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# FCC SAR TEST REPORT

Report No.: STS2305319H02

Issued for

Trackimo INC.

680 Central Ave, Cedarhurst, New York 11516, USA

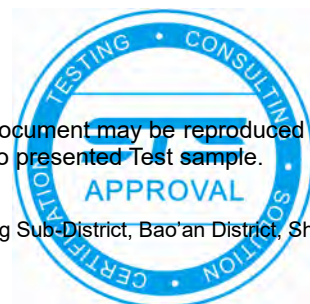
|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| <b>Product Name:</b>             | GPS Tracker                                         |
| <b>Brand Name:</b>               | Tracki, Trackimo                                    |
| <b>Model Name:</b>               | TRKM010B                                            |
| <b>Series Model:</b>             | TRKM010W, TRKM010J, TRKM010V,<br>TRKM010T, TRKM010E |
| <b>FCC ID:</b>                   | 2AAI6-TRKM010B                                      |
| <b>Test Standard:</b>            | ANSI/IEEE Std. C95.1                                |
|                                  | FCC 47 CFR Part 2 ( 2.1093)                         |
|                                  | IEC/IEEE 62209-1528                                 |
| <b>Max. Report<br/>SAR (1g):</b> | Body: 1.456 W/kg                                    |

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## Test Report Certification

**Applicant's name** ..... : Trackimo INC.

**Address** ..... : 680 Central Ave, Cedarhurst, New York 11516, USA

**Manufacturer's Name** ..... : Trackimo INC.

**Address** ..... : 680 Central Ave, Cedarhurst, New York 11516, USA

### Product description

**Product name** ..... : GPS Tracker

**Brand name** ..... : Tracki, Trackimo

**Model name** ..... : TRKM010B

**Series Model**..... : TRKM010W, TRKM010J, TRKM010V, TRKM010T, TRKM010E

**Standards**..... : ANSI/IEEE Std. C95.1-1992  
FCC 47 CFR Part 2 (2.1093)  
IEC/IEEE 62209-1528

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

**Date of Test**..... :

**Date (s) of performance of tests**..... : 12 Jun. 2023 ~ 16 Jun. 2023

**Date of Issue**..... : 19 Jun. 2023

**Test Result**..... : **Pass**

**Testing Engineer** :

(Shifan. Long)

**Technical Manager** :

(Sean she)

**Authorized Signatory** :

(Bovey Yang)





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**Revision History**

| Rev. | Issue Date   | Report No.    | Effect Page | Contents      |
|------|--------------|---------------|-------------|---------------|
| 00   | 19 Jun. 2023 | STS2305319H02 | ALL         | Initial Issue |





## 1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

### 1.1 EUT Description

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name            | GPS Tracker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Brand Name              | Tracki, Trackimo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Model Name              | TRKM010B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Series Model            | TRKM010W, TRKM010J, TRKM010V, TRKM010T, TRKM010E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Model Difference        | the difference only in the model name and Brand name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Battery                 | Rated Voltage: 3.7V<br>Charge Limit Voltage: 4.2V<br>Capacity: 600mAh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Device Category         | Portable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product stage           | Production unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| RF Exposure Environment | General Population / Uncontrolled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Hardware Version        | UB12 PCB V0.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Software Version        | 0.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Frequency Range         | GSM 850: 824 MHz ~ 849 MHz<br>PCS1900: 1850 MHz ~ 1910 MHz<br>WCDMA Band II: 1850 MHz ~ 1910 MHz<br>WCDMA Band V: 824 MHz ~ 849 MHz<br>LTE Band 2: 1850 MHz ~ 1910 MHz<br>LTE Band 4: 1710 MHz ~ 1755 MHz<br>LTE Band 5: 824 MHz ~ 849 MHz<br>LTE Band 7: 2500 MHz ~ 2570 MHz<br>LTE Band 12: 699 MHz ~ 716 MHz<br>LTE Band 17: 704 MHz ~ 716 MHz<br>LTE Band 25: 1820 MHz ~ 1915 MHz<br>LTE Band 26: 814 MHz ~ 849 MHz<br>LTE Band 41: 2496 MHz ~ 2690 MHz<br>WLAN802.11b/g/n20: 2412 MHz ~ 2462 MHz(Receive only)<br>WLAN 802.11n40: 2422 MHz ~ 2452 MHz(Receive only)<br>Bluetooth: 2402 MHz to 2480 MHz |



|                                                                                                                                                         |                                                                                                       |                           |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------|-------------|
| Max. Reported SAR(1g):<br>(Limit: 1.6W/kg)                                                                                                              | Band                                                                                                  | Mode                      | Body (W/kg) |
|                                                                                                                                                         | PCB                                                                                                   | GSM 850                   | 0.421       |
|                                                                                                                                                         | PCB                                                                                                   | GSM 1900                  | 0.875       |
|                                                                                                                                                         | PCB                                                                                                   | WCDMA Band II             | 1.456       |
|                                                                                                                                                         | PCB                                                                                                   | WCDMA Band V              | 0.183       |
|                                                                                                                                                         | PCB                                                                                                   | LTE Band 2                | 1.249       |
|                                                                                                                                                         | PCB                                                                                                   | LTE Band 4                | 0.477       |
|                                                                                                                                                         | PCB                                                                                                   | LTE Band 5                | 0.267       |
|                                                                                                                                                         | PCB                                                                                                   | LTE Band 7                | 0.574       |
|                                                                                                                                                         | PCB                                                                                                   | LTE Band 12               | 0.462       |
|                                                                                                                                                         | PCB                                                                                                   | LTE Band 17               | 0.249       |
|                                                                                                                                                         | PCB                                                                                                   | LTE Band 25               | 0.808       |
|                                                                                                                                                         | PCB                                                                                                   | LTE Band 26               | 0.162       |
|                                                                                                                                                         | PCB                                                                                                   | LTE Band 41               | 0.942       |
|                                                                                                                                                         | DTS                                                                                                   | Bluetooth <sup>Note</sup> | 0.023       |
| 1-g Sum SAR                                                                                                                                             |                                                                                                       |                           | 1.479       |
| FCC Equipment Class                                                                                                                                     | PCS Licensed Transmitter (PCB)<br>Digital Transmission System (DTS)                                   |                           |             |
| Operating Mode:                                                                                                                                         | GSM: GPRS/EGPRS Class 12<br>WCDMA: RMC, HSDPA, HSUPA Release 6<br>LTE: QPSK, 16QAM<br>BLE: 4.2 (GFSK) |                           |             |
| Antenna Specification:                                                                                                                                  | GSM/WCDMA/LTE: PIFA Antenna<br>Bluetooth: PIFA Antenna                                                |                           |             |
| SIM Card                                                                                                                                                | Only support single SIM card                                                                          |                           |             |
| Hotspot Mode                                                                                                                                            | Not Support                                                                                           |                           |             |
| DTM Mode                                                                                                                                                | Not Support                                                                                           |                           |             |
| Note:<br>1. Bluetooth SAR was estimated<br>2. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power |                                                                                                       |                           |             |



## 1.2 Test Environment

Ambient conditions in the SAR laboratory:

| Items            | Required |
|------------------|----------|
| Temperature (°C) | 18-25    |
| Humidity (%RH)   | 30-70    |

## 1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01





## 2. Test Standards and Limits

| No. | Identity                  | Document Title                                                                                                                                                                                                                                                                  |
|-----|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | 47 CFR Part 2             | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations                                                                                                                                                                                                   |
| 2   | ANSI/IEEE Std. C95.1-1992 | IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz                                                                                                                                                      |
| 3   | IEC/IEEE 62209-1528       | Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz) |
| 4   | FCC KDB 447498 D01 v06    | Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies                                                                                                                                                                                          |
| 5   | FCC KDB 865664 D01 v01r04 | SAR Measurement 100 MHz to 6 GHz                                                                                                                                                                                                                                                |
| 6   | FCC KDB 865664 D02 v01r02 | RF Exposure Reporting                                                                                                                                                                                                                                                           |
| 7   | FCC KDB 941225 D01 v03r01 | SAR Measurement Procedures for 3G Devices                                                                                                                                                                                                                                       |
| 8   | FCC KDB 941225 D05 v02r05 | SAR for LTE Devices                                                                                                                                                                                                                                                             |
| 9   | FCC KDB 648474 D04 v01r03 | SAR Evaluation Considerations for Wireless Handsets                                                                                                                                                                                                                             |

(A). Limits for Occupational/Controlled Exposure (W/kg)

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.4        | 8.0          | 20.0                           |

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.08       | 1.6          | 4.0                            |

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

**Population/Uncontrolled Environments:**

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

**Occupational/Controlled Environments:**

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

**NOTE**

**GENERAL POPULATION/UNCONTROLLED EXPOSURE**

**PARTIAL BODY LIMIT**

**1.6 W/kg**

### 3. SAR Measurement System

#### 3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density ( $\rho$ ). The equation description is as below:

$$SAR = \frac{d}{dt} \left( \frac{dW}{dm} \right) = \frac{d}{dt} \left( \frac{dW}{\rho dv} \right)$$

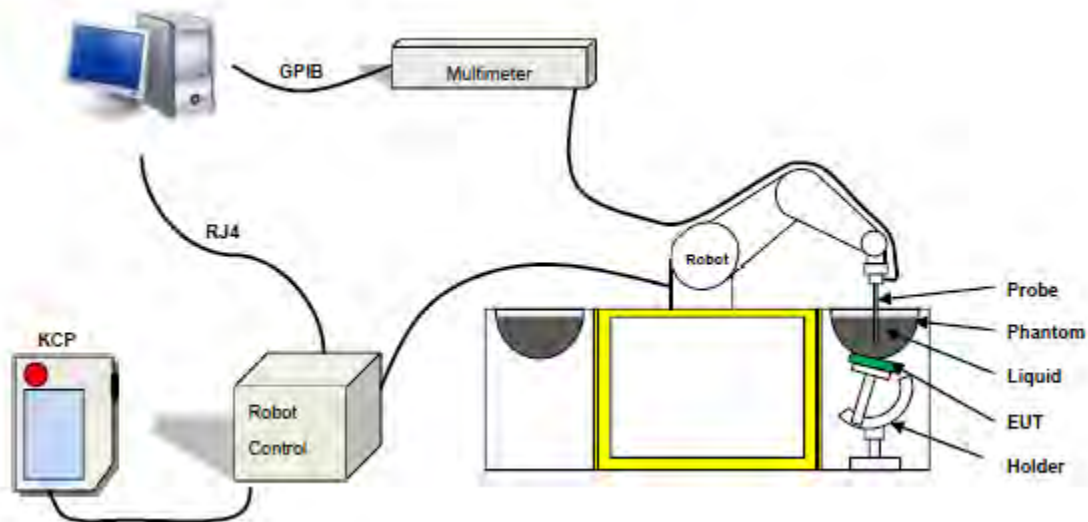
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

Where:  $\sigma$  is the conductivity of the tissue,  
 $\rho$  is the mass density of the tissue and E is the RMS electrical field strength.

#### 3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The Open SAR software computes the results to give a SAR value in a 1g or 10g mass.

### 3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 07/21 EPGO352 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 450 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Dipole

### 3.2.2 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

SN 32/14 SAM115



Figure-SN 21/21 ELLI48



### 3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of  $\pm 0.5$  mm would produce a SAR uncertainty of  $\pm 20$  %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

### 4. Tissue Simulating Liquids



## 4. Tissue Simulating Liquids

### 4.1 Simulating Liquids Parameter Check

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

#### Head Tissue

| Frequency (MHz) | cellulose % | DGBE % | HEC % | NaCl % | Preventol % | Sugar % | X100 % | Water % | Conductivity $\sigma$ | Permittivity $\epsilon_r$ |
|-----------------|-------------|--------|-------|--------|-------------|---------|--------|---------|-----------------------|---------------------------|
| 750             | 0.2         | /      | /     | 1.4    | 0.2         | 57.0    | /      | 41.1    | 0.89                  | 41.9                      |
| 835             | 0.2         | /      | /     | 1.4    | 0.2         | 57.9    | /      | 40.3    | 0.90                  | 41.5                      |
| 900             | 0.2         | /      | /     | 1.4    | 0.2         | 57.9    | /      | 40.3    | 0.97                  | 41.5                      |
| 1800            | /           | 44.5   | /     | 0.3    | /           | /       | 30.45  | 55.2    | 1.4                   | 40.0                      |
| 1900            | /           | 44.5   | /     | 0.3    | /           | /       | 30.45  | 55.2    | 1.4                   | 40.0                      |
| 2000            | /           | 44.5   | /     | 0.3    | /           | /       | /      | 55.2    | 1.4                   | 40.0                      |
| 2450            | /           | 44.9   | /     | 0.1    | /           | /       | /      | 55.0    | 1.80                  | 39.2                      |
| 2600            | /           | 45.0   | /     | 0.1    | /           | /       | /      | 54.9    | 1.96                  | 39.0                      |

#### Body Tissue

| Frequency (MHz) | cellulose % | DGBE % | HEC % | NaCl % | Preventol % | Sugar % | X100 % | Water % | Conductivity $\sigma$ | Permittivity $\epsilon_r$ |
|-----------------|-------------|--------|-------|--------|-------------|---------|--------|---------|-----------------------|---------------------------|
| 750             | 0.2         | /      | /     | 0.9    | 0.1         | 47.2    | /      | 51.7    | 0.96                  | 55.5                      |
| 835             | 0.2         | /      | /     | 0.9    | 0.1         | 48.2    | /      | 50.8    | 0.97                  | 55.2                      |
| 900             | 0.2         | /      | /     | 0.9    | 0.1         | 48.2    | /      | 50.8    | 1.05                  | 55.0                      |
| 1800            | /           | 29.4   | /     | 0.4    | /           | /       | 30.45  | 70.2    | 1.52                  | 53.3                      |
| 1900            | /           | 29.4   | /     | 0.4    | /           | /       | 30.45  | 70.2    | 1.52                  | 53.3                      |
| 2000            | /           | 29.4   | /     | 0.4    | /           | /       | /      | 70.2    | 1.52                  | 53.3                      |
| 2450            | /           | 31.3   | /     | 0.1    | /           | /       | /      | 68.6    | 1.95                  | 52.7                      |
| 2600            | /           | 31.7   | /     | 0.1    | /           | /       | /      | 68.2    | 2.16                  | 52.3                      |

| Tissue dielectric parameters for head and body phantoms |              |      |                 |      |
|---------------------------------------------------------|--------------|------|-----------------|------|
| Frequency                                               | $\epsilon_r$ |      | $\sigma$<br>S/m |      |
|                                                         | Head         | Body | Head            | Body |
| 300                                                     | 45.3         | 58.2 | 0.87            | 0.92 |
| 450                                                     | 43.5         | 56.7 | 0.87            | 0.94 |
| 900                                                     | 41.5         | 55.0 | 0.97            | 1.05 |
| 1450                                                    | 40.5         | 54.0 | 1.20            | 1.30 |
| 1800                                                    | 40.0         | 53.3 | 1.40            | 1.52 |
| 2450                                                    | 39.2         | 52.7 | 1.80            | 1.95 |
| 3000                                                    | 38.5         | 52.0 | 2.40            | 2.73 |
| 5800                                                    | 35.3         | 48.2 | 5.27            | 6.00 |

**LIQUID MEASUREMENT RESULTS**

| Date       | Ambient    |            | Simulating Liquid |            | Parameters   | Target | Measured | Deviation % | Limited % |
|------------|------------|------------|-------------------|------------|--------------|--------|----------|-------------|-----------|
|            | Temp. [°C] | Humidity % | Frequency(MHz)    | Temp. [°C] |              |        |          |             |           |
| 2023-06-12 | 20.9       | 59         | 708               | 20.5       | Permittivity | 42.13  | 42.29    | 0.39        | ±5        |
|            |            |            |                   |            | Conductivity | 0.89   | 0.86     | -3.06       | ±5        |
| 2023-06-12 | 20.9       | 59         | 710               | 20.6       | Permittivity | 42.11  | 43.26    | 2.72        | ±5        |
|            |            |            |                   |            | Conductivity | 0.89   | 0.87     | -1.95       | ±5        |
| 2023-06-12 | 20.9       | 59         | 711               | 20.6       | Permittivity | 42.11  | 42.34    | 0.55        | ±5        |
|            |            |            |                   |            | Conductivity | 0.89   | 0.87     | -1.96       | ±5        |
| 2023-06-12 | 20.9       | 59         | 750               | 20.6       | Permittivity | 41.90  | 42.49    | 1.41        | ±5        |
|            |            |            |                   |            | Conductivity | 0.89   | 0.92     | 3.37        | ±5        |
| 2023-06-13 | 21.7       | 60         | 824.2             | 21.4       | Permittivity | 41.55  | 41.79    | 0.58        | ±5        |
|            |            |            |                   |            | Conductivity | 0.90   | 0.92     | 2.37        | ±5        |
| 2023-06-12 | 20.9       | 60         | 831.5             | 20.6       | Permittivity | 41.52  | 41.39    | -0.30       | ±5        |
|            |            |            |                   |            | Conductivity | 0.90   | 0.88     | -2.18       | ±5        |
| 2023-06-13 | 21.8       | 60         | 835               | 21.5       | Permittivity | 41.50  | 40.84    | -1.59       | ±5        |
|            |            |            |                   |            | Conductivity | 0.90   | 0.94     | 4.44        | ±5        |
| 2023-06-13 | 21.9       | 60         | 841.5             | 21.6       | Permittivity | 41.47  | 42.16    | 1.67        | ±5        |
|            |            |            |                   |            | Conductivity | 0.90   | 0.91     | 1.03        | ±5        |
| 2023-06-13 | 21.9       | 61         | 844               | 21.6       | Permittivity | 41.46  | 41.05    | -0.98       | ±5        |
|            |            |            |                   |            | Conductivity | 0.90   | 0.89     | -1.23       | ±5        |
| 2023-06-13 | 21.9       | 61         | 846.5             | 21.6       | Permittivity | 41.45  | 40.74    | -1.70       | ±5        |
|            |            |            |                   |            | Conductivity | 0.90   | 0.88     | -2.37       | ±5        |
| 2023-06-14 | 23.0       | 48         | 1732.5            | 22.7       | Permittivity | 40.10  | 40.39    | 0.73        | ±5        |
|            |            |            |                   |            | Conductivity | 1.36   | 1.37     | 0.63        | ±5        |
| 2023-06-14 | 23.1       | 48         | 1800              | 22.8       | Permittivity | 40.00  | 40.59    | 1.48        | ±5        |
|            |            |            |                   |            | Conductivity | 1.40   | 1.34     | -4.29       | ±5        |
| 2023-06-15 | 22.7       | 60         | 1852.4            | 22.4       | Permittivity | 40.00  | 40.75    | 1.88        | ±5        |
|            |            |            |                   |            | Conductivity | 1.40   | 1.39     | -0.71       | ±5        |
| 2023-06-15 | 22.7       | 60         | 1860              | 22.4       | Permittivity | 40.00  | 40.79    | 1.98        | ±5        |
|            |            |            |                   |            | Conductivity | 1.40   | 1.42     | 1.43        | ±5        |
| 2023-06-15 | 22.7       | 60         | 1880              | 22.5       | Permittivity | 40.00  | 39.79    | -0.53       | ±5        |
|            |            |            |                   |            | Conductivity | 1.40   | 1.38     | -1.43       | ±5        |



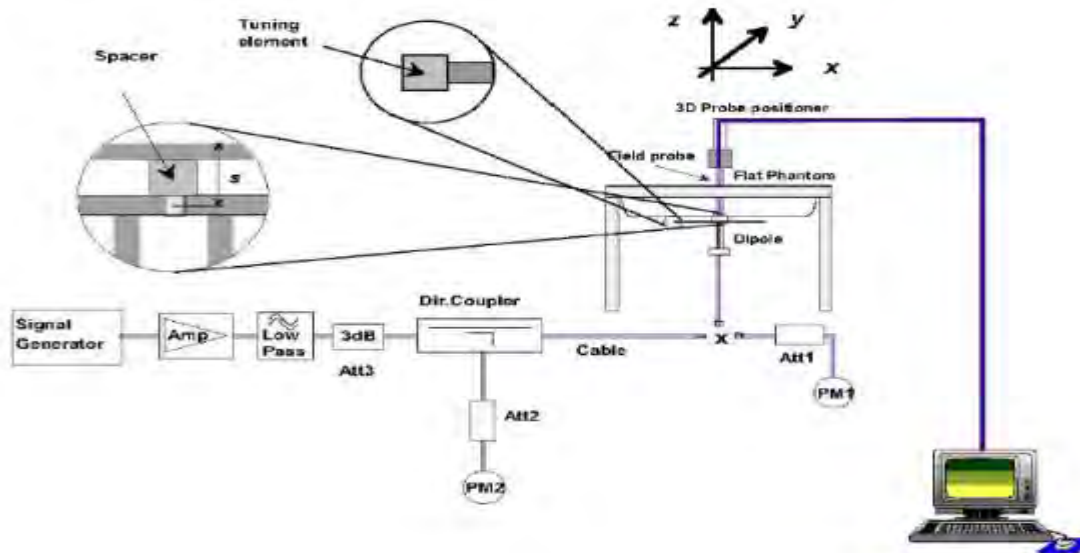
|            |      |    |        |      |              |       |       |       |    |
|------------|------|----|--------|------|--------------|-------|-------|-------|----|
| 2023-06-15 | 22.7 | 60 | 1900   | 22.3 | Permittivity | 40.00 | 40.48 | 1.20  | ±5 |
|            |      |    |        |      | Conductivity | 1.40  | 1.37  | -2.14 | ±5 |
| 2023-06-15 | 22.7 | 60 | 1905   | 22.4 | Permittivity | 40.00 | 40.36 | 0.90  | ±5 |
|            |      |    |        |      | Conductivity | 1.40  | 1.44  | 2.86  | ±5 |
| 2023-06-15 | 22.8 | 61 | 1907.6 | 22.5 | Permittivity | 40.00 | 40.45 | 1.13  | ±5 |
|            |      |    |        |      | Conductivity | 1.40  | 1.41  | 0.71  | ±5 |
| 2023-06-16 | 20.4 | 40 | 2535   | 20.1 | Permittivity | 39.09 | 40.07 | 2.52  | ±5 |
|            |      |    |        |      | Conductivity | 1.89  | 1.87  | -1.09 | ±5 |
| 2023-06-16 | 20.4 | 40 | 2560   | 20.1 | Permittivity | 39.05 | 40.07 | 2.60  | ±5 |
|            |      |    |        |      | Conductivity | 1.92  | 1.93  | 0.66  | ±5 |
| 2023-06-16 | 20.4 | 41 | 2600   | 20.1 | Permittivity | 39.00 | 39.84 | 2.15  | ±5 |
|            |      |    |        |      | Conductivity | 1.96  | 1.95  | -0.51 | ±5 |
| 2023-06-16 | 20.5 | 41 | 2680   | 20.3 | Permittivity | 38.89 | 39.72 | 2.13  | ±5 |
|            |      |    |        |      | Conductivity | 2.05  | 2.08  | 1.69  | ±5 |

## 5. SAR System Validation

### 5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.



### 5.2 Validation Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of 10 %.

| Date       | Freq. | Power | Tested Value | Normalized SAR | Target SAR | Tolerance | Limit |
|------------|-------|-------|--------------|----------------|------------|-----------|-------|
|            | (MHz) | (mW)  | (W/Kg)       | (W/kg)         | 1g(W/kg)   | (%)       | (%)   |
| 2023-06-12 | 750   | 100   | 0.830        | 8.30           | 8.49       | -2.24     | 10    |
| 2023-06-13 | 835   | 100   | 0.975        | 9.75           | 9.63       | 1.25      | 10    |
| 2023-06-14 | 1800  | 100   | 3.862        | 38.62          | 38.31      | 0.81      | 10    |
| 2023-06-15 | 1900  | 100   | 4.119        | 41.19          | 39.84      | 3.39      | 10    |
| 2023-06-16 | 2600  | 100   | 5.698        | 56.98          | 56.19      | 1.41      | 10    |

Note:

1. The tolerance limit of System validation  $\pm 10\%$ .
2. The dipole input power (forward power) was 100 mW.
3. The results are normalized to 1 W input power.



## 6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm \* 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 \* 30 \* 30 mm or 32 \* 32 \* 32 mm is assessed by measuring 5 or 8 \* 5 or 8\*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

➤ Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below. When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.



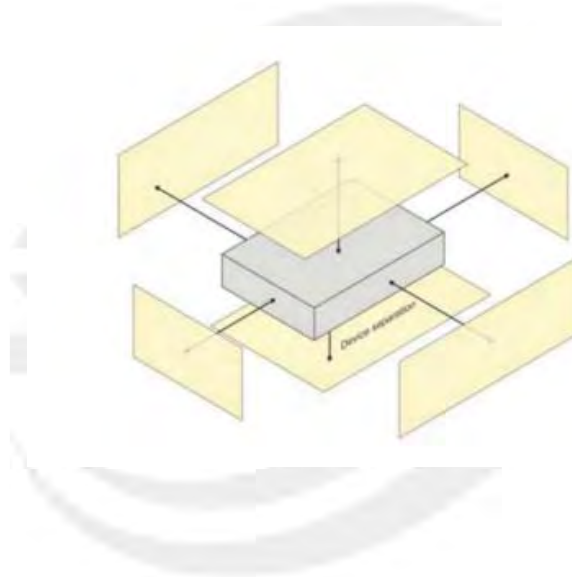
## 7. EUT Test Position

This EUT was tested Front side, Back Side, Left Side, Right Side, Top Side and Bottom Side.

### 7.1 Body-worn Position Conditions

Body-worn Position Conditions:

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is  $> 1.2 \text{ W/kg}$ , the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.





## 7.2 SAR Test Exclusions Applied

Standalone SAR test exclusion applies 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

$d$  = the separation distance (cm);

| Function | Fre. (GHz) | Separation distance (cm) | Max Turn up power (dBm) | Max Turn up power (mW) | Pth (mW) |
|----------|------------|--------------------------|-------------------------|------------------------|----------|
| BLE      | 2.402      | 0.5                      | -14                     | 0.04                   | 2.79     |

Note: The Maximum power is less than the Pth, complies with the exemption requirements.



## 8. Uncertainty

### 8.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

| Symbol                                                       | Uncertainty Component                                                    | Prob. Dist.   | Unc. $a(x_i)$ | Div. $q_i$ | $u(x_i) = a(x_i)/q_i$ | $C_i$                  | $u(y) = C_i * u(x_i)$ | $v_i$    |
|--------------------------------------------------------------|--------------------------------------------------------------------------|---------------|---------------|------------|-----------------------|------------------------|-----------------------|----------|
| <b>Measurement system errors</b>                             |                                                                          |               |               |            |                       |                        |                       |          |
| CF                                                           | Probe calibration                                                        | N ( $k = 2$ ) | 5.72          | 2          | 2.86                  | 1                      | 2.86                  | $\infty$ |
| CF <sub>drift</sub>                                          | Probe calibration drift                                                  | R             | 0.15          | $\sqrt{3}$ | 0.09                  | 1                      | 0.09                  | $\infty$ |
| LIN                                                          | Probe linearity and detection limit                                      | R             | 1.27          | $\sqrt{3}$ | 0.73                  | 1                      | 0.73                  | $\infty$ |
| BBS                                                          | Broadband signal                                                         | R             | 0.12          | $\sqrt{3}$ | 0.07                  | 1                      | 0.07                  | $\infty$ |
| ISO                                                          | Probe isotropy                                                           | R             | 0.16          | $\sqrt{3}$ | 0.09                  | 1                      | 0.09                  | $\infty$ |
| DAE                                                          | Other probe and data acquisition errors                                  | N             | 2.4           | 1          | 2.40                  | 1                      | 2.40                  | $\infty$ |
| AMB                                                          | RF ambient and noise                                                     | N             | 3.51          | 1          | 3.51                  | 1                      | 3.51                  | $\infty$ |
| $\Delta_{xyz}$                                               | Probe positioning errors                                                 | N             | 1.2           | 1          | 1.20                  | 2/5                    | 1.20                  |          |
| DAT                                                          | Data processing errors                                                   | N             | 2.1           | 1          | 2.10                  | 1                      | 2.10                  | $\infty$ |
| <b>Phantom and device (DUT or validation antenna) errors</b> |                                                                          |               |               |            |                       |                        |                       |          |
| LIQ( $\sigma$ )                                              | Measurement of phantom conductivity( $\sigma$ )                          | N             | 4.1           | 1          | 4.1                   | $C_\epsilon, C_\sigma$ | 4.10                  | $\infty$ |
| LIQ( $T_c$ )                                                 | Temperature effects (medium)                                             | R             | 2.7           | $\sqrt{3}$ | 1.56                  | $C_\epsilon, C_\sigma$ | 1.56                  | $\infty$ |
| EPS                                                          | Shell permittivity                                                       | R             | 2.1           | $\sqrt{3}$ | 1.21                  | See 8.4.2.3            | 0.30                  | $\infty$ |
| DIS                                                          | Distance between the radiating element of the DUT and the phantom medium | N             | 0.7           | 1          | 0.7                   | 2                      | 1.40                  | $\infty$ |
| D <sub>xyz</sub>                                             | Repeatability of positioning the DUT or source against the phantom       | N             | 1.2           | 1          | 1.2                   | 1                      | 1.20                  | 5        |
| H                                                            | Device holder effects                                                    | N             | 3.8           | 1          | 3.8                   | 1                      | 3.80                  |          |
| MOD                                                          | Effect of operating mode on probe sensitivity                            | R             | 3.42          | $\sqrt{3}$ | 1.97                  | 1                      | 1.97                  | $\infty$ |
| TAS                                                          | Time-average SAR                                                         | R             | 1.8           | $\sqrt{3}$ | 1.04                  | 1                      | 1.04                  | $\infty$ |
| RF <sub>drift</sub>                                          | Variation in SAR due to drift in output of DUT                           | N             | 4.5           | 1          | 4.5                   | 1                      | 4.50                  |          |
| VAL                                                          | Validation antenna uncertainty (validation measurement only)             | N             | 1.4           | 1          | 1.4                   | 1                      | 1.40                  |          |
| P <sub>in</sub>                                              | Uncertainty in accepted power (validation measurement only)              | N             | 2.4           | 1          | 2.4                   | 1                      | 2.40                  |          |
| <b>Corrections to the SAR result (if applied)</b>            |                                                                          |               |               |            |                       |                        |                       |          |
| C( $\epsilon', \sigma$ )                                     | Phantom deviation from target ( $\epsilon', \sigma$ )                    | N             | 3.7           | 1          | 3.7                   | 1                      | 3.70                  |          |
| C(R)                                                         | SAR scaling                                                              | R             | 1.8           | $\sqrt{3}$ | 1.04                  | 1                      | 1.04                  |          |
| u( $\Delta$ SAR)                                             | Combined uncertainty                                                     |               |               |            |                       |                        | 10.84                 |          |
| U                                                            | Expanded uncertainty and effective degrees of freedom                    |               |               |            |                       | U =                    | 21.68                 |          |



## 9. Conducted Power Measurement

### 9.1 Test Result

| Burst Average Power (dBm)                                                                                                                                                                                                                                                             |         |       |       |          |        |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|-------|----------|--------|--------|
| Band                                                                                                                                                                                                                                                                                  | GSM 850 |       |       | PCS 1900 |        |        |
| Channel                                                                                                                                                                                                                                                                               | 128     | 190   | 251   | 512      | 661    | 810    |
| Frequency (MHz)                                                                                                                                                                                                                                                                       | 824.2   | 836.6 | 848.8 | 1850.2   | 1880.0 | 1909.8 |
| GPRS (GMSK, 1-Slot)                                                                                                                                                                                                                                                                   | 32.24   | 32.22 | 32.18 | 29.35    | 29.38  | 29.10  |
| GPRS (GMSK, 2-Slot)                                                                                                                                                                                                                                                                   | 31.80   | 31.75 | 31.74 | 28.86    | 28.93  | 28.62  |
| GPRS (GMSK, 3-Slot)                                                                                                                                                                                                                                                                   | 31.32   | 31.27 | 31.30 | 28.36    | 28.51  | 28.16  |
| GPRS (GMSK, 4-Slot)                                                                                                                                                                                                                                                                   | 30.90   | 30.86 | 30.86 | 27.89    | 28.01  | 27.66  |
| EGPRS(8PSK, 1-Slot)                                                                                                                                                                                                                                                                   | 28.69   | 29.27 | 28.96 | 27.53    | 27.42  | 27.01  |
| EGPRS(8PSK, 2-Slot)                                                                                                                                                                                                                                                                   | 27.89   | 28.55 | 28.20 | 26.74    | 26.67  | 26.24  |
| EGPRS(8PSK, 3-Slot)                                                                                                                                                                                                                                                                   | 27.16   | 27.84 | 27.43 | 26.02    | 25.91  | 25.47  |
| EGPRS(8PSK, 4-Slot)                                                                                                                                                                                                                                                                   | 26.42   | 27.10 | 26.66 | 25.30    | 25.15  | 24.77  |
| Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme.<br>Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link<br>Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link<br>Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link |         |       |       |          |        |        |

| Fram- Average Power(dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |       |       |          |        |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|-------|----------|--------|--------|
| Band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | GSM 850 |       |       | PCS 1900 |        |        |
| Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 128     | 190   | 251   | 512      | 661    | 810    |
| Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 824.2   | 836.6 | 848.8 | 1850.2   | 1880.0 | 1909.8 |
| GPRS (GMSK, 1-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 23.21   | 23.19 | 23.15 | 20.32    | 20.35  | 20.07  |
| GPRS (GMSK, 2-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 25.78   | 25.73 | 25.72 | 22.84    | 22.91  | 22.60  |
| GPRS (GMSK, 3-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 27.06   | 27.01 | 27.04 | 24.10    | 24.25  | 23.90  |
| GPRS (GMSK, 4-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 27.89   | 27.85 | 27.85 | 24.88    | 25.00  | 24.65  |
| EGPRS(8PSK, 1-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19.66   | 20.24 | 19.93 | 18.50    | 18.39  | 17.98  |
| EGPRS(8PSK, 2-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 21.87   | 22.53 | 22.18 | 20.72    | 20.65  | 20.22  |
| EGPRS(8PSK, 3-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 22.90   | 23.58 | 23.17 | 21.76    | 21.65  | 21.21  |
| EGPRS(8PSK, 4-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 23.41   | 24.09 | 23.65 | 22.29    | 22.14  | 21.76  |
| Remark :<br>1. SAR testing was performed on the maximum frame-averaged power mode.<br>2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum<br>Burst - averaged power based on time slots. The calculated method is shown as below:<br>Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB<br>Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB<br>Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB<br>Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB |         |       |       |          |        |        |

**WCDMA**

| Band            | WCDMA Band II |        |        | WCDMA Band V |       |       |
|-----------------|---------------|--------|--------|--------------|-------|-------|
| Channel         | 9262          | 9400   | 9538   | 4132         | 4183  | 4233  |
| Frequency (MHz) | 1852.4        | 1880.0 | 1907.6 | 826.4        | 836.6 | 846.6 |
| RMC 12.2Kbps    | 22.68         | 22.31  | 22.48  | 22.14        | 22.83 | 23.05 |
| HSDPA Subtest-1 | 22.62         | 22.29  | 22.40  | 21.73        | 22.63 | 22.96 |
| HSDPA Subtest-2 | 22.20         | 21.84  | 21.94  | 21.25        | 22.19 | 22.52 |
| HSDPA Subtest-3 | 21.72         | 21.43  | 21.63  | 20.81        | 21.75 | 22.09 |
| HSDPA Subtest-4 | 21.25         | 20.93  | 21.23  | 20.47        | 21.37 | 21.62 |
| HSUPA Subtest-1 | 22.56         | 22.14  | 22.31  | 21.55        | 22.53 | 22.90 |
| HSUPA Subtest-2 | 21.70         | 21.22  | 21.33  | 20.65        | 21.54 | 21.94 |
| HSUPA Subtest-3 | 21.68         | 20.74  | 20.95  | 20.62        | 21.08 | 21.62 |
| HSUPA Subtest-4 | 21.28         | 20.27  | 20.53  | 20.26        | 20.73 | 21.18 |
| HSUPA Subtest-5 | 19.86         | 18.78  | 19.12  | 18.81        | 19.31 | 19.72 |

According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

| UE Transmit Channel Configuration                                                                                                                                                               | CM(db)               | MPR(db)     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|
| For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH                                                                                                                               | $0 \leq CM \leq 3.5$ | MAX(CM-1,0) |
| Note: 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. |                      |             |

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX\_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

**BLE**

| Mode        | Channel Number | Frequency (MHz) | Average Power (dBm) |
|-------------|----------------|-----------------|---------------------|
| GFSK(1Mbps) | 0              | 2402            | -15.50              |
|             | 19             | 2440            | -16.41              |
|             | 39             | 2480            | -17.32              |





## LTE Conducted Power

### General Note:

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, 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.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.



## LTE Band 2

| LTE Band 2 Maximum Average Power [dBm] |         |           |        |              |        |         |
|----------------------------------------|---------|-----------|--------|--------------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest       | Middle | Highest |
| 1.4                                    | 1       | 0         | QPSK   | <b>23.94</b> | 23.20  | 22.59   |
| 1.4                                    | 1       | 2         |        | 23.69        | 22.91  | 22.34   |
| 1.4                                    | 1       | 5         |        | 23.49        | 22.62  | 22.08   |
| 1.4                                    | 3       | 0         |        | 23.28        | 22.38  | 21.84   |
| 1.4                                    | 3       | 1         |        | 23.03        | 22.17  | 21.59   |
| 1.4                                    | 3       | 3         |        | 22.81        | 21.88  | 21.34   |
| 1.4                                    | 6       | 0         |        | 22.56        | 21.60  | 21.09   |
| 1.4                                    | 1       | 0         | 16-QAM | 23.69        | 22.90  | 22.30   |
| 1.4                                    | 1       | 2         |        | 23.48        | 22.69  | 22.04   |
| 1.4                                    | 1       | 5         |        | 23.21        | 22.41  | 21.75   |
| 1.4                                    | 3       | 0         |        | 22.94        | 22.13  | 21.49   |
| 1.4                                    | 3       | 1         |        | 22.64        | 21.84  | 21.25   |
| 1.4                                    | 3       | 3         |        | 22.39        | 21.63  | 21.04   |
| 1.4                                    | 6       | 0         |        | 22.12        | 21.34  | 20.76   |
| 3                                      | 1       | 0         | QPSK   | 23.93        | 23.26  | 23.62   |
| 3                                      | 1       | 7         |        | 23.65        | 23.00  | 23.34   |
| 3                                      | 1       | 14        |        | 23.42        | 22.77  | 23.08   |
| 3                                      | 8       | 0         |        | 23.21        | 22.56  | 22.83   |
| 3                                      | 8       | 3         |        | 22.91        | 22.32  | 22.60   |
| 3                                      | 8       | 7         |        | 22.69        | 22.08  | 22.31   |
| 3                                      | 15      | 0         |        | 22.39        | 21.84  | 22.08   |
| 3                                      | 1       | 0         | 16-QAM | 23.69        | 22.97  | 23.35   |
| 3                                      | 1       | 7         |        | 23.43        | 22.76  | 23.07   |
| 3                                      | 1       | 14        |        | 23.23        | 22.54  | 22.85   |
| 3                                      | 8       | 0         |        | 22.95        | 22.34  | 22.60   |
| 3                                      | 8       | 3         |        | 22.72        | 22.05  | 22.34   |
| 3                                      | 8       | 7         |        | 22.48        | 21.75  | 22.13   |
| 3                                      | 15      | 0         |        | 22.28        | 21.49  | 21.92   |



## LTE BAND 2

| LTE Band 2 Maximum Average Power [dBm] |         |           |        |              |        |         |
|----------------------------------------|---------|-----------|--------|--------------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest       | Middle | Highest |
| 5                                      | 1       | 0         | QPSK   | 23.95        | 23.32  | 23.66   |
| 5                                      | 1       | 12        |        | 23.70        | 23.05  | 23.44   |
| 5                                      | 1       | 24        |        | 23.48        | 22.84  | 23.14   |
| 5                                      | 12      | 0         |        | 23.24        | 22.61  | 22.85   |
| 5                                      | 12      | 6         |        | 23.03        | 22.40  | 22.64   |
| 5                                      | 12      | 13        |        | 22.81        | 22.18  | 22.43   |
| 5                                      | 25      | 0         |        | 22.59        | 21.95  | 22.23   |
| 5                                      | 1       | 0         | 16-QAM | 23.75        | 23.05  | 23.46   |
| 5                                      | 1       | 12        |        | 23.46        | 22.81  | 23.24   |
| 5                                      | 1       | 24        |        | 23.25        | 22.58  | 22.95   |
| 5                                      | 12      | 0         |        | 22.99        | 22.29  | 22.69   |
| 5                                      | 12      | 6         |        | 22.78        | 22.05  | 22.46   |
| 5                                      | 12      | 13        |        | 22.54        | 21.83  | 22.21   |
| 5                                      | 25      | 0         |        | 22.30        | 21.61  | 21.99   |
| 10                                     | 1       | 0         | QPSK   | <b>23.98</b> | 23.45  | 23.75   |
| 10                                     | 1       | 24        |        | 23.76        | 23.24  | 23.52   |
| 10                                     | 1       | 49        |        | 23.49        | 23.00  | 23.23   |
| 10                                     | 25      | 0         |        | 23.21        | 22.79  | 22.97   |
| 10                                     | 25      | 12        |        | 22.96        | 22.57  | 22.69   |
| 10                                     | 25      | 25        |        | 22.74        | 22.28  | 22.42   |
| 10                                     | 50      | 0         |        | 22.47        | 22.00  | 22.19   |
| 10                                     | 1       | 0         | 16-QAM | 23.73        | 23.17  | 23.47   |
| 10                                     | 1       | 24        |        | 23.51        | 22.96  | 23.23   |
| 10                                     | 1       | 49        |        | 23.25        | 22.76  | 22.94   |
| 10                                     | 25      | 0         |        | 23.02        | 22.49  | 22.68   |
| 10                                     | 25      | 12        |        | 22.76        | 22.21  | 22.47   |
| 10                                     | 25      | 25        |        | 22.47        | 21.94  | 22.19   |
| 10                                     | 50      | 0         |        | 22.27        | 21.69  | 21.94   |



## LTE BAND 2

| LTE Band 2 Maximum Average Power [dBm] |         |           |        |              |              |              |
|----------------------------------------|---------|-----------|--------|--------------|--------------|--------------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest       | Middle       | Highest      |
| 15                                     | 1       | 0         | QPSK   | 24.02        | 23.65        | 23.81        |
| 15                                     | 1       | 37        |        | 23.78        | 23.41        | 23.54        |
| 15                                     | 1       | 74        |        | 23.54        | 23.18        | 23.26        |
| 15                                     | 36      | 0         |        | 23.31        | 22.93        | 23.04        |
| 15                                     | 36      | 18        |        | 23.06        | 22.70        | 22.83        |
| 15                                     | 36      | 39        |        | 22.86        | 22.47        | 22.54        |
| 15                                     | 75      | 0         |        | 22.63        | 22.23        | 22.34        |
| 15                                     | 1       | 0         | 16-QAM | 23.76        | 23.40        | 23.54        |
| 15                                     | 1       | 38        |        | 23.52        | 23.14        | 23.27        |
| 15                                     | 1       | 74        |        | 23.23        | 22.92        | 22.98        |
| 15                                     | 36      | 0         |        | 23.02        | 22.69        | 22.70        |
| 15                                     | 36      | 18        |        | 22.75        | 22.40        | 22.48        |
| 15                                     | 36      | 39        |        | 22.51        | 22.12        | 22.25        |
| 15                                     | 75      | 0         |        | 22.24        | 21.89        | 21.98        |
| 20                                     | 1       | 0         | QPSK   | <b>24.23</b> | <b>24.03</b> | <b>24.12</b> |
| 20                                     | 1       | 50        |        | 24.00        | 23.82        | 23.82        |
| 20                                     | 1       | 99        |        | 23.70        | 23.52        | 23.57        |
| 20                                     | 50      | 0         |        | <b>23.41</b> | <b>23.31</b> | <b>23.30</b> |
| 20                                     | 50      | 25        |        | 23.16        | 23.10        | 23.08        |
| 20                                     | 50      | 50        |        | 22.88        | 22.87        | 22.81        |
| 20                                     | 100     | 0         |        | <b>22.60</b> | <b>22.62</b> | <b>22.55</b> |
| 20                                     | 1       | 0         | 16-QAM | 24.03        | 23.74        | 23.86        |
| 20                                     | 1       | 50        |        | 23.82        | 23.45        | 23.65        |
| 20                                     | 1       | 99        |        | 23.58        | 23.24        | 23.43        |
| 20                                     | 50      | 0         |        | 23.35        | 22.97        | 23.14        |
| 20                                     | 50      | 25        |        | 23.10        | 22.74        | 22.92        |
| 20                                     | 50      | 50        |        | 22.87        | 22.49        | 22.64        |
| 20                                     | 100     | 0         |        | 22.62        | 22.24        | 22.38        |



## LTE BAND 4

| LTE Band 4 Maximum Average Power [dBm] |         |           |        |              |        |              |
|----------------------------------------|---------|-----------|--------|--------------|--------|--------------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest       | Middle | Highest      |
| 1.4                                    | 1       | 0         | QPSK   | 23.89        | 23.78  | 23.92        |
| 1.4                                    | 1       | 2         |        | 23.63        | 23.55  | 23.71        |
| 1.4                                    | 1       | 5         |        | 23.43        | 23.33  | 23.46        |
| 1.4                                    | 3       | 0         |        | 23.15        | 23.07  | 23.26        |
| 1.4                                    | 3       | 1         |        | 22.95        | 22.80  | 23.05        |
| 1.4                                    | 3       | 3         |        | 22.67        | 22.60  | 22.80        |
| 1.4                                    | 6       | 0         |        | 22.45        | 22.31  | 22.52        |
| 1.4                                    | 1       | 0         | 16-QAM | 23.65        | 23.54  | 23.67        |
| 1.4                                    | 1       | 2         |        | 23.43        | 23.27  | 23.41        |
| 1.4                                    | 1       | 5         |        | 23.22        | 22.97  | 23.16        |
| 1.4                                    | 3       | 0         |        | 22.94        | 22.72  | 22.88        |
| 1.4                                    | 3       | 1         |        | 22.66        | 22.47  | 22.65        |
| 1.4                                    | 3       | 3         |        | 22.41        | 22.23  | 22.38        |
| 1.4                                    | 6       | 0         |        | 22.16        | 22.03  | 22.09        |
| 3                                      | 1       | 0         | QPSK   | <b>23.95</b> | 23.86  | <b>23.95</b> |
| 3                                      | 1       | 7         |        | 23.70        | 23.61  | 23.72        |
| 3                                      | 1       | 14        |        | 23.41        | 23.37  | 23.52        |
| 3                                      | 8       | 0         |        | 23.14        | 23.14  | 23.28        |
| 3                                      | 8       | 3         |        | 22.87        | 22.93  | 23.07        |
| 3                                      | 8       | 7         |        | 22.64        | 22.67  | 22.87        |
| 3                                      | 15      | 0         |        | 22.35        | 22.43  | 22.64        |
| 3                                      | 1       | 0         | 16-QAM | 23.68        | 23.57  | 23.74        |
| 3                                      | 1       | 7         |        | 23.45        | 23.32  | 23.47        |
| 3                                      | 1       | 14        |        | 23.21        | 23.02  | 23.22        |
| 3                                      | 8       | 0         |        | 22.97        | 22.75  | 22.93        |
| 3                                      | 8       | 4         |        | 22.69        | 22.47  | 22.69        |
| 3                                      | 8       | 7         |        | 22.44        | 22.20  | 22.45        |
| 3                                      | 15      | 0         |        | 22.15        | 21.96  | 22.15        |



## LTE BAND 4

| LTE Band 4 Maximum Average Power [dBm] |         |           |        |              |        |         |
|----------------------------------------|---------|-----------|--------|--------------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest       | Middle | Highest |
| 5                                      | 1       | 0         | QPSK   | 24.02        | 23.96  | 23.99   |
| 5                                      | 1       | 12        |        | 23.74        | 23.67  | 23.70   |
| 5                                      | 1       | 24        |        | 23.52        | 23.44  | 23.46   |
| 5                                      | 12      | 0         |        | 23.30        | 23.20  | 23.20   |
| 5                                      | 12      | 6         |        | 23.07        | 22.97  | 22.93   |
| 5                                      | 12      | 13        |        | 22.79        | 22.75  | 22.72   |
| 5                                      | 25      | 0         |        | 22.55        | 22.47  | 22.49   |
| 5                                      | 1       | 0         | 16-QAM | 23.74        | 23.73  | 23.75   |
| 5                                      | 1       | 12        |        | 23.46        | 23.48  | 23.55   |
| 5                                      | 1       | 24        |        | 23.17        | 23.25  | 23.33   |
| 5                                      | 12      | 0         |        | 22.96        | 22.98  | 23.04   |
| 5                                      | 12      | 6         |        | 22.67        | 22.72  | 22.75   |
| 5                                      | 12      | 13        |        | 22.42        | 22.48  | 22.45   |
| 5                                      | 25      | 0         |        | 22.16        | 22.25  | 22.22   |
| 10                                     | 1       | 0         | QPSK   | <b>24.23</b> | 24.12  | 24.13   |
| 10                                     | 1       | 24        |        | 23.98        | 23.92  | 23.93   |
| 10                                     | 1       | 49        |        | 23.78        | 23.71  | 23.64   |
| 10                                     | 25      | 0         |        | 23.57        | 23.41  | 23.36   |
| 10                                     | 25      | 12        |        | 23.35        | 23.11  | 23.09   |
| 10                                     | 25      | 25        |        | 23.05        | 22.85  | 22.80   |
| 10                                     | 50      | 0         |        | 22.78        | 22.58  | 22.60   |
| 10                                     | 1       | 0         | 16-QAM | 24.03        | 23.83  | 23.93   |
| 10                                     | 1       | 24        |        | 23.81        | 23.58  | 23.63   |
| 10                                     | 1       | 49        |        | 23.53        | 23.36  | 23.37   |
| 10                                     | 25      | 0         |        | 23.25        | 23.15  | 23.10   |
| 10                                     | 25      | 12        |        | 23.00        | 22.91  | 22.80   |
| 10                                     | 25      | 25        |        | 22.80        | 22.65  | 22.51   |
| 10                                     | 50      | 0         |        | 22.51        | 22.41  | 22.28   |



## LTE BAND 4

| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |              |         |
|----------------------------------------|---------|-----------|--------|--------|--------------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle       | Highest |
| 15                                     | 1       | 0         | QPSK   | 24.32  | 24.26        | 24.29   |
| 15                                     | 1       | 37        |        | 24.10  | 24.00        | 24.01   |
| 15                                     | 1       | 74        |        | 23.83  | 23.71        | 23.75   |
| 15                                     | 36      | 0         |        | 23.58  | 23.44        | 23.50   |
| 15                                     | 36      | 19        |        | 23.31  | 23.21        | 23.30   |
| 15                                     | 36      | 39        |        | 23.03  | 23.01        | 23.09   |
| 15                                     | 75      | 0         |        | 22.73  | 22.71        | 22.84   |
| 15                                     | 1       | 0         | 16-QAM | 24.09  | 23.99        | 24.00   |
| 15                                     | 1       | 38        |        | 23.82  | 23.71        | 23.79   |
| 15                                     | 1       | 75        |        | 23.57  | 23.43        | 23.56   |
| 15                                     | 36      | 0         |        | 23.36  | 23.15        | 23.35   |
| 15                                     | 36      | 19        |        | 23.08  | 22.88        | 23.12   |
| 15                                     | 36      | 39        |        | 22.80  | 22.62        | 22.84   |
| 15                                     | 75      | 0         |        | 22.54  | 22.39        | 22.56   |
| 20                                     | 1       | 0         | QPSK   | 24.85  | <b>24.88</b> | 24.76   |
| 20                                     | 1       | 50        |        | 24.62  | 24.59        | 24.49   |
| 20                                     | 1       | 99        |        | 24.39  | 24.39        | 24.21   |
| 20                                     | 50      | 0         |        | 24.09  | <b>24.11</b> | 23.93   |
| 20                                     | 50      | 25        |        | 23.82  | 23.87        | 23.72   |
| 20                                     | 50      | 50        |        | 23.57  | 23.59        | 23.42   |
| 20                                     | 100     | 0         |        | 23.29  | 23.38        | 23.12   |
| 20                                     | 1       | 0         | 16-QAM | 24.63  | 24.62        | 24.53   |
| 20                                     | 1       | 50        |        | 24.37  | 24.34        | 24.24   |
| 20                                     | 1       | 99        |        | 24.15  | 24.10        | 23.97   |
| 20                                     | 50      | 0         |        | 23.89  | 23.83        | 23.73   |
| 20                                     | 50      | 25        |        | 23.60  | 23.63        | 23.50   |
| 20                                     | 50      | 50        |        | 23.36  | 23.37        | 23.20   |
| 20                                     | 100     | 0         |        | 23.09  | 23.14        | 22.92   |



## LTE BAND 5

| LTE Band 5 Maximum Average Power [dBm] |         |           |        |              |        |         |
|----------------------------------------|---------|-----------|--------|--------------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest       | Middle | Highest |
| 1.4                                    | 1       | 0         | QPSK   | 23.89        | 23.78  | 23.88   |
| 1.4                                    | 1       | 2         |        | 23.65        | 23.57  | 23.61   |
| 1.4                                    | 1       | 5         |        | 23.41        | 23.33  | 23.35   |
| 1.4                                    | 3       | 0         |        | 23.20        | 23.08  | 23.06   |
| 1.4                                    | 3       | 1         |        | 22.97        | 22.79  | 22.79   |
| 1.4                                    | 3       | 2         |        | 22.76        | 22.51  | 22.59   |
| 1.4                                    | 6       | 0         |        | 22.48        | 22.28  | 22.33   |
| 1.4                                    | 1       | 0         | 16-QAM | 23.66        | 23.58  | 23.61   |
| 1.4                                    | 1       | 2         |        | 23.41        | 23.34  | 23.34   |
| 1.4                                    | 1       | 5         |        | 23.21        | 23.10  | 23.13   |
| 1.4                                    | 3       | 0         |        | 22.98        | 22.80  | 22.84   |
| 1.4                                    | 3       | 1         |        | 22.72        | 22.53  | 22.58   |
| 1.4                                    | 3       | 2         |        | 22.45        | 22.26  | 22.36   |
| 1.4                                    | 6       | 0         |        | 22.17        | 22.03  | 22.13   |
| 3                                      | 1       | 0         | QPSK   | <b>23.98</b> | 23.86  | 23.95   |
| 3                                      | 1       | 7         |        | 23.74        | 23.63  | 23.74   |
| 3                                      | 1       | 14        |        | 23.51        | 23.34  | 23.49   |
| 3                                      | 8       | 0         |        | 23.29        | 23.13  | 23.20   |
| 3                                      | 8       | 4         |        | 23.00        | 22.89  | 22.98   |
| 3                                      | 8       | 7         |        | 22.77        | 22.61  | 22.75   |
| 3                                      | 15      | 0         |        | 22.49        | 22.36  | 22.46   |
| 3                                      | 1       | 0         | 16-QAM | 23.72        | 23.58  | 23.67   |
| 3                                      | 1       | 7         |        | 23.51        | 23.36  | 23.38   |
| 3                                      | 1       | 14        |        | 23.26        | 23.07  | 23.10   |
| 3                                      | 8       | 0         |        | 23.05        | 22.83  | 22.88   |
| 3                                      | 8       | 4         |        | 22.77        | 22.53  | 22.67   |
| 3                                      | 8       | 7         |        | 22.53        | 22.27  | 22.39   |
| 3                                      | 15      | 0         |        | 22.32        | 21.99  | 22.17   |



## LTE BAND 5

| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |              |
|----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 5                                      | 1       | 0         | QPSK   | 24.12  | 24.06  | 24.23        |
| 5                                      | 1       | 12        |        | 23.88  | 23.84  | 23.99        |
| 5                                      | 1       | 24        |        | 23.63  | 23.64  | 23.69        |
| 5                                      | 12      | 0         |        | 23.35  | 23.42  | 23.49        |
| 5                                      | 12      | 6         |        | 23.12  | 23.15  | 23.21        |
| 5                                      | 12      | 11        |        | 22.92  | 22.85  | 22.91        |
| 5                                      | 25      | 0         |        | 22.69  | 22.56  | 22.67        |
| 5                                      | 1       | 0         | 16-QAM | 23.85  | 23.82  | 23.95        |
| 5                                      | 1       | 12        |        | 23.59  | 23.58  | 23.68        |
| 5                                      | 1       | 24        |        | 23.34  | 23.33  | 23.39        |
| 5                                      | 12      | 0         |        | 23.06  | 23.03  | 23.09        |
| 5                                      | 12      | 6         |        | 22.83  | 22.82  | 22.80        |
| 5                                      | 12      | 11        |        | 22.63  | 22.58  | 22.52        |
| 5                                      | 25      | 0         |        | 22.34  | 22.29  | 22.22        |
| 10                                     | 1       | 0         | QPSK   | 24.56  | 24.62  | <b>24.68</b> |
| 10                                     | 1       | 24        |        | 24.27  | 24.37  | 24.40        |
| 10                                     | 1       | 49        |        | 24.01  | 24.08  | 24.17        |
| 10                                     | 25      | 0         |        | 23.80  | 23.81  | <b>23.90</b> |
| 10                                     | 25      | 12        |        | 23.51  | 23.54  | 23.69        |
| 10                                     | 25      | 24        |        | 23.29  | 23.32  | 23.39        |
| 10                                     | 50      | 0         |        | 23.00  | 23.10  | 23.16        |
| 10                                     | 1       | 0         | 16-QAM | 24.27  | 24.36  | 24.38        |
| 10                                     | 1       | 24        |        | 24.03  | 24.16  | 24.14        |
| 10                                     | 1       | 49        |        | 23.74  | 23.93  | 23.90        |
| 10                                     | 25      | 0         |        | 23.49  | 23.69  | 23.66        |
| 10                                     | 25      | 12        |        | 23.26  | 23.45  | 23.44        |
| 10                                     | 25      | 24        |        | 23.02  | 23.25  | 23.17        |
| 10                                     | 50      | 0         |        | 22.81  | 22.99  | 22.95        |



## LTE BAND 7

| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |              |
|----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 5                                      | 1       | 0         | QPSK   | 22.56  | 22.62  | 22.68        |
| 5                                      | 1       | 12        |        | 22.36  | 22.36  | 22.38        |
| 5                                      | 1       | 24        |        | 22.11  | 22.10  | 22.18        |
| 5                                      | 12      | 0         |        | 21.83  | 21.86  | 21.92        |
| 5                                      | 12      | 6         |        | 21.58  | 21.61  | 21.71        |
| 5                                      | 12      | 11        |        | 21.33  | 21.34  | 21.49        |
| 5                                      | 25      | 0         |        | 21.07  | 21.09  | 21.26        |
| 5                                      | 1       | 0         | 16-QAM | 22.31  | 22.40  | 22.45        |
| 5                                      | 1       | 12        |        | 22.05  | 22.17  | 22.20        |
| 5                                      | 1       | 24        |        | 21.81  | 21.94  | 21.91        |
| 5                                      | 12      | 0         |        | 21.58  | 21.66  | 21.67        |
| 5                                      | 12      | 6         |        | 21.35  | 21.46  | 21.46        |
| 5                                      | 12      | 11        |        | 21.13  | 21.20  | 21.21        |
| 5                                      | 25      | 0         |        | 20.91  | 20.96  | 21.01        |
| 10                                     | 1       | 0         | QPSK   | 22.75  | 22.78  | <b>22.86</b> |
| 10                                     | 1       | 24        |        | 22.47  | 22.52  | 22.65        |
| 10                                     | 1       | 49        |        | 22.21  | 22.23  | 22.36        |
| 10                                     | 25      | 0         |        | 22.00  | 21.94  | 22.10        |
| 10                                     | 25      | 12        |        | 21.73  | 21.71  | 21.90        |
| 10                                     | 25      | 24        |        | 21.43  | 21.42  | 21.64        |
| 10                                     | 50      | 0         |        | 21.17  | 21.13  | 21.37        |
| 10                                     | 1       | 0         | 16-QAM | 22.50  | 22.53  | 22.63        |
| 10                                     | 1       | 24        |        | 22.21  | 22.32  | 22.41        |
| 10                                     | 1       | 49        |        | 21.96  | 22.10  | 22.15        |
| 10                                     | 25      | 0         |        | 21.74  | 21.82  | 21.94        |
| 10                                     | 25      | 12        |        | 21.51  | 21.59  | 21.65        |
| 10                                     | 25      | 24        |        | 21.27  | 21.35  | 21.37        |
| 10                                     | 50      | 0         |        | 21.01  | 21.05  | 21.14        |



## LTE BAND 7

| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |              |              |
|----------------------------------------|---------|-----------|--------|--------|--------------|--------------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle       | Highest      |
| 15                                     | 1       | 0         | QPSK   | 23.12  | 23.23        | 23.18        |
| 15                                     | 1       | 37        |        | 22.87  | 23.02        | 22.95        |
| 15                                     | 1       | 74        |        | 22.62  | 22.76        | 22.69        |
| 15                                     | 36      | 0         |        | 22.33  | 22.51        | 22.47        |
| 15                                     | 36      | 19        |        | 22.08  | 22.21        | 22.18        |
| 15                                     | 36      | 39        |        | 21.85  | 21.95        | 21.92        |
| 15                                     | 75      | 0         |        | 21.59  | 21.66        | 21.63        |
| 15                                     | 1       | 0         | 16-QAM | 22.87  | 22.96        | 22.93        |
| 15                                     | 1       | 38        |        | 22.61  | 22.68        | 22.66        |
| 15                                     | 1       | 75        |        | 22.31  | 22.45        | 22.44        |
| 15                                     | 36      | 0         |        | 22.06  | 22.17        | 22.17        |
| 15                                     | 36      | 19        |        | 21.80  | 21.92        | 21.94        |
| 15                                     | 36      | 39        |        | 21.57  | 21.70        | 21.74        |
| 15                                     | 75      | 0         |        | 21.28  | 21.46        | 21.54        |
| 20                                     | 1       | 0         | QPSK   | 23.89  | <b>23.95</b> | 23.94        |
| 20                                     | 1       | 50        |        | 23.67  | 23.65        | 23.67        |
| 20                                     | 1       | 99        |        | 23.46  | 23.36        | 23.47        |
| 20                                     | 50      | 0         |        | 23.20  | 23.10        | <b>23.23</b> |
| 20                                     | 50      | 25        |        | 22.91  | 22.81        | 22.96        |
| 20                                     | 50      | 50        |        | 22.64  | 22.56        | 22.75        |
| 20                                     | 100     | 0         |        | 22.36  | 22.30        | 22.50        |
| 20                                     | 1       | 0         | 16-QAM | 23.60  | 23.70        | 23.68        |
| 20                                     | 1       | 50        |        | 23.36  | 23.44        | 23.43        |
| 20                                     | 1       | 99        |        | 23.12  | 23.18        | 23.22        |
| 20                                     | 50      | 0         |        | 22.85  | 22.95        | 22.97        |
| 20                                     | 50      | 25        |        | 22.88  | 22.75        | 22.88        |
| 20                                     | 50      | 50        |        | 22.59  | 22.51        | 22.61        |
| 20                                     | 100     | 0         |        | 22.25  | 22.22        | 22.42        |



## LTE BAND 12

| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |              |
|-----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 1.4                                     | 1       | 0         | QPSK   | 24.89  | 24.62  | 24.88        |
| 1.4                                     | 1       | 2         |        | 24.60  | 24.35  | 24.66        |
| 1.4                                     | 1       | 5         |        | 24.33  | 24.12  | 24.36        |
| 1.4                                     | 3       | 0         |        | 24.08  | 23.88  | 24.09        |
| 1.4                                     | 3       | 1         |        | 23.81  | 23.59  | 23.81        |
| 1.4                                     | 3       | 2         |        | 23.54  | 23.33  | 23.51        |
| 1.4                                     | 6       | 0         |        | 23.31  | 23.13  | 23.22        |
| 1.4                                     | 1       | 0         | 16-QAM | 24.68  | 24.33  | 24.60        |
| 1.4                                     | 1       | 2         |        | 24.42  | 24.03  | 24.39        |
| 1.4                                     | 1       | 5         |        | 24.16  | 23.74  | 24.17        |
| 1.4                                     | 3       | 0         |        | 23.88  | 23.48  | 23.96        |
| 1.4                                     | 3       | 1         |        | 23.64  | 23.24  | 23.71        |
| 1.4                                     | 3       | 2         |        | 23.35  | 23.00  | 23.43        |
| 1.4                                     | 6       | 0         |        | 23.09  | 22.78  | 23.18        |
| 3                                       | 1       | 0         | QPSK   | 24.92  | 24.85  | <b>24.96</b> |
| 3                                       | 1       | 7         |        | 24.70  | 24.56  | 24.73        |
| 3                                       | 1       | 14        |        | 24.44  | 24.31  | 24.47        |
| 3                                       | 8       | 0         |        | 24.16  | 24.07  | 24.19        |
| 3                                       | 8       | 4         |        | 23.86  | 23.78  | 23.97        |
| 3                                       | 8       | 7         |        | 23.61  | 23.55  | 23.72        |
| 3                                       | 15      | 0         |        | 23.32  | 23.27  | 23.44        |
| 3                                       | 1       | 0         | 16-QAM | 24.64  | 24.56  | 24.72        |
| 3                                       | 1       | 7         |        | 24.37  | 24.35  | 24.43        |
| 3                                       | 1       | 14        |        | 24.17  | 24.12  | 24.23        |
| 3                                       | 8       | 0         |        | 23.90  | 23.84  | 23.98        |
| 3                                       | 8       | 4         |        | 23.67  | 23.56  | 23.72        |
| 3                                       | 8       | 7         |        | 23.43  | 23.31  | 23.45        |
| 3                                       | 15      | 0         |        | 23.17  | 23.01  | 23.20        |



## LTE BAND 12

| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |              |         |
|-----------------------------------------|---------|-----------|--------|--------|--------------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle       | Highest |
| 5                                       | 1       | 0         | QPSK   | 24.93  | 24.92        | 24.96   |
| 5                                       | 1       | 12        |        | 24.66  | 24.63        | 24.69   |
| 5                                       | 1       | 24        |        | 24.42  | 24.37        | 24.46   |
| 5                                       | 12      | 0         |        | 24.13  | 24.13        | 24.20   |
| 5                                       | 12      | 6         |        | 23.90  | 23.85        | 23.96   |
| 5                                       | 12      | 11        |        | 23.67  | 23.55        | 23.76   |
| 5                                       | 25      | 0         |        | 23.41  | 23.34        | 23.55   |
| 5                                       | 1       | 0         | 16-QAM | 24.72  | 24.72        | 24.73   |
| 5                                       | 1       | 12        |        | 24.50  | 24.44        | 24.52   |
| 5                                       | 1       | 24        |        | 24.27  | 24.18        | 24.27   |
| 5                                       | 12      | 0         |        | 23.99  | 23.97        | 24.00   |
| 5                                       | 12      | 6         |        | 23.69  | 23.77        | 23.76   |
| 5                                       | 12      | 11        |        | 23.47  | 23.50        | 23.50   |
| 5                                       | 25      | 0         |        | 23.19  | 23.21        | 23.28   |
| 10                                      | 1       | 0         | QPSK   | 25.02  | <b>25.12</b> | 25.06   |
| 10                                      | 1       | 24        |        | 24.79  | 24.92        | 24.84   |
| 10                                      | 1       | 49        |        | 24.55  | 24.71        | 24.55   |
| 10                                      | 25      | 0         |        | 24.27  | <b>24.48</b> | 24.29   |
| 10                                      | 25      | 12        |        | 23.98  | 24.21        | 24.01   |
| 10                                      | 25      | 24        |        | 23.70  | 24.00        | 23.78   |
| 10                                      | 50      | 0         |        | 23.44  | 23.70        | 23.52   |
| 10                                      | 1       | 0         | 16-QAM | 24.72  | 24.89        | 24.82   |
| 10                                      | 1       | 24        |        | 24.52  | 24.67        | 24.57   |
| 10                                      | 1       | 49        |        | 24.32  | 24.44        | 24.34   |
| 10                                      | 25      | 0         |        | 24.09  | 24.16        | 24.05   |
| 10                                      | 25      | 12        |        | 23.83  | 23.92        | 23.79   |
| 10                                      | 25      | 24        |        | 23.53  | 23.71        | 23.59   |
| 10                                      | 50      | 0         |        | 23.33  | 23.49        | 23.30   |



## LTE BAND 17

| LTE Band 17 Maximum Average Power [dBm] |         |           |        |        |        |              |
|-----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 5                                       | 1       | 0         | QPSK   | 23.56  | 23.62  | 23.68        |
| 5                                       | 1       | 12        |        | 23.34  | 23.40  | 23.40        |
| 5                                       | 1       | 24        |        | 23.06  | 23.14  | 23.17        |
| 5                                       | 12      | 0         |        | 22.79  | 22.89  | 22.93        |
| 5                                       | 12      | 6         |        | 22.57  | 22.65  | 22.66        |
| 5                                       | 12      | 11        |        | 22.35  | 22.36  | 22.37        |
| 5                                       | 25      | 0         |        | 22.14  | 22.13  | 22.07        |
| 5                                       | 1       | 0         | 16-QAM | 23.28  | 23.33  | 23.44        |
| 5                                       | 1       | 12        |        | 23.01  | 23.05  | 23.24        |
| 5                                       | 1       | 24        |        | 22.74  | 22.83  | 23.02        |
| 5                                       | 12      | 0         |        | 22.46  | 22.53  | 22.78        |
| 5                                       | 12      | 6         |        | 22.23  | 22.30  | 22.53        |
| 5                                       | 12      | 11        |        | 21.99  | 22.08  | 22.23        |
| 5                                       | 25      | 0         |        | 21.72  | 21.85  | 21.98        |
| 10                                      | 1       | 0         | QPSK   | 24.03  | 24.12  | <b>24.23</b> |
| 10                                      | 1       | 24        |        | 23.77  | 23.89  | 23.95        |
| 10                                      | 1       | 49        |        | 23.56  | 23.64  | 23.65        |
| 10                                      | 25      | 0         |        | 23.35  | 23.41  | 23.36        |
| 10                                      | 25      | 12        |        | 23.05  | 23.19  | 23.08        |
| 10                                      | 25      | 24        |        | 22.82  | 22.98  | 22.87        |
| 10                                      | 50      | 0         |        | 22.57  | 22.69  | 22.57        |
| 10                                      | 1       | 0         | 16-QAM | 23.80  | 23.89  | 24.03        |
| 10                                      | 1       | 24        |        | 23.54  | 23.60  | 23.75        |
| 10                                      | 1       | 49        |        | 23.26  | 23.33  | 23.49        |
| 10                                      | 25      | 0         |        | 22.99  | 23.04  | 23.28        |
| 10                                      | 25      | 12        |        | 22.73  | 22.76  | 23.04        |
| 10                                      | 25      | 24        |        | 22.44  | 22.50  | 22.81        |
| 10                                      | 50      | 0         |        | 22.16  | 22.26  | 22.53        |



## LTE BAND 25

| LTE Band 25 Maximum Average Power [dBm] |         |           |        |        |        |              |
|-----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 1.4                                     | 1       | 0         | QPSK   | 23.32  | 23.45  | 23.56        |
| 1.4                                     | 1       | 2         |        | 23.10  | 23.21  | 23.36        |
| 1.4                                     | 1       | 5         |        | 22.82  | 22.92  | 23.06        |
| 1.4                                     | 3       | 0         |        | 22.58  | 22.67  | 22.84        |
| 1.4                                     | 3       | 1         |        | 22.37  | 22.40  | 22.58        |
| 1.4                                     | 3       | 2         |        | 22.09  | 22.19  | 22.32        |
| 1.4                                     | 6       | 0         |        | 21.85  | 21.91  | 22.07        |
| 1.4                                     | 1       | 0         | 16-QAM | 23.05  | 23.19  | 23.34        |
| 1.4                                     | 1       | 2         |        | 22.83  | 22.90  | 23.05        |
| 1.4                                     | 1       | 5         |        | 22.62  | 22.64  | 22.78        |
| 1.4                                     | 3       | 0         |        | 22.39  | 22.36  | 22.51        |
| 1.4                                     | 3       | 1         |        | 22.17  | 22.09  | 22.23        |
| 1.4                                     | 3       | 2         |        | 21.89  | 21.87  | 21.99        |
| 1.4                                     | 6       | 0         |        | 21.59  | 21.59  | 21.73        |
| 3                                       | 1       | 0         | QPSK   | 23.56  | 23.62  | <b>23.68</b> |
| 3                                       | 1       | 7         |        | 23.28  | 23.33  | 23.39        |
| 3                                       | 1       | 14        |        | 22.99  | 23.09  | 23.17        |
| 3                                       | 8       | 0         |        | 22.78  | 22.88  | 22.90        |
| 3                                       | 8       | 4         |        | 22.58  | 22.59  | 22.64        |
| 3                                       | 8       | 7         |        | 22.33  | 22.31  | 22.36        |
| 3                                       | 15      | 0         |        | 22.11  | 22.07  | 22.10        |
| 3                                       | 1       | 0         | 16-QAM | 23.30  | 23.39  | 23.47        |
| 3                                       | 1       | 7         |        | 23.05  | 23.15  | 23.19        |
| 3                                       | 1       | 14        |        | 22.80  | 22.92  | 22.97        |
| 3                                       | 8       | 0         |        | 22.58  | 22.66  | 22.68        |
| 3                                       | 8       | 4         |        | 22.37  | 22.42  | 22.41        |
| 3                                       | 8       | 7         |        | 22.09  | 22.22  | 22.20        |
| 3                                       | 15      | 0         |        | 21.86  | 22.01  | 21.96        |



| LTE Band 25 Maximum Average Power [dBm] |         |           |        |        |        |              |
|-----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 5                                       | 1       | 0         | QPSK   | 23.85  | 23.89  | 23.92        |
| 5                                       | 1       | 12        |        | 23.58  | 23.64  | 23.64        |
| 5                                       | 1       | 24        |        | 23.33  | 23.37  | 23.41        |
| 5                                       | 12      | 0         |        | 23.12  | 23.12  | 23.12        |
| 5                                       | 12      | 6         |        | 22.83  | 22.90  | 22.85        |
| 5                                       | 12      | 11        |        | 22.55  | 22.61  | 22.59        |
| 5                                       | 25      | 0         |        | 22.33  | 22.39  | 22.37        |
| 5                                       | 1       | 0         | 16-QAM | 23.57  | 23.62  | 23.63        |
| 5                                       | 1       | 12        |        | 23.33  | 23.40  | 23.34        |
| 5                                       | 1       | 24        |        | 23.09  | 23.10  | 23.12        |
| 5                                       | 12      | 0         |        | 22.88  | 22.85  | 22.85        |
| 5                                       | 12      | 6         |        | 22.65  | 22.58  | 22.64        |
| 5                                       | 12      | 11        |        | 22.45  | 22.36  | 22.37        |
| 5                                       | 25      | 0         |        | 22.17  | 22.14  | 22.10        |
| 10                                      | 1       | 0         | QPSK   | 23.95  | 23.96  | <b>23.99</b> |
| 10                                      | 1       | 24        |        | 23.72  | 23.68  | 23.76        |
| 10                                      | 1       | 49        |        | 23.51  | 23.39  | 23.48        |
| 10                                      | 25      | 0         |        | 23.27  | 23.10  | 23.25        |
| 10                                      | 25      | 12        |        | 23.03  | 22.84  | 22.97        |
| 10                                      | 25      | 24        |        | 22.75  | 22.59  | 22.73        |
| 10                                      | 50      | 0         |        | 22.46  | 22.36  | 22.53        |
| 10                                      | 1       | 0         | 16-QAM | 23.69  | 23.72  | 23.70        |
| 10                                      | 1       | 24        |        | 23.45  | 23.43  | 23.46        |
| 10                                      | 1       | 49        |        | 23.19  | 23.15  | 23.16        |
| 10                                      | 25      | 0         |        | 22.90  | 22.89  | 22.90        |
| 10                                      | 25      | 12        |        | 22.69  | 22.61  | 22.66        |
| 10                                      | 25      | 24        |        | 22.42  | 22.35  | 22.46        |
| 10                                      | 50      | 0         |        | 22.16  | 22.13  | 22.22        |



| LTE Band 25 Maximum Average Power [dBm] |         |           |        |        |        |              |
|-----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 15                                      | 1       | 0         | QPSK   | 24.13  | 24.23  | 24.32        |
| 15                                      | 1       | 37        |        | 23.90  | 23.94  | 24.04        |
| 15                                      | 1       | 74        |        | 23.69  | 23.69  | 23.77        |
| 15                                      | 36      | 0         |        | 23.48  | 23.43  | 23.48        |
| 15                                      | 36      | 18        |        | 23.21  | 23.22  | 23.18        |
| 15                                      | 36      | 39        |        | 22.98  | 22.94  | 22.93        |
| 15                                      | 75      | 0         |        | 22.71  | 22.74  | 22.72        |
| 15                                      | 1       | 0         | 16-QAM | 23.87  | 23.99  | 24.09        |
| 15                                      | 1       | 38        |        | 23.58  | 23.72  | 23.88        |
| 15                                      | 1       | 75        |        | 23.30  | 23.49  | 23.68        |
| 15                                      | 36      | 0         |        | 23.09  | 23.26  | 23.48        |
| 15                                      | 36      | 18        |        | 22.80  | 22.96  | 23.22        |
| 15                                      | 36      | 39        |        | 22.54  | 22.73  | 22.97        |
| 15                                      | 75      | 0         |        | 22.30  | 22.51  | 22.76        |
| 20                                      | 1       | 0         | QPSK   | 24.56  | 24.62  | <b>24.66</b> |
| 20                                      | 1       | 49        |        | 24.35  | 24.34  | 24.36        |
| 20                                      | 1       | 99        |        | 24.08  | 24.07  | 24.14        |
| 20                                      | 50      | 0         |        | 23.85  | 23.78  | 23.91        |
| 20                                      | 50      | 24        |        | 23.58  | 23.49  | 23.68        |
| 20                                      | 50      | 49        |        | 23.29  | 23.21  | 23.40        |
| 20                                      | 100     | 0         |        | 23.06  | 22.94  | 23.15        |
| 20                                      | 1       | 0         | 16-QAM | 24.33  | 24.35  | 24.44        |
| 20                                      | 1       | 49        |        | 24.07  | 24.06  | 24.20        |
| 20                                      | 1       | 99        |        | 23.82  | 23.81  | 23.95        |
| 20                                      | 50      | 0         |        | 23.57  | 23.57  | 23.74        |
| 20                                      | 50      | 24        |        | 23.32  | 23.32  | 23.46        |
| 20                                      | 50      | 49        |        | 23.07  | 23.09  | 23.17        |
| 20                                      | 100     | 0         |        | 22.83  | 22.81  | 22.88        |



## LTE BAND 26 Part22

| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |              |
|-----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 1.4                                     | 1       | 0         | QPSK   | 24.85  | 24.89  | <b>24.92</b> |
| 1.4                                     | 1       | 2         |        | 24.65  | 24.66  | 24.70        |
| 1.4                                     | 1       | 5         |        | 24.42  | 24.41  | 24.49        |
| 1.4                                     | 3       | 0         |        | 24.15  | 24.21  | 24.26        |
| 1.4                                     | 3       | 1         |        | 23.85  | 23.98  | 24.04        |
| 1.4                                     | 3       | 2         |        | 23.63  | 23.72  | 23.79        |
| 1.4                                     | 6       | 0         |        | 23.40  | 23.51  | 23.53        |
| 1.4                                     | 1       | 0         | 16-QAM | 24.58  | 24.63  | 24.64        |
| 1.4                                     | 1       | 2         |        | 24.32  | 24.40  | 24.37        |
| 1.4                                     | 1       | 5         |        | 24.05  | 24.17  | 24.16        |
| 1.4                                     | 3       | 0         |        | 23.76  | 23.93  | 23.94        |
| 1.4                                     | 3       | 1         |        | 23.50  | 23.67  | 23.65        |
| 1.4                                     | 3       | 2         |        | 23.29  | 23.43  | 23.37        |
| 1.4                                     | 6       | 0         |        | 23.06  | 23.18  | 23.13        |
| 3                                       | 1       | 0         | QPSK   | 24.86  | 24.92  | <b>24.96</b> |
| 3                                       | 1       | 7         |        | 24.57  | 24.62  | 24.69        |
| 3                                       | 1       | 14        |        | 24.27  | 24.34  | 24.40        |
| 3                                       | 8       | 0         |        | 24.06  | 24.13  | 24.13        |
| 3                                       | 8       | 4         |        | 23.80  | 23.86  | 23.83        |
| 3                                       | 8       | 7         |        | 23.60  | 23.62  | 23.59        |
| 3                                       | 15      | 0         |        | 23.32  | 23.40  | 23.38        |
| 3                                       | 1       | 0         | 16-QAM | 24.66  | 24.66  | 24.72        |
| 3                                       | 1       | 7         |        | 24.43  | 24.44  | 24.49        |
| 3                                       | 1       | 14        |        | 24.22  | 24.22  | 24.28        |
| 3                                       | 8       | 0         |        | 24.01  | 23.93  | 24.06        |
| 3                                       | 8       | 4         |        | 23.76  | 23.68  | 23.83        |
| 3                                       | 8       | 7         |        | 23.47  | 23.43  | 23.62        |
| 3                                       | 15      | 0         |        | 23.26  | 23.20  | 23.38        |



## LTE BAND 26 Part22

| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |              |
|-----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 5                                       | 1       | 0         | QPSK   | 24.93  | 24.96  | <b>24.99</b> |
| 5                                       | 1       | 12        |        | 24.72  | 24.72  | 24.76        |
| 5                                       | 1       | 24        |        | 24.43  | 24.48  | 24.53        |
| 5                                       | 12      | 0         |        | 24.16  | 24.19  | 24.30        |
| 5                                       | 12      | 6         |        | 23.91  | 23.91  | 24.04        |
| 5                                       | 12      | 11        |        | 23.62  | 23.69  | 23.81        |
| 5                                       | 25      | 0         |        | 23.39  | 23.40  | 23.56        |
| 5                                       | 1       | 0         | 16-QAM | 24.69  | 24.73  | 24.76        |
| 5                                       | 1       | 12        |        | 24.47  | 24.49  | 24.50        |
| 5                                       | 1       | 24        |        | 24.26  | 24.25  | 24.25        |
| 5                                       | 12      | 0         |        | 23.96  | 24.00  | 24.03        |
| 5                                       | 12      | 6         |        | 23.67  | 23.74  | 23.75        |
| 5                                       | 12      | 11        |        | 23.41  | 23.45  | 23.49        |
| 5                                       | 25      | 0         |        | 23.16  | 23.17  | 23.27        |
| 10                                      | 1       | 0         | QPSK   | 24.99  | 25.01  | <b>25.03</b> |
| 10                                      | 1       | 24        |        | 24.77  | 24.71  | 24.74        |
| 10                                      | 1       | 49        |        | 24.48  | 24.47  | 24.52        |
| 10                                      | 25      | 0         |        | 24.23  | 24.22  | 24.23        |
| 10                                      | 25      | 12        |        | 24.01  | 24.00  | 24.00        |
| 10                                      | 25      | 24        |        | 23.80  | 23.80  | 23.79        |
| 10                                      | 50      | 0         |        | 23.59  | 23.54  | 23.59        |
| 10                                      | 1       | 0         | 16-QAM | 24.70  | 24.77  | 24.73        |
| 10                                      | 1       | 24        |        | 24.41  | 24.54  | 24.53        |
| 10                                      | 1       | 49        |        | 24.19  | 24.30  | 24.28        |
| 10                                      | 25      | 0         |        | 23.99  | 24.03  | 24.02        |
| 10                                      | 25      | 12        |        | 23.71  | 23.80  | 23.75        |
| 10                                      | 25      | 24        |        | 23.47  | 23.54  | 23.53        |
| 10                                      | 50      | 0         |        | 23.17  | 23.29  | 23.24        |



## LTE BAND 26 Part22

| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |              |
|-----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 15                                      | 1       | 0         | QPSK   | 25.12  | 25.19  | <b>25.23</b> |
| 15                                      | 1       | 37        |        | 24.83  | 24.90  | 24.94        |
| 15                                      | 1       | 74        |        | 24.58  | 24.67  | 24.70        |
| 15                                      | 36      | 0         |        | 24.29  | 24.42  | 24.44        |
| 15                                      | 36      | 18        |        | 24.03  | 24.16  | 24.23        |
| 15                                      | 36      | 39        |        | 23.73  | 23.95  | 23.95        |
| 15                                      | 75      | 0         |        | 23.52  | 23.70  | 23.70        |
| 15                                      | 1       | 0         | 16-QAM | 24.91  | 24.92  | 24.95        |
| 15                                      | 1       | 38        |        | 24.65  | 24.70  | 24.68        |
| 15                                      | 1       | 75        |        | 24.39  | 24.49  | 24.47        |
| 15                                      | 36      | 0         |        | 24.16  | 24.24  | 24.17        |
| 15                                      | 36      | 18        |        | 23.88  | 24.04  | 23.93        |
| 15                                      | 36      | 39        |        | 23.67  | 23.75  | 23.68        |
| 15                                      | 75      | 0         |        | 23.44  | 23.45  | 23.45        |



## LTE BAND 26 Part90

| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |              |
|-----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 1.4                                     | 1       | 0         | QPSK   | 24.35  | 24.89  | <b>24.93</b> |
| 1.4                                     | 1       | 2         |        | 24.06  | 24.61  | 24.65        |
| 1.4                                     | 1       | 5         |        | 23.78  | 24.38  | 24.40        |
| 1.4                                     | 3       | 0         |        | 23.49  | 24.14  | 24.11        |
| 1.4                                     | 3       | 1         |        | 23.27  | 23.92  | 23.82        |
| 1.4                                     | 3       | 2         |        | 23.02  | 23.63  | 23.59        |
| 1.4                                     | 6       | 0         |        | 22.74  | 23.40  | 23.35        |
| 1.4                                     | 1       | 0         | 16-QAM | 24.08  | 24.66  | 24.71        |
| 1.4                                     | 1       | 2         |        | 23.78  | 24.42  | 24.49        |
| 1.4                                     | 1       | 5         |        | 23.51  | 24.21  | 24.21        |
| 1.4                                     | 3       | 0         |        | 23.23  | 23.98  | 23.91        |
| 1.4                                     | 3       | 1         |        | 22.98  | 23.75  | 23.66        |
| 1.4                                     | 3       | 2         |        | 22.74  | 23.49  | 23.43        |
| 1.4                                     | 6       | 0         |        | 22.54  | 23.28  | 23.22        |
| 3                                       | 1       | 0         | QPSK   | 24.55  | 24.93  | <b>24.98</b> |
| 3                                       | 1       | 7         |        | 24.32  | 24.72  | 24.74        |
| 3                                       | 1       | 14        |        | 24.07  | 24.44  | 24.45        |
| 3                                       | 8       | 0         |        | 23.81  | 24.18  | 24.23        |
| 3                                       | 8       | 4         |        | 23.57  | 23.94  | 23.96        |
| 3                                       | 8       | 7         |        | 23.29  | 23.70  | 23.72        |
| 3                                       | 15      | 0         |        | 22.99  | 23.41  | 23.44        |
| 3                                       | 1       | 0         | 16-QAM | 24.34  | 24.73  | 24.71        |
| 3                                       | 1       | 7         |        | 24.10  | 24.52  | 24.50        |
| 3                                       | 1       | 14        |        | 23.86  | 24.26  | 24.21        |
| 3                                       | 8       | 0         |        | 23.61  | 24.03  | 23.91        |
| 3                                       | 8       | 4         |        | 23.41  | 23.79  | 23.63        |
| 3                                       | 8       | 7         |        | 23.19  | 23.58  | 23.38        |
| 3                                       | 15      | 0         |        | 22.96  | 23.36  | 23.12        |



## LTE BAND 26 Part90

| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |              |              |
|-----------------------------------------|---------|-----------|--------|--------|--------------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle       | Highest      |
| 5                                       | 1       | 0         | QPSK   | 24.89  | 25.02        | <b>25.06</b> |
| 5                                       | 1       | 12        |        | 24.66  | 24.73        | 24.77        |
| 5                                       | 1       | 24        |        | 24.46  | 24.44        | 24.49        |
| 5                                       | 12      | 0         |        | 24.17  | 24.18        | 24.28        |
| 5                                       | 12      | 6         |        | 23.90  | 23.95        | 24.06        |
| 5                                       | 12      | 11        |        | 23.66  | 23.73        | 23.85        |
| 5                                       | 25      | 0         |        | 23.39  | 23.51        | 23.57        |
| 5                                       | 1       | 0         | 16-QAM | 24.67  | 24.75        | 24.79        |
| 5                                       | 1       | 12        |        | 24.38  | 24.49        | 24.57        |
| 5                                       | 1       | 24        |        | 24.14  | 24.22        | 24.37        |
| 5                                       | 12      | 0         |        | 23.86  | 24.00        | 24.07        |
| 5                                       | 12      | 6         |        | 23.63  | 23.70        | 23.86        |
| 5                                       | 12      | 11        |        | 23.36  | 23.47        | 23.61        |
| 5                                       | 25      | 0         |        | 23.12  | 23.18        | 23.34        |
| 10                                      | 1       | 0         | QPSK   | N/A    | <b>25.23</b> | N/A          |
| 10                                      | 1       | 24        |        | N/A    | 24.93        | N/A          |
| 10                                      | 1       | 49        |        | N/A    | 24.67        | N/A          |
| 10                                      | 25      | 0         |        | N/A    | 24.40        | N/A          |
| 10                                      | 25      | 12        |        | N/A    | 24.15        | N/A          |
| 10                                      | 25      | 24        |        | N/A    | 23.92        | N/A          |
| 10                                      | 50      | 0         |        | N/A    | 23.65        | N/A          |
| 10                                      | 1       | 0         | 16-QAM | N/A    | 24.94        | N/A          |
| 10                                      | 1       | 24        |        | N/A    | 24.64        | N/A          |
| 10                                      | 1       | 49        |        | N/A    | 24.41        | N/A          |
| 10                                      | 25      | 0         |        | N/A    | 24.14        | N/A          |
| 10                                      | 25      | 12        |        | N/A    | 23.86        | N/A          |
| 10                                      | 25      | 24        |        | N/A    | 23.61        | N/A          |
| 10                                      | 50      | 0         |        | N/A    | 23.37        | N/A          |



## LTE BAND 41

| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |        |              |
|-----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 5                                       | 1       | 0         | QPSK   | 23.35  | 23.42  | <b>23.52</b> |
| 5                                       | 1       | 12        |        | 23.08  | 23.13  | 23.26        |
| 5                                       | 1       | 24        |        | 22.81  | 22.90  | 22.99        |
| 5                                       | 12      | 0         |        | 22.53  | 22.64  | 22.73        |
| 5                                       | 12      | 6         |        | 22.24  | 22.39  | 22.43        |
| 5                                       | 12      | 13        |        | 21.98  | 22.17  | 22.20        |
| 5                                       | 25      | 0         |        | 21.70  | 21.96  | 21.96        |
| 5                                       | 1       | 0         | 16-QAM | 23.09  | 23.16  | 23.26        |
| 5                                       | 1       | 12        |        | 22.83  | 22.94  | 23.02        |
| 5                                       | 1       | 24        |        | 22.57  | 22.64  | 22.82        |
| 5                                       | 12      | 0         |        | 22.31  | 22.43  | 22.53        |
| 5                                       | 12      | 6         |        | 22.11  | 22.22  | 22.33        |
| 5                                       | 12      | 13        |        | 21.83  | 21.98  | 22.12        |
| 5                                       | 25      | 0         |        | 21.55  | 21.69  | 21.89        |
| 10                                      | 1       | 0         | QPSK   | 23.52  | 23.59  | <b>23.69</b> |
| 10                                      | 1       | 24        |        | 23.23  | 23.32  | 23.49        |
| 10                                      | 1       | 49        |        | 22.98  | 23.06  | 23.23        |
| 10                                      | 25      | 0         |        | 22.71  | 22.85  | 22.94        |
| 10                                      | 25      | 12        |        | 22.46  | 22.59  | 22.69        |
| 10                                      | 25      | 25        |        | 22.17  | 22.29  | 22.41        |
| 10                                      | 50      | 0         |        | 21.90  | 22.08  | 22.13        |
| 10                                      | 1       | 0         | 16-QAM | 23.28  | 23.30  | 23.41        |
| 10                                      | 1       | 24        |        | 23.04  | 23.09  | 23.16        |
| 10                                      | 1       | 49        |        | 22.76  | 22.89  | 22.86        |
| 10                                      | 25      | 0         |        | 22.56  | 22.67  | 22.66        |
| 10                                      | 25      | 12        |        | 22.28  | 22.45  | 22.45        |
| 10                                      | 25      | 25        |        | 22.08  | 22.25  | 22.18        |
| 10                                      | 50      | 0         |        | 21.87  | 22.03  | 21.93        |



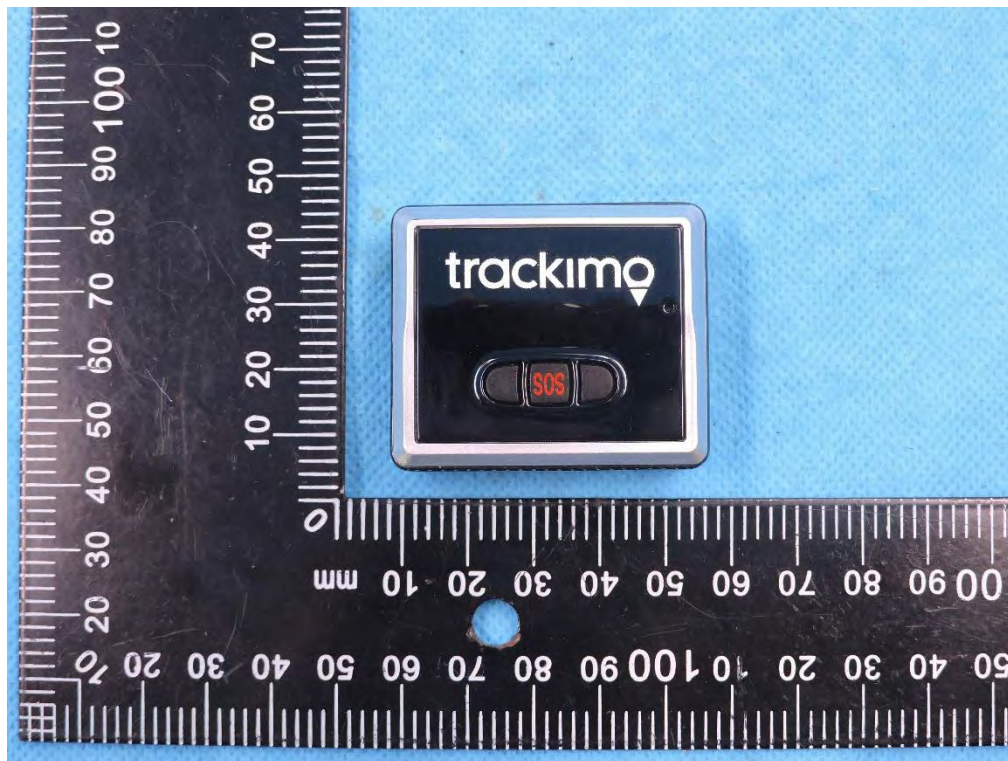
## LTE BAND 41

| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |        |              |
|-----------------------------------------|---------|-----------|--------|--------|--------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest      |
| 15                                      | 1       | 0         | QPSK   | 23.72  | 23.75  | <b>23.88</b> |
| 15                                      | 1       | 37        |        | 23.48  | 23.52  | 23.64        |
| 15                                      | 1       | 74        |        | 23.25  | 23.23  | 23.37        |
| 15                                      | 36      | 0         |        | 23.03  | 23.01  | 23.15        |
| 15                                      | 36      | 19        |        | 22.76  | 22.72  | 22.90        |
| 15                                      | 36      | 39        |        | 22.52  | 22.43  | 22.63        |
| 15                                      | 75      | 0         |        | 22.25  | 22.17  | 22.41        |
| 15                                      | 1       | 0         | 16-QAM | 23.48  | 23.47  | 23.62        |
| 15                                      | 1       | 38        |        | 23.27  | 23.27  | 23.37        |
| 15                                      | 1       | 75        |        | 23.07  | 23.05  | 23.10        |
| 15                                      | 36      | 0         |        | 22.82  | 22.81  | 22.89        |
| 15                                      | 36      | 19        |        | 22.56  | 22.52  | 22.61        |
| 15                                      | 36      | 39        |        | 22.34  | 22.27  | 22.36        |
| 15                                      | 75      | 0         |        | 22.07  | 22.05  | 22.06        |
| 20                                      | 1       | 0         | QPSK   | 24.22  | 24.23  | <b>24.35</b> |
| 20                                      | 1       | 50        |        | 23.98  | 23.94  | 24.10        |
| 20                                      | 1       | 99        |        | 23.70  | 23.65  | 23.80        |
| 20                                      | 50      | 0         |        | 23.42  | 23.44  | <b>23.55</b> |
| 20                                      | 50      | 25        |        | 23.20  | 23.21  | 23.26        |
| 20                                      | 50      | 50        |        | 22.95  | 23.00  | 23.01        |
| 20                                      | 100     | 0         |        | 22.70  | 22.72  | 22.79        |
| 20                                      | 1       | 0         | 16-QAM | 23.98  | 23.93  | 24.09        |
| 20                                      | 1       | 50        |        | 23.72  | 23.65  | 23.86        |
| 20                                      | 1       | 99        |        | 23.43  | 23.35  | 23.57        |
| 20                                      | 50      | 0         |        | 23.22  | 23.07  | 23.30        |
| 20                                      | 50      | 25        |        | 22.96  | 22.83  | 23.02        |
| 20                                      | 50      | 50        |        | 22.67  | 22.61  | 22.73        |
| 20                                      | 100     | 0         |        | 22.45  | 22.38  | 22.46        |

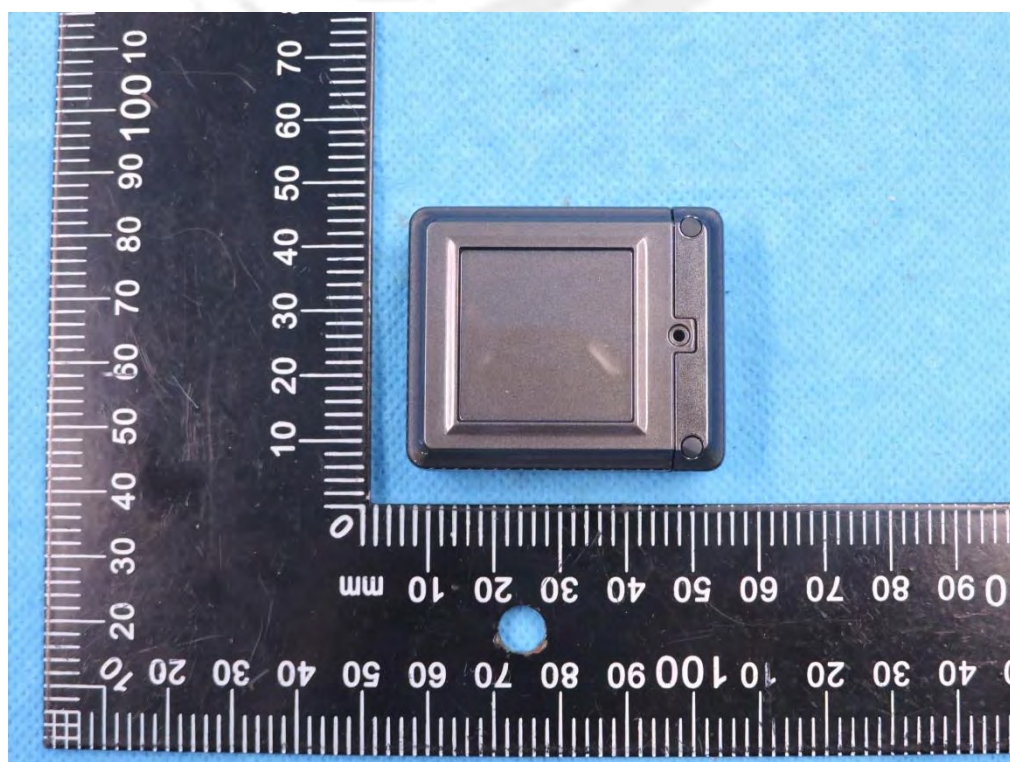
## 10. EUT and Test Setup Photo

### 10.1 EUT Photo

Front side

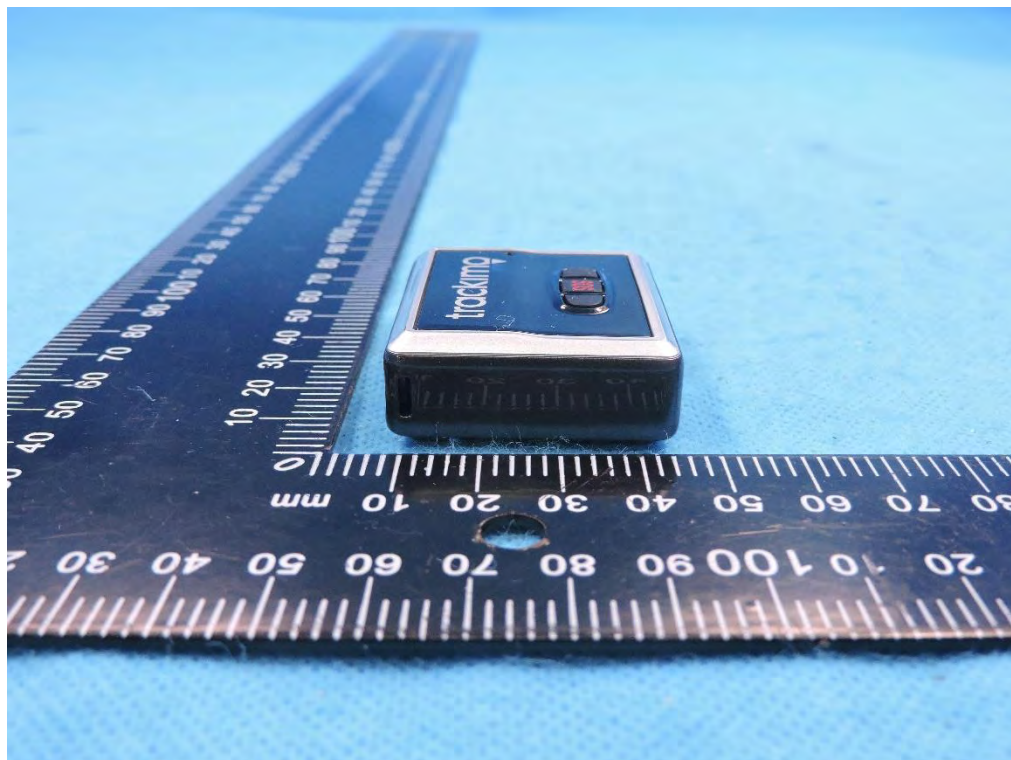


Back side

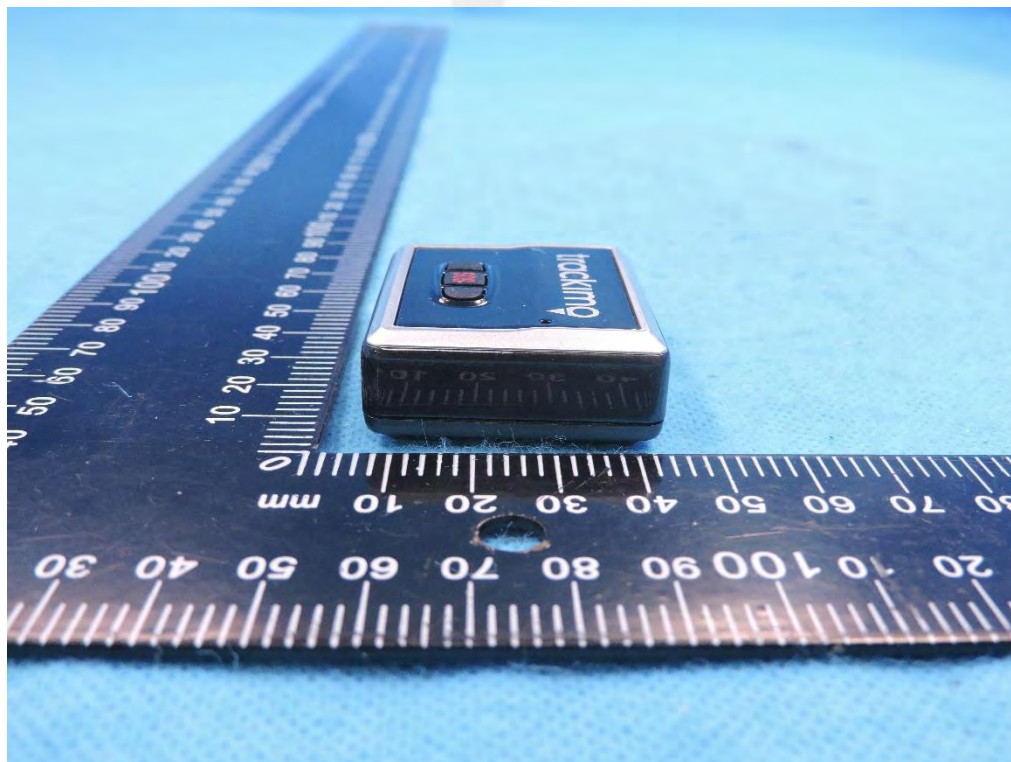




Left Edge

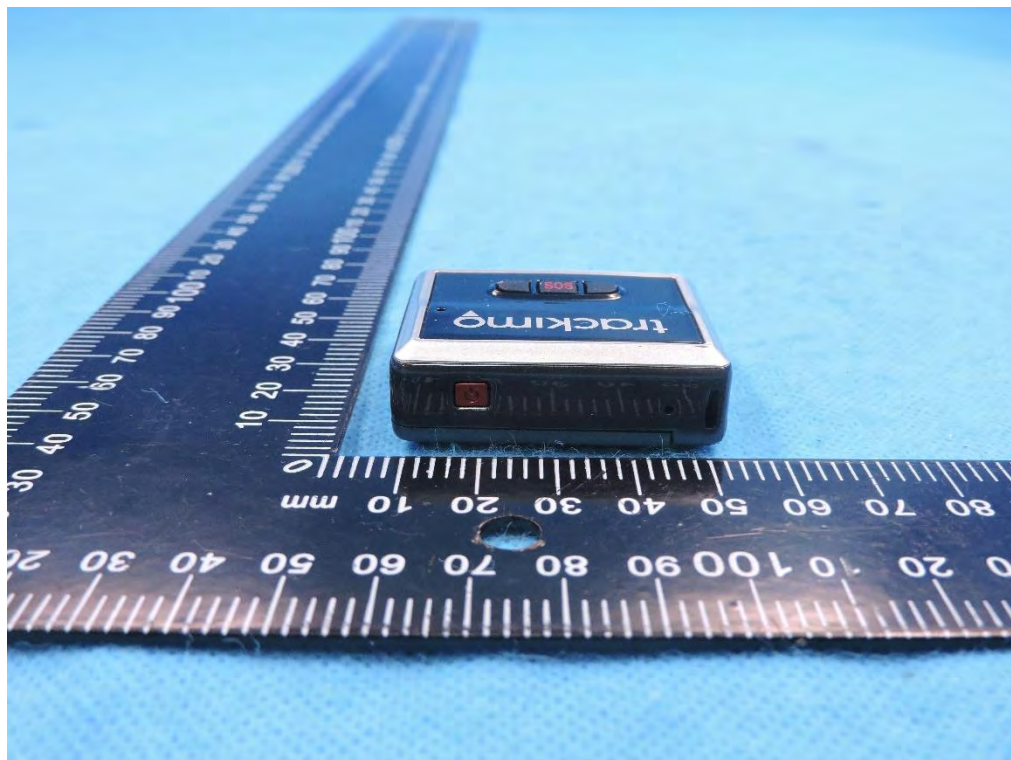


Right Edge

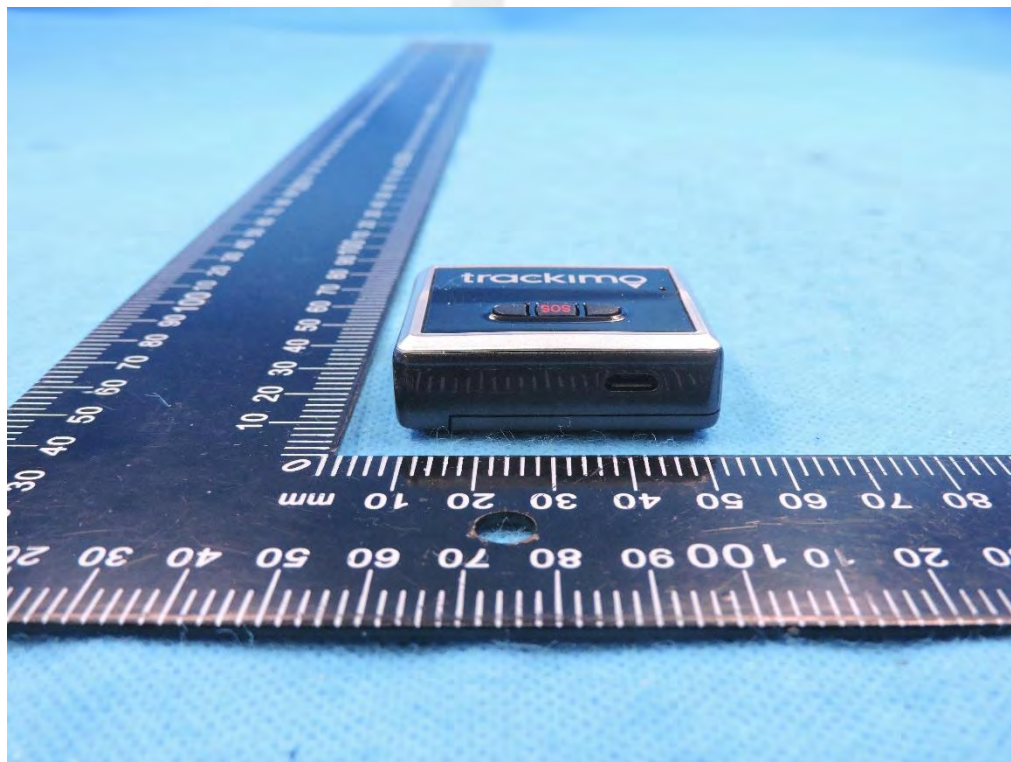




Top Edge

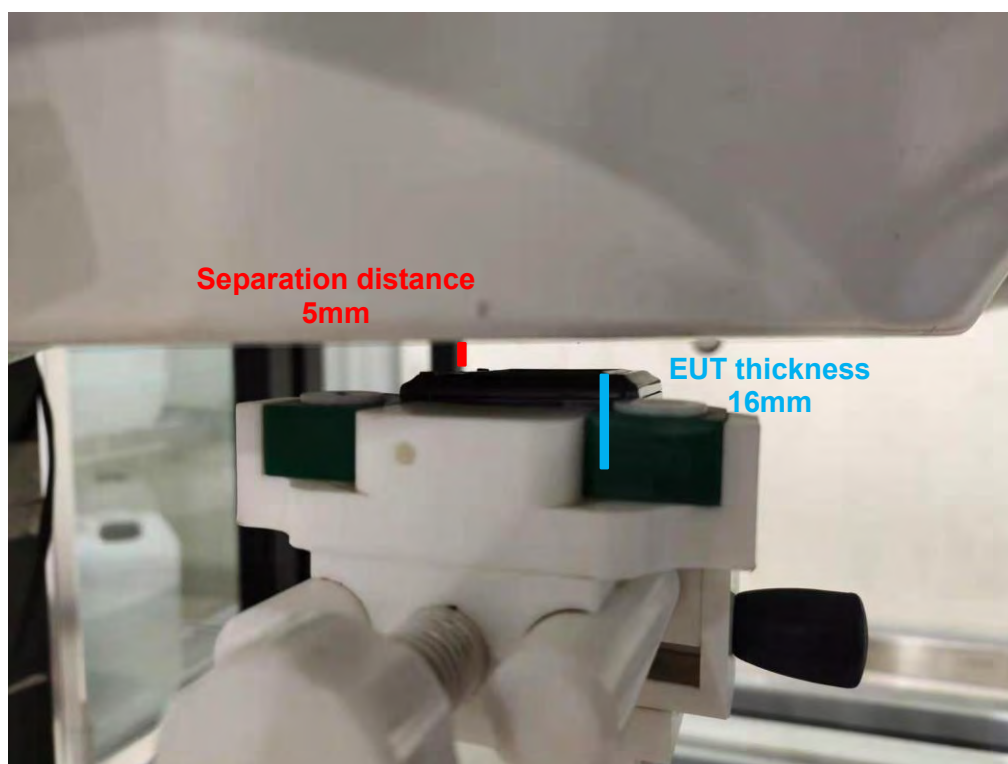


Bottom Edge



## 10.2 Setup Photo

Front Side



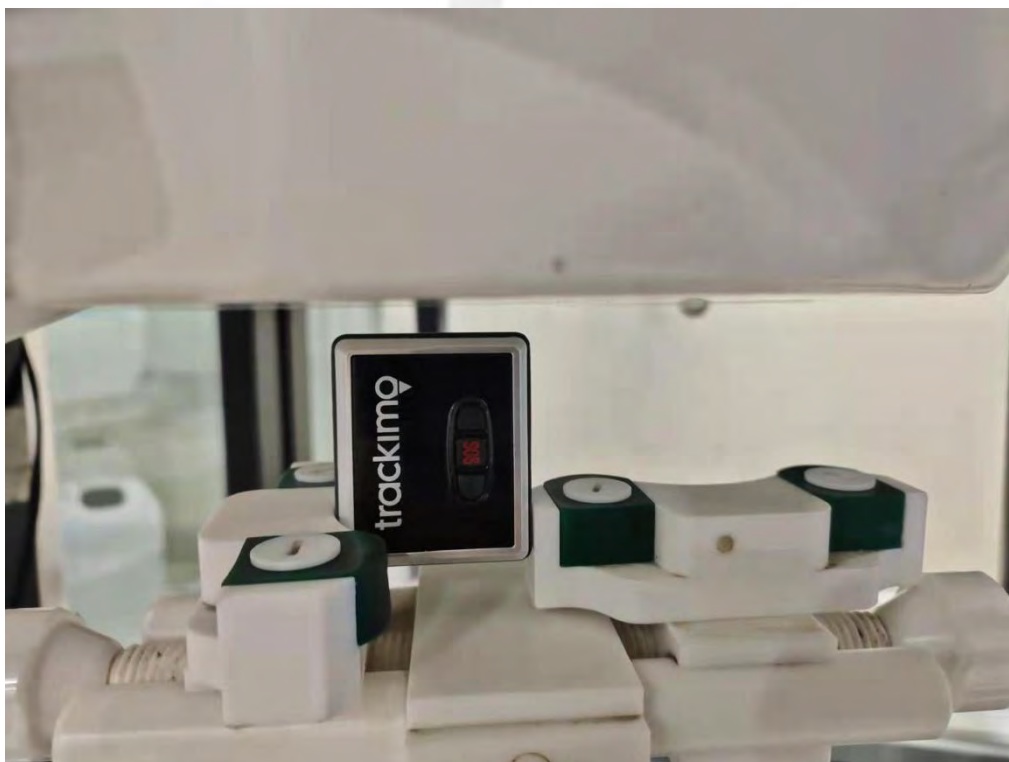
Back Side



Left Edge



Right Edge



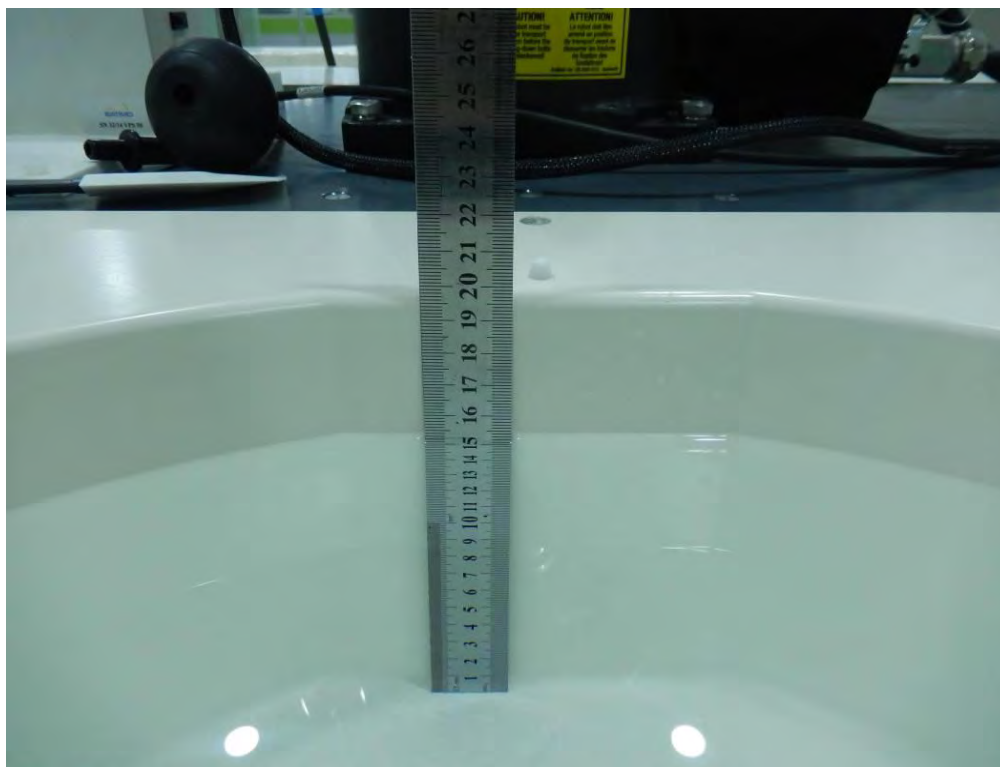
Top Edge



Bottom Edge



Liquid depth (15 cm)





## 11. SAR Result Summary

### 11.1 Body-worn SAR

| Band          | Model            | Test Position | Freq.  | SAR (1g) (W/kg) | Power Drift(%) | Max.Turn-up Power(dBm) | Meas.Output Power(dBm) | Scaled SAR (W/Kg) | Meas.No. |
|---------------|------------------|---------------|--------|-----------------|----------------|------------------------|------------------------|-------------------|----------|
| GSM850        | GPRS Data-4 Slot | Front Side    | 824.2  | 0.112           | 3.57           | 31.00                  | 30.90                  | 0.115             | /        |
|               |                  | Back Side     | 824.2  | 0.411           | -0.51          | 31.00                  | 30.90                  | <b>0.421</b>      | <b>1</b> |
|               |                  | Left Side     | 824.2  | 0.279           | -2.89          | 31.00                  | 30.90                  | 0.285             | /        |
|               |                  | Right Side    | 824.2  | 0.085           | 1.72           | 31.00                  | 30.90                  | 0.087             | /        |
|               |                  | Top Side      | 824.2  | 0.093           | 0.06           | 31.00                  | 30.90                  | 0.095             | /        |
|               |                  | Bottom Side   | 824.2  | 0.055           | -1.34          | 31.00                  | 30.90                  | 0.056             | /        |
| GSM1900       | GPRS Data-4 Slot | Front Side    | 1880   | 0.435           | 1.47           | 28.50                  | 28.01                  | 0.487             | /        |
|               |                  | Back Side     | 1880   | 0.631           | 3.96           | 28.50                  | 28.01                  | 0.706             | /        |
|               |                  | Left Side     | 1880   | 0.782           | 0.26           | 28.50                  | 28.01                  | <b>0.875</b>      | <b>2</b> |
|               |                  | Right Side    | 1880   | 0.442           | 1.49           | 28.50                  | 28.01                  | 0.495             | /        |
|               |                  | Top Side      | 1880   | 0.299           | -1.28          | 28.50                  | 28.01                  | 0.335             | /        |
|               |                  | Bottom Side   | 1880   | 0.402           | -2.73          | 28.50                  | 28.01                  | 0.450             | /        |
| WCDMA Band II | RMC              | Front Side    | 1852.4 | 0.552           | -2.42          | 23.00                  | 22.68                  | 0.594             | /        |
|               |                  | Back Side     | 1852.4 | 1.084           | -3.74          | 23.00                  | 22.68                  | 1.167             | /        |
|               |                  | Left Side     | 1852.4 | 1.353           | 1.86           | 23.00                  | 22.68                  | <b>1.456</b>      | <b>3</b> |
|               |                  | Left Side     | 1880   | 1.053           | -1.49          | 23.00                  | 22.31                  | 1.234             | /        |
|               |                  | Left Side     | 1907.6 | 1.102           | -0.86          | 23.00                  | 22.48                  | 1.242             | /        |
|               |                  | Right Side    | 1852.4 | 0.681           | -2.63          | 23.00                  | 22.68                  | 0.733             | /        |
|               |                  | Top Side      | 1852.4 | 0.445           | 2.35           | 23.00                  | 22.68                  | 0.479             | /        |
|               |                  | Bottom Side   | 1852.4 | 0.623           | 1.35           | 23.00                  | 22.68                  | 0.671             | /        |
| WCDMA Band V  | RMC              | Front Side    | 846.6  | 0.045           | 0.58           | 23.10                  | 23.05                  | 0.046             | /        |
|               |                  | Back Side     | 846.6  | 0.181           | -1.48          | 23.10                  | 23.05                  | <b>0.183</b>      | <b>4</b> |
|               |                  | Left Side     | 846.6  | 0.138           | -1.74          | 23.10                  | 23.05                  | 0.140             | /        |
|               |                  | Right Side    | 846.6  | 0.036           | 0.76           | 23.10                  | 23.05                  | 0.036             | /        |
|               |                  | Top Side      | 846.6  | 0.044           | 1.62           | 23.10                  | 23.05                  | 0.045             | /        |
|               |                  | Bottom Side   | 846.6  | 0.025           | -3.75          | 23.10                  | 23.05                  | 0.025             | /        |



| Band          | BW<br>(MHz) | Mod. | RB<br>Size | RB<br>offset | Test Position | Freq.  | Result<br>1g<br>(W/Kg) | Power<br>Drift(%) | Max.<br>Turn-up<br>Power<br>(dBm) | Meas.<br>Output<br>Power<br>(dBm) | Scaled<br>SAR<br>(W/Kg) | Meas.<br>No. |
|---------------|-------------|------|------------|--------------|---------------|--------|------------------------|-------------------|-----------------------------------|-----------------------------------|-------------------------|--------------|
| LTE Band<br>2 | 20M         | QPSK | 1          | 0            | Front side    | 1860   | 0.452                  | -3.63             | 24.50                             | 24.23                             | 0.481                   | /            |
|               |             |      | 50         | 0            | Front side    | 1860   | 0.435                  | 3.53              | 23.50                             | 23.41                             | 0.444                   | /            |
|               |             |      | 1          | 0            | Back Side     | 1860   | 1.174                  | -0.27             | 24.50                             | 24.23                             | <b>1.249</b>            | <b>5</b>     |
|               |             |      | 1          | 0            | Back Side     | 1880   | 0.898                  | 2.14              | 24.50                             | 24.03                             | 1.001                   | /            |
|               |             |      | 1          | 0            | Back Side     | 1900   | 0.906                  | 1.73              | 24.50                             | 24.12                             | 0.989                   | /            |
|               |             |      | 50         | 0            | Back Side     | 1860   | 0.885                  | 2.28              | 23.50                             | 23.41                             | 0.904                   | /            |
|               |             |      | 50         | 0            | Back Side     | 1880   | 0.762                  | 2.74              | 23.50                             | 23.31                             | 0.796                   | /            |
|               |             |      | 50         | 0            | Back Side     | 1900   | 0.802                  | -2.81             | 23.50                             | 23.30                             | 0.840                   | /            |
|               |             |      | 100        | 0            | Back Side     | 1880   | 0.723                  | 2.60              | 23.00                             | 22.62                             | 0.789                   | /            |
|               |             |      | 1          | 0            | Left Side     | 1860   | 1.010                  | 0.96              | 24.50                             | 24.23                             | 1.075                   | /            |
|               |             |      | 1          | 0            | Left Side     | 1880   | 0.855                  | 3.15              | 24.50                             | 24.23                             | 0.910                   | /            |
|               |             |      | 1          | 0            | Left Side     | 1900   | 0.863                  | 0.97              | 24.50                             | 24.23                             | 0.918                   | /            |
|               |             |      | 50         | 0            | Left Side     | 1860   | 0.724                  | -2.05             | 23.50                             | 23.41                             | 0.739                   | /            |
|               |             |      | 100        | 0            | Left Side     | 1880   | 0.731                  | 2.12              | 23.00                             | 22.62                             | 0.798                   | /            |
|               |             |      | 1          | 0            | Right Side    | 1860   | 0.225                  | 1.83              | 24.50                             | 24.23                             | 0.239                   | /            |
|               |             |      | 50         | 0            | Right Side    | 1860   | 0.212                  | -0.62             | 23.50                             | 23.41                             | 0.216                   | /            |
|               |             |      | 1          | 0            | Top Side      | 1860   | 0.566                  | -3.37             | 24.50                             | 24.23                             | 0.602                   | /            |
|               |             |      | 50         | 0            | Top Side      | 1860   | 0.422                  | -2.97             | 23.50                             | 23.41                             | 0.431                   | /            |
|               |             |      | 1          | 0            | Bottom Side   | 1860   | 0.236                  | -2.52             | 24.50                             | 24.23                             | 0.251                   | /            |
|               |             |      | 50         | 0            | Bottom Side   | 1860   | 0.199                  | -1.64             | 23.50                             | 23.41                             | 0.203                   | /            |
| LTE Band<br>4 | 20M         | QPSK | 1          | 0            | Front side    | 1732.5 | 0.105                  | -3.74             | 25.00                             | 24.88                             | 0.108                   | /            |
|               |             |      | 50         | 0            | Front side    | 1732.5 | 0.090                  | -1.88             | 24.50                             | 24.11                             | 0.098                   | /            |
|               |             |      | 1          | 0            | Back Side     | 1732.5 | 0.415                  | -0.14             | 25.00                             | 24.88                             | 0.427                   | /            |
|               |             |      | 50         | 0            | Back Side     | 1732.5 | 0.368                  | -1.62             | 24.50                             | 24.11                             | 0.403                   | /            |
|               |             |      | 1          | 0            | Left Side     | 1732.5 | 0.464                  | 2.87              | 25.00                             | 24.88                             | <b>0.477</b>            | <b>6</b>     |
|               |             |      | 50         | 0            | Left Side     | 1732.5 | 0.420                  | 0.88              | 24.50                             | 24.11                             | 0.459                   | /            |
|               |             |      | 1          | 0            | Right Side    | 1732.5 | 0.112                  | 3.35              | 25.00                             | 24.88                             | 0.115                   | /            |
|               |             |      | 50         | 0            | Right Side    | 1732.5 | 0.088                  | 2.11              | 24.50                             | 24.11                             | 0.096                   | /            |
|               |             |      | 1          | 0            | Top Side      | 1732.5 | 0.231                  | -0.89             | 25.00                             | 24.88                             | 0.237                   | /            |
|               |             |      | 50         | 0            | Top Side      | 1732.5 | 0.222                  | -1.68             | 24.50                             | 24.11                             | 0.243                   | /            |
|               |             |      | 1          | 0            | Bottom Side   | 1732.5 | 0.159                  | 3.23              | 25.00                             | 24.88                             | 0.163                   | /            |
|               |             |      | 50         | 0            | Bottom Side   | 1732.5 | 0.143                  | -1.87             | 24.50                             | 24.11                             | 0.156                   | /            |



|                |     |      |    |   |             |       |       |       |       |       |              |          |
|----------------|-----|------|----|---|-------------|-------|-------|-------|-------|-------|--------------|----------|
| LTE Band<br>5  | 10M | QPSK | 1  | 0 | Front side  | 844   | 0.066 | -3.46 | 25.00 | 24.68 | 0.071        | /        |
|                |     |      | 25 | 0 | Front side  | 844   | 0.054 | 0.89  | 24.00 | 23.90 | 0.055        | /        |
|                |     |      | 1  | 0 | Back Side   | 844   | 0.248 | 2.79  | 25.00 | 24.68 | <b>0.267</b> | <b>7</b> |
|                |     |      | 25 | 0 | Back Side   | 844   | 0.212 | 3.87  | 24.00 | 23.90 | 0.217        | /        |
|                |     |      | 1  | 0 | Left Side   | 844   | 0.119 | 3.34  | 25.00 | 24.68 | 0.128        | /        |
|                |     |      | 25 | 0 | Left Side   | 844   | 0.095 | 1.61  | 24.00 | 23.90 | 0.097        | /        |
|                |     |      | 1  | 0 | Right Side  | 844   | 0.060 | -1.69 | 25.00 | 24.68 | 0.065        | /        |
|                |     |      | 25 | 0 | Right Side  | 844   | 0.055 | -2.95 | 24.00 | 23.90 | 0.056        | /        |
|                |     |      | 1  | 0 | Top Side    | 844   | 0.062 | -0.63 | 25.00 | 24.68 | 0.067        | /        |
|                |     |      | 25 | 0 | Top Side    | 844   | 0.038 | -2.92 | 24.00 | 23.90 | 0.039        | /        |
|                |     |      | 1  | 0 | Bottom Side | 844   | 0.046 | 1.73  | 25.00 | 24.68 | 0.050        | /        |
|                |     |      | 25 | 0 | Bottom Side | 844   | 0.044 | -3.07 | 24.00 | 23.90 | 0.045        | /        |
| LTE Band<br>7  | 10M | QPSK | 1  | 0 | Front side  | 2535  | 0.168 | -3.31 | 24.00 | 23.95 | 0.170        | /        |
|                |     |      | 50 | 0 | Front side  | 2560  | 0.166 | 0.52  | 23.50 | 23.23 | 0.177        | /        |
|                |     |      | 1  | 0 | Back Side   | 2535  | 0.291 | 3.12  | 24.00 | 23.95 | 0.294        | /        |
|                |     |      | 50 | 0 | Back Side   | 2560  | 0.254 | 1.93  | 23.50 | 23.23 | 0.270        | /        |
|                |     |      | 1  | 0 | Left Side   | 2535  | 0.567 | 3.45  | 24.00 | 23.95 | <b>0.574</b> | <b>8</b> |
|                |     |      | 50 | 0 | Left Side   | 2560  | 0.505 | -2.54 | 23.50 | 23.23 | 0.537        | /        |
|                |     |      | 1  | 0 | Right Side  | 2535  | 0.113 | 1.16  | 24.00 | 23.95 | 0.114        | /        |
|                |     |      | 50 | 0 | Right Side  | 2560  | 0.096 | 2.27  | 23.50 | 23.23 | 0.102        | /        |
|                |     |      | 1  | 0 | Top Side    | 2535  | 0.189 | -0.26 | 24.00 | 23.95 | 0.191        | /        |
|                |     |      | 50 | 0 | Top Side    | 2560  | 0.136 | -3.38 | 23.50 | 23.23 | 0.145        | /        |
|                |     |      | 1  | 0 | Bottom Side | 2535  | 0.157 | 0.88  | 24.00 | 23.95 | 0.159        | /        |
|                |     |      | 50 | 0 | Bottom Side | 2560  | 0.122 | -2.47 | 23.50 | 23.23 | 0.130        | /        |
| LTE Band<br>12 | 10M | QPSK | 1  | 0 | Front side  | 707.5 | 0.077 | -0.41 | 25.50 | 25.12 | 0.084        | /        |
|                |     |      | 25 | 0 | Front side  | 707.5 | 0.075 | 2.62  | 24.50 | 24.48 | 0.075        | /        |
|                |     |      | 1  | 0 | Back Side   | 707.5 | 0.287 | -1.73 | 25.50 | 25.12 | 0.313        | /        |
|                |     |      | 25 | 0 | Back Side   | 707.5 | 0.233 | -1.80 | 24.50 | 24.48 | 0.234        | /        |
|                |     |      | 1  | 0 | Left Side   | 707.5 | 0.423 | -2.69 | 25.50 | 25.12 | <b>0.462</b> | <b>9</b> |
|                |     |      | 25 | 0 | Left Side   | 707.5 | 0.388 | -0.48 | 24.50 | 24.48 | 0.390        | /        |
|                |     |      | 1  | 0 | Right Side  | 707.5 | 0.144 | -3.45 | 25.50 | 25.12 | 0.157        | /        |
|                |     |      | 25 | 0 | Right Side  | 707.5 | 0.125 | -1.30 | 24.50 | 24.48 | 0.126        | /        |
|                |     |      | 1  | 0 | Top Side    | 707.5 | 0.090 | -3.55 | 25.50 | 25.12 | 0.098        | /        |
|                |     |      | 25 | 0 | Top Side    | 707.5 | 0.076 | -1.36 | 24.50 | 24.48 | 0.076        | /        |
|                |     |      | 1  | 0 | Bottom Side | 707.5 | 0.212 | 3.11  | 25.50 | 25.12 | 0.231        | /        |
|                |     |      | 25 | 0 | Bottom Side | 707.5 | 0.154 | -1.93 | 24.50 | 24.48 | 0.155        | /        |



|                |     |      |    |   |             |       |       |       |       |       |              |           |
|----------------|-----|------|----|---|-------------|-------|-------|-------|-------|-------|--------------|-----------|
| LTE Band<br>17 | 10M | QPSK | 1  | 0 | Front side  | 711   | 0.054 | 2.25  | 24.50 | 24.23 | 0.057        | /         |
|                |     |      | 25 | 0 | Front side  | 710   | 0.044 | -1.86 | 24.50 | 24.23 | 0.047        | /         |
|                |     |      | 1  | 0 | Back Side   | 711   | 0.155 | 1.37  | 24.50 | 24.23 | 0.165        | /         |
|                |     |      | 25 | 0 | Back Side   | 710   | 0.143 | -2.17 | 24.50 | 24.23 | 0.152        | /         |
|                |     |      | 1  | 0 | Left Side   | 711   | 0.234 | -0.04 | 24.50 | 24.23 | <b>0.249</b> | <b>10</b> |
|                |     |      | 25 | 0 | Left Side   | 710   | 0.201 | -1.94 | 24.50 | 24.23 | 0.214        | /         |
|                |     |      | 1  | 0 | Right Side  | 711   | 0.055 | 0.22  | 24.50 | 24.23 | 0.059        | /         |
|                |     |      | 25 | 0 | Right Side  | 710   | 0.040 | 2.87  | 24.50 | 24.23 | 0.043        | /         |
|                |     |      | 1  | 0 | Top Side    | 711   | 0.111 | -1.02 | 24.50 | 24.23 | 0.118        | /         |
|                |     |      | 25 | 0 | Top Side    | 710   | 0.084 | 1.12  | 24.50 | 24.23 | 0.089        | /         |
|                |     |      | 1  | 0 | Bottom Side | 711   | 0.089 | 1.15  | 24.50 | 24.23 | 0.095        | /         |
|                |     |      | 25 | 0 | Bottom Side | 710   | 0.085 | -0.44 | 24.50 | 24.23 | 0.090        | /         |
| LTE Band<br>25 | 20M | QPSK | 1  | 0 | Front side  | 1905  | 0.089 | -0.91 | 25.00 | 24.66 | 0.096        | /         |
|                |     |      | 50 | 0 | Front side  | 1905  | 0.078 | 3.03  | 24.00 | 23.91 | 0.080        | /         |
|                |     |      | 1  | 0 | Back Side   | 1905  | 0.603 | -3.06 | 25.00 | 24.66 | 0.652        | /         |
|                |     |      | 50 | 0 | Back Side   | 1905  | 0.564 | 3.89  | 24.00 | 23.91 | 0.576        | /         |
|                |     |      | 1  | 0 | Left Side   | 1905  | 0.244 | -2.95 | 25.00 | 24.66 | 0.264        | /         |
|                |     |      | 50 | 0 | Left Side   | 1905  | 0.201 | -2.39 | 24.00 | 23.91 | 0.205        | /         |
|                |     |      | 1  | 0 | Right Side  | 1905  | 0.154 | -2.53 | 25.00 | 24.66 | 0.167        | /         |
|                |     |      | 50 | 0 | Right Side  | 1905  | 0.138 | 1.40  | 24.00 | 23.91 | 0.141        | /         |
|                |     |      | 1  | 0 | Top Side    | 1905  | 0.747 | -3.90 | 25.00 | 24.66 | <b>0.808</b> | <b>11</b> |
|                |     |      | 50 | 0 | Top Side    | 1905  | 0.689 | 2.85  | 24.00 | 23.91 | 0.703        | /         |
|                |     |      | 1  | 0 | Bottom Side | 1905  | 0.253 | -3.91 | 25.00 | 24.66 | 0.274        | /         |
|                |     |      | 50 | 0 | Bottom Side | 1905  | 0.240 | 2.06  | 24.00 | 23.91 | 0.245        | /         |
| LTE Band<br>26 | 15M | QPSK | 1  | 0 | Front side  | 841.5 | 0.058 | -0.48 | 25.50 | 25.23 | 0.062        | /         |
|                |     |      | 36 | 0 | Front side  | 831.5 | 0.044 | -2.02 | 24.50 | 24.42 | 0.045        | /         |
|                |     |      | 1  | 0 | Back Side   | 841.5 | 0.091 | 0.81  | 25.50 | 25.23 | 0.097        | /         |
|                |     |      | 36 | 0 | Back Side   | 831.5 | 0.085 | 0.10  | 24.50 | 24.42 | 0.087        | /         |
|                |     |      | 1  | 0 | Left Side   | 841.5 | 0.152 | -1.90 | 25.50 | 25.23 | <b>0.162</b> | <b>12</b> |
|                |     |      | 36 | 0 | Left Side   | 831.5 | 0.136 | 0.11  | 24.50 | 24.42 | 0.139        | /         |
|                |     |      | 1  | 0 | Right Side  | 841.5 | 0.043 | -0.48 | 25.50 | 25.23 | 0.046        | /         |
|                |     |      | 36 | 0 | Right Side  | 831.5 | 0.041 | -1.32 | 24.50 | 24.42 | 0.042        | /         |
|                |     |      | 1  | 0 | Top Side    | 841.5 | 0.056 | 1.73  | 25.50 | 25.23 | 0.060        | /         |
|                |     |      | 36 | 0 | Top Side    | 831.5 | 0.053 | 1.69  | 24.50 | 24.42 | 0.054        | /         |
|                |     |      | 1  | 0 | Bottom Side | 841.5 | 0.050 | 0.72  | 25.50 | 25.23 | 0.053        | /         |
|                |     |      | 36 | 0 | Bottom Side | 831.5 | 0.046 | -3.70 | 24.50 | 24.42 | 0.047        | /         |



|                |     |      |     |   |             |      |       |       |       |       |              |           |
|----------------|-----|------|-----|---|-------------|------|-------|-------|-------|-------|--------------|-----------|
| LTE Band<br>41 | 20M | QPSK | 1   | 0 | Front side  | 2680 | 0.235 | 1.12  | 24.50 | 24.35 | 0.243        | /         |
|                |     |      | 50  | 0 | Front side  | 2680 | 0.212 | 1.71  | 24.00 | 23.55 | 0.235        | /         |
|                |     |      | 1   | 0 | Back Side   | 2680 | 0.455 | 3.02  | 24.50 | 24.35 | 0.471        | /         |
|                |     |      | 50  | 0 | Back Side   | 2680 | 0.421 | 1.53  | 24.00 | 23.55 | 0.467        | /         |
|                |     |      | 1   | 0 | Left Side   | 2506 | 0.882 | -1.39 | 24.50 | 24.22 | 0.941        | /         |
|                |     |      | 1   | 0 | Left Side   | 2593 | 0.826 | 3.70  | 24.50 | 24.23 | 0.879        | /         |
|                |     |      | 1   | 0 | Left Side   | 2680 | 0.910 | 3.21  | 24.50 | 24.35 | <b>0.942</b> | <b>13</b> |
|                |     |      | 50  | 0 | Left Side   | 2506 | 0.805 | -1.66 | 24.00 | 23.42 | 0.920        | /         |
|                |     |      | 50  | 0 | Left Side   | 2593 | 0.756 | -2.34 | 24.00 | 23.44 | 0.860        | /         |
|                |     |      | 50  | 0 | Left Side   | 2680 | 0.725 | 0.96  | 24.00 | 23.55 | 0.804        | /         |
|                |     |      | 100 | 0 | Left Side   | 2680 | 0.698 | 3.26  | 24.00 | 23.55 | 0.774        | /         |
|                |     |      | 1   | 0 | Right Side  | 2680 | 0.231 | -1.02 | 24.50 | 24.35 | 0.239        | /         |
|                |     |      | 50  | 0 | Right Side  | 2680 | 0.220 | 2.30  | 24.00 | 23.55 | 0.244        | /         |
|                |     |      | 1   | 0 | Top Side    | 2680 | 0.356 | 2.35  | 24.50 | 24.35 | 0.369        | /         |
|                |     |      | 50  | 0 | Top Side    | 2680 | 0.322 | -0.54 | 24.00 | 23.55 | 0.357        | /         |
|                |     |      | 1   | 0 | Bottom Side | 2680 | 0.258 | 0.56  | 24.50 | 24.35 | 0.267        | /         |
|                |     |      | 50  | 0 | Bottom Side | 2680 | 0.260 | 0.81  | 24.00 | 23.55 | 0.288        | /         |

Note:

1. The test separation of all above table is 5mm.
2. Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
  - b. For WWAN: Scaled SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor

**11.2 Repeated SAR**

| Band          | Mode | Test Position | Freq.  | Result 1g (W/Kg) | Power Drift(%) | Max.Turn-up Power(dBm) | Meas.Output Power(dBm) | Scaled SAR(W/Kg) | Meas. No. |
|---------------|------|---------------|--------|------------------|----------------|------------------------|------------------------|------------------|-----------|
| WCDMA Band II | RMC  | Left Side     | 1852.4 | 1.304            | 3.39           | 23.00                  | 22.68                  | 1.404            | -         |
|               |      | Left Side     | 1880   | 1.021            | -0.49          | 23.00                  | 22.31                  | 1.197            | -         |
|               |      | Left Side     | 1907.6 | 1.088            | 2.24           | 23.00                  | 22.48                  | 1.226            | -         |

| Band        | BW (MHz) | Mod. | RB Size | RB offset | Test Position | Freq. | Result 1g (W/Kg) | Power Drift(%) | Max.Turn-up Power (dBm) | Meas.O utput Power (dBm) | Scaled SAR (W/Kg) | Meas. No. |
|-------------|----------|------|---------|-----------|---------------|-------|------------------|----------------|-------------------------|--------------------------|-------------------|-----------|
| LTE Band 2  | 20M      | QPSK | 1       | 0         | Back Side     | 1860  | 1.171            | -3.44          | 24.50                   | 24.23                    | 1.246             | -         |
|             |          |      | 1       | 0         | Back Side     | 1880  | 0.875            | 1.88           | 24.50                   | 24.03                    | 0.975             | -         |
|             |          |      | 1       | 0         | Back Side     | 1900  | 0.893            | 1.06           | 24.50                   | 24.12                    | 0.975             | -         |
|             |          |      | 50      | 0         | Back Side     | 1860  | 0.853            | -0.15          | 23.50                   | 23.41                    | 0.871             | -         |
|             |          |      | 50      | 0         | Back Side     | 1880  | 0.733            | -1.20          | 23.50                   | 23.31                    | 0.766             | -         |
|             |          |      | 50      | 0         | Back Side     | 1900  | 0.766            | 2.11           | 23.50                   | 23.30                    | 0.802             | -         |
|             |          |      | 1       | 0         | Left Side     | 1860  | 0.965            | 2.84           | 24.50                   | 24.23                    | 1.027             | -         |
|             |          |      | 1       | 0         | Left Side     | 1880  | 0.815            | 0.86           | 24.50                   | 24.03                    | 0.908             | -         |
|             |          |      | 1       | 0         | Left Side     | 1900  | 0.854            | -2.07          | 24.50                   | 24.12                    | 0.932             | -         |
| LTE Band 41 | 20M      | QPSK | 1       | 0         | Left Side     | 2506  | 0.856            | 3.59           | 24.50                   | 24.22                    | 0.913             | -         |
|             |          |      | 1       | 0         | Left Side     | 2593  | 0.817            | -2.03          | 24.50                   | 24.23                    | 0.869             | -         |
|             |          |      | 1       | 0         | Left Side     | 2680  | 0.878            | -1.43          | 24.50                   | 24.35                    | 0.909             | -         |
|             |          |      | 50      | 0         | Left Side     | 2506  | 0.776            | -0.20          | 24.00                   | 23.42                    | 0.887             | -         |
|             |          |      | 50      | 0         | Left Side     | 2593  | 0.739            | 2.38           | 24.00                   | 23.44                    | 0.841             | -         |
|             |          |      | 50      | 0         | Left Side     | 2680  | 0.696            | 0.04           | 24.00                   | 23.55                    | 0.772             | -         |



### 11.3 Repeated SAR measurement

| Band          | Mode | Test Position | Freq.  | Original Measured SAR 1g(W/kg) | 1 st Repeated SAR 1g | Ratio | Original Measured SAR 1g(W/kg) | 2nd Repeated SAR 1g | Ratio |
|---------------|------|---------------|--------|--------------------------------|----------------------|-------|--------------------------------|---------------------|-------|
| WCDMA Band II | RMC  | Left Side     | 1852.4 | 1.353                          | 1.304                | 1.038 | -                              | -                   | -     |
|               |      | Left Side     | 1880   | 1.053                          | 1.021                | 1.031 | -                              | -                   | -     |
|               |      | Left Side     | 1907.6 | 1.102                          | 1.088                | 1.013 | -                              | -                   | -     |

| Band        | BW (MHz) | Mod. | RB Size | RB offset | Test Position | Freq. | Original Measured SAR 1g(W/kg) | 1 st Repeated SAR 1g | Ratio | Original Measured SAR 1g(W/kg) | 2nd Repeated SAR 1g | Ratio |
|-------------|----------|------|---------|-----------|---------------|-------|--------------------------------|----------------------|-------|--------------------------------|---------------------|-------|
| LTE Band 2  | 20M      | QPSK | 1       | 0         | Back Side     | 1860  | 1.174                          | 1.171                | 1.003 | -                              | -                   | -     |
|             |          |      | 1       | 0         | Back Side     | 1880  | 0.898                          | 0.875                | 1.026 | -                              | -                   | -     |
|             |          |      | 1       | 0         | Back Side     | 1900  | 0.906                          | 0.893                | 1.015 | -                              | -                   | -     |
|             |          |      | 50      | 0         | Back Side     | 1860  | 0.885                          | 0.853                | 1.038 | -                              | -                   | -     |
|             |          |      | 50      | 0         | Back Side     | 1880  | 0.762                          | 0.733                | 1.040 | -                              | -                   | -     |
|             |          |      | 50      | 0         | Back Side     | 1900  | 0.802                          | 0.766                | 1.047 | -                              | -                   | -     |
|             |          |      | 1       | 0         | Left Side     | 1860  | 1.010                          | 0.965                | 1.047 | -                              | -                   | -     |
|             |          |      | 1       | 0         | Left Side     | 1880  | 0.855                          | 0.815                | 1.049 | -                              | -                   | -     |
|             |          |      | 1       | 0         | Left Side     | 1900  | 0.863                          | 0.854                | 1.011 | -                              | -                   | -     |
| LTE Band 41 | 20M      | QPSK | 1       | 0         | Left Side     | 2506  | 0.882                          | 0.856                | 1.030 | -                              | -                   | -     |
|             |          |      | 1       | 0         | Left Side     | 2593  | 0.826                          | 0.817                | 1.011 | -                              | -                   | -     |
|             |          |      | 1       | 0         | Left Side     | 2680  | 0.910                          | 0.878                | 1.036 | -                              | -                   | -     |
|             |          |      | 50      | 0         | Left Side     | 2506  | 0.805                          | 0.776                | 1.037 | -                              | -                   | -     |
|             |          |      | 50      | 0         | Left Side     | 2593  | 0.756                          | 0.739                | 1.023 | -                              | -                   | -     |
|             |          |      | 50      | 0         | Left Side     | 2680  | 0.725                          | 0.696                | 1.042 | -                              | -                   | -     |

Note:

1. Per KDB 865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8W/Kg$ .
2. Per KDB 865664 D01, if the ratio of largest to smallest SAR for the original and first repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45W/Kg$ , only one repeated measurement is required.
3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$  or when the original or repeated measurement is  $\geq 1.45W/Kg$ .
4. The ratio is the difference in percentage between original and repeated measured SAR.

**Simultaneous Multi-band Transmission Evaluation:**

Application Simultaneous Transmission information:

| Position | Simultaneous State |
|----------|--------------------|
| Body     | 1. GSM + BLE       |
|          | 2. WCDMA + BLE     |
|          | 3. LTE + BLE       |

## NOTE:

1. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
2. The reported SAR summation is calculated based on the same configuration and test position.
3. KDB 447498 Appendix E, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$SAR_{est} = 1.6 \cdot P_{ant} / P_{th} \text{ [W/kg]}.$$

$P_{ant}$  is maximum time-averaged power or effective radiated power (ERP), whichever is greater, and  $P_{th}$  is defined in Formula KDB 447498 (B.2).

| Estimated SAR |      | Antenna to user(cm) | $P_{ant}$ | $P_{th}$ | Stand Alone SAR(1g) [W/kg] |
|---------------|------|---------------------|-----------|----------|----------------------------|
| BLE           | Body | ≤0.5                | 0.04      | 2.79     | 0.023                      |

| Simultaneous Mode | Position | Mode  | Max. 1-g SAR | 1-g Sum SAR |
|-------------------|----------|-------|--------------|-------------|
|                   |          |       | (W/kg)       | (W/kg)      |
| GSM + BLE         | Body     | GSM   | 0.875        | 0.898       |
|                   |          | BLE   | 0.023        |             |
| WCDMA + BLE       | Body     | WCDMA | 1.456        | 1.479       |
|                   |          | BLE   | 0.023        |             |
| LTE + BLE         | Body     | LTE   | 1.249        | 1.272       |
|                   |          | BLE   | 0.023        |             |

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.



## 12. Equipment List

| Kind of Equipment                     | Manufacturer | Type No.            | Serial No.               | Last Calibration | Calibrated Until |
|---------------------------------------|--------------|---------------------|--------------------------|------------------|------------------|
| 750MHz Dipole                         | MVG          | SID750              | SN 30/14<br>DIP0G750-331 | 2020.07.14       | 2023.07.13       |
| 835MHz Dipole                         | MVG          | SID835              | SN 30/14<br>DIP0G835-332 | 2020.07.14       | 2023.07.13       |
| 1800MHz Dipole                        | MVG          | SID1800             | SN 30/14<br>DIP1G800-329 | 2020.07.14       | 2023.07.13       |
| 1900MHz Dipole                        | MVG          | SID1900             | SN 30/14<br>DIP1G900-333 | 2020.07.14       | 2023.07.13       |
| 2600MHz Dipole                        | MVG          | SID2600             | SN 30/14<br>DIP2G600-336 | 2020.07.14       | 2023.07.13       |
| E-Field Probe                         | MVG          | SSE2                | SN 07/21<br>EPOG352      | 2023.02.24       | 2024.02.23       |
| Dielectric Probe Kit                  | MVG          | SCLMP               | SN 32/14<br>OCPG67       | 2022.11.15       | 2023.11.14       |
| Antenna                               | MVG          | ANTA3               | SN 07/13<br>ZNTA52       | N/A              | N/A              |
| Phantom1                              | MVG          | SAM                 | SN 32/14<br>SAM115       | N/A              | N/A              |
| Phantom3                              | MVG          | SAM                 | SN 21/21<br>ELLI48       | N/A              | N/A              |
| Phone holder                          | MVG          | N/A                 | SN 32/14<br>MSH97        | N/A              | N/A              |
| Laptop holder                         | MVG          | N/A                 | SN 32/14 LSH29           | N/A              | N/A              |
| Attenuator                            | Agilent      | 99899               | DC-18GHz                 | N/A              | N/A              |
| Directional coupler                   | Narda        | 4226-20             | 3305                     | N/A              | N/A              |
| Network Analyzer                      | Agilent      | 8753ES              | US38432810               | 2022.09.28       | 2023.09.27       |
| Multi Meter                           | Keithley     | Multi Meter<br>2000 | 4050073                  | 2022.09.29       | 2023.09.28       |
| Signal Generator                      | Agilent      | N5182A              | MY50140530               | 2022.09.28       | 2023.09.27       |
| Wireless<br>Communication Test<br>Set | Agilent      | 8960-E5515C         | MY48360751               | 2022.09.28       | 2023.09.27       |
| Wireless<br>Communication Test<br>Set | R&S          | CMW500              | 156324                   | 2022.09.29       | 2023.09.28       |
| Power Amplifier                       | DESAY        | ZHL-42W             | 9638                     | 2022.10.08       | 2023.10.07       |
| Power Meter                           | R&S          | NRP                 | 100510                   | 2022.09.28       | 2023.09.27       |
| Power Sensor                          | R&S          | NRP-Z11             | 101919                   | 2022.09.28       | 2023.09.27       |
| Power Sensor                          | Keysight     | U2021XA             | MY56280002               | 2022.09.29       | 2023.09.28       |
| Temperature<br>hygrometer             | SuWei        | SW-108              | N/A                      | 2022.09.30       | 2023.09.29       |
| Thermograph                           | Elitech      | RC-4                | S/N<br>EF7176501537      | 2022.09.30       | 2023.09.29       |



## Appendix A. System Validation Plots

### System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

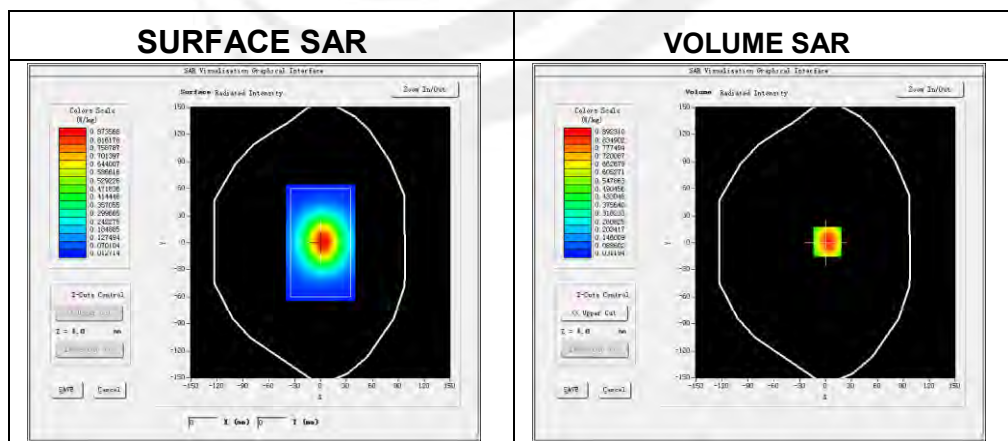
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2023-06-12

### Experimental conditions

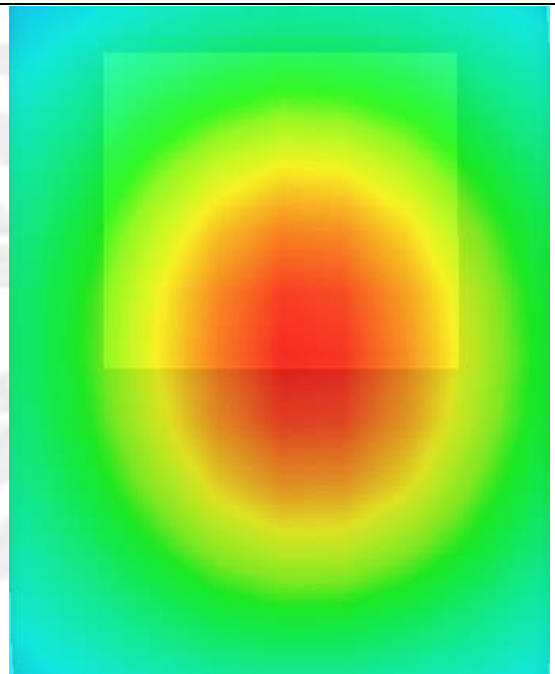
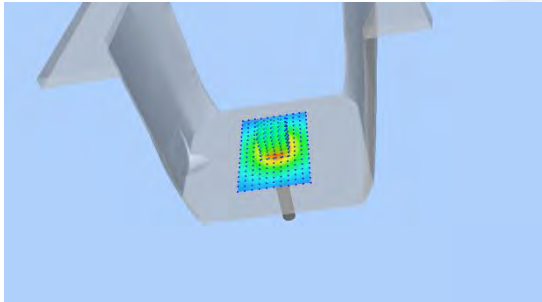
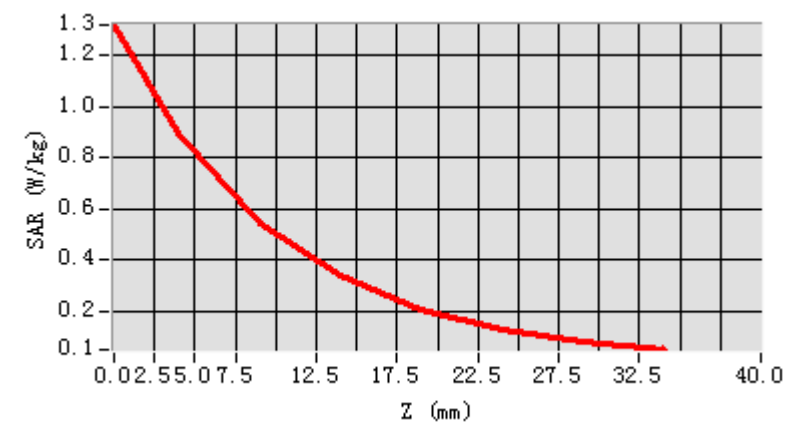
| Phantom               | Validation plane |
|-----------------------|------------------|
| Device Position       | -                |
| Band                  | 750MHz           |
| Channels              | -                |
| Signal                | CW               |
| Frequency (MHz)       | 750MHz           |
| Relative permittivity | 42.49            |
| Conductivity (S/m)    | 0.92             |
| Probe                 | SN 07/21 EPGO352 |
| ConvF                 | 1.58             |
| Crest factor          | 1:1              |



Maximum location: X=2.00, Y=1.00

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.561035 |
| SAR 1g (W/Kg)  | 0.830001 |

## Z Axis Scan





## System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

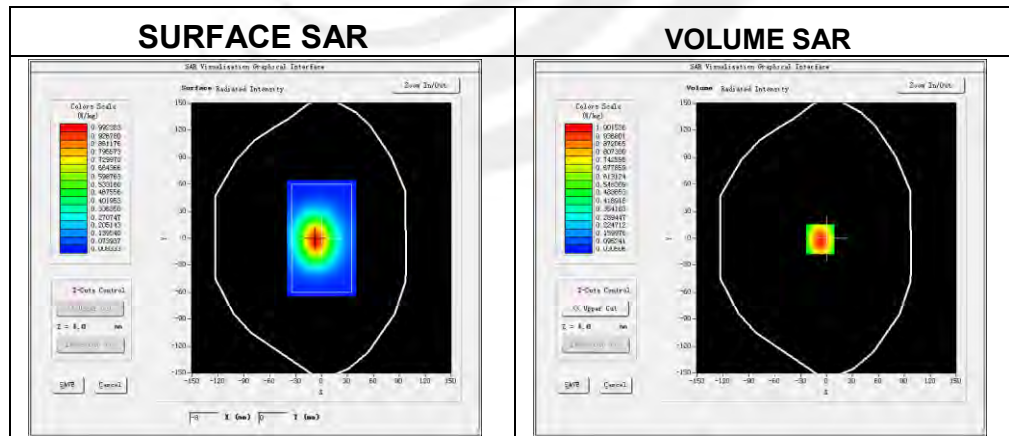
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2023-06-13

## Experimental conditions

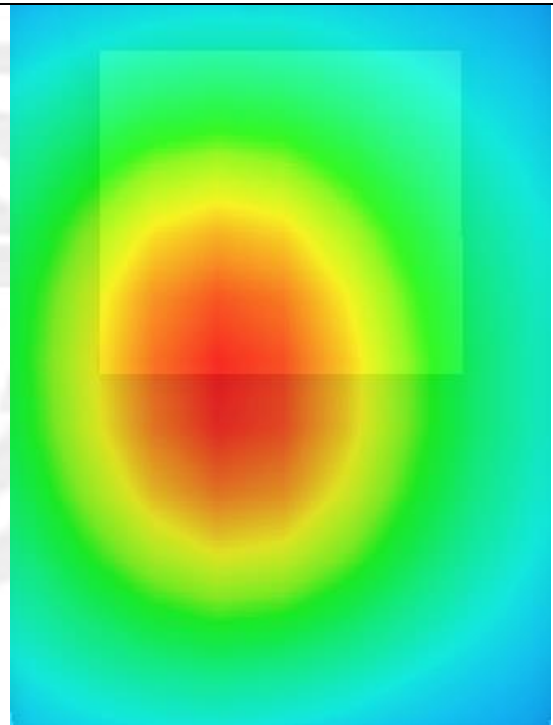
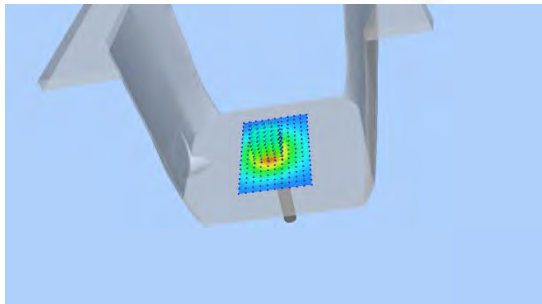
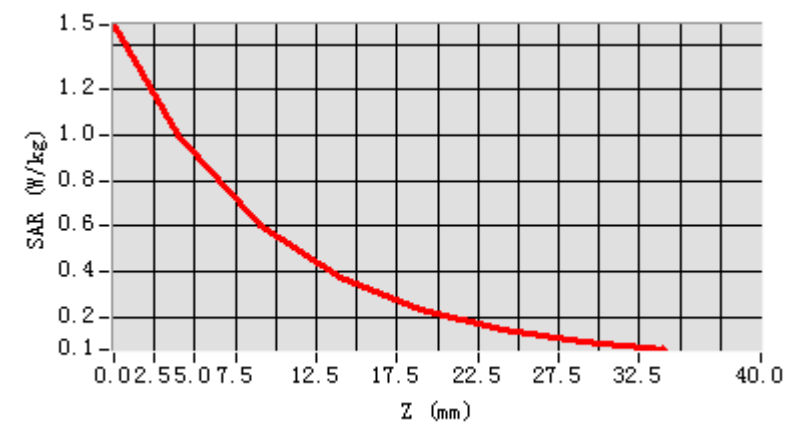
|                       |                  |
|-----------------------|------------------|
| Phantom               | Validation plane |
| Device Position       | -                |
| Band                  | 835MHz           |
| Channels              | -                |
| Signal                | CW               |
| Frequency (MHz)       | 835MHz           |
| Relative permittivity | 40.84            |
| Conductivity (S/m)    | 0.94             |
| Probe                 | SN 07/21 EPG0352 |
| ConvF:                | 1.57             |
| Crest factor:         | 1:1              |



Maximum location: X=-6.00, Y=-2.00

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.616917 |
| SAR 1g (W/Kg)  | 0.974759 |

## Z Axis Scan



**System Performance Check Data(1800MHz)**

Type: Phone measurement (Complete)

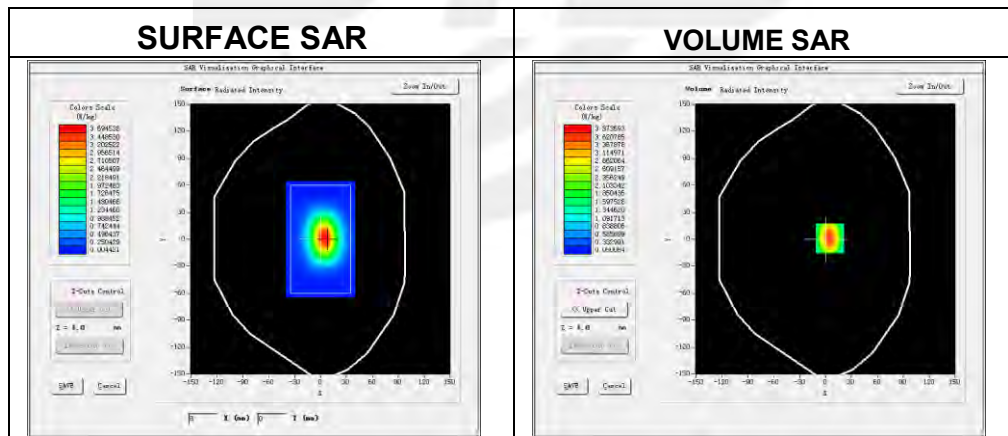
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2023-06-14

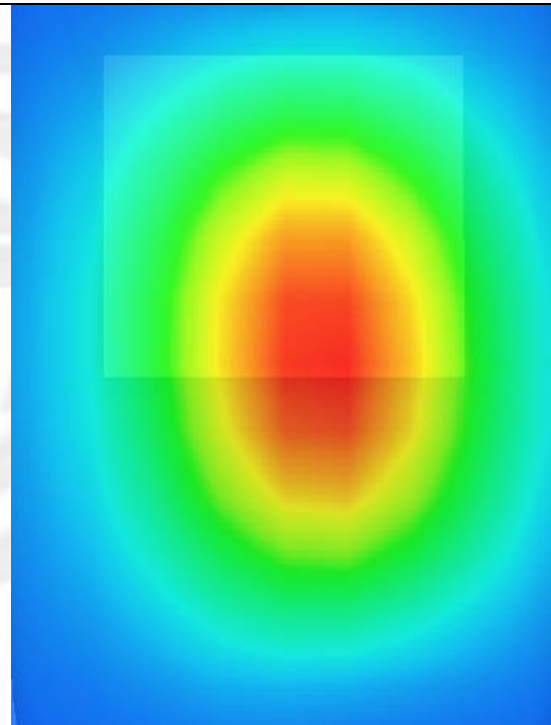
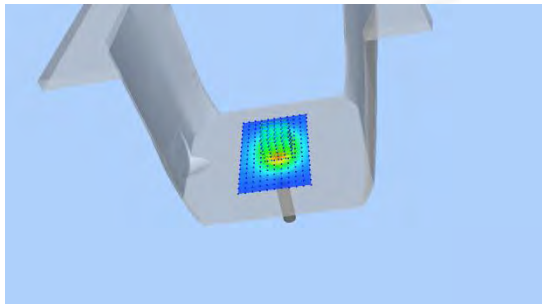
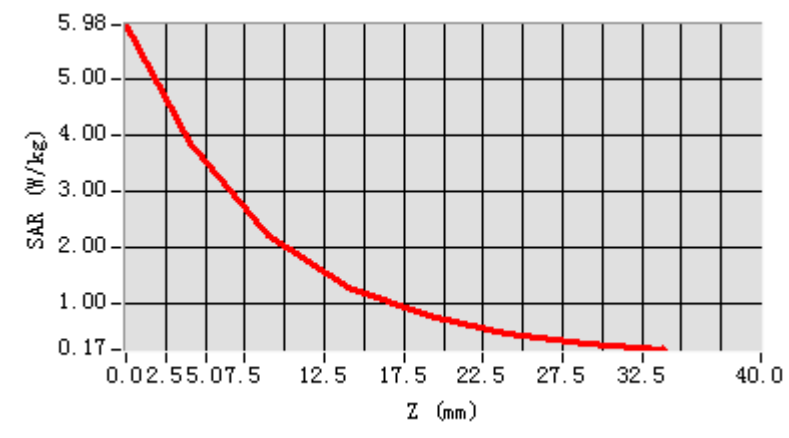
**Experimental conditions.**

|                       |                  |
|-----------------------|------------------|
| Phantom               | Validation plane |
| Device Position       | -                |
| Band                  | 1800MHz          |
| Channels              | -                |
| Signal                | CW               |
| Frequency (MHz)       | 1800MHz          |
| Relative permittivity | 40.59            |
| Conductivity (S/m)    | 1.34             |
| Probe                 | SN 07/21 EPG0352 |
| ConvF                 | 1.60             |
| Crest factor:         | 1:1              |

**Maximum location: X=2.00, Y=-3.00**

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 1.981217 |
| SAR 1g (W/Kg)  | 3.862318 |

## Z Axis Scan



**System Performance Check Data (1900MHz)**

Type: Phone measurement (Complete)

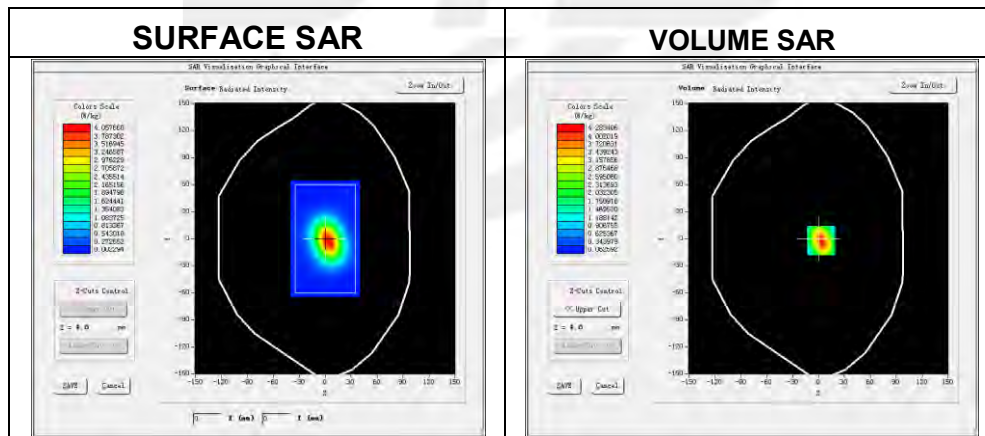
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2023-06-15

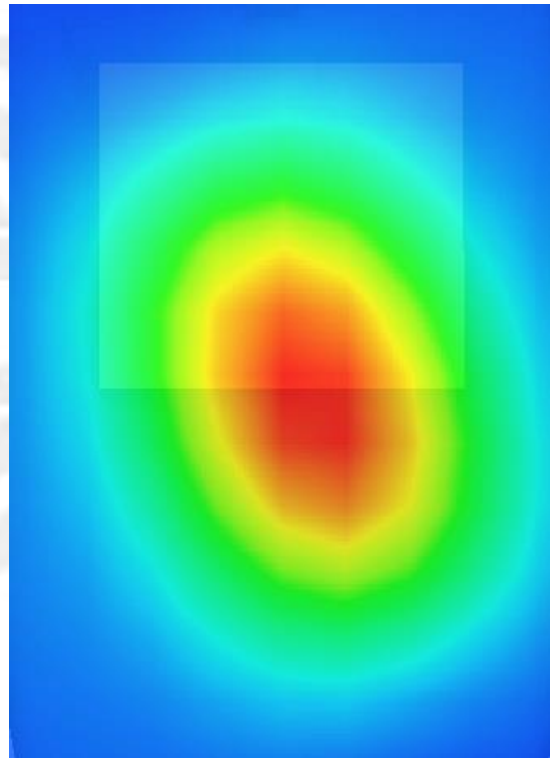
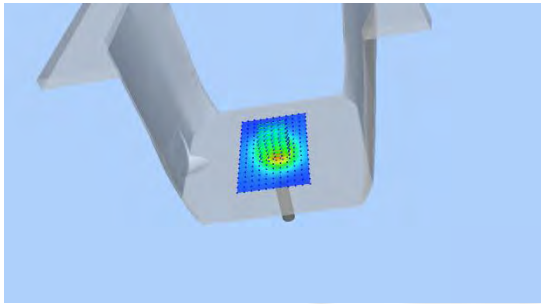
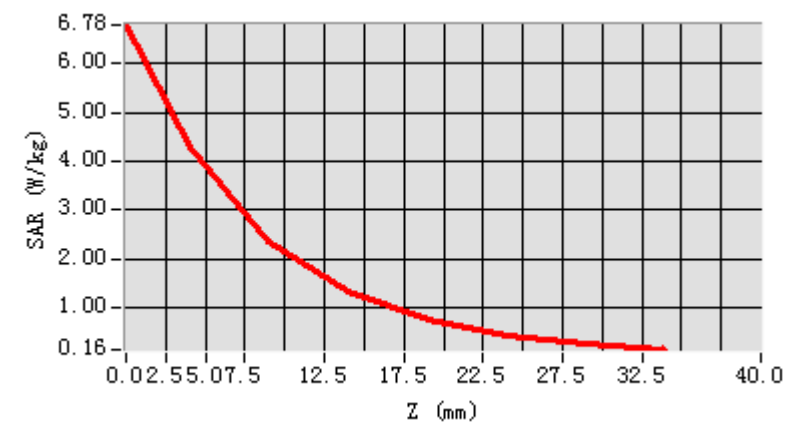
**Experimental conditions.**

| Phantom               | Validation plane |
|-----------------------|------------------|
| Device Position       | -                |
| Band                  | 1900MHz          |
| Channels              | -                |
| Signal                | CW               |
| Frequency (MHz)       | 1900MHz          |
| Relative permittivity | 40.48            |
| Conductivity (S/m)    | 1.37             |
| Probe                 | SN 07/21 EPGO352 |
| ConvF:                | 1.78             |
| Crest factor:         | 1:1              |

**Maximum location: X=5.00, Y=-3.00**

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 1.881632 |
| SAR 1g (W/Kg)  | 4.118618 |

## Z Axis Scan



**System Performance Check Data (2600MHz)**

Type: Phone measurement (Complete)

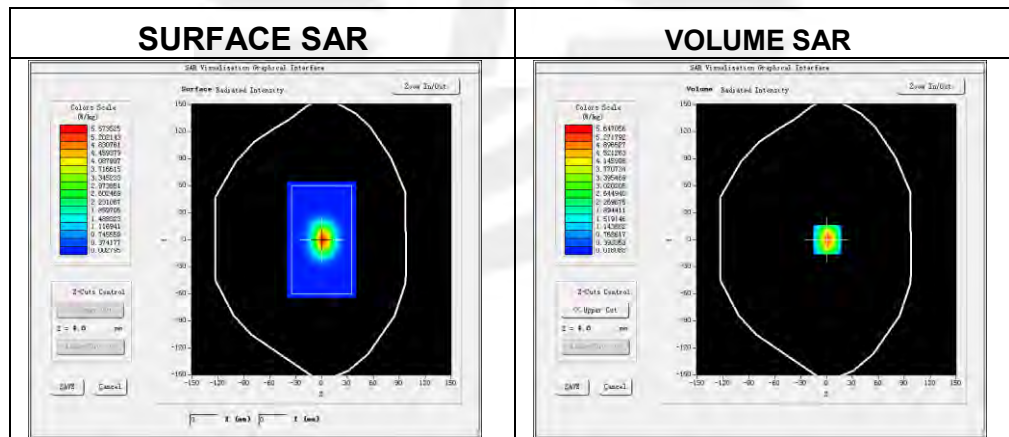
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2023-06-16

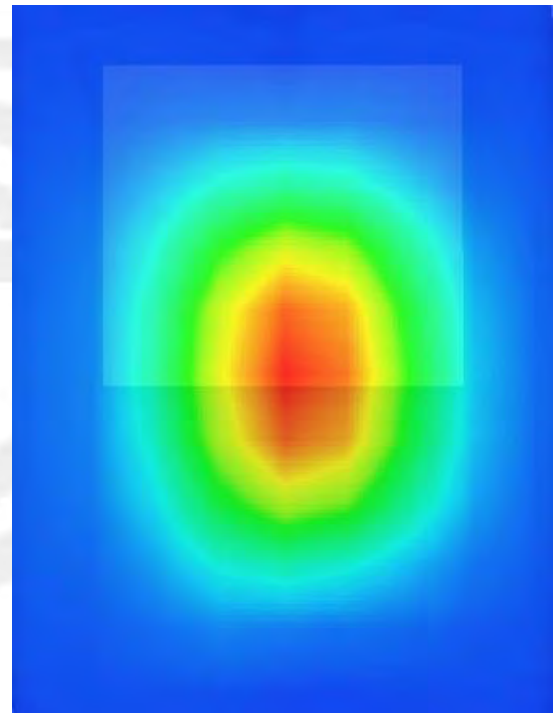
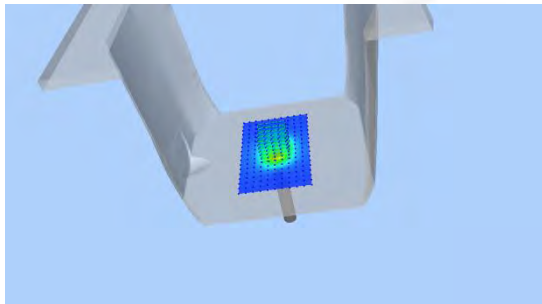
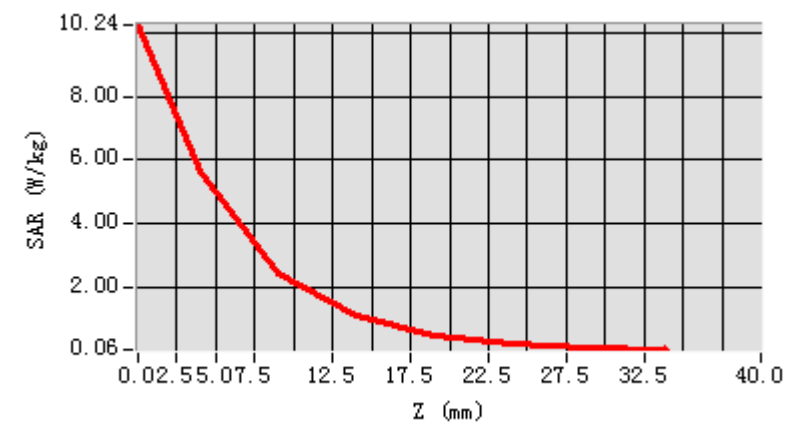
**Experimental conditions.**

|                       |                  |
|-----------------------|------------------|
| Device Position       | Validation plane |
| Band                  | 2600 MHz         |
| Channels              | -                |
| Signal                | CW               |
| Frequency (MHz)       | 2600             |
| Relative permittivity | 39.84            |
| Conductivity (S/m)    | 1.95             |
| Probe                 | SN 07/21 EPGO352 |
| ConvF                 | 1.63             |
| Crest factor:         | 1:1              |

**Maximum location: X=3.00, Y=-1.00**

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 2.334172 |
| SAR 1g (W/Kg)  | 5.698354 |

## Z Axis Scan



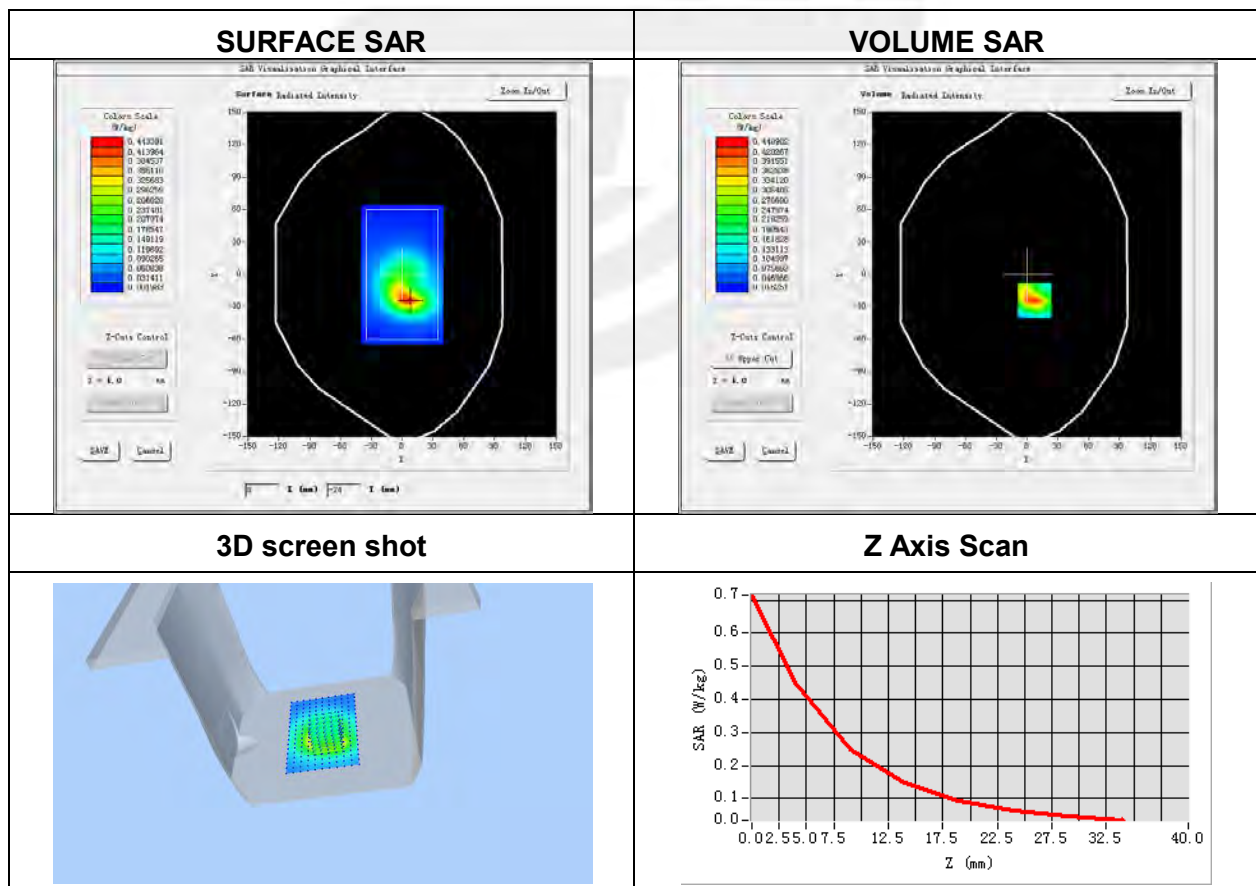
**Appendix B. SAR Test Plots****Plot 1: DUT: GPS Tracker; EUT Model: TRKM010B**

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Test Date                         | 2023-06-13                                                             |
| Probe                             | SN 07/21 EPGO352                                                       |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                             |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm,<br>Complete/ndx=8mm, dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane                                                       |
| Device Position                   | Back Side                                                              |
| Band                              | GPRS 850                                                               |
| Signal                            | Duty Cycle: 2.00 (Crest factor: 2.0)                                   |
| Frequency (MHz)                   | 824.2                                                                  |
| Relative permittivity (real part) | 41.79                                                                  |
| Conductivity (S/m)                | 0.92                                                                   |

Maximum location: X=7.00, Y=-24.00

SAR Peak: 0.72 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.210349 |
| SAR 1g (W/Kg)  | 0.411643 |





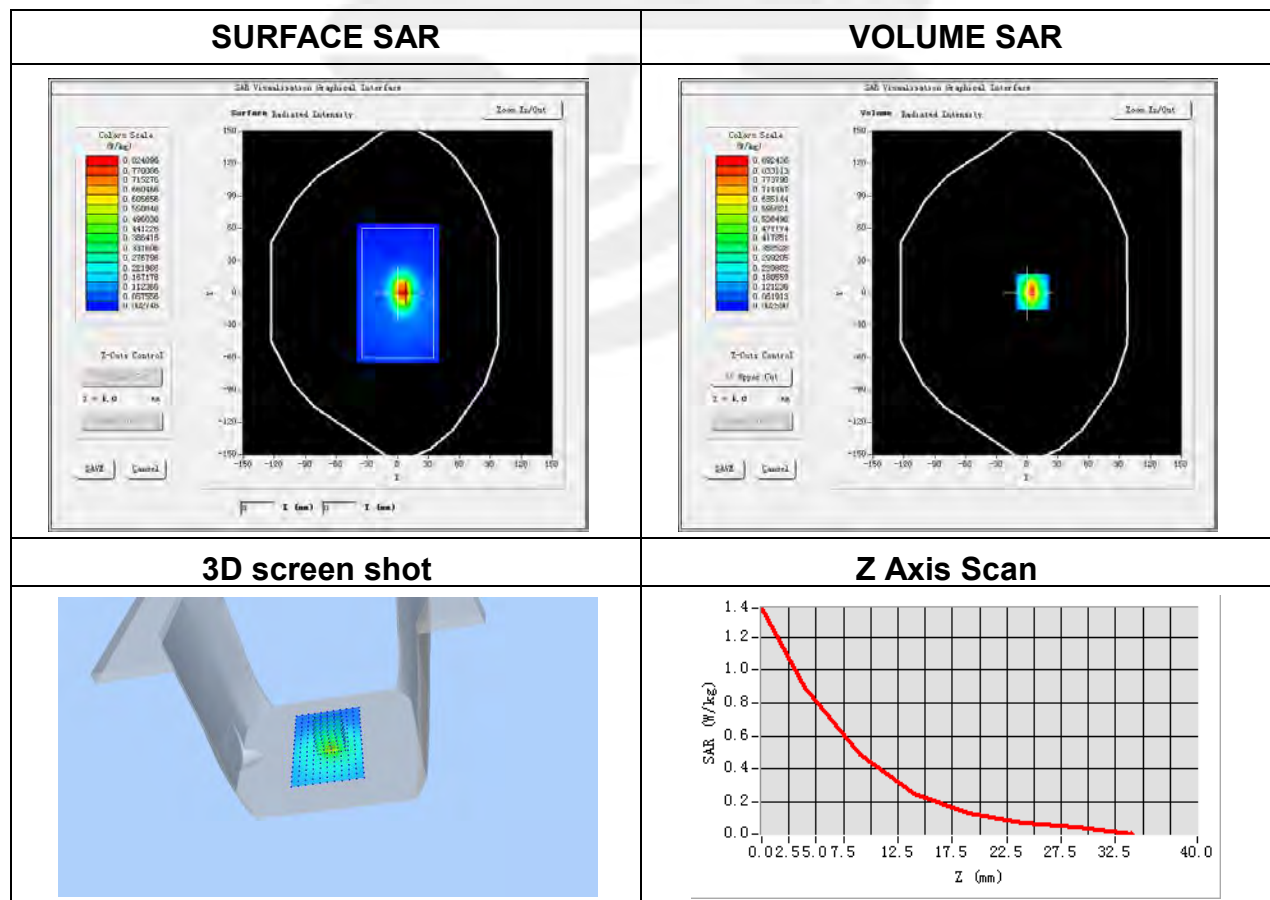
# Plot 2: DUT: GPS Tracker; EUT Model: TRKM010B

|                                   |                                                                     |
|-----------------------------------|---------------------------------------------------------------------|
| Test Date                         | 2023-06-15                                                          |
| Probe                             | SN 07/21 EPG0352                                                    |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                          |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane                                                    |
| Device Position                   | Left Side                                                           |
| Band                              | GPRS 1900                                                           |
| Signal                            | Duty Cycle: 2.00 (Crest factor: 2.0)                                |
| Frequency (MHz)                   | 1880                                                                |
| Relative permittivity (real part) | 39.79                                                               |
| Conductivity (S/m)                | 1.38                                                                |

Maximum location: X=5.00, Y=1.00

SAR Peak: 1.40 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.341011 |
| SAR 1g (W/Kg)  | 0.782294 |



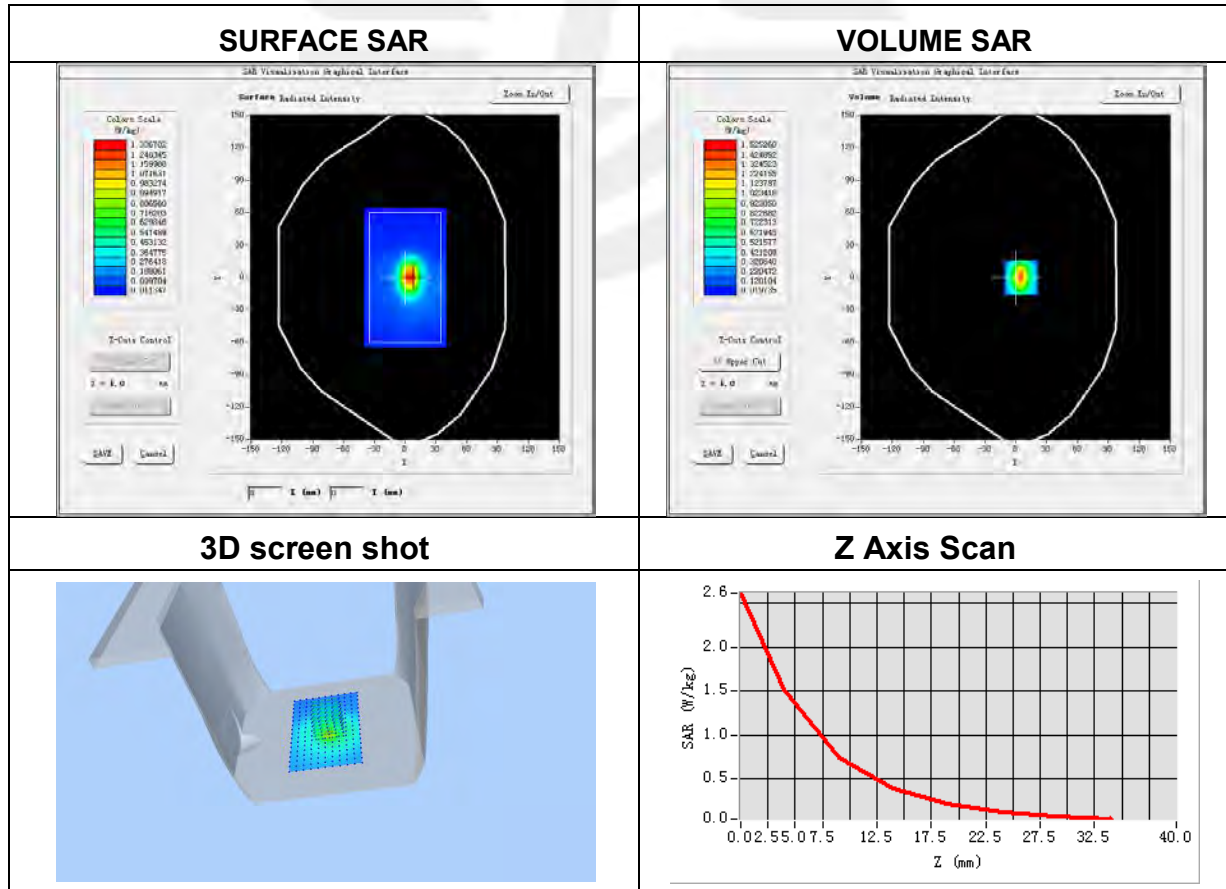
**Plot 3: DUT: GPS Tracker; EUT Model: TRKM010B**

|                                   |                                                                           |
|-----------------------------------|---------------------------------------------------------------------------|
| Test Date                         | 2023-06-15                                                                |
| Probe                             | SN 07/21 EPG0352                                                          |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                                |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm,<br>Complete/ndx=8mm, dy=8mm, h= 5.00<br>mm |
| Phantom                           | Validation plane                                                          |
| Device Position                   | Left Edge                                                                 |
| Band                              | WCDMA II                                                                  |
| Signal                            | WCDMA (Crest factor: 1.0)                                                 |
| Frequency (MHz)                   | 1852.4                                                                    |
| Relative permittivity (real part) | 40.75                                                                     |
| Conductivity (S/m)                | 1.39                                                                      |

Maximum location: X=5.00, Y=0.00

SAR Peak: 2.59 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.556568 |
| SAR 1g (W/Kg)  | 1.352524 |





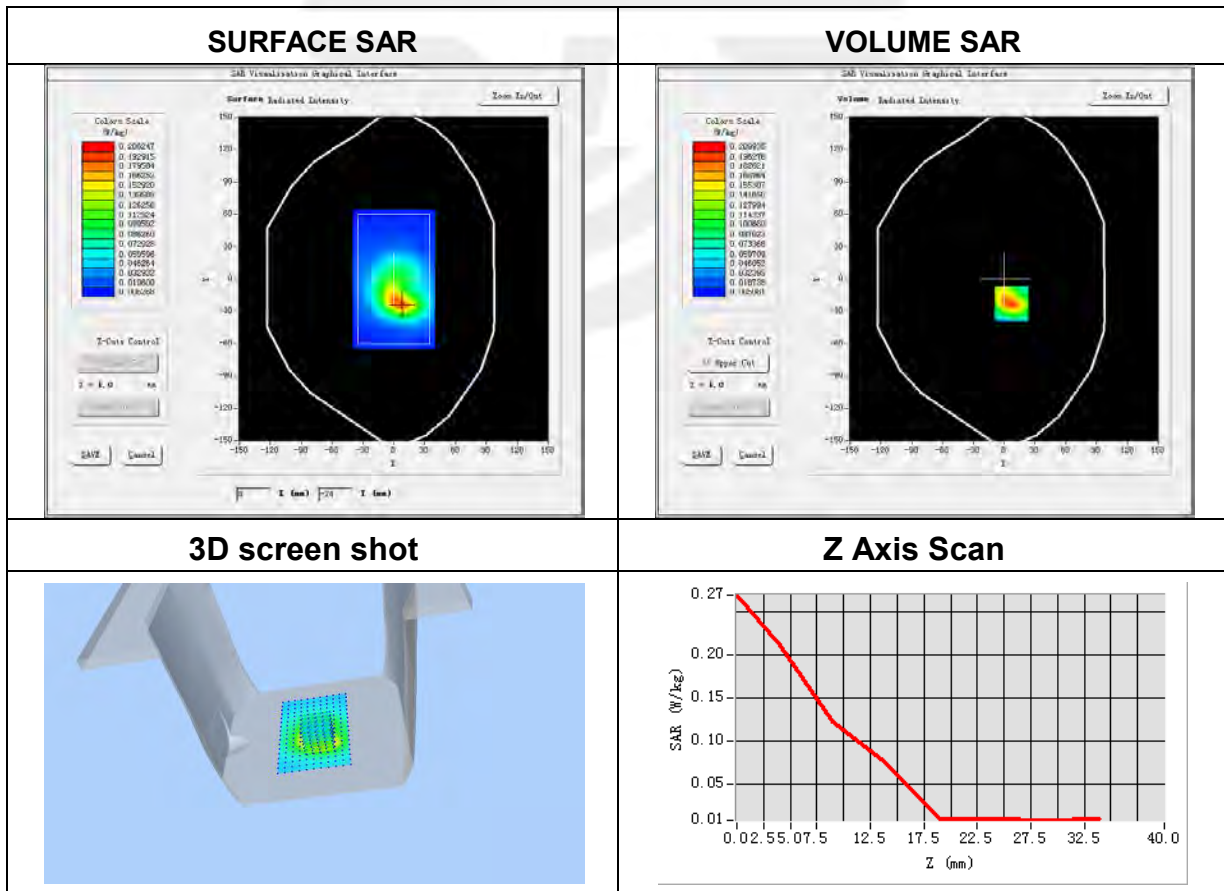
#### Plot 4: DUT: GPS Tracker; EUT Model: TRKM010B

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Test Date                         | 2023-06-13                                                             |
| Probe                             | SN 07/21 EPGO352                                                       |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                             |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm,<br>Complete/ndx=8mm, dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane                                                       |
| Device Position                   | Back Side                                                              |
| Band                              | WCDMA V                                                                |
| Signal                            | WCDMA (Crest factor: 1.0)                                              |
| Frequency (MHz)                   | 846.6                                                                  |
| Relative permittivity (real part) | 40.74                                                                  |
| Conductivity (S/m)                | 0.88                                                                   |

Maximum location: X=7.00, Y=-23.00

SAR Peak: 0.28 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.091687 |
| SAR 1g (W/Kg)  | 0.181181 |



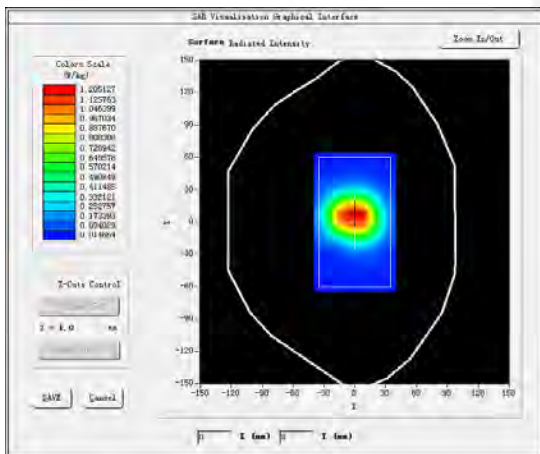
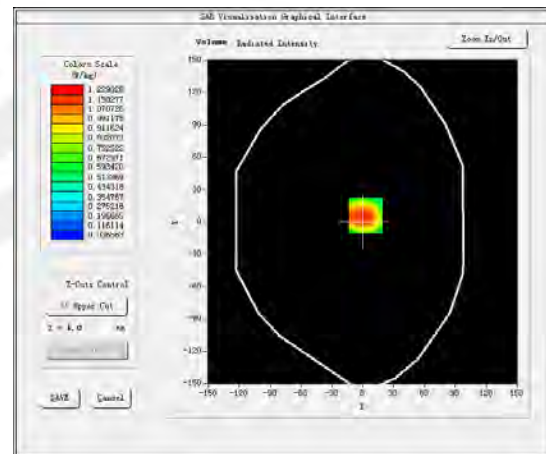
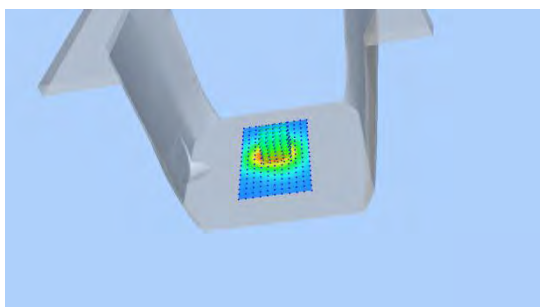
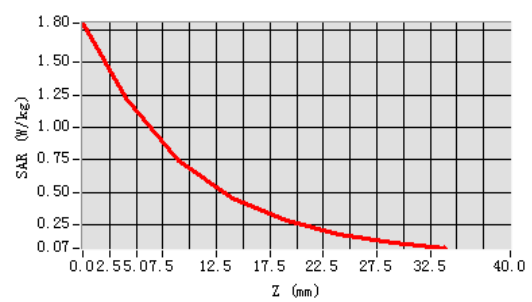
**Plot 5: DUT: GPS Tracker; EUT Model: TRKM010B**

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Test Date                         | 2023-06-15                                                             |
| Probe                             | SN 07/21 EPGO352                                                       |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                             |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm,<br>Complete/ndx=8mm, dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane                                                       |
| Device Position                   | Back Side                                                              |
| Band                              | LTE Band 2(RB 1)                                                       |
| Signal                            | LTE (Crest factor: 1.0)                                                |
| Frequency (MHz)                   | 1860                                                                   |
| Relative permittivity (real part) | 40.79                                                                  |
| Conductivity (S/m)                | 1.42                                                                   |

Maximum location: X=3.00, Y=6.00

SAR Peak: 1.80 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.676765 |
| SAR 1g (W/Kg)  | 1.174346 |

**SURFACE SAR****VOLUME SAR****3D screen shot****Z Axis Scan**



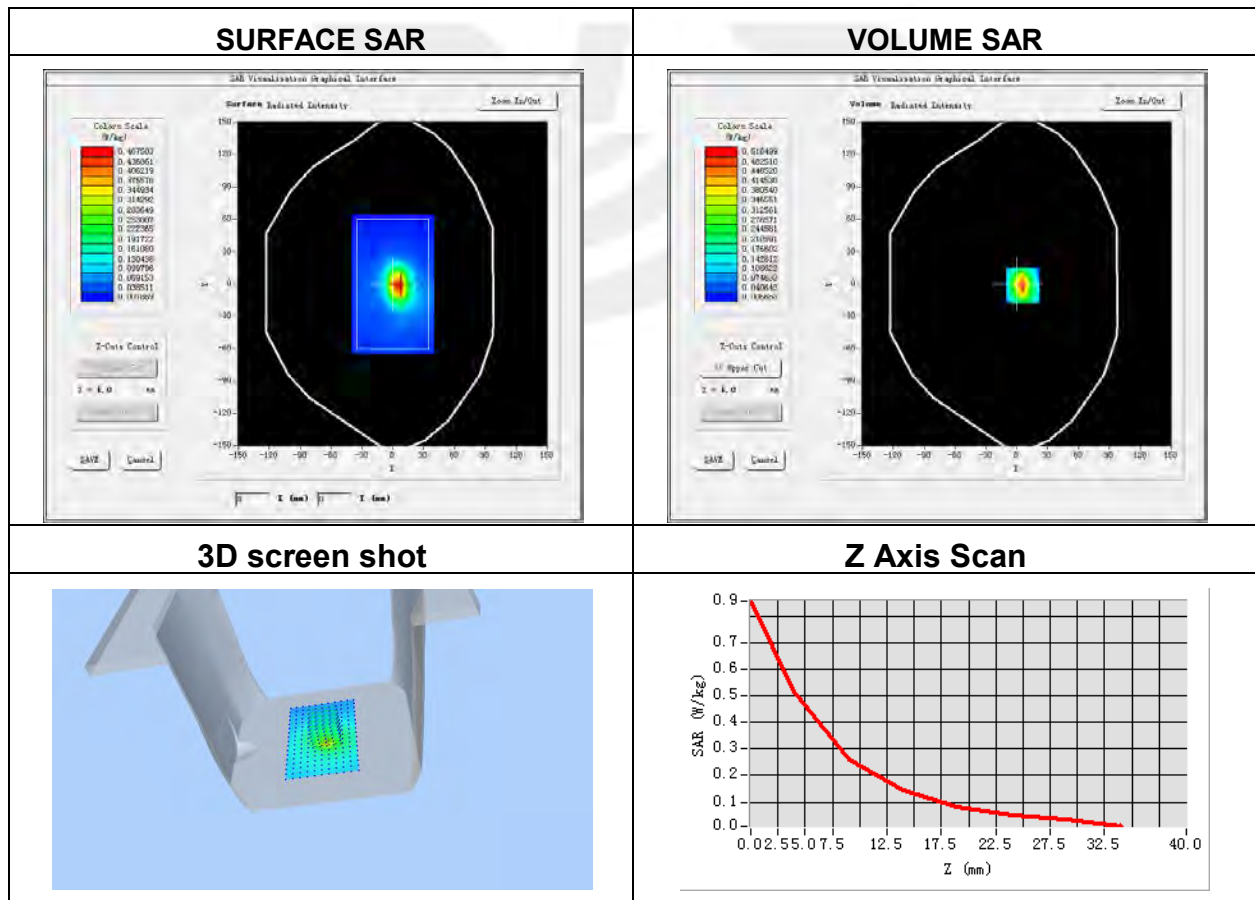
# Plot 6: DUT: GPS Tracker; EUT Model: TRKM010B

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Test Date                         | 2023-06-14                                                             |
| Probe                             | SN 07/21 EPGO352                                                       |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                             |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm,<br>Complete/ndx=8mm, dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane                                                       |
| Device Position                   | Left Side                                                              |
| Band                              | LTE Band 4 (RB 1)                                                      |
| Signal                            | LTE (Crest factor: 1.0)                                                |
| Frequency (MHz)                   | 1732.5                                                                 |
| Relative permittivity (real part) | 40.39                                                                  |
| Conductivity (S/m)                | 1.37                                                                   |

Maximum location: X=6.00, Y=-1.00

SAR Peak: 0.86 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.206854 |
| SAR 1g (W/Kg)  | 0.463835 |



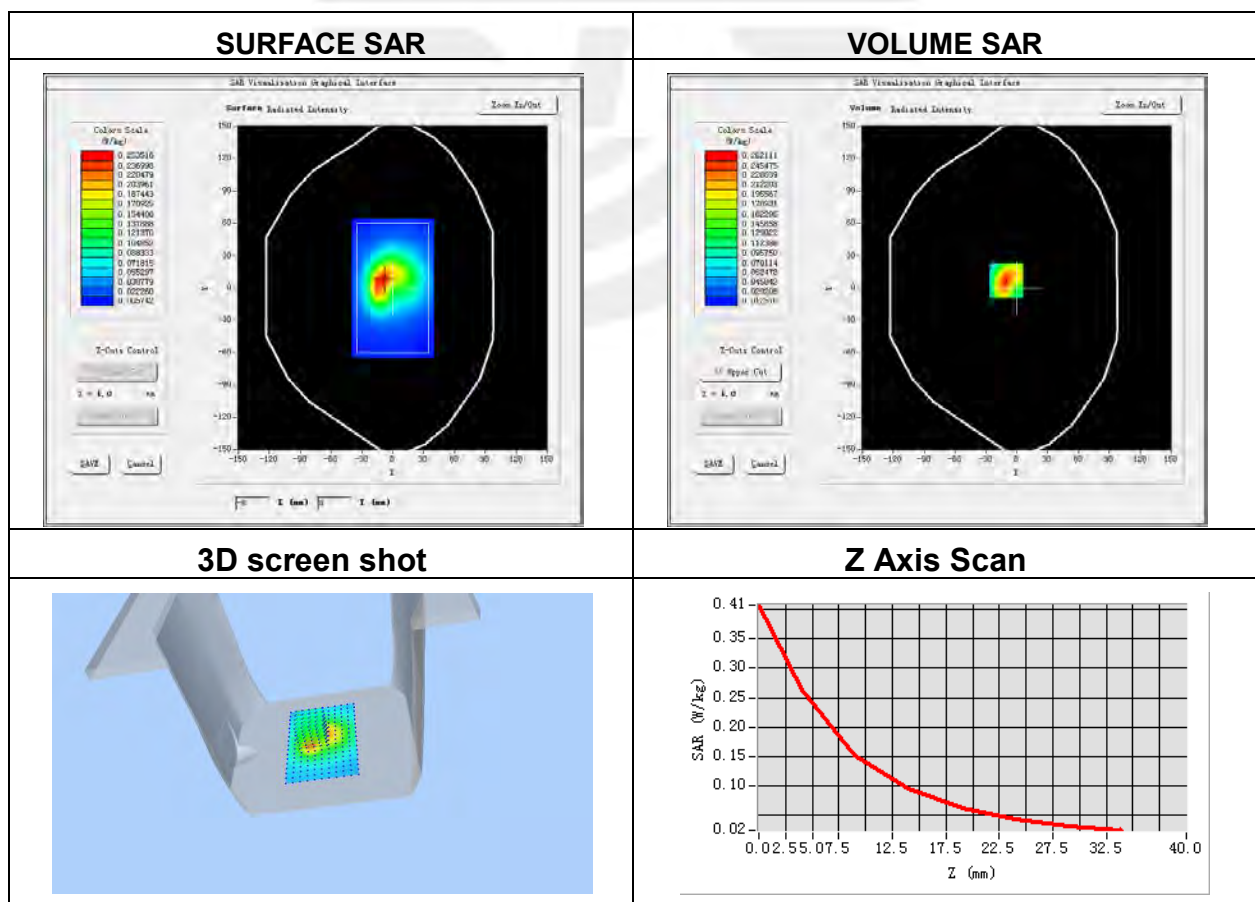
**Plot 7: DUT: GPS Tracker; EUT Model: TRKM010B**

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Test Date                         | 2023-06-13                                                             |
| Probe                             | SN 07/21 EPGO352                                                       |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                             |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm,<br>Complete/ndx=8mm, dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane                                                       |
| Device Position                   | Back Side                                                              |
| Band                              | LTE Band 5 (RB 1)                                                      |
| Signal                            | LTE (Crest factor: 1.0)                                                |
| Frequency (MHz)                   | 844                                                                    |
| Relative permittivity (real part) | 41.05                                                                  |
| Conductivity (S/m)                | 0.89                                                                   |

Maximum location: X=-10.00, Y=7.00

SAR Peak: 0.41 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.134234 |
| SAR 1g (W/Kg)  | 0.248298 |



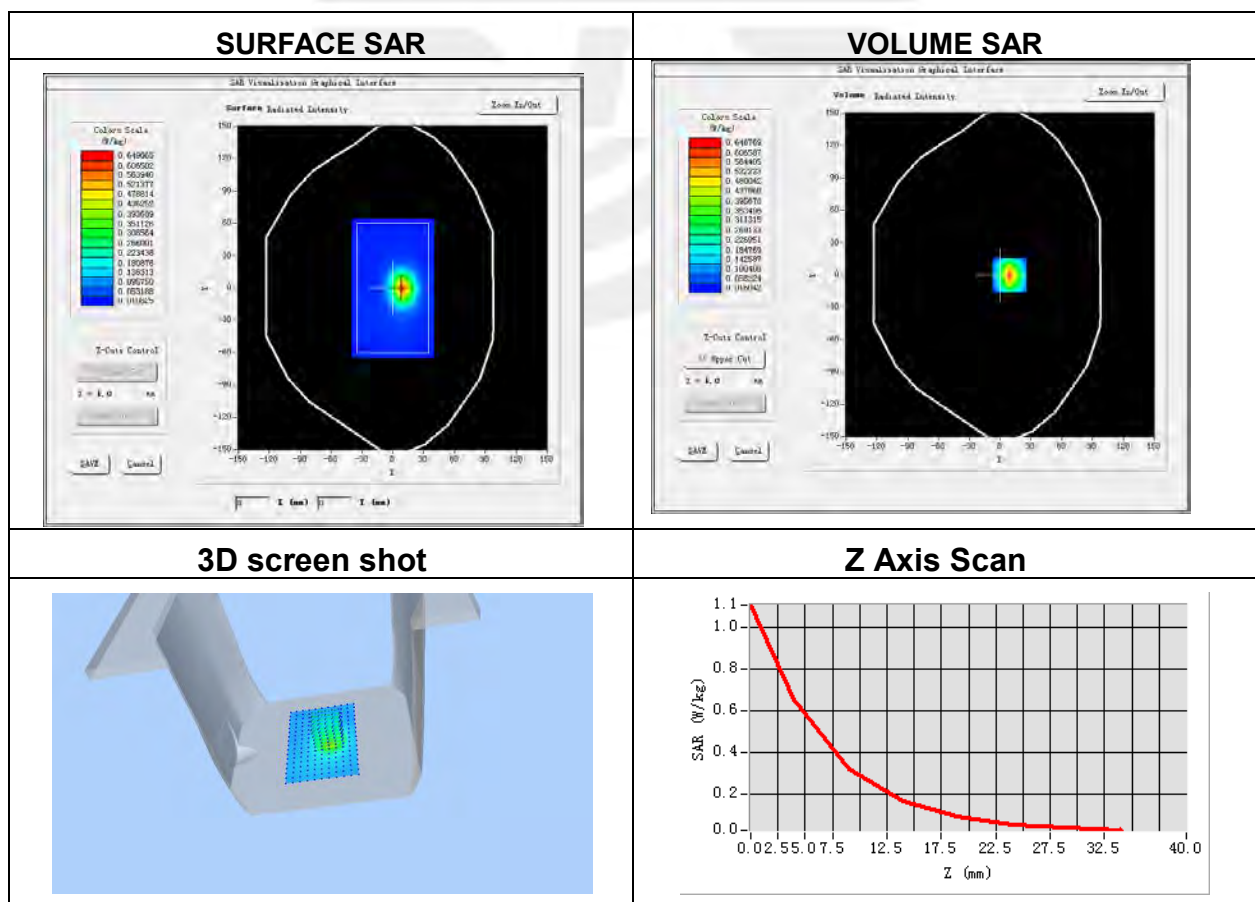
**Plot 8: DUT: GPS Tracker; EUT Model: TRKM010B**

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Test Date                         | 2023-06-16                                                             |
| Probe                             | SN 07/21 EPGO352                                                       |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                             |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm,<br>Complete/ndx=8mm, dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane                                                       |
| Device Position                   | Left Side                                                              |
| Band                              | LTE Band 7 (RB 1)                                                      |
| Signal                            | LTE (Crest factor: 1.0)                                                |
| Frequency (MHz)                   | 2535                                                                   |
| Relative permittivity (real part) | 40.07                                                                  |
| Conductivity (S/m)                | 1.87                                                                   |

Maximum location: X=9.00, Y=0.00

SAR Peak: 1.09 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.237161 |
| SAR 1g (W/Kg)  | 0.567014 |



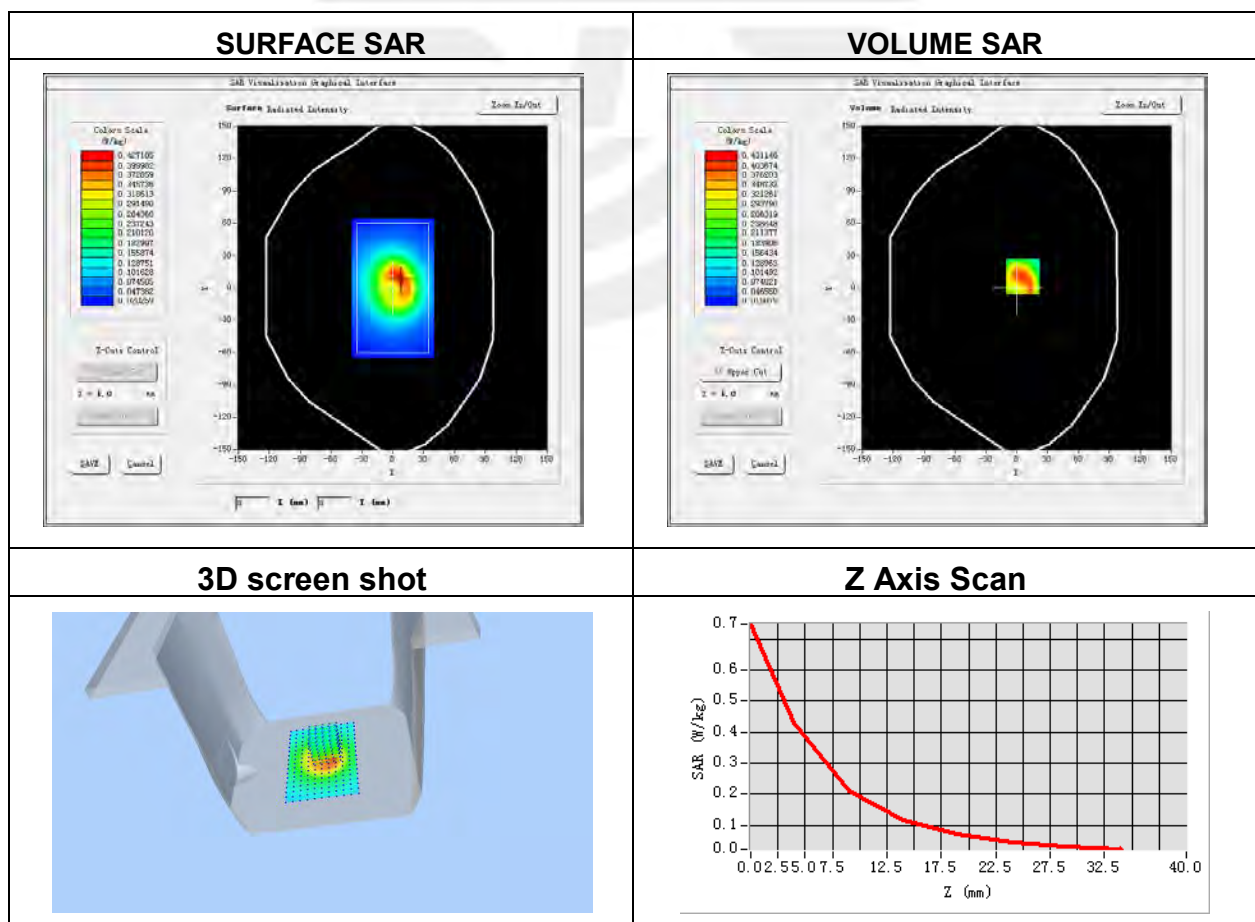
**Plot 9: DUT: GPS Tracker; EUT Model: TRKM010B**

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Test Date                         | 2023-06-12                                                             |
| Probe                             | SN 07/21 EPGO352                                                       |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                             |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm,<br>Complete/ndx=8mm, dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane                                                       |
| Device Position                   | Left Side                                                              |
| Band                              | LTE Band 12 (RB 1)                                                     |
| Signal                            | LTE (Crest factor: 1.0)                                                |
| Frequency (MHz)                   | 707.5                                                                  |
| Relative permittivity (real part) | 42.29                                                                  |
| Conductivity (S/m)                | 0.86                                                                   |

Maximum location: X=6.00, Y=11.00

SAR Peak: 0.75 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.216264 |
| SAR 1g (W/Kg)  | 0.423249 |



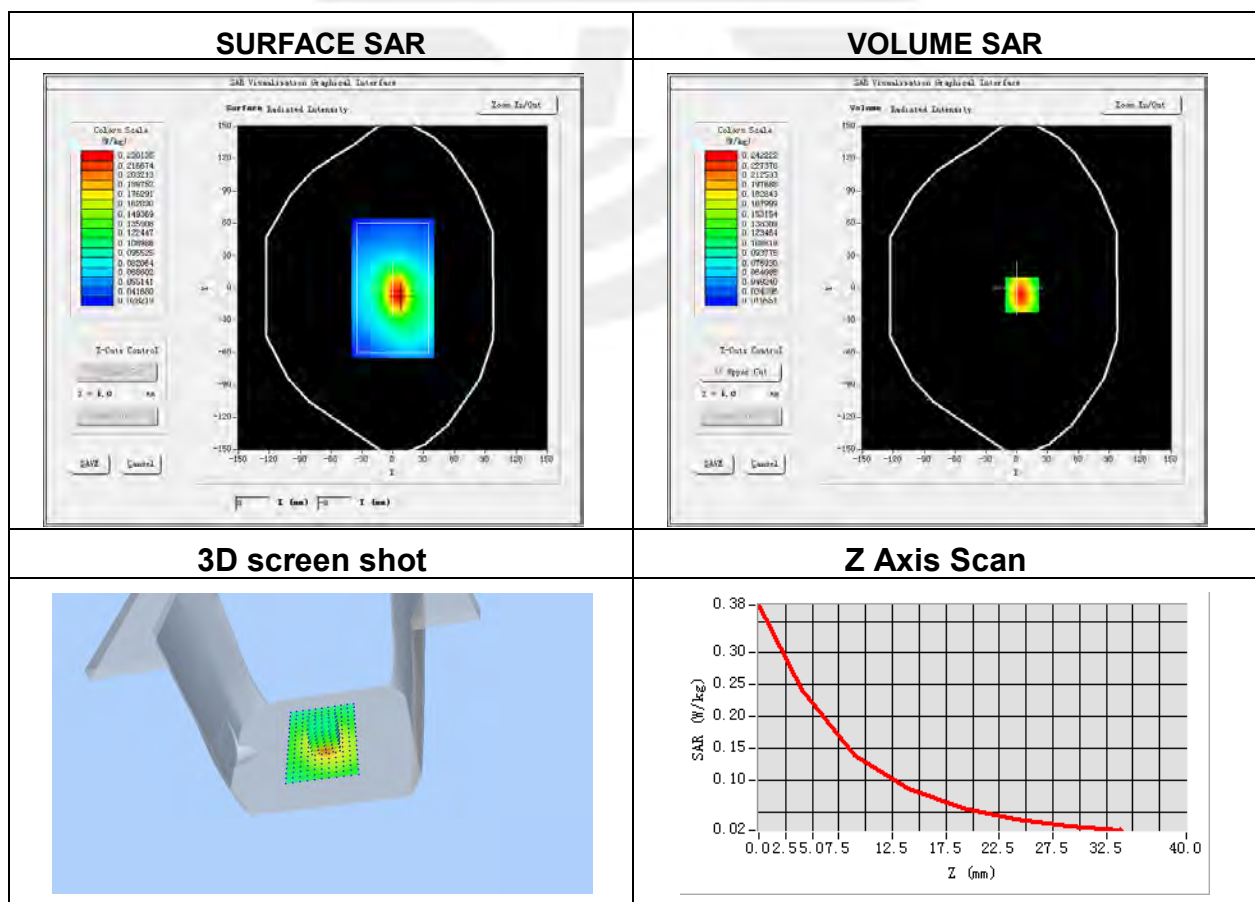
**Plot 10: DUT: GPS Tracker; EUT Model: TRKM010B**

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Test Date                         | 2023-06-12                                                             |
| Probe                             | SN 07/21 EPGO352                                                       |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                             |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm,<br>Complete/ndx=8mm, dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane                                                       |
| Device Position                   | Left Side                                                              |
| Band                              | LTE Band 17 (RB 1)                                                     |
| Signal                            | LTE (Crest factor: 1.0)                                                |
| Frequency (MHz)                   | 711                                                                    |
| Relative permittivity (real part) | 42.34                                                                  |
| Conductivity (S/m)                | 0.87                                                                   |

Maximum location: X=5.00, Y=-6.00

SAR Peak: 0.38 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.132242 |
| SAR 1g (W/Kg)  | 0.234259 |



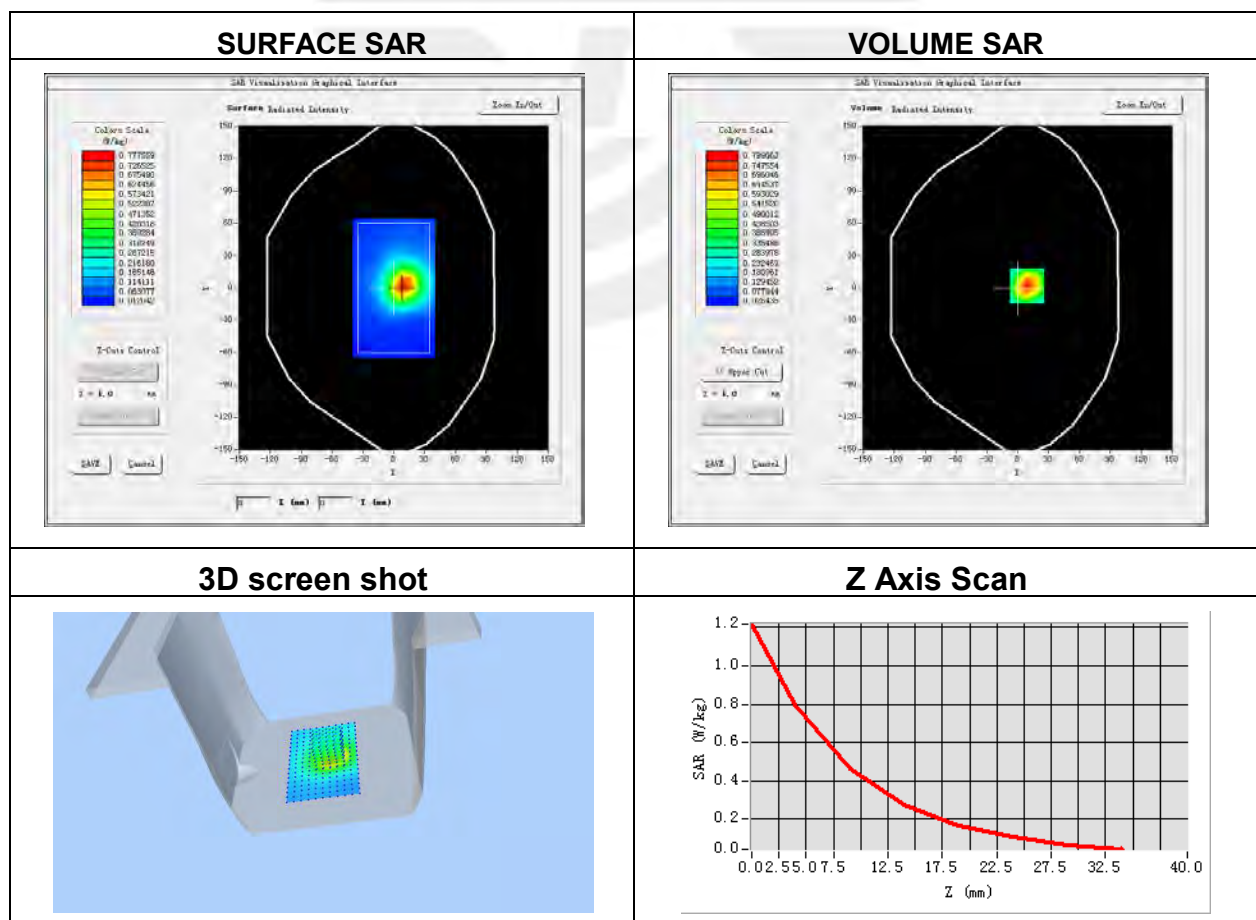
**Plot 11: DUT: GPS Tracker; EUT Model: TRKM010B**

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Test Date                         | 2023-06-15                                                             |
| Probe                             | SN 07/21 EPGO352                                                       |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                             |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm,<br>Complete/ndx=8mm, dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane                                                       |
| Device Position                   | Top Side                                                               |
| Band                              | LTE Band 25 (RB 1)                                                     |
| Signal                            | LTE (Crest factor: 1.0)                                                |
| Frequency (MHz)                   | 1905                                                                   |
| Relative permittivity (real part) | 40.36                                                                  |
| Conductivity (S/m)                | 1.44                                                                   |

Maximum location: X=9.00, Y=2.00

SAR Peak: 1.23 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.395220 |
| SAR 1g (W/Kg)  | 0.746667 |



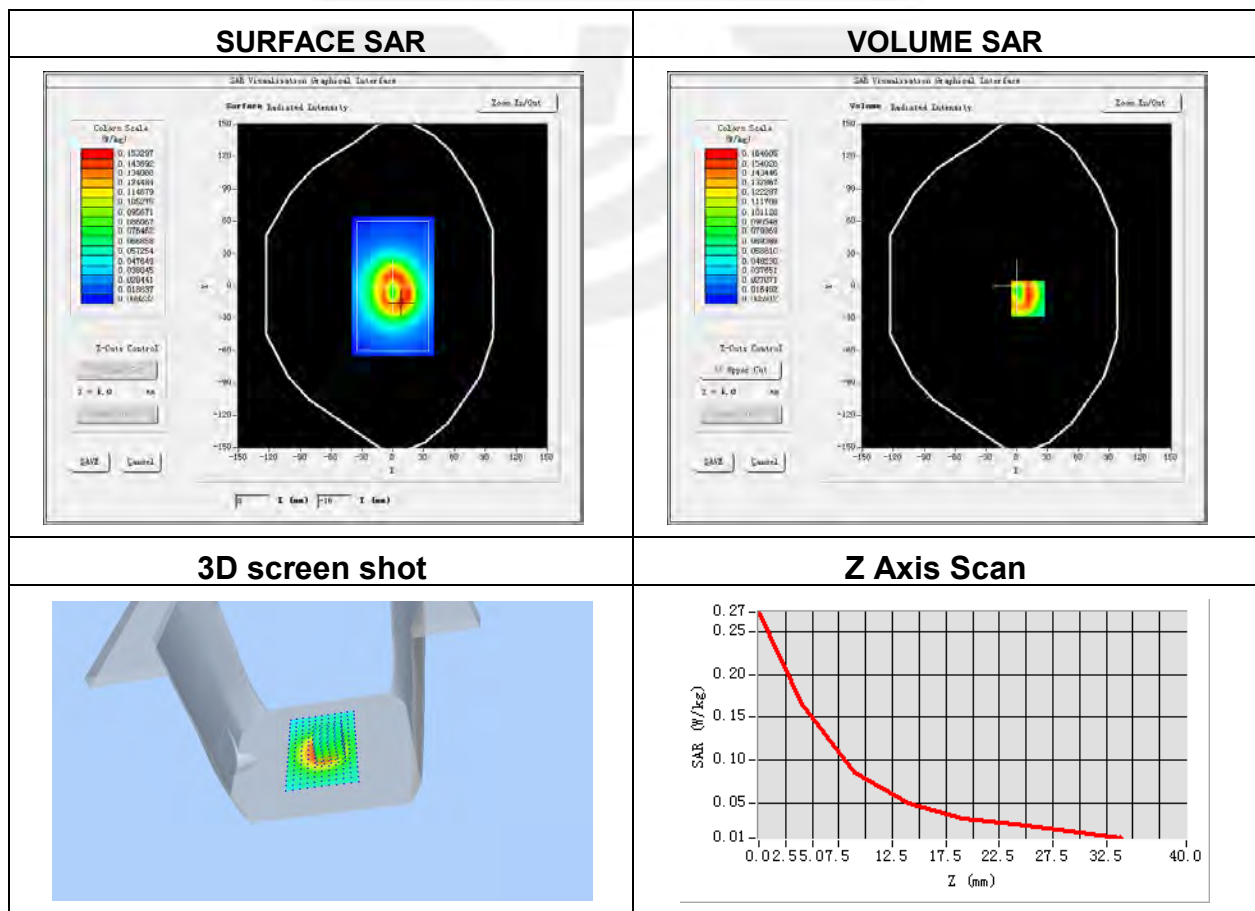
**Plot 12: DUT: GPS Tracker; EUT Model: TRKM010B**

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Test Date                         | 2023-06-13                                                             |
| Probe                             | SN 07/21 EPGO352                                                       |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                             |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm,<br>Complete/ndx=8mm, dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane                                                       |
| Device Position                   | Left Side                                                              |
| Band                              | LTE Band 26 (RB 1)                                                     |
| Signal                            | LTE (Crest factor: 1.0)                                                |
| Frequency (MHz)                   | 841.5                                                                  |
| Relative permittivity (real part) | 42.16                                                                  |
| Conductivity (S/m)                | 0.91                                                                   |

Maximum location: X=11.00, Y=-12.00

SAR Peak: 0.28 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.079741 |
| SAR 1g (W/Kg)  | 0.151865 |



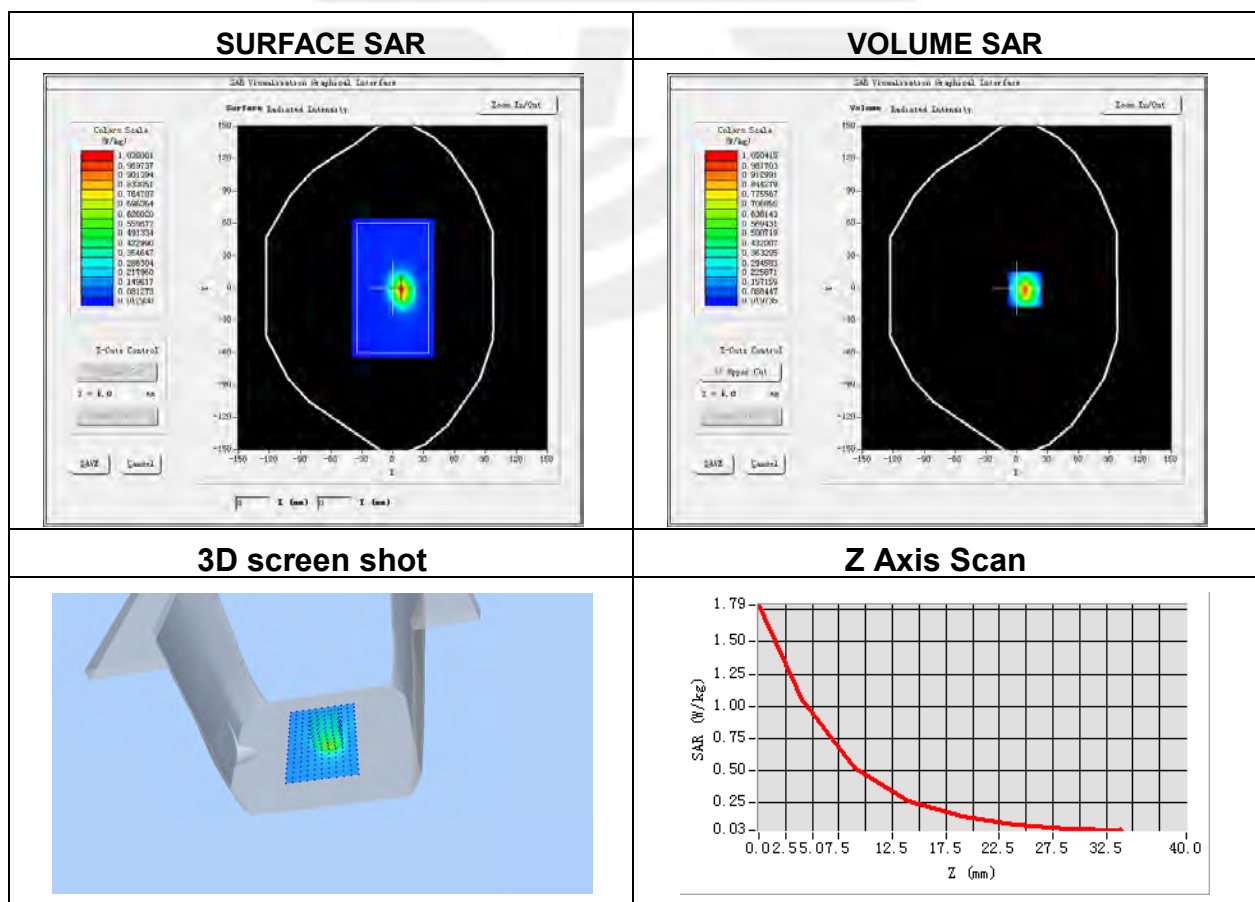
**Plot 13: DUT: GPS Tracker; EUT Model: TRKM010B**

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Test Date                         | 2023-06-16                                                             |
| Probe                             | SN 07/21 EPGO352                                                       |
| Area Scan                         | dx=8mm, dy=8mm, h= 5.00 mm                                             |
| Zoom Scan                         | 5x5x7, dx=8mm, dy=8mm, dz=5mm,<br>Complete/ndx=8mm, dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane                                                       |
| Device Position                   | Left Side                                                              |
| Band                              | LTE Band 41 (RB 1)                                                     |
| Signal                            | LTE (Crest factor: 1.0)                                                |
| Frequency (MHz)                   | 2680                                                                   |
| Relative permittivity (real part) | 39.72                                                                  |
| Conductivity (S/m)                | 2.08                                                                   |

Maximum location: X=8.00, Y=-1.00

SAR Peak: 1.78 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.356637 |
| SAR 1g (W/Kg)  | 0.909852 |





## Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※

