| L477     | LTE B38 | QPSK20M | 38000   | 1  | 0      | Right Side    | 10                       | Ant31 | 1   | 22.00                 | 20.94                 | -0.03            | 0.183         | 0.093          | 0.234                  |
| L478     | LTE B38 | QPSK20M | 38000   | 1  | 0      | Top Side      | 10                       | Ant31 | 1   | 22.00                 | 20.94                 | -0.08            | 0.024         | 0.014          | 0.031                  |
| L479     | LTE B38 | QPSK20M | 38000   | 1  | 0      | Bottom Side   | 10                       | Ant31 | 1   | 22.00                 | 20.94                 | 0.01             | 0.132         | 0.060          | 0.168                  |
| L480     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Front Side    | 10                       | Ant31 | 1   | 22.00                 | 20.52                 | 0.12             | 0.189         | 0.096          | 0.266                  |
| L481     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Back Side     | 10                       | Ant31 | 1   | 22.00                 | 20.52                 | 0.1              | <b>0.223</b>  | <b>0.100</b>   | <b>0.314</b>           |
| L482     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Left Side     | 10                       | Ant31 | 1   | 22.00                 | 20.52                 | 0.02             | 0.015         | 0.008          | 0.021                  |
| L483     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Right Side    | 10                       | Ant31 | 1   | 22.00                 | 20.52                 | -0.05            | 0.205         | 0.100          | 0.288                  |
| L484     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Top Side      | 10                       | Ant31 | 1   | 22.00                 | 20.52                 | 0.09             | 0.022         | 0.012          | 0.031                  |
| L485     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Bottom Side   | 10                       | Ant31 | 1   | 22.00                 | 20.52                 | 0.06             | 0.149         | 0.064          | 0.210                  |
| L486     | LTE B38 | QPSK20M | 37850   | 50 | 50     | Back Side     | 10                       | Ant31 | 1   | 22.00                 | 20.46                 | 0.13             | 0.199         | 0.090          | 0.284                  |
| L487     | LTE B38 | QPSK20M | 38000   | 50 | 0      | Back Side     | 10                       | Ant31 | 1   | 22.00                 | 20.48                 | 0.04             | 0.211         | 0.095          | 0.299                  |
| L488     | LTE B38 | QPSK20M | 38150   | 50 | 0      | Back Side     | 10                       | Ant31 | 2   | 22.00                 | 20.52                 | -0.05            | 0.196         | 0.087          | 0.276                  |
| L490     | LTE B41 | QPSK20M | 40640   | 1  | 0      | Front Side    | 10                       | Ant13 | 1   | 20.00                 | 19.19                 | -0.02            | 0.072         | 0.039          | 0.087                  |
| L491     | LTE B41 | QPSK20M | 40640   | 1  | 0      | Back Side     | 10                       | Ant13 | 1   | 20.00                 | 19.19                 | 0.07             | 0.241         | 0.122          | 0.290                  |
| L492     | LTE B41 | QPSK20M | 40640   | 1  | 0      | Left Side     | 10                       | Ant13 | 1   | 20.00                 | 19.19                 | 0.16             | 0.030         | 0.017          | 0.036                  |
| L493     | LTE B41 | QPSK20M | 40640   | 1  | 0      | Right Side    | 10                       | Ant13 | 1   | 20.00                 | 19.19                 | -0.06            | 0.067         | 0.037          | 0.081                  |
| L494     | LTE B41 | QPSK20M | 40640   | 1  | 0      | Top Side      | 10                       | Ant13 | 1   | 20.00                 | 19.19                 | -0.01            | 0.346         | 0.167          | 0.417                  |
| L495     | LTE B41 | QPSK20M | 40640   | 1  | 0      | Bottom Side   | 10                       | Ant13 | 1   | 20.00                 | 19.19                 | 0.09             | 0.005         | 0.000          | 0.006                  |
| L496     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Front Side    | 10                       | Ant13 | 1   | 20.00                 | 19.16                 | -0.01            | 0.077         | 0.039          | 0.093                  |
| L497     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Back Side     | 10                       | Ant13 | 1   | 20.00                 | 19.16                 | 0.11             | 0.237         | 0.124          | 0.288                  |
| L498     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Left Side     | 10                       | Ant13 | 1   | 20.00                 | 19.16                 | -0.09            | 0.030         | 0.017          | 0.036                  |
| L499     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Right Side    | 10                       | Ant13 | 1   | 20.00                 | 19.16                 | -0.07            | 0.069         | 0.038          | 0.084                  |
| L500     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Top Side      | 10                       | Ant13 | 1   | 20.00                 | 19.16                 | -0.05            | 0.355         | 0.170          | 0.431                  |
| L501     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Bottom Side   | 10                       | Ant13 | 1   | 20.00                 | 19.16                 | 0.04             | 0.007         | 0.003          | 0.008                  |
| L502     | LTE B41 | QPSK20M | 40140   | 50 | 50     | Top Side      | 10                       | Ant13 | 1   | 20.00                 | 19.03                 | 0.02             | <b>0.371</b>  | <b>0.174</b>   | <b>0.464</b>           |
| L503     | LTE B41 | QPSK20M | 41140   | 50 | 0      | Top Side      | 10                       | Ant13 | 1   | 20.00                 | 19.12                 | 0.12             | 0.234         | 0.116          | 0.287                  |
| L504     | LTE B41 | QPSK20M | 40140   | 50 | 50     | Top Side      | 10                       | Ant13 | 2   | 20.00                 | 19.03                 | -0.06            | 0.352         | 0.170          | 0.440                  |

| Test No. | Band    | Mode    | Channel | RB | offset | Test Position | Separation Distance (mm) | Ant   | SIM | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|---------|----|--------|---------------|--------------------------|-------|-----|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| L506     | LTE B41 | QPSK20M | 40140   | 1  | 99     | Front Side    | 10                       | Ant31 | 1   | 21.50                 | 21.26                 | 0.13             | 0.150         | 0.083          | 0.159                  |
| L507     | LTE B41 | QPSK20M | 40140   | 1  | 99     | Back Side     | 10                       | Ant31 | 1   | 21.50                 | 21.26                 | -0.05            | 0.201         | 0.098          | 0.212                  |
| L508     | LTE B41 | QPSK20M | 40140   | 1  | 99     | Left Side     | 10                       | Ant31 | 1   | 21.50                 | 21.26                 | -0.07            | 0.019         | 0.010          | 0.020                  |
| L509     | LTE B41 | QPSK20M | 40140   | 1  | 99     | Right Side    | 10                       | Ant31 | 1   | 21.50                 | 21.26                 | 0.04             | 0.154         | 0.083          | 0.163                  |
| L510     | LTE B41 | QPSK20M | 40140   | 1  | 99     | Top Side      | 10                       | Ant31 | 1   | 21.50                 | 21.26                 | 0.06             | 0.023         | 0.013          | 0.024                  |
| L511     | LTE B41 | QPSK20M | 40140   | 1  | 99     | Bottom Side   | 10                       | Ant31 | 1   | 21.50                 | 21.26                 | 0.04             | 0.127         | 0.061          | 0.134                  |
| L512     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Front Side    | 10                       | Ant31 | 1   | 21.50                 | 21.12                 | 0.16             | 0.167         | 0.090          | 0.182                  |
| L513     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Back Side     | 10                       | Ant31 | 1   | 21.50                 | 21.12                 | 0.09             | 0.214         | 0.106          | 0.234                  |
| L514     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Left Side     | 10                       | Ant31 | 1   | 21.50                 | 21.12                 | -0.05            | 0.014         | 0.007          | 0.015                  |
| L515     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Right Side    | 10                       | Ant31 | 1   | 21.50                 | 21.12                 | -0.06            | 0.166         | 0.089          | 0.181                  |
| L516     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Top Side      | 10                       | Ant31 | 1   | 21.50                 | 21.12                 | 0.05             | 0.019         | 0.011          | 0.021                  |
| L517     | LTE B41 | QPSK20M | 40640   | 50 | 0      | Bottom Side   | 10                       | Ant31 | 1   | 21.50                 | 21.12                 | -0.11            | 0.140         | 0.066          | 0.153                  |
| L518     | LTE B41 | QPSK20M | 40140   | 50 | 0      | Back Side     | 10                       | Ant31 | 1   | 21.50                 | 21.09                 | -0.05            | 0.198         | 0.100          | 0.218                  |
| L519     | LTE B41 | QPSK20M | 41140   | 50 | 0      | Back Side     | 10                       | Ant31 | 1   | 21.50                 | 21.11                 | -0.07            | <b>0.286</b>  | <b>0.124</b>   | <b>0.313</b>           |
| L520     | LTE B41 | QPSK20M | 41140   | 50 | 0      | Back Side     | 10                       | Ant31 | 2   | 21.50                 | 21.11                 | 0.02             | 0.260         | 0.109          | 0.284                  |
| L522     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Front Side    | 10                       | Ant13 | 1   | 19.50                 | 19.07                 | 0.07             | 0.313         | 0.176          | 0.346                  |
| L523     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Back Side     | 10                       | Ant13 | 1   | 19.50                 | 19.07                 | -0.06            | 0.511         | 0.280          | 0.564                  |
| L524     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Left Side     | 10                       | Ant13 | 1   | 19.50                 | 19.07                 | 0.15             | 0.117         | 0.068          | 0.129                  |
| L525     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Right Side    | 10                       | Ant13 | 1   | 19.50                 | 19.07                 | 0.13             | 0.052         | 0.032          | 0.058                  |
| L526     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Top Side      | 10                       | Ant13 | 1   | 19.50                 | 19.07                 | -0.08            | 0.581         | 0.306          | 0.641                  |
| L527     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Bottom Side   | 10                       | Ant13 | 1   | 19.50                 | 19.07                 | 0.07             | 0.028         | 0.016          | 0.031                  |
| L528     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Front Side    | 10                       | Ant13 | 1   | 19.50                 | 18.83                 | 0.05             | 0.286         | 0.156          | 0.334                  |
| L529     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Back Side     | 10                       | Ant13 | 1   | 19.50                 | 18.83                 | -0.12            | 0.468         | 0.256          | 0.546                  |
| L530     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Left Side     | 10                       | Ant13 | 1   | 19.50                 | 18.83                 | -0.07            | 0.112         | 0.063          | 0.131                  |
| L531     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Right Side    | 10                       | Ant13 | 1   | 19.50                 | 18.83                 | 0.03             | 0.053         | 0.032          | 0.062                  |
| L532     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Top Side      | 10                       | Ant13 | 1   | 19.50                 | 18.83                 | 0                | 0.537         | 0.280          | 0.627                  |
| L533     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Bottom Side   | 10                       | Ant13 | 1   | 19.50                 | 18.83                 | -0.06            | 0.027         | 0.015          | 0.032                  |
| L534     | LTE B66 | QPSK20M | 132072  | 1  | 99     | Top Side      | 10                       | Ant13 | 1   | 19.50                 | 18.66                 | 0.04             | 0.536         | 0.277          | 0.650                  |
| L535     | LTE B66 | QPSK20M | 132322  | 1  | 99     | Top Side      | 10                       | Ant13 | 1   | 19.50                 | 18.73                 | 0.14             | <b>0.591</b>  | <b>0.306</b>   | <b>0.706</b>           |
| L536     | LTE B66 | QPSK20M | 132322  | 1  | 99     | Top Side      | 10                       | Ant13 | 2   | 19.50                 | 18.73                 | -0.06            | 0.572         | 0.298          | 0.683                  |
| L538     | LTE B66 | QPSK20M | 132072  | 1  | 99     | Front Side    | 10                       | Ant31 | 1   | 20.00                 | 19.76                 | 0.13             | 0.133         | 0.085          | 0.141                  |
| L539     | LTE B66 | QPSK20M | 132072  | 1  | 99     | Back Side     | 10                       | Ant31 | 1   | 20.00                 | 19.76                 | -0.04            | 0.337         | 0.198          | 0.356                  |
| L540     | LTE B66 | QPSK20M | 132072  | 1  | 99     | Left Side     | 10                       | Ant31 | 1   | 20.00                 | 19.76                 | 0.07             | 0.047         | 0.029          | 0.050                  |
| L541     | LTE B66 | QPSK20M | 132072  | 1  | 99     | Right Side    | 10                       | Ant31 | 1   | 20.00                 | 19.76                 | 0.04             | 0.077         | 0.047          | 0.081                  |
| L542     | LTE B66 | QPSK20M | 132072  | 1  | 99     | Top Side      | 10                       | Ant31 | 1   | 20.00                 | 19.76                 | 0.17             | 0.007         | 0.004          | 0.007                  |
| L543     | LTE B66 | QPSK20M | 132072  | 1  | 99     | Bottom Side   | 10                       | Ant31 | 1   | 20.00                 | 19.76                 | -0.01            | <b>0.427</b>  | <b>0.247</b>   | <b>0.451</b>           |
| L544     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Front Side    | 10                       | Ant31 | 1   | 20.00                 | 19.67                 | 0.08             | 0.128         | 0.079          | 0.138                  |
| L545     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Back Side     | 10                       | Ant31 | 1   | 20.00                 | 19.67                 | 0.13             | 0.299         | 0.179          | 0.323                  |
| L546     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Left Side     | 10                       | Ant31 | 1   | 20.00                 | 19.67                 | 0.07             | 0.042         | 0.026          | 0.045                  |
| L547     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Right Side    | 10                       | Ant31 | 1   | 20.00                 | 19.67                 | -0.01            | 0.049         | 0.029          | 0.053                  |
| L548     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Top Side      | 10                       | Ant31 | 1   | 20.00                 | 19.67                 | 0.09             | 0.005         | 0.003          | 0.005                  |
| L549     | LTE B66 | QPSK20M | 132322  | 50 | 50     | Bottom Side   | 10                       | Ant31 | 1   | 20.00                 | 19.67                 | 0.04             | 0.334         | 0.194          | 0.360                  |
| L550     | LTE B66 | QPSK20M | 132322  | 1  | 50     | Bottom Side   | 10                       | Ant31 | 1   | 20.00                 | 19.63                 | 0.15             | 0.365         | 0.208          | 0.397                  |
| L551     | LTE B66 | QPSK20M | 132572  | 1  | 0      | Bottom Side   | 10                       | Ant31 | 1   | 20.00                 | 19.69                 | -0.01            | 0.266         | 0.153          | 0.286                  |
| L552     | LTE B66 | QPSK20M | 132072  | 1  | 99     | Bottom Side   | 10                       | Ant31 | 2   | 20.00                 | 19.76                 | 0.02             | 0.408         | 0.221          | 0.431                  |

Note: The value with boldface is the maximum SAR Value of each test band.

#### 4. Hotspot SAR test results of WiFi 2.4G

| Test No. | Band      | Mode    | Channel | Test Position | Separation Distance (mm) | Data Rate | Duty Cycle (%) | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|---------|---------|---------------|--------------------------|-----------|----------------|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| W58      | WiFi 2.4G | 802.11b | 6       | Front Side    | 10                       | 1M        | 97.55          | 20.00                 | 18.34                 | 0.15             | 0.231         | 0.123          | 0.347                  |
| W59      | WiFi 2.4G | 802.11b | 6       | Back Side     | 10                       | 1M        | 97.55          | 20.00                 | 18.34                 | -0.04            | <b>0.376</b>  | <b>0.184</b>   | <b>0.565</b>           |
| W60      | WiFi 2.4G | 802.11b | 6       | Left Side     | 10                       | 1M        | 97.55          | 20.00                 | 18.34                 | -0.01            | 0.040         | 0.024          | 0.059                  |
| W61      | WiFi 2.4G | 802.11b | 6       | Right Side    | 10                       | 1M        | 97.55          | 20.00                 | 18.34                 | -0.15            | 0.170         | 0.100          | 0.255                  |
| W62      | WiFi 2.4G | 802.11b | 6       | Top Side      | 10                       | 1M        | 97.55          | 20.00                 | 18.34                 | 0.14             | 0.329         | 0.172          | 0.494                  |
| W63      | WiFi 2.4G | 802.11b | 6       | Bottom Side   | 10                       | 1M        | 97.55          | 20.00                 | 18.34                 | -0.07            | 0.016         | 0.009          | 0.024                  |
| W64      | WiFi 2.4G | 802.11b | 1       | Back Side     | 10                       | 1M        | 97.55          | 20.00                 | 18.17                 | 0.08             | 0.324         | 0.160          | 0.506                  |
| W65      | WiFi 2.4G | 802.11b | 11      | Back Side     | 10                       | 1M        | 97.55          | 20.00                 | 18.04                 | -0.08            | 0.319         | 0.157          | 0.514                  |

Note: The value with boldface is the maximum SAR Value of each test band.

#### 5. Hotspot SAR test results of BT

| Test No. | Band | Mode | Channel | Test Position | Separation Distance (mm) | Data Rate | Duty Cycle (%) | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|------|------|---------|---------------|--------------------------|-----------|----------------|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| B11      | BT   | DH5  | 39      | Front Side    | 10                       | 1M        | 78.06          | 9.00                  | 8.78                  | -0.19            | 0.024         | 0.012          | 0.032                  |
| B12      | BT   | DH5  | 39      | Back Side     | 10                       | 1M        | 78.06          | 9.00                  | 8.78                  | 0.04             | <b>0.064</b>  | <b>0.031</b>   | <b>0.086</b>           |
| B13      | BT   | DH5  | 39      | Left Side     | 10                       | 1M        | 78.06          | 9.00                  | 8.78                  | -0.14            | 0.033         | 0.016          | 0.044                  |
| B14      | BT   | DH5  | 39      | Right Side    | 10                       | 1M        | 78.06          | 9.00                  | 8.78                  | 0                | 0.007         | 0.004          | 0.009                  |
| B15      | BT   | DH5  | 39      | Top Side      | 10                       | 1M        | 78.06          | 9.00                  | 8.78                  | 0.14             | 0.056         | 0.029          | 0.075                  |
| B16      | BT   | DH5  | 39      | Bottom Side   | 10                       | 1M        | 78.06          | 9.00                  | 8.78                  | -0.03            | <0.001        | <0.001         | <0.001                 |
| B17      | BT   | DH5  | 0       | Back Side     | 10                       | 1M        | 78.06          | 9.00                  | 7.30                  | -0.16            | 0.0441        | 0.0165         | 0.084                  |
| B18      | BT   | DH5  | 78      | Back Side     | 10                       | 1M        | 78.06          | 9.00                  | 7.83                  | -0.14            | 0.0495        | 0.0194         | 0.083                  |

Note: The value with boldface is the maximum SAR Value of each test band.

## 6. Hotspot SAR test results of WiFi 5G

| Test No. | Band              | Mode    | Channel | Test Position | Separation Distance (mm) | Data Rate | Duty Cycle (%) | Maximum Tune-up (dBm) | Conducted Power (dBm) | Power Drift (dB) | SAR 1g (W/kg) | SAR 10g (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|---------|---------|---------------|--------------------------|-----------|----------------|-----------------------|-----------------------|------------------|---------------|----------------|------------------------|
| W66      | WiFi 5.2G UNII_1  | 802.11a | 48      | Front Side    | 10                       | 6M        | 89.90          | 19.00                 | 17.84                 | 0.17             | 0.109         | 0.046          | 0.158                  |
| W67      | WiFi 5.2G UNII_1  | 802.11a | 48      | Back Side     | 10                       | 6M        | 89.90          | 19.00                 | 17.84                 | -0.01            | 0.332         | 0.129          | 0.482                  |
| W68      | WiFi 5.2G UNII_1  | 802.11a | 48      | Left Side     | 10                       | 6M        | 89.90          | 19.00                 | 17.84                 | 0.03             | 0.056         | 0.025          | 0.082                  |
| W69      | WiFi 5.2G UNII_1  | 802.11a | 48      | Right Side    | 10                       | 6M        | 89.90          | 19.00                 | 17.84                 | -0.12            | 0.256         | 0.101          | 0.372                  |
| W70      | WiFi 5.2G UNII_1  | 802.11a | 48      | Top Side      | 10                       | 6M        | 89.90          | 19.00                 | 17.84                 | -0.16            | 0.278         | 0.094          | 0.404                  |
| W71      | WiFi 5.2G UNII_1  | 802.11a | 48      | Bottom Side   | 10                       | 6M        | 89.90          | 19.00                 | 17.84                 | -0.15            | 0.052         | 0.023          | 0.076                  |
| W72      | WiFi 5.2G UNII_1  | 802.11a | 36      | Back Side     | 10                       | 6M        | 89.90          | 19.00                 | 17.71                 | -0.08            | <b>0.349</b>  | <b>0.132</b>   | <b>0.522</b>           |
| W74      | WiFi 5.3G UNII_2A | 802.11a | 52      | Front Side    | 10                       | 6M        | 89.90          | 19.00                 | 18.57                 | -0.12            | 0.142         | 0.055          | 0.174                  |
| W75      | WiFi 5.3G UNII_2A | 802.11a | 52      | Back Side     | 10                       | 6M        | 89.90          | 19.00                 | 18.57                 | -0.03            | <b>0.395</b>  | <b>0.147</b>   | <b>0.485</b>           |
| W76      | WiFi 5.3G UNII_2A | 802.11a | 52      | Left Side     | 10                       | 6M        | 89.90          | 19.00                 | 18.57                 | 0.11             | 0.050         | 0.022          | 0.062                  |
| W77      | WiFi 5.3G UNII_2A | 802.11a | 52      | Right Side    | 10                       | 6M        | 89.90          | 19.00                 | 18.57                 | -0.05            | 0.275         | 0.107          | 0.338                  |
| W78      | WiFi 5.3G UNII_2A | 802.11a | 52      | Top Side      | 10                       | 6M        | 89.90          | 19.00                 | 18.57                 | -0.04            | 0.288         | 0.096          | 0.354                  |
| W79      | WiFi 5.3G UNII_2A | 802.11a | 52      | Bottom Side   | 10                       | 6M        | 89.90          | 19.00                 | 18.57                 | 0.17             | 0.090         | 0.038          | 0.111                  |
| W80      | WiFi 5.3G UNII_2A | 802.11a | 64      | Back Side     | 10                       | 6M        | 89.90          | 19.00                 | 18.36                 | 0.15             | 0.355         | 0.121          | 0.458                  |
| W82      | WiFi 5.6G UNII_2C | 802.11a | 120     | Front Side    | 10                       | 6M        | 89.90          | 18.00                 | 17.56                 | 0.11             | 0.307         | 0.107          | 0.378                  |
| W83      | WiFi 5.6G UNII_2C | 802.11a | 120     | Back Side     | 10                       | 6M        | 89.90          | 18.00                 | 17.56                 | 0.03             | 0.566         | 0.203          | 0.697                  |
| W84      | WiFi 5.6G UNII_2C | 802.11a | 120     | Left Side     | 10                       | 6M        | 89.90          | 18.00                 | 17.56                 | 0.03             | 0.103         | 0.027          | 0.127                  |
| W85      | WiFi 5.6G UNII_2C | 802.11a | 120     | Right Side    | 10                       | 6M        | 89.90          | 18.00                 | 17.56                 | -0.12            | 0.515         | 0.167          | 0.634                  |
| W86      | WiFi 5.6G UNII_2C | 802.11a | 120     | Top Side      | 10                       | 6M        | 89.90          | 18.00                 | 17.56                 | 0.18             | 0.458         | 0.146          | 0.564                  |
| W87      | WiFi 5.6G UNII_2C | 802.11a | 120     | Bottom Side   | 10                       | 6M        | 89.90          | 18.00                 | 17.56                 | -0.04            | 0.106         | 0.037          | 0.130                  |
| W88      | WiFi 5.6G UNII_2C | 802.11a | 100     | Back Side     | 10                       | 6M        | 89.90          | 18.00                 | 17.42                 | 0.09             | 0.617         | 0.215          | 0.784                  |
| W89      | WiFi 5.6G UNII_2C | 802.11a | 140     | Back Side     | 10                       | 6M        | 89.90          | 18.00                 | 17.50                 | -0.03            | <b>0.636</b>  | <b>0.221</b>   | <b>0.794</b>           |
| W91      | WiFi 5.8G UNII_3  | 802.11a | 149     | Front Side    | 10                       | 6M        | 89.90          | 14.00                 | 13.35                 | -0.02            | 0.101         | 0.036          | 0.130                  |
| W92      | WiFi 5.8G UNII_3  | 802.11a | 149     | Back Side     | 10                       | 6M        | 89.90          | 14.00                 | 13.35                 | -0.06            | <b>0.519</b>  | <b>0.172</b>   | <b>0.670</b>           |
| W93      | WiFi 5.8G UNII_3  | 802.11a | 149     | Left Side     | 10                       | 6M        | 89.90          | 14.00                 | 13.35                 | 0.13             | 0.042         | 0.010          | 0.054                  |
| W94      | WiFi 5.8G UNII_3  | 802.11a | 149     | Right Side    | 10                       | 6M        | 89.90          | 14.00                 | 13.35                 | -0.04            | 0.431         | 0.136          | 0.557                  |
| W95      | WiFi 5.8G UNII_3  | 802.11a | 149     | Top Side      | 10                       | 6M        | 89.90          | 14.00                 | 13.35                 | 0.05             | 0.157         | 0.054          | 0.203                  |
| W96      | WiFi 5.8G UNII_3  | 802.11a | 149     | Bottom Side   | 10                       | 6M        | 89.90          | 14.00                 | 13.35                 | 0.05             | 0.061         | 0.019          | 0.079                  |
| W97      | WiFi 5.8G UNII_3  | 802.11a | 157     | Back Side     | 10                       | 6M        | 89.90          | 14.00                 | 12.81                 | 0.18             | 0.450         | 0.125          | 0.658                  |
| W98      | WiFi 5.8G UNII_3  | 802.11a | 165     | Back Side     | 10                       | 6M        | 89.90          | 14.00                 | 12.95                 | 0.09             | 0.471         | 0.140          | 0.667                  |

### Note:

- 1) The value with boldface is the maximum SAR Value of each test band.
- 2) Since the SAR reported for Hotspot mode 1g is less than 1.2W/kg, the product-specific 10g SAR is not required.

### 6.3 MULTIPLE TRANSMITTER EVALUATION

The following tables list information which is relevant for the decision if a simultaneous transmit evaluation is necessary according to FCC KDB447498 D01 General RF Exposure Guidance v06.

The location of the antenna inside EUT is as below:

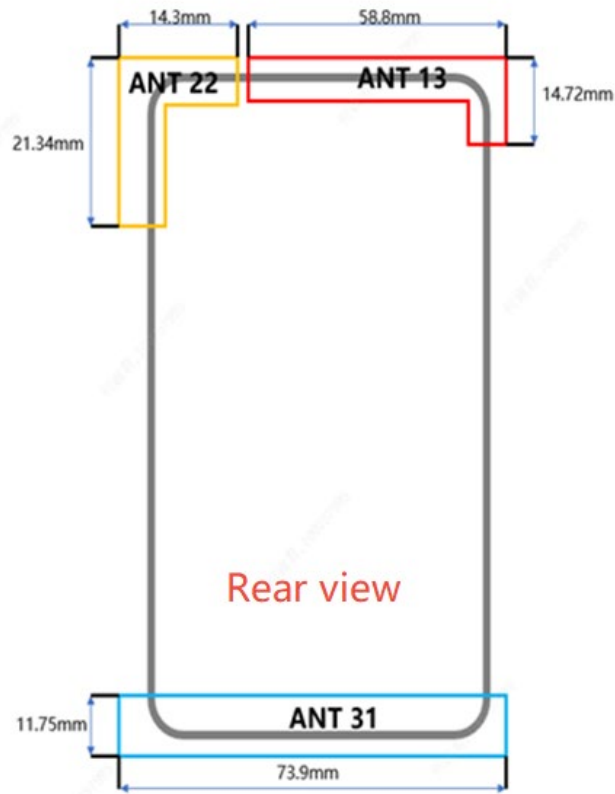


Figure: The location of the antennas

### 6.3.1 SIMULTANEOUS TRANSMISSION CONDITIONS

Per FCC KDB447498 D01, SAR compliance for simultaneous transmission must be considered when the maximum duration of overlapping transmissions, including network hand-offs, is greater than 30 seconds. This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis.

The Simultaneous Transmission Possibilities of this device are as below:

| NO. | Simultaneous Tx Combination                               | Head | Body-worn | Hotspot |
|-----|-----------------------------------------------------------|------|-----------|---------|
| 1   | GSM/UMTS/LTE (Ant 31#) + WiFi 2.4G (Ant 22#)              | Yes  | Yes       | Yes     |
| 2   | GSM/UMTS/LTE (Ant 31#) + WiFi 5G (Ant 22#)                | Yes  | Yes       | Yes     |
| 3   | GSM/UMTS/LTE (Ant 31#) + BT (Ant 22#)                     | Yes  | Yes       | Yes     |
| 4   | GSM/UMTS/LTE (Ant 13#) + WiFi 2.4G (Ant 22#)              | Yes  | Yes       | Yes     |
| 5   | GSM/UMTS/LTE (Ant 13#) + WiFi 5G (Ant 22#)                | Yes  | Yes       | Yes     |
| 6   | GSM/UMTS/LTE (Ant 13#) + BT (Ant 22#)                     | Yes  | Yes       | Yes     |
| 7   | BT (Ant 22#) + WiFi 5G (Ant 22#)                          | Yes  | Yes       | Yes     |
| 8   | GSM/UMTS/LTE (Ant 31#) + BT (Ant 22#) + WiFi 5G (Ant 22#) | Yes  | Yes       | Yes     |
| 9   | GSM/UMTS/LTE (Ant 31#) + BT (Ant 22#) + WiFi 5G (Ant 22#) | Yes  | Yes       | Yes     |
| 10  | GSM/UMTS/LTE (Ant 31#) + BT (Ant 22#) + WiFi 5G (Ant 22#) | Yes  | Yes       | Yes     |
| 11  | GSM/UMTS/LTE (Ant 13#) + BT (Ant 22#) + WiFi 5G (Ant 22#) | Yes  | Yes       | Yes     |
| 12  | GSM/UMTS/LTE (Ant 13#) + BT (Ant 22#) + WiFi 5G (Ant 22#) | Yes  | Yes       | Yes     |
| 13  | GSM/UMTS/LTE (Ant 13#) + BT (Ant 22#) + WiFi 5G (Ant 22#) | Yes  | Yes       | Yes     |

Note:

- 1) 2G&3G&4G can't transmit simultaneously.
- 2) WiFi 2.4G and Bluetooth can't transmit simultaneously.
- 3) WiFi 2.4G and WiFi 5G can't transmit simultaneously.

### 6.3.2 SAR SUMMATION SCENARIO

#### 1. GSM/UMTS/LTE antenna (Ant 13#) + BT/WiFi 2.4G/5G (Ant 22#)

| Position           |           | Head        |              |            |             | Body worn         |                  | Hotspot           |                  |                  |                   |                 |                    |
|--------------------|-----------|-------------|--------------|------------|-------------|-------------------|------------------|-------------------|------------------|------------------|-------------------|-----------------|--------------------|
|                    |           | Right Cheek | Right Tilted | Left Cheek | Left Tilted | Front Side (15mm) | Back Side (15mm) | Front Side (10mm) | Back Side (10mm) | Left Side (10mm) | Right Side (10mm) | Top Side (10mm) | Bottom Side (10mm) |
| Ant 13#            | GSM 850   | 0.574       | 0.543        | 0.469      | 0.472       | 0.185             | 0.250            | 0.336             | 0.469            | 0.153            | 0.186             | 0.393           | 0.017              |
|                    | GSM 1900  | 0.355       | 0.447        | 0.234      | 0.319       | 0.143             | 0.395            | 0.143             | 0.322            | 0.058            | 0.066             | 0.444           | 0.023              |
|                    | UMTS B2   | 0.587       | 0.907        | 0.451      | 0.603       | 0.198             | 0.446            | 0.312             | 0.595            | 0.095            | 0.067             | 0.793           | 0.032              |
|                    | UMTS B4   | 0.757       | 0.879        | 0.347      | 0.452       | 0.333             | 0.643            | 0.329             | 0.532            | 0.130            | 0.069             | 0.661           | 0.013              |
|                    | UMTS B5   | 0.659       | 0.589        | 0.574      | 0.561       | 0.174             | 0.202            | 0.266             | 0.391            | 0.159            | 0.171             | 0.309           | 0.003              |
|                    | LTE B2    | 0.562       | 0.702        | 0.347      | 0.482       | 0.133             | 0.369            | 0.311             | 0.605            | 0.121            | 0.050             | 0.781           | 0.020              |
|                    | LTE B4    | 0.457       | 0.676        | 0.323      | 0.430       | 0.212             | 0.449            | 0.365             | 0.613            | 0.132            | 0.078             | 0.709           | 0.039              |
|                    | LTE B5    | 0.511       | 0.582        | 0.442      | 0.505       | 0.184             | 0.235            | 0.291             | 0.395            | 0.150            | 0.163             | 0.340           | 0.019              |
|                    | LTE B7    | 0.527       | 0.906        | 0.458      | 0.612       | 0.106             | 0.424            | 0.155             | 0.564            | 0.071            | 0.011             | 0.823           | 0.010              |
|                    | LTE B13   | 0.432       | 0.483        | 0.426      | 0.446       | 0.108             | 0.135            | 0.134             | 0.187            | 0.139            | 0.121             | 0.142           | 0.006              |
|                    | LTE B26   | 0.503       | 0.523        | 0.466      | 0.482       | 0.129             | 0.189            | 0.246             | 0.462            | 0.136            | 0.173             | 0.280           | 0.014              |
|                    | LTE B38   | 0.588       | 0.882        | 0.592      | 0.599       | 0.107             | 0.335            | 0.115             | 0.358            | 0.058            | 0.018             | 0.491           | 0.007              |
|                    | LTE B41   | 0.493       | 0.906        | 0.464      | 0.603       | 0.079             | 0.328            | 0.093             | 0.290            | 0.036            | 0.084             | 0.464           | 0.008              |
|                    | LTE B66   | 0.458       | 0.634        | 0.307      | 0.462       | 0.128             | 0.342            | 0.346             | 0.564            | 0.131            | 0.062             | 0.706           | 0.032              |
| Ant 22#            | WLAN 2.4G | 0.446       | 0.532        | 0.819      | 0.786       | 0.215             | 0.257            | 0.347             | 0.565            | 0.059            | 0.255             | 0.494           | 0.024              |
|                    | WLAN 5.2G | 0.157       | 0.183        | 0.307      | 0.614       | 0.131             | 0.353            | 0.158             | 0.522            | 0.082            | 0.372             | 0.404           | 0.076              |
|                    | WLAN 5.3G | 0.336       | 0.394        | 0.491      | 0.754       | 0.158             | 0.397            | 0.174             | 0.485            | 0.062            | 0.338             | 0.354           | 0.111              |
|                    | WLAN 5.6G | 0.319       | 0.367        | 0.759      | 0.826       | 0.335             | 0.774            | 0.378             | 0.794            | 0.127            | 0.634             | 0.564           | 0.130              |
|                    | WLAN 5.8G | 0.245       | 0.265        | 0.722      | 0.786       | 0.187             | 0.715            | 0.130             | 0.670            | 0.054            | 0.557             | 0.203           | 0.079              |
|                    | Bluetooth | 0.124       | 0.164        | 0.279      | 0.232       | 0.031             | 0.039            | 0.032             | 0.086            | 0.044            | 0.009             | 0.075           | <0.001             |
| Max. SAR Summation |           | 1.203       | 1.439        | 1.411      | 1.438       | /                 | /                | 0.743             | 1.407            | 0.286            | 0.820             | 1.387           | 0.169              |

Note:

- 1) MAX.  $\sum SAR_{1g} = 1.439 \text{ W/Kg} < 1.6 \text{ W/Kg}$ , so the SAR to peak location separation ratio should not be considered.
- 2) The maximum SAR summation is calculated based on the same configuration and test position.

## 2. GSM/UMTS/LTE antenna (Ant 31#) + BT/WiFi 2.4G/5G (Ant 22#)

| Position           |           | Head        |              |            |             | Body worn         |                  | Hotspot           |                  |                  |                   |                 |                    |
|--------------------|-----------|-------------|--------------|------------|-------------|-------------------|------------------|-------------------|------------------|------------------|-------------------|-----------------|--------------------|
|                    |           | Right Cheek | Right Tilted | Left Cheek | Left Tilted | Front Side (15mm) | Back Side (15mm) | Front Side (10mm) | Back Side (10mm) | Left Side (10mm) | Right Side (10mm) | Top Side (10mm) | Bottom Side (10mm) |
| Ant 31#            | GSM 850   | 0.207       | 0.113        | 0.311      | 0.151       | 0.219             | 0.317            | 0.258             | 0.371            | 0.307            | 0.152             | 0.018           | 0.320              |
|                    | GSM 1900  | 0.038       | 0.038        | 0.094      | 0.029       | 0.223             | 0.316            | 0.143             | 0.396            | 0.039            | 0.097             | 0.001           | 0.333              |
|                    | UMTS B2   | 0.155       | 0.120        | 0.231      | 0.084       | 0.166             | 0.346            | 0.164             | 0.377            | 0.058            | 0.085             | 0.014           | 0.418              |
|                    | UMTS B4   | 0.090       | 0.053        | 0.168      | 0.046       | 0.120             | 0.258            | 0.136             | 0.305            | 0.016            | 0.071             | 0.088           | 0.389              |
|                    | UMTS B5   | 0.163       | 0.099        | 0.241      | 0.116       | 0.145             | 0.195            | 0.186             | 0.325            | 0.169            | 0.106             | 0.015           | 0.214              |
|                    | LTE B2    | 0.156       | 0.127        | 0.209      | 0.103       | 0.176             | 0.293            | 0.207             | 0.472            | 0.088            | 0.165             | 0.142           | 0.432              |
|                    | LTE B4    | 0.069       | 0.054        | 0.158      | 0.064       | 0.118             | 0.298            | 0.156             | 0.411            | 0.052            | 0.088             | 0.009           | 0.518              |
|                    | LTE B5    | 0.111       | 0.062        | 0.203      | 0.084       | 0.131             | 0.180            | 0.145             | 0.300            | 0.143            | 0.104             | 0.018           | 0.197              |
|                    | LTE B7    | 0.349       | 0.151        | 0.140      | 0.137       | 0.220             | 0.240            | 0.211             | 0.247            | 0.063            | 0.251             | 0.049           | 0.190              |
|                    | LTE B13   | 0.073       | 0.048        | 0.110      | 0.074       | 0.122             | 0.149            | 0.135             | 0.217            | 0.205            | 0.087             | 0.007           | 0.238              |
|                    | LTE B26   | 0.092       | 0.050        | 0.151      | 0.069       | 0.133             | 0.157            | 0.135             | 0.242            | 0.128            | 0.074             | 0.008           | 0.177              |
|                    | LTE B38   | 0.287       | 0.132        | 0.154      | 0.133       | 0.159             | 0.166            | 0.266             | 0.314            | 0.021            | 0.288             | 0.031           | 0.210              |
|                    | LTE B41   | 0.331       | 0.106        | 0.122      | 0.117       | 0.166             | 0.219            | 0.182             | 0.313            | 0.020            | 0.181             | 0.024           | 0.153              |
|                    | LTE B66   | 0.091       | 0.072        | 0.156      | 0.070       | 0.110             | 0.261            | 0.141             | 0.356            | 0.050            | 0.081             | 0.007           | 0.451              |
| Ant 22#            | WLAN 2.4G | 0.446       | 0.553        | 0.819      | 0.786       | 0.215             | 0.257            | 0.347             | 0.565            | 0.059            | 0.255             | 0.494           | 0.024              |
|                    | WLAN 5.2G | 0.157       | 0.183        | 0.307      | 0.614       | 0.131             | 0.353            | 0.158             | 0.522            | 0.082            | 0.372             | 0.404           | 0.076              |
|                    | WLAN 5.3G | 0.336       | 0.394        | 0.491      | 0.754       | 0.158             | 0.397            | 0.174             | 0.485            | 0.062            | 0.338             | 0.354           | 0.111              |
|                    | WLAN 5.6G | 0.319       | 0.367        | 0.759      | 0.859       | 0.335             | 0.774            | 0.378             | 0.794            | 0.127            | 0.634             | 0.564           | 0.130              |
|                    | WLAN 5.8G | 0.245       | 0.265        | 0.722      | 0.786       | 0.187             | 0.715            | 0.130             | 0.670            | 0.054            | 0.557             | 0.203           | 0.079              |
|                    | Bluetooth | 0.124       | 0.164        | 0.279      | 0.232       | 0.031             | 0.039            | 0.032             | 0.086            | 0.044            | 0.009             | 0.075           | <0.001             |
| Max. SAR Summation |           | 0.795       | 0.704        | 1.130      | 1.010       | /                 | /                | 0.644             | 1.266            | 0.434            | 0.922             | 0.706           | 0.648              |

Note:

1) MAX.  $\sum SAR_{1g} = 1.266 \text{ W/Kg} < 1.6 \text{ W/Kg}$ , so the SAR to peak location separation ratio should not be considered.

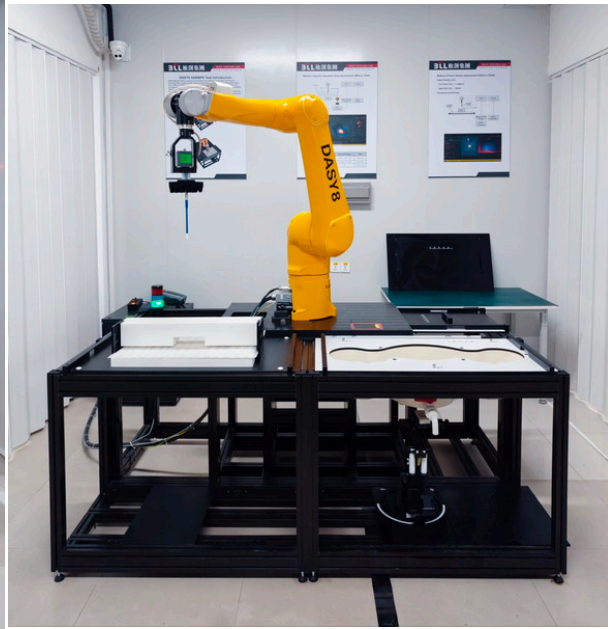
2) The maximum SAR summation is calculated based on the same configuration and test position.

**APPENDIX****1. TEST LAYOUT****Specific Absorption Rate Test Layout**

DASY5



DASY8

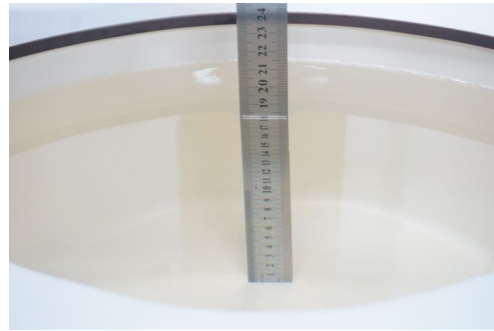


**Liquid depth in the flat Phantom ( $\geq 15\text{cm}$  depth)**

Head\_695-925\_15.5cm



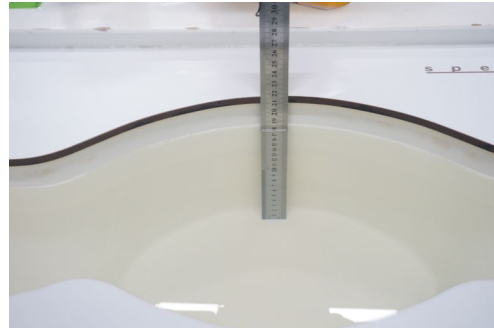
Body\_695-925\_18.3cm



Head\_1700-1900\_15cm



Body\_1700-1900\_18.1cm



Head\_1900-2300\_15.4cm



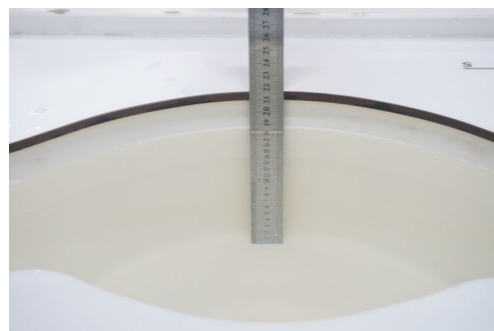
Body\_1900-2300\_18.5cm



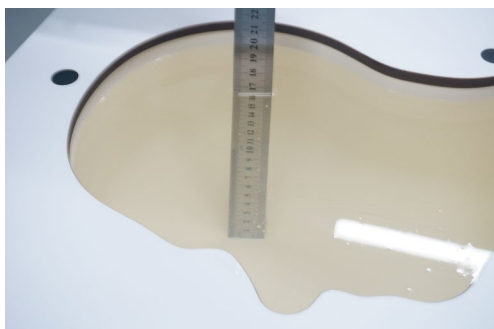
Head\_2300-2700\_15cm



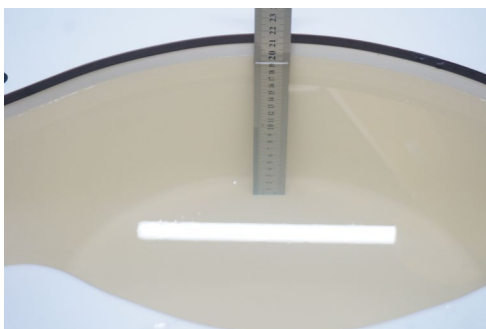
Body\_2300-2700\_18.3cm



Head\_4500-6000\_16.5cm



Body\_4500-6000\_19.5cm



## **Appendix A. SAR Plots of System Verification**

(Pls See BTL-FCC SAR-1-2604C042\_Appendix A.)

## **Appendix B. SAR Plots of SAR Measurement**

(Pls See BTL-FCC SAR-1-2604C042\_Appendix B.)

## **Appendix C. Calibration Certificate**

(Pls See BTL-FCC SAR-1-2604C042\_Appendix C.)

## **Appendix D. Photographs of the Test Set-Up**

(Pls See BTL-FCC SAR-1-2604C042\_Appendix D.)

## **Appendix E. Conducted power measurement result**

(Pls See BTL-FCC SAR-1-2604C042\_Appendix E.)