



# SAR Test Report

Report No.: STS2603216H01

Issued for

HONG KONG LELEGAO TECHNOLOGY CO.,LIMITED

19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong,  
Kowloon, HongKong, China

Product Name: Smart Phone

Brand Name: Blackview

Model Name: ROCK 5

Series Model(s): BV9300Pro Plus

FCC ID: 2BSW8-ROCK5

Test Standard: ANSI/IEEE Std. C95.1  
FCC 47 CFR Part 2 (2.1093)  
IEEE Std. 1528-2013

Head: 1.304 W/kg(1g)

Max. Report SAR Body: 0.662 W/kg(1g)

Limbs: 1.259 W/kg(10g)

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.



## TEST REPORT CERTIFICATION

**Applicant's name** ..... : HONG KONG LELEGAO TECHNOLOGY CO.,LIMITED

**Address** ..... : 19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong,  
Kowloon, HongKong, China

**Manufacturer's Name** ..... : Shenzhen Doke Electronic Co., LTD

**Address** ..... : 801, Building3, 7th Industrial Zone, Yulv Community, Yutang  
Road, Guangming District, Shenzhen, China

### Product description

**Product name** ..... : Smart Phone

**Brand name** ..... : Blackview

**Model name** ..... : BV9300Pro Plus

**Series Model**..... : N/A

ANSI/IEEE Std. C95.1

**Standards**..... : FCC 47 CFR Part 2 (2.1093)

IEEE Std. 1528-2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in EN IEC/IEEE 62209-1528 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**..... : 28 Mar. 2026 ~ 06 Apr. 2026

**Date of Issue**..... : 17 Apr. 2026

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



## Table of Contents

|                                                                         |                  |
|-------------------------------------------------------------------------|------------------|
| <b>1. General Information .....</b>                                     | <b>5</b>         |
| 1.1 EUT Description.....                                                | 5                |
| 1.2 Test Environment .....                                              | 7                |
| 1.3 Test Factory .....                                                  | 7                |
| <b>2. Test Standards and Limits.....</b>                                | <b>8</b>         |
| <b>3. SAR Measurement System.....</b>                                   | <b>9</b>         |
| 3.1 Definition of Specific Absorption Rate (SAR) .....                  | 9                |
| 3.2 SAR System .....                                                    | 9                |
| 3.3 DASY5 E-field Probe System.....                                     | 11               |
| 3.4 Phantoms.....                                                       | 12               |
| 3.5 Device Holder .....                                                 | 12               |
| 3.6 Scanning Procedure .....                                            | 13               |
| 3.7 Data Storage and Evaluation .....                                   | 14               |
| <b>4. Tissue Simulating Liquids .....</b>                               | <b>16</b>        |
| 4.1 Simulating Liquids Parameter Check .....                            | 16               |
| <b>5. SAR System Validation .....</b>                                   | <b>20</b>        |
| 5.1 Validation System .....                                             | 20               |
| 5.2 Validation Result .....                                             | 21               |
| <b>6. SAR Evaluation Procedures .....</b>                               | <b>22</b>        |
| <b>7. EUT Antenna Location Sketch .....</b>                             | <b>23</b>        |
| 7.1 SAR test exclusion consider table.....                              | 24               |
| <b>8. EUT Test Position.....</b>                                        | <b>29</b>        |
| 8.1 Define Two Imaginary Lines on the Handset .....                     | 29               |
| 8.2 Hotspot mode exposure position condition.....                       | 30               |
| <b>9. Uncertainty .....</b>                                             | <b>31</b>        |
| 9.1 Measurement Uncertainty .....                                       | 31               |
| <b>10. Conducted Power Measurement.....</b>                             | <b>34</b>        |
| 10.1 Test Result .....                                                  | 34               |
| <b>11. EUT and Test Setup Photo.....</b>                                | <b>56</b>        |
| 11.1 EUT Photo.....                                                     | 56               |
| 11.2 Setup Photo .....                                                  | 59               |
| <b>12. SAR Result Summary .....</b>                                     | <b>68</b>        |
| 12.1 Head SAR.....                                                      | 68               |
| 12.2 Body-worn and Hotspot SAR .....                                    | 72               |
| 12.3 Limbs SAR.....                                                     | 75               |
| 12.4 Repeated SAR .....                                                 | 78               |
| 12.4 Repeated SAR measurement .....                                     | 80               |
| 12.5 Simultaneous Multi-band Transmission Evaluation .....              | 82               |
| <b>13. Equipment List .....</b>                                         | <b>86</b>        |
| <b>Appendix A. System Validation Plots .....</b>                        | <b>87</b>        |
| <b>Appendix B. SAR Test Plots .....</b>                                 | <b>错误!未定义书签。</b> |
| <b>Appendix C. Probe Calibration and Dipole Calibration Report.....</b> | <b>87</b>        |



| Rev. | Issue Date   | Report No.    | Effect Page | Contents      |
|------|--------------|---------------|-------------|---------------|
| 00   | 17 Apr. 2026 | STS2603216H01 | 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            | Smart Phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Brand Name              | Blackview                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Model Name              | ROCK 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Series Model            | BV9300Pro Plus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Model Difference        | Only different in model name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sample number           | 260302015-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Battery                 | Model: Li486488HTT<br>Brand: Blackview<br>Rated Voltage: 3.87V<br>Charge Limit Voltage: 4.4 V<br>Capacity: 20000mAh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Device Category         | Portable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product stage           | Production unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| RF Exposure Environment | General Population / Uncontrolled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Hardware Version        | E5J7_MAIN_PCB_V1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Software Version/FVIN   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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 IV: 1710 MHz ~ 1755 MHz<br>WCDMA Band V: 824 MHz ~ 849 MHz<br>LTE Band 2: 1850 MHz ~ 1910 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><b>LTE Band 17 (704-716 MHz) is covered by LTE Band 12 (699-716 MHz)</b><br>LTE Band 41: 2496 MHz ~ 2690 MHz<br>LTE Band 66: 1710 MHz ~ 1780 MHz<br><b>LTE Band 4 (1710-1755 MHz) is covered by LTE Band 66 (1710-1780 MHz)</b><br>WLAN802.11b/g/n20: 2412 MHz ~ 2462 MHz<br>WLAN 802.11n40: 2422 MHz ~ 2452 MHz<br>WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz<br>WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz<br>Bluetooth: 2402 MHz to 2480 MHz<br>NFC: 13.56 MHz |



|                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |                                   |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-----------------------------------|-----------------|
| Max. Reported SAR(1g):<br>(Limit:1.6W/kg)<br>SAR(10g):<br>(Limit:4.0W/kg)<br>Test distance:<br>Head:0mm<br>Body:10mm<br>Limbs:0mm                                                                                                                                                                                                                                                                                                      | Band                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mode           | Head<br>(W/kg) | Body Worn<br>and<br>Hotspot(W/kg) | Limbs<br>(W/kg) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | PCE                                                                                                                                                                                                                                                                                                                                                                                                                                         | GSM 850        | 0.061          | 0.179                             | 0.429           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | PCE                                                                                                                                                                                                                                                                                                                                                                                                                                         | GSM 1900       | 0.882          | 0.307                             | 0.573           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | PCE                                                                                                                                                                                                                                                                                                                                                                                                                                         | WCDMA Band II  | 1.304          | 0.662                             | 1.259           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | PCE                                                                                                                                                                                                                                                                                                                                                                                                                                         | WCDMA Band V   | 0.843          | 0.353                             | 0.673           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | PCE                                                                                                                                                                                                                                                                                                                                                                                                                                         | WCDMA Band IV  | 0.068          | 0.212                             | 0.355           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | PCE                                                                                                                                                                                                                                                                                                                                                                                                                                         | LTE Band 2     | 1.143          | 0.487                             | 0.882           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | PCE                                                                                                                                                                                                                                                                                                                                                                                                                                         | LTE Band 5     | 0.099          | 0.187                             | 0.372           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | PCE                                                                                                                                                                                                                                                                                                                                                                                                                                         | LTE Band 7     | 1.077          | 0.526                             | 0.666           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | PCE                                                                                                                                                                                                                                                                                                                                                                                                                                         | LTE Band 12&17 | 0.071          | 0.091                             | 0.157           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | PCE                                                                                                                                                                                                                                                                                                                                                                                                                                         | LTE Band 41    | 1.080          | 0.216                             | 0.147           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | PCE                                                                                                                                                                                                                                                                                                                                                                                                                                         | LTE Band 66&4  | 1.116          | 0.416                             | 0.849           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | DTS                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.4G WLAN      | 0.077          | 0.039                             | 0.061           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | DSS                                                                                                                                                                                                                                                                                                                                                                                                                                         | BT             | 0.084          | 0.017                             | 0.084           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | DSS                                                                                                                                                                                                                                                                                                                                                                                                                                         | NFC            | 0.000          | 0.000                             | 0.000           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | NII                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5.2G WLAN      | 0.080          | 0.039                             | 0.039           |
| NII                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5.8G WLAN                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.033          | 0.135          | 0.063                             |                 |
| 1-g Sum SAR                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                | 1.388          | 0.797                             | /               |
| 10-g Sum SAR                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                | /              | /                                 | 1.343           |
| FCC<br>Equipment<br>Class                                                                                                                                                                                                                                                                                                                                                                                                              | Licensed Portable Transmitter Held to Ear (PCE)<br>Part 15 Spread Spectrum Transmitter (DSS)<br>Digital Transmission System (DTS)<br>Unlicensed National Information Infrastructure TX(NII)                                                                                                                                                                                                                                                 |                |                |                                   |                 |
| Operating<br>Mode:                                                                                                                                                                                                                                                                                                                                                                                                                     | GSM: GSM Voice; GPRS/EGPRS Class 12<br>WCDMA: RMC, HSDPA, HSUPA Release 6<br>LTE: QPSK, 16QAM<br>2.4G WLAN : 802.11b(DSSS):CCK,DQPSK,DBPSK<br>802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM<br>802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM<br>5G WLAN: 802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM<br>802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM<br>802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM<br>Bluetooth: GFSK + $\pi$ /4DQPSK+8DPSK<br>BLE: GFSK<br>NFC: ASK |                |                |                                   |                 |
| Antenna<br>Specification:                                                                                                                                                                                                                                                                                                                                                                                                              | GSM/WCDMA/LTE: PIFA Antenna<br>Bluetooth: PIFA Antenna<br>WLAN: PIFA Antenna<br>NFC: PIFA Antenna                                                                                                                                                                                                                                                                                                                                           |                |                |                                   |                 |
| SIM Card                                                                                                                                                                                                                                                                                                                                                                                                                               | Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time                                                                                                                                                                                                                                                                                                                                   |                |                |                                   |                 |
| Hotspot Mode                                                                                                                                                                                                                                                                                                                                                                                                                           | Support                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                |                                   |                 |
| DTM Mode                                                                                                                                                                                                                                                                                                                                                                                                                               | Not Support                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                |                                   |                 |
| Fixed frequency<br>software                                                                                                                                                                                                                                                                                                                                                                                                            | Command fixed frequency                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                |                                   |                 |
| Power Class                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.4G WIFI:16<br>5G WIFI:15                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |                                   |                 |
| Note:<br>1. The dual SIM card mobile has 2 SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active)<br>2. After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 card to perform all tests.<br>3. 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   | IEEE Std C95.1, 2019      | IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment. |
| 3   | IEEE Std. 1528-2013       | Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques                                                                                                                                            |
| 4   | FCC KDB 447498 D04 v01    | RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices                                                                                                                                                                                                                            |
| 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 941225 D06 v02r01 | Hotspot Mode SAR                                                                                                                                                                                                                                                                                                       |
| 10  | 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**

**PARTIAL Limbs LIMIT**

**4.0 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

The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).

A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

A unit to operate the optical surface detector which is connected to the EOC.

The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.

The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows 2003.

DASY5 software and SEMCAD data evaluation software.

Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.

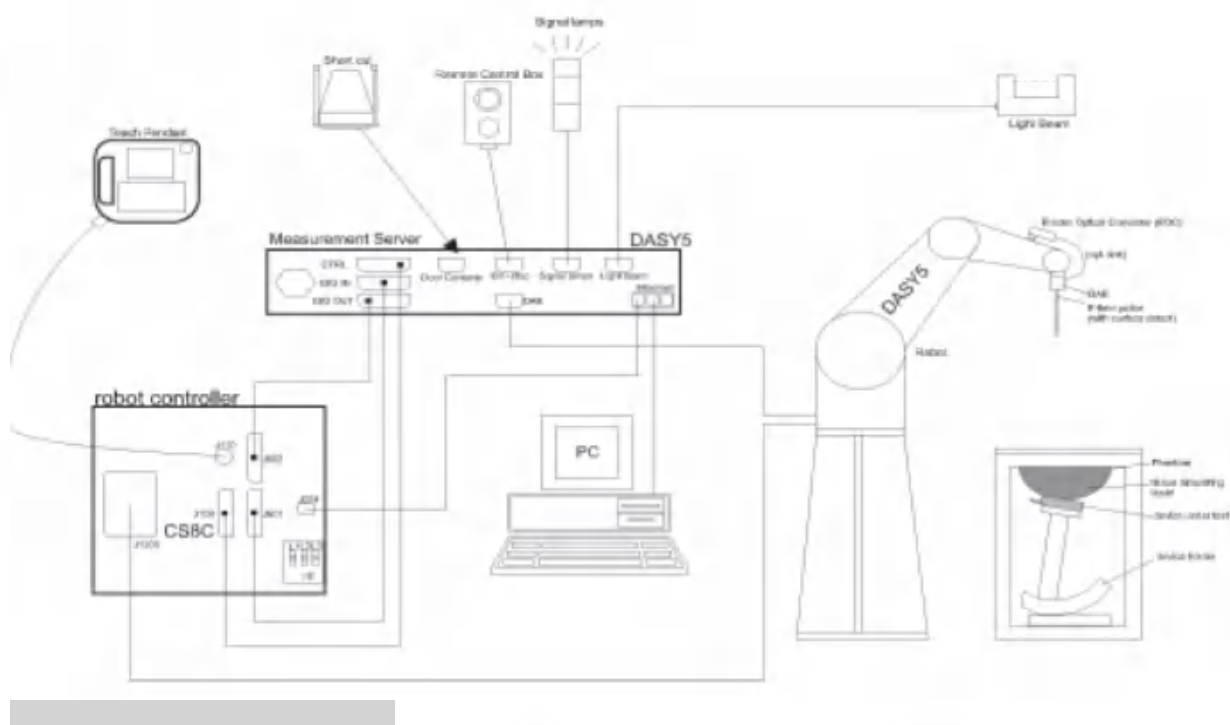
The generic twin phantom enabling the testing of left-hand and right-hand usage.



The device holder for handheld Mobile Phones.

Tissue simulating liquid mixed according to the given recipes.

System validation dipoles allowing to validate the proper functioning of the system.





### 3.3 DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe ES3DV3 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

#### Probe Specification

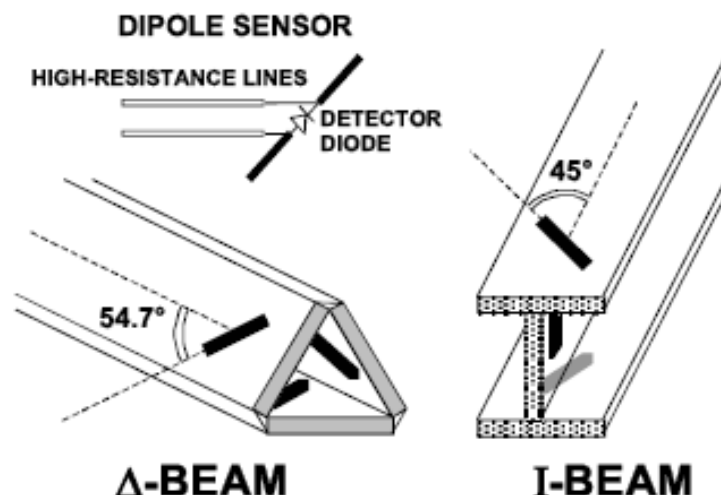
|               |                                                                                                                                                                                    |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction  | Symmetrical design with triangular core<br>Interleaved sensors<br>Built-in shielding against static charges<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE) |
| Calibration   | ISO/IEC 17025 calibration service available.                                                                                                                                       |
| Frequency     | 10 MHz to 4 GHz;<br>Linearity: $\pm 0.2$ dB (30 MHz to 4 GHz)                                                                                                                      |
| Directivity   | $\pm 0.2$ dB in HSL (rotation around probe axis)<br>$\pm 0.3$ dB in tissue material (rotation normal to probe axis)                                                                |
| Dynamic Range | 5 $\mu$ W/g to > 100 mW/g;<br>Linearity: $\pm 0.2$ dB                                                                                                                              |
| Dimensions    | Overall length: 337 mm (Tip: 20 mm)<br>Tip diameter: 3.9 mm (Body: 12 mm)<br>Distance from probe tip to dipole centers: 2.0 mm                                                     |
| Application   | General dosimetry up to 4 GHz<br>Dosimetry in strong gradient fields<br>Compliance tests of Mobile Phones                                                                          |
| Compatibility | DASY3, DASY5, DASY52 SAR and higher,<br>EASY4/MRI                                                                                                                                  |



#### Isotropic E-Field Probe

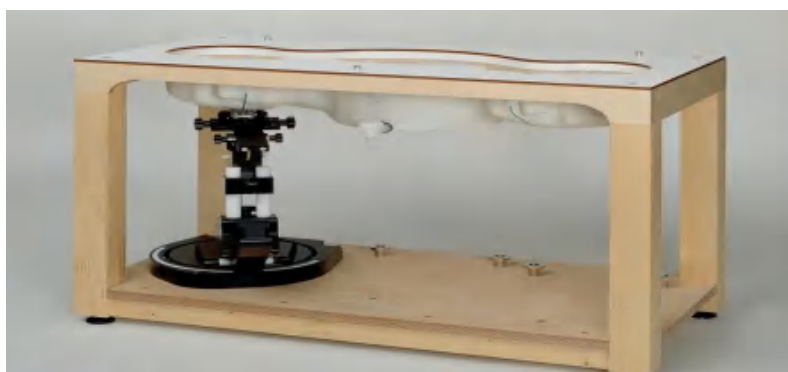
The isotropic E-Field probe has been fully calibrated and assessed for isotropicity, and boundary effect within a controlled environment. Depending on the frequency for which the probe is calibrated the method utilized for calibration will change.

The E-Field probe utilizes a triangular sensor arrangement as detailed in the diagram below:



### 3.4 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin-headed "SAM Phantom", manufactured by SPEAG. The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness increases to 6mm). System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.

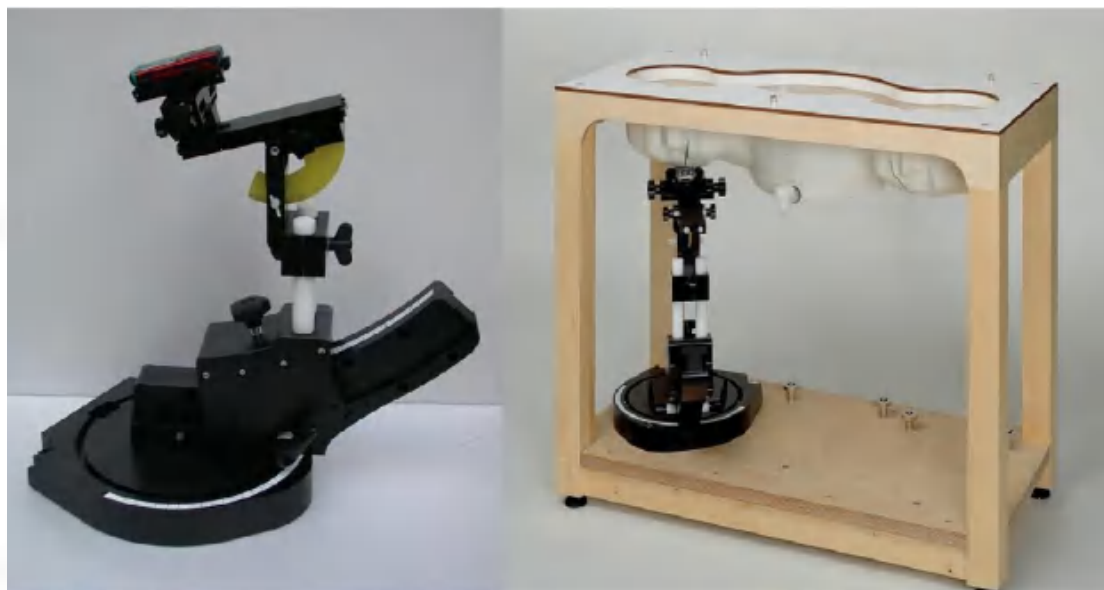


SAM Twin Phantom

### 3.5 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the DASY system.

The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.



Device holder supplied by SPEAG

### 3.6 Scanning Procedure

The DASY5 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

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

The “surface check” measurement tests the optical surface detection system of the DASY5 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above  $\pm 0.1\text{mm}$ ). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe (It does not depend on the surface reflectivity or the probe angle to the surface within  $\pm 30^\circ$ .)

#### Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values before running a detailed measurement around the hot spot. Before starting the area scan a grid spacing of  $15\text{ mm} \times 15\text{ mm}$  is set. During the scan the distance of the probe to the phantom remains unchanged. After finishing area scan, the field maxima within a range of 2 dB will be ascertained.

#### Zoom Scan

Zoom Scans are used to estimate the peak spatial SAR values within a cubic averaging volume



containing 1 g and 10 g of simulated tissue. The default Zoom Scan is done by 7x7x7 points within a cube whose base is centered around the maxima found in the preceding area scan.

#### Spatial Peak Detection

The procedure for spatial peak SAR evaluation has been implemented and can determine values of masses of 1g and 10g, as well as for user-specific masses. The DASY5 system allows evaluations that combine measured data and robot positions, such as: • maximum search • extrapolation • boundary correction • peak search for averaged SAR. During a maximum search, global and local maxima searches are automatically performed in 2-D after each Area Scan measurement with at least 6 measurement points. It is based on the evaluation of the local SAR gradient calculated by the Quadratic Shepard's method. The algorithm will find the global maximum and all local maxima within -2 dB of the global maxima for all SAR distributions.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. Several measurements at different distances are necessary for the extrapolation. Extrapolation routines require at least 10 measurement points in 3-D space. They are used in the Zoom Scan to obtain SAR values between the lowest measurement points and the inner phantom surface. The routine uses the modified Quadratic Shepard's method for extrapolation. For a grid using 7x7x7 measurement points with 5mm resolution amounting to 343 measurement points, the uncertainty of the extrapolation routines is less than 1% for 1g and 10g cubes.

A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube 7x7x7 scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 5mm steps.

### 3.7 Data Storage and Evaluation

#### Data Storage

The DASY5 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DA4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

#### Data Evaluation

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

|                    |                           |                      |
|--------------------|---------------------------|----------------------|
| Probe parameters:  | - Sensitivity             | Normi, ai0, ai1, ai2 |
|                    | - Conversion factor       | ConvFi               |
|                    | - Diode compression point | Dcpi                 |
| Device parameters: | - Frequency               | f                    |
|                    | - Crest factor            | cf                   |
| Media parameters:  | - Conductivity            | $\sigma$             |
|                    | - Density                 | $\rho$               |



These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY5 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

With  $V_i$  = compensated signal of channel  $i$  ( $i = x, y, z$ )  
 $U_i$  = input signal of channel  $i$  ( $i = x, y, z$ )  
 $cf$  = crest factor of exciting field (DASY parameter)  
 $dcp_i$  = diode compression point (DASY parameter)

From the compensated input signals the priMayy field data for each channel can be evaluated:

$$E - \text{fieldprobes: } E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$$

$$H - \text{fieldprobes: } H_i = \sqrt{V_i \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}}$$

With  $V_i$  = compensated signal of channel  $i$  ( $i = x, y, z$ )  
 $Norm_i$  = sensor sensitivity of channel  $i$  ( $i = x, y, z$ )  
 [mV/(V/m)<sup>2</sup>] for E-field Probes  
 $ConvF$  = sensitivity enhancement in solution  
 $a_{ij}$  = sensor sensitivity factors for H-field probes  
 $f$  = carrier frequency [GHz]  
 $E_i$  = electric field strength of channel  $i$  in V/m  
 $H_i$  = magnetic field strength of channel  $i$  in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The priMayy field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1'000}$$

with  $SAR$  = local specific absorption rate in mW/g  
 $E_{tot}$  = total field strength in V/m  
 $\sigma$  = conductivity in [mho/m] or [Siemens/m]  
 $\rho$  = equivalent tissue density in g/cm<sup>3</sup>

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid.



## 4. Tissue Simulating Liquids

### 4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max \_ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 1 g averaging, the maximum weighting coefficient for SAR is 0,5.

#### IEEE SCC-34/SC-2 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following table.

| Frequency    | $\epsilon_r$ | $\sigma$ 10g<br>S/m |
|--------------|--------------|---------------------|
| 300          | 45.3         | 0.87                |
| 450          | 43.5         | 0.87                |
| 750          | 41.9         | 0.89                |
| 835          | 41.5         | 0.90                |
| 900          | 41.5         | 0.97                |
| 1450         | 40.5         | 1.20                |
| 1800 to 2000 | 40.0         | 1.40                |
| 2100         | 39.8         | 1.49                |
| 2450         | 39.2         | 1.80                |
| 2600         | 39.0         | 1.96                |
| 3000         | 38.5         | 2.40                |
| 3500         | 37.9         | 2.91                |
| 4000         | 37.4         | 3.43                |
| 4500         | 36.8         | 3.94                |
| 5000         | 36.2         | 4.45                |
| 5200         | 36.0         | 4.66                |
| 5400         | 35.8         | 4.86                |
| 5600         | 35.5         | 5.07                |
| 5800         | 35.3         | 5.27                |

The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.



| Head (Reference IEEE1528)           |              |                       |                  |             |                     |             |                                |                            |
|-------------------------------------|--------------|-----------------------|------------------|-------------|---------------------|-------------|--------------------------------|----------------------------|
| Frequency<br>(MHz)                  | Water<br>(%) | Sugar<br>(%)          | Cellulose<br>(%) | Salt<br>(%) | Preventol<br>(%)    | DGBE<br>(%) | Conductivity<br>$\sigma$ (S/m) | Permittivity<br>$\epsilon$ |
| 750                                 | 41.1         | 57.0                  | 0.2              | 1.4         | 0.2                 | 0           | 0.89                           | 41.9                       |
| 835                                 | 40.3         | 57.9                  | 0.2              | 1.4         | 0.2                 | 0           | 0.90                           | 41.5                       |
| 900                                 | 40.3         | 57.9                  | 0.2              | 1.4         | 0.2                 | 0           | 0.97                           | 41.5                       |
| 1800, 1900, 2000                    | 55.2         | 0                     | 0                | 0.3         | 0                   | 44.5        | 1.4                            | 40.0                       |
| 2450                                | 55.0         | 0                     | 0                | 0.1         | 0                   | 44.9        | 1.80                           | 39.2                       |
| 2600                                | 54.9         | 0                     | 0                | 0.1         | 0                   | 45.0        | 1.96                           | 39.0                       |
| Frequency<br>(MHz)                  | Water<br>(%) | Hexyl Carbitol<br>(%) |                  |             | Triton X-100<br>(%) |             | Conductivity<br>$\sigma$ (S/m) | Permittivity<br>$\epsilon$ |
| 5200                                | 62.52        | 17.24                 |                  |             | 17.24               |             | 4.66                           | 36.0                       |
| 5800                                | 62.52        | 17.24                 |                  |             | 17.24               |             | 5.27                           | 35.3                       |
| Body (From instrument manufacturer) |              |                       |                  |             |                     |             |                                |                            |
| Frequency<br>(MHz)                  | Water<br>(%) | Sugar<br>(%)          | Cellulose<br>(%) | Salt<br>(%) | Preventol<br>(%)    | DGBE<br>(%) | Conductivity<br>$\sigma$ (S/m) | Permittivity<br>$\epsilon$ |
| 750                                 | 51.7         | 47.2                  | 0                | 0.9         | 0.1                 | 0           | 0.96                           | 55.5                       |
| 835                                 | 50.8         | 48.2                  | 0                | 0.9         | 0.1                 | 0           | 0.97                           | 55.2                       |
| 900                                 | 50.8         | 48.2                  | 0                | 0.9         | 0.1                 | 0           | 1.05                           | 55.0                       |
| 1800, 1900, 2000                    | 70.2         | 0                     | 0                | 0.4         | 0                   | 29.4        | 1.52                           | 53.3                       |
| 2450                                | 68.6         | 0                     | 0                | 0.1         | 0                   | 31.3        | 1.95                           | 52.7                       |
| 2600                                | 68.2         | 0                     | 0                | 0.1         | 0                   | 31.7        | 2.16                           | 52.5                       |
| Frequency(MHz)                      | Water        | DGBE<br>(%)           |                  |             | Salt<br>(%)         |             | Conductivity<br>$\sigma$ (S/m) | Permittivity<br>$\epsilon$ |
| 5200                                | 78.60        | 21.40                 |                  |             | /                   |             | 5.30                           | 49.00                      |
| 5800                                | 78.50        | 21.40                 |                  |             | 0.1                 |             | 6.00                           | 48.20                      |

**LIQUID MEASUREMENT RESULTS**

| Date       | Ambient    |            | Simulating Liquid |            | Parameters   | Target | Measured | Deviation % | Limited % |
|------------|------------|------------|-------------------|------------|--------------|--------|----------|-------------|-----------|
|            | Temp. [°C] | Humidity % | Frequency (MHz)   | Temp. [°C] |              |        |          |             |           |
| 2026-03-28 | 23.1       | 44         | 704               | 22.8       | Permittivity | 42.15  | 42.35    | 0.49        | ±5        |
|            |            |            |                   |            | Conductivity | 0.89   | 0.88     | -0.78       | ±5        |
| 2026-03-28 | 23.1       | 44         | 707.5             | 22.8       | Permittivity | 42.13  | 42.54    | 0.98        | ±5        |
|            |            |            |                   |            | Conductivity | 0.89   | 0.88     | -0.81       | ±5        |
| 2026-03-28 | 23.1       | 44         | 709               | 22.8       | Permittivity | 42.12  | 42.13    | 0.03        | ±5        |
|            |            |            |                   |            | Conductivity | 0.89   | 0.87     | -1.95       | ±5        |
| 2026-03-28 | 23.1       | 44         | 710               | 22.8       | Permittivity | 42.11  | 42.04    | -0.17       | ±5        |
|            |            |            |                   |            | Conductivity | 0.89   | 0.88     | -0.83       | ±5        |
| 2026-03-28 | 23.1       | 44         | 750               | 22.8       | Permittivity | 41.90  | 42.00    | 0.24        | ±5        |
|            |            |            |                   |            | Conductivity | 0.89   | 0.91     | 2.13        | ±5        |
| 2026-03-29 | 22.9       | 55         | 829               | 22.6       | Permittivity | 41.53  | 41.84    | 0.75        | ±5        |
|            |            |            |                   |            | Conductivity | 0.90   | 0.90     | 0.08        | ±5        |
| 2026-03-29 | 22.9       | 55         | 835               | 22.6       | Permittivity | 41.50  | 41.88    | 0.92        | ±5        |
|            |            |            |                   |            | Conductivity | 0.90   | 0.93     | 3.33        | ±5        |
| 2026-03-29 | 22.9       | 55         | 836.5             | 22.6       | Permittivity | 41.49  | 41.69    | 0.47        | ±5        |
|            |            |            |                   |            | Conductivity | 0.90   | 0.92     | 2.20        | ±5        |
| 2026-03-29 | 22.9       | 55         | 848.8             | 22.6       | Permittivity | 41.44  | 42.26    | 1.99        | ±5        |
|            |            |            |                   |            | Conductivity | 0.90   | 0.92     | 2.04        | ±5        |
| 2026-03-30 | 23.2       | 43         | 826.4             | 22.9       | Permittivity | 41.54  | 41.87    | 0.79        | ±5        |
|            |            |            |                   |            | Conductivity | 0.90   | 0.89     | -1.00       | ±5        |
| 2026-03-30 | 23.2       | 43         | 835               | 22.9       | Permittivity | 41.50  | 41.36    | -0.34       | ±5        |
|            |            |            |                   |            | Conductivity | 0.90   | 0.90     | 0.00        | ±5        |
| 2026-04-03 | 23.3       | 47         | 1720              | 23.0       | Permittivity | 40.11  | 40.32    | 0.51        | ±5        |
|            |            |            |                   |            | Conductivity | 1.35   | 1.36     | 0.42        | ±5        |
| 2026-04-03 | 23.3       | 47         | 1732.5            | 23.0       | Permittivity | 40.10  | 40.89    | 1.98        | ±5        |
|            |            |            |                   |            | Conductivity | 1.36   | 1.34     | -1.57       | ±5        |
| 2026-04-03 | 23.3       | 47         | 1745              | 23.0       | Permittivity | 40.08  | 40.09    | 0.03        | ±5        |
|            |            |            |                   |            | Conductivity | 1.37   | 1.38     | 0.84        | ±5        |
| 2026-04-03 | 23.3       | 47         | 1770              | 23.0       | Permittivity | 40.04  | 40.52    | 1.19        | ±5        |
|            |            |            |                   |            | Conductivity | 1.38   | 1.38     | -0.21       | ±5        |
| 2026-04-03 | 23.3       | 47         | 1800              | 23.0       | Permittivity | 40.00  | 40.83    | 2.08        | ±5        |
|            |            |            |                   |            | Conductivity | 1.40   | 1.41     | 0.71        | ±5        |
| 2026-03-30 | 23.2       | 43         | 1712.6            | 22.9       | Permittivity | 40.12  | 40.30    | 0.44        | ±5        |
|            |            |            |                   |            | Conductivity | 1.35   | 1.36     | 0.74        | ±5        |
| 2026-03-30 | 23.2       | 43         | 1740              | 22.9       | Permittivity | 40.09  | 41.01    | 2.31        | ±5        |
|            |            |            |                   |            | Conductivity | 1.37   | 1.35     | -1.15       | ±5        |
| 2026-03-30 | 23.2       | 43         | 1752.4            | 22.9       | Permittivity | 40.07  | 40.94    | 2.18        | ±5        |
|            |            |            |                   |            | Conductivity | 1.37   | 1.37     | -0.20       | ±5        |
| 2026-03-30 | 23.2       | 43         | 1800              | 22.9       | Permittivity | 40.00  | 40.73    | 1.82        | ±5        |
|            |            |            |                   |            | Conductivity | 1.40   | 1.41     | 0.71        | ±5        |
| 2026-03-31 | 23.4       | 54         | 1850.2            | 23.1       | Permittivity | 40.00  | 39.97    | -0.08       | ±5        |
|            |            |            |                   |            | Conductivity | 1.40   | 1.39     | -0.71       | ±5        |
| 2026-03-31 | 23.4       | 54         | 1852.4            | 23.1       | Permittivity | 40.00  | 40.35    | 0.88        | ±5        |
|            |            |            |                   |            | Conductivity | 1.40   | 1.43     | 2.14        | ±5        |
| 2026-03-31 | 23.4       | 54         | 1860              | 23.1       | Permittivity | 40.00  | 40.05    | 0.12        | ±5        |
|            |            |            |                   |            | Conductivity | 1.40   | 1.39     | -0.71       | ±5        |
| 2026-03-31 | 23.4       | 54         | 1880              | 23.1       | Permittivity | 40.00  | 40.33    | 0.82        | ±5        |
|            |            |            |                   |            | Conductivity | 1.40   | 1.40     | 0.00        | ±5        |



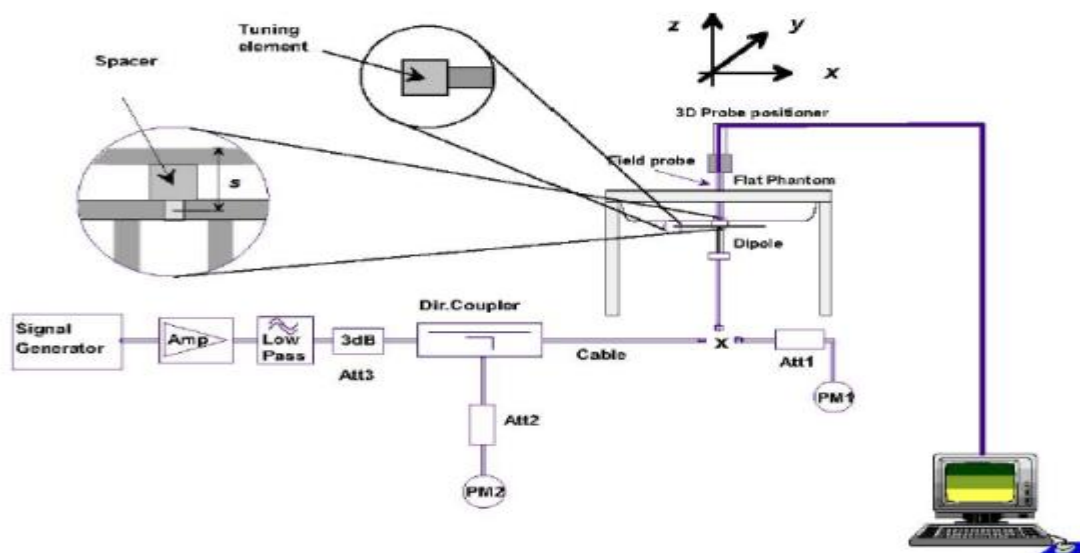
|            |      |    |        |      |              |       |       |       |    |
|------------|------|----|--------|------|--------------|-------|-------|-------|----|
| 2026-03-31 | 23.4 | 54 | 1900   | 23.1 | Permittivity | 40.00 | 40.08 | 0.20  | ±5 |
|            |      |    |        |      | Conductivity | 1.40  | 1.40  | 0.00  | ±5 |
| 2026-03-30 | 23.4 | 54 | 1909.8 | 23.1 | Permittivity | 40.00 | 40.52 | 1.30  | ±5 |
|            |      |    |        |      | Conductivity | 1.40  | 1.39  | -0.71 | ±5 |
| 2026-03-30 | 23.2 | 43 | 1907.6 | 22.9 | Permittivity | 40.00 | 40.76 | 1.90  | ±5 |
|            |      |    |        |      | Conductivity | 1.40  | 1.38  | -1.43 | ±5 |
| 2026-03-30 | 23.2 | 43 | 1900   | 22.9 | Permittivity | 40.00 | 39.97 | -0.08 | ±5 |
|            |      |    |        |      | Conductivity | 1.40  | 1.40  | 0.00  | ±5 |
| 2026-04-05 | 23.3 | 56 | 2450   | 23.1 | Permittivity | 39.20 | 39.94 | 1.89  | ±5 |
|            |      |    |        |      | Conductivity | 1.80  | 1.79  | -0.56 | ±5 |
| 2026-04-05 | 23.3 | 56 | 2462   | 23.1 | Permittivity | 39.18 | 39.05 | -0.34 | ±5 |
|            |      |    |        |      | Conductivity | 1.81  | 1.82  | 0.40  | ±5 |
| 2026-04-04 | 23.8 | 55 | 2510   | 23.5 | Permittivity | 39.12 | 38.61 | -1.30 | ±5 |
|            |      |    |        |      | Conductivity | 1.86  | 1.86  | -0.21 | ±5 |
| 2026-04-04 | 23.8 | 55 | 2535   | 23.5 | Permittivity | 39.09 | 39.36 | 0.70  | ±5 |
|            |      |    |        |      | Conductivity | 1.89  | 1.89  | -0.04 | ±5 |
| 2026-04-04 | 23.8 | 55 | 2560   | 23.5 | Permittivity | 39.05 | 38.82 | -0.60 | ±5 |
|            |      |    |        |      | Conductivity | 1.92  | 1.94  | 1.18  | ±5 |
| 2026-04-04 | 23.8 | 55 | 2600   | 23.5 | Permittivity | 39.00 | 39.69 | 1.77  | ±5 |
|            |      |    |        |      | Conductivity | 1.96  | 1.94  | -1.02 | ±5 |
| 2026-04-05 | 23.3 | 56 | 2506   | 23.1 | Permittivity | 39.13 | 39.39 | 0.68  | ±5 |
|            |      |    |        |      | Conductivity | 1.86  | 1.86  | 0.01  | ±5 |
| 2026-04-05 | 23.3 | 56 | 2593   | 23.1 | Permittivity | 39.01 | 39.42 | 1.05  | ±5 |
|            |      |    |        |      | Conductivity | 1.95  | 1.95  | -0.12 | ±5 |
| 2026-04-05 | 23.3 | 56 | 2600   | 23.1 | Permittivity | 39.00 | 39.77 | 1.97  | ±5 |
|            |      |    |        |      | Conductivity | 1.96  | 1.95  | -0.51 | ±5 |
| 2026-04-05 | 23.3 | 56 | 2680   | 23.1 | Permittivity | 38.90 | 39.34 | 1.13  | ±5 |
|            |      |    |        |      | Conductivity | 2.05  | 2.05  | 0.10  | ±5 |
| 2026-04-06 | 22.4 | 59 | 5200   | 22.1 | Permittivity | 36.00 | 36.07 | 0.19  | ±5 |
|            |      |    |        |      | Conductivity | 4.66  | 4.67  | 0.21  | ±5 |
| 2026-04-06 | 22.4 | 59 | 5240   | 22.1 | Permittivity | 35.96 | 36.38 | 1.17  | ±5 |
|            |      |    |        |      | Conductivity | 4.70  | 4.71  | 0.17  | ±5 |
| 2026-04-06 | 22.4 | 59 | 5800   | 22.1 | Permittivity | 35.30 | 34.78 | -1.47 | ±5 |
|            |      |    |        |      | Conductivity | 5.27  | 5.26  | -0.19 | ±5 |
| 2026-04-06 | 22.4 | 59 | 5825   | 22.1 | Permittivity | 35.28 | 35.70 | 1.20  | ±5 |
|            |      |    |        |      | Conductivity | 5.30  | 5.30  | 0.07  | ±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       | Frequency (MHz) | Power               | SAR <sub>1g</sub> (W/Kg) | SAR <sub>10g</sub> (W/Kg) | Drift (%) | 1W Target                |                           | Difference percentage |        | Limited % |
|------------|-----------------|---------------------|--------------------------|---------------------------|-----------|--------------------------|---------------------------|-----------------------|--------|-----------|
|            |                 |                     |                          |                           |           | SAR <sub>1g</sub> (W/Kg) | SAR <sub>10g</sub> (W/Kg) | 1g                    | 10g    |           |
| 2026-03-28 | 750             | 100 mW              | 0.843                    | 0.581                     | -0.03     | 8.49                     | 5.53                      | -0.71%                | 5.06%  | 10        |
|            |                 | Normalize to 1 Watt | 8.43                     | 5.81                      |           |                          |                           |                       |        |           |
| 2026-03-29 | 835             | 100 mW              | 0.908                    | 0.613                     | 0.11      | 9.63                     | 6.15                      | -5.71%                | -0.33% | 10        |
|            |                 | Normalize to 1 Watt | 9.08                     | 6.13                      |           |                          |                           |                       |        |           |
| 2026-03-30 | 835             | 100 mW              | 0.981                    | 0.649                     | 0.14      | 9.63                     | 6.15                      | 1.87%                 | 5.53%  | 10        |
|            |                 | Normalize to 1 Watt | 9.81                     | 6.49                      |           |                          |                           |                       |        |           |
| 2026-04-03 | 1800            | 100 mW              | 3.720                    | 2.057                     | -0.18     | 37.95                    | 20.49                     | -1.98%                | 0.39%  | 10        |
|            |                 | Normalize to 1 Watt | 37.20                    | 20.57                     |           |                          |                           |                       |        |           |
| 2026-03-30 | 1800            | 100 mW              | 3.750                    | 2.072                     | -0.05     | 37.95                    | 20.49                     | -1.19%                | 1.12%  | 10        |
|            |                 | Normalize to 1 Watt | 37.50                    | 20.72                     |           |                          |                           |                       |        |           |
| 2026-03-31 | 1900            | 100 mW              | 3.943                    | 1.978                     | -0.05     | 39.84                    | 20.20                     | -1.03%                | -2.08% | 10        |
|            |                 | Normalize to 1 Watt | 39.43                    | 19.78                     |           |                          |                           |                       |        |           |
| 2026-03-30 | 1900            | 100 mW              | 3.957                    | 2.057                     | 0.07      | 39.84                    | 20.20                     | -0.68%                | 1.83%  | 10        |
|            |                 | Normalize to 1 Watt | 39.57                    | 20.57                     |           |                          |                           |                       |        |           |
| 2026-04-05 | 2450            | 100 mW              | 5.503                    | 2.373                     | -0.07     | 54.70                    | 24.11                     | 0.61%                 | -1.57% | 10        |
|            |                 | Normalize to 1 Watt | 55.03                    | 23.73                     |           |                          |                           |                       |        |           |
| 2026-04-04 | 2600            | 100 mW              | 5.636                    | 2.450                     | 0.11      | 56.19                    | 24.08                     | 0.30%                 | 1.74%  | 10        |
|            |                 | Normalize to 1 Watt | 56.36                    | 24.50                     |           |                          |                           |                       |        |           |
| 2026-04-05 | 2600            | 100 mW              | 5.573                    | 2.416                     | 0.12      | 56.19                    | 24.08                     | -0.82%                | 0.33%  | 10        |
|            |                 | Normalize to 1 Watt | 55.73                    | 24.16                     |           |                          |                           |                       |        |           |
| 2026-04-06 | 5200            | 10 mW               | 1.575                    | 0.606                     | -0.13     | 163.88                   | 57.29                     | -3.89%                | 5.78%  | 10        |
|            |                 | Normalize to 1 Watt | 157.50                   | 60.60                     |           |                          |                           |                       |        |           |
| 2026-04-06 | 5800            | 10 mW               | 1.977                    | 0.666                     | -0.16     | 188.95                   | 63.45                     | 4.63%                 | 4.96%  | 10        |
|            |                 | Normalize to 1 Watt | 197.70                   | 66.60                     |           |                          |                           |                       |        |           |



## 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.

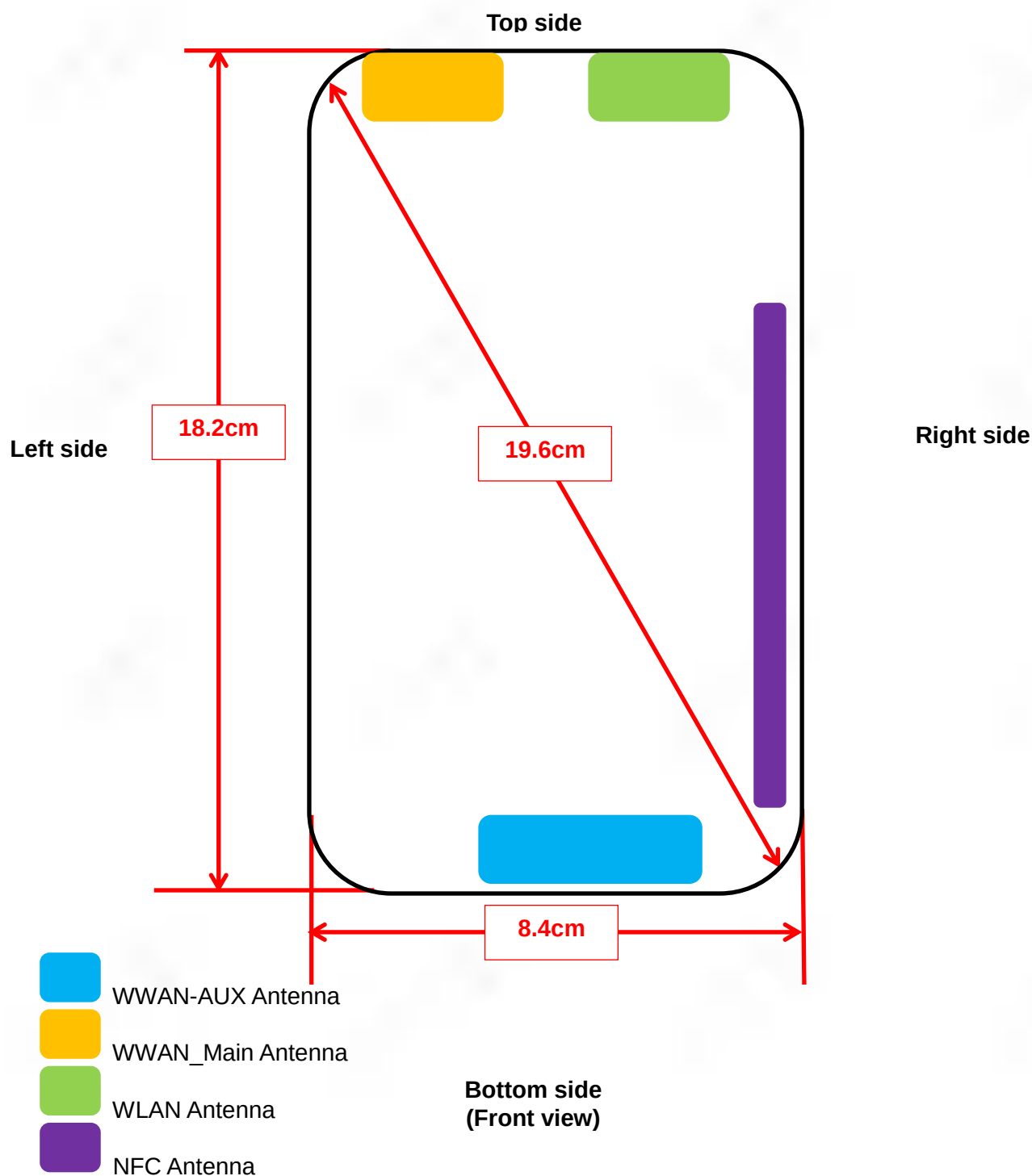
➤ Area Scan& Zoom Scan

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 Antenna Location Sketch

It is a Smart phone, support GSM/WCDMA/LTE/WLAN/BT/NFC mode.



| Antenna Separation Distance(cm) |           |            |           |            |          |             |
|---------------------------------|-----------|------------|-----------|------------|----------|-------------|
| ANT                             | Back Side | Front Side | Left Side | Right Side | Top Side | Bottom Side |
| WLAN/BT                         | ≤0.5      | ≤0.5       | 5.8       | ≤0.5       | ≤0.5     | 17.7        |
| WWAN-Main                       | ≤0.5      | ≤0.5       | ≤0.5      | 5.8        | ≤0.5     | 17.7        |
| WWAN-Aux                        | ≤0.5      | ≤0.5       | 3.5       | 2.7        | 17.7     | ≤0.5        |

Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



## 7.1 SAR test exclusion consider table

The WWAN/WLAN/BT/NFC SAR evaluation of Maximum power (dBm) summing tolerance.

| Exposure Position | Wireless Interface          | GSM850  | PCS1900 | WCDMA II | WCDMA IV | WCDMA V |
|-------------------|-----------------------------|---------|---------|----------|----------|---------|
| Exposure Position | Calculated Frequency(GHz)   | 0.8488  | 1.8502  | 1.9076   | 1.74     | 0.8264  |
|                   | Maximum Turn-up power (dBm) | 33.5    | 30.5    | 24       | 23.5     | 23.5    |
|                   | Maximum rated power(mW)     | 2238.72 | 1122.02 | 251.19   | 223.87   | 223.87  |
| Back Side         | Separation distance (cm)    | ≤0.5    | ≤0.5    | ≤0.5     | ≤0.5     | ≤0.5    |
|                   | exclusion threshold(mW)     | 9.04    | 3.44    | 3.35     | 3.30     | 6.55    |
|                   | Testing required?           | YES     | YES     | YES      | YES      | YES     |
| Front Side        | Separation distance (cm)    | ≤0.5    | ≤0.5    | ≤0.5     | ≤0.5     | ≤0.5    |
|                   | exclusion threshold(mW)     | 9.04    | 3.44    | 3.35     | 3.30     | 6.55    |
|                   | Testing required?           | YES     | YES     | YES      | YES      | YES     |
| Left Side         | Separation distance (cm)    | 3.5     | ≤0.5    | ≤0.5     | ≤0.5     | 3.5     |
|                   | exclusion threshold(mW)     | 144.54  | 3.44    | 3.35     | 3.30     | 167.69  |
|                   | Testing required?           | YES     | YES     | YES      | YES      | YES     |
| Right Side        | Separation distance (cm)    | 2.7     | 5.8     | 5.8      | 5.8      | 2.7     |
|                   | exclusion threshold(mW)     | 99.87   | 313.26  | 310.69   | 341.09   | 108.82  |
|                   | Testing required?           | YES     | YES     | NO       | NO       | YES     |
| Top Side          | Separation distance (cm)    | 17.7    | ≤0.5    | ≤0.5     | ≤0.5     | 17.7    |
|                   | exclusion threshold(mW)     | 1454.94 | 3.44    | 3.35     | 3.30     | 2496.43 |
|                   | Testing required?           | YES     | YES     | YES      | YES      | NO      |
| Bottom Side       | Separation distance (cm)    | ≤0.5    | 17.7    | 17.7     | 17.7     | ≤0.5    |
|                   | exclusion threshold(mW)     | 9.04    | 2443.62 | 2441.64  | 2816.96  | 6.55    |
|                   | Testing required?           | YES     | NO      | NO       | NO       | YES     |



| Exposure Position | Wireless Interface          | LTE Band 2 | LTE Band 5 | LTE Band 7 | LTE Band 12&17 | LTE Band 41 | LTE Band 66&4 |
|-------------------|-----------------------------|------------|------------|------------|----------------|-------------|---------------|
|                   | Calculated Frequency(GHz)   | 1.9025     | 0.8365     | 2.56       | 0.7075         | 2.593       | 1.745         |
|                   | Maximum Turn-up power (dBm) | 24         | 24.5       | 23.5       | 24.5           | 25          | 24            |
|                   | Maximum rated power(mW)     | 251.19     | 281.84     | 223.87     | 281.84         | 316.23      | 251.19        |
| Back Side         | Separation distance (cm)    | ≤0.5       | 0.5        | ≤0.5       | ≤0.5           | ≤0.5        | ≤0.5          |
|                   | exclusion threshold(mW)     | 3.36       | 9.22       | 2.65       | 11.67          | 2.62        | 3.60          |
|                   | Testing required?           | YES        | YES        | YES        | YES            | YES         | YES           |
| Front Side        | Separation distance (cm)    | ≤0.5       | 0.5        | ≤0.5       | ≤0.5           | ≤0.5        | ≤0.5          |
|                   | exclusion threshold(mW)     | 3.36       | 9.22       | 2.65       | 11.67          | 2.62        | 3.60          |
|                   | Testing required?           | YES        | YES        | YES        | YES            | YES         | YES           |
| Left Side         | Separation distance (cm)    | ≤0.5       | 3.5        | 0.5        | 3.5            | ≤0.5        | ≤0.5          |
|                   | exclusion threshold(mW)     | 3.36       | 144.83     | 2.65       | 148.15         | 2.62        | 3.60          |
|                   | Testing required?           | YES        | YES        | YES        | YES            | YES         | YES           |
| Right Side        | Separation distance (cm)    | 5.8        | 2.7        | 5.8        | 2.7            | 5.8         | 5.8           |
|                   | exclusion threshold(mW)     | 310.92     | 100.31     | 287.07     | 105.56         | 286.09      | 318.22        |
|                   | Testing required?           | NO         | YES        | NO         | YES            | YES         | NO            |
| Top Side          | Separation distance (cm)    | ≤0.5       | 17.7       | ≤0.5       | 17.7           | ≤0.5        | ≤0.5          |
|                   | exclusion threshold(mW)     | 3.36       | 1435.53    | 2.65       | 1230.44        | 2.62        | 3.60          |
|                   | Testing required?           | YES        | NO         | YES        | NO             | YES         | YES           |
| Bottom Side       | Separation distance (cm)    | 17.7       | ≤0.5       | 17.7       | ≤0.5           | 17.7        | 17.7          |
|                   | exclusion threshold(mW)     | 2441.82    | 9.22       | 2422.67    | 11.67          | 2421.84     | 2447.42       |
|                   | Testing required?           | NO         | YES        | NO         | YES            | NO          | NO            |



| Exposure Position | Wireless Interface          | BT      | 2.4G WLAN | 5.2G WLAN | 5.8G WLAN | NFC     |
|-------------------|-----------------------------|---------|-----------|-----------|-----------|---------|
|                   | Calculated Frequency(GHz)   | 2.402   | 2.462     | 5.24      | 5.825     | 2.402   |
|                   | Maximum Turn-up power (dBm) | 3.5     | 21.5      | 14.5      | 15        | 3.5     |
|                   | Maximum rated power(mW)     | 2.24    | 141.25    | 28.18     | 31.62     | 2.24    |
|                   |                             |         |           |           |           |         |
| Back Side         | Separation distance (cm)    | ≤0.5    | ≤0.5      | ≤0.5      | ≤0.5      | ≤0.5    |
|                   | exclusion threshold(mW)     | 2.79    | 2.73      | 1.49      | 1.37      | 2.79    |
|                   | Testing required?           | NO      | YES       | YES       | YES       | NO      |
| Front Side        | Separation distance (cm)    | ≤0.5    | ≤0.5      | ≤0.5      | ≤0.5      | ≤0.5    |
|                   | exclusion threshold(mW)     | 2.79    | 2.73      | 1.49      | 1.37      | 2.79    |
|                   | Testing required?           | NO      | YES       | YES       | YES       | NO      |
| Left Side         | Separation distance (cm)    | 5.8     | 5.8       | 5.8       | 5.8       | 5.8     |
|                   | exclusion threshold(mW)     | 292.03  | 290.10    | 236.79    | 230.15    | 292.03  |
|                   | Testing required?           | NO      | NO        | NO        | NO        | NO      |
| Right Side        | Separation distance (cm)    | ≤0.5    | ≤0.5      | ≤0.5      | ≤0.5      | ≤0.5    |
|                   | exclusion threshold(mW)     | 2.79    | 2.73      | 1.49      | 1.37      | 2.79    |
|                   | Testing required?           | NO      | YES       | YES       | YES       | NO      |
| Top Side          | Separation distance (cm)    | ≤0.5    | ≤0.5      | ≤0.5      | ≤0.5      | ≤0.5    |
|                   | exclusion threshold(mW)     | 2.79    | 2.73      | 1.49      | 1.37      | 2.79    |
|                   | Testing required?           | NO      | YES       | YES       | YES       | NO      |
| Bottom Side       | Separation distance (cm)    | 17.7    | 17.7      | 17.7      | 17.7      | 17.7    |
|                   | exclusion threshold(mW)     | 2426.76 | 2425.18   | 2377.06   | 2370.40   | 2426.76 |
|                   | Testing required?           | NO      | NO        | NO        | NO        | NO      |

**Note:**

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D04, if the maximum time-averaged power available does not exceed 1 mW. This stand-alone SAR exemption test.



4. Per KDB 447498 D04, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold  $P_{th}$  (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).  $P_{th}$  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);

5. Per KDB 447498 D04, An alternative to the SAR-based exemption is using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in below table to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

| RF Source frequency (MHz) | Threshold ERP(watts) |
|---------------------------|----------------------|
| 0.3-1.34                  | $1,920 R^2$ .        |
| 1.34-30                   | $3,450 R^2/f^2$ .    |
| 30-300                    | $3.83 R^2$ .         |
| 300-1,500                 | $0.0128 R^2 f$ .     |
| 1,500-100,000             | $19.2 R^2$ .         |



6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8. for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.
7. Per KDB 616217 D04, SAR evaluation for the front surface of tablet display screens are generally not necessary.

## 8. EUT Test Position

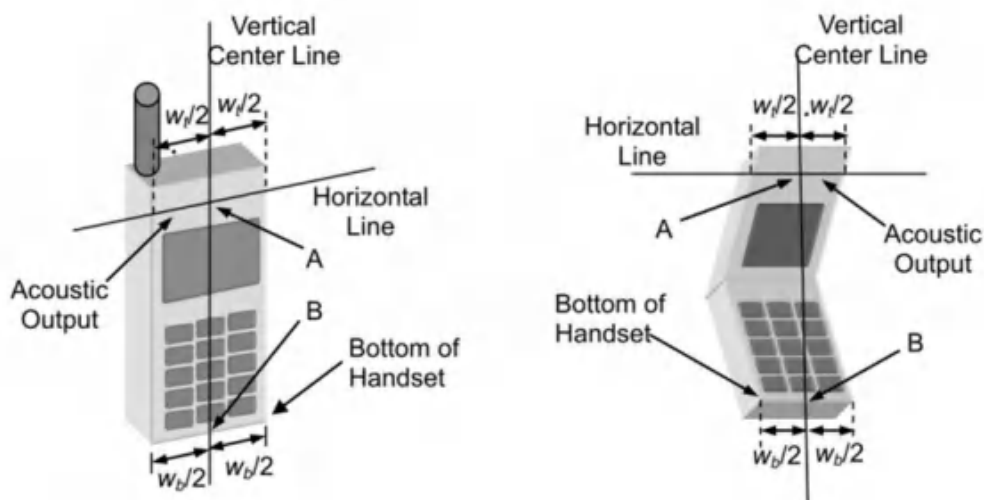
This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Side, Back Side, Left Side, Right Side, Top Side, Bottom Side.

### 8.1 Define Two Imaginary Lines on the Handset

(1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width  $w_t$  of the handset at the level of the acoustic output, and the midpoint of the width  $w_b$  of the handset.

(2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

(3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the Front Side of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



#### Cheek Position

1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

2) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost





## Title Position

- (1) To position the device in the “cheek” position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.



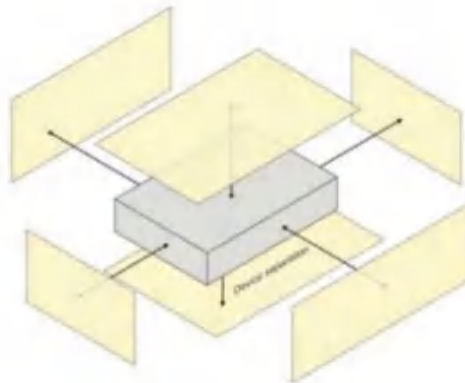
## Body-worn Position Conditions:

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.



## 8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm from that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).





## 9. Uncertainty

### 9.1 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  $k=2$ .

| Measurement uncertainty for DUT averaged over 1 gram / 10 gram.                         |       |                |                |      |         |          |                |                 |    |
|-----------------------------------------------------------------------------------------|-------|----------------|----------------|------|---------|----------|----------------|-----------------|----|
| Uncertainty Component                                                                   | Sec.  | Tol<br>(+ - %) | Prob.<br>Dist. | Div. | Ci (1g) | Ci (10g) | 1g Ui (+<br>%) | 10g Ui (+<br>%) | vi |
| <b>Measurement System</b>                                                               |       |                |                |      |         |          |                |                 |    |
| Probe calibration                                                                       | E.2.1 | 5.72           | N              | 1.00 | 1.00    | 1.00     | 5.72           | 5.72            | ∞  |
| Axial Isotropy                                                                          | E.2.2 | 0.18           | R              | 1.73 | 0.71    | 0.71     | 0.07           | 0.07            | ∞  |
| Hemispherical Isotropy                                                                  | E.2.2 | 1.04           | R              | 1.73 | 0.71    | 0.71     | 0.42           | 0.42            | ∞  |
| Boundary effect                                                                         | E.2.3 | 0.80           | R              | 1.73 | 1.00    | 1.00     | 0.46           | 0.46            | ∞  |
| Linearity                                                                               | E.2.4 | 1.25           | R              | 1.73 | 1.00    | 1.00     | 0.72           | 0.72            | ∞  |
| System detection limits                                                                 | E.2.4 | 1.20           | R              | 1.73 | 1.00    | 1.00     | 0.69           | 0.69            | ∞  |
| Modulation response                                                                     | E.2.5 | 3.42           | R              | 1.73 | 1.00    | 1.00     | 1.97           | 1.97            | ∞  |
| Readout Electronics                                                                     | E.2.6 | 0.26           | N              | 1.00 | 1.00    | 1.00     | 0.26           | 0.26            | ∞  |
| Response Time                                                                           | E.2.7 | 0.17           | R              | 1.73 | 1.00    | 1.00     | 0.10           | 0.10            | ∞  |
| Integration Time                                                                        | E.2.8 | 1.43           | R              | 1.73 | 1.00    | 1.00     | 0.83           | 0.83            | ∞  |
| RF ambient conditions-Noise                                                             | E.6.1 | 3.51           | R              | 1.73 | 1.00    | 1.00     | 2.03           | 2.03            | ∞  |
| RF ambient conditions-<br>reflections                                                   | E.6.1 | 3.15           | R              | 1.73 | 1.00    | 1.00     | 1.82           | 1.82            | ∞  |
| Probe positioner mechanical<br>tolerance                                                | E.6.2 | 1.20           | R              | 1.73 | 1.00    | 1.00     | 0.69           | 0.69            | ∞  |
| Probe positioning with<br>respect to phantom shell                                      | E.6.3 | 1.40           | R              | 1.73 | 1.00    | 1.00     | 0.81           | 0.81            | ∞  |
| Extrapolation, interpolation,<br>and integrations algorithms<br>for max. SAR evaluation | E.5   | 2.10           | R              | 1.73 | 1.00    | 1.00     | 1.21           | 1.21            | ∞  |
| <b>Test sample Related</b>                                                              |       |                |                |      |         |          |                |                 |    |
| Test sample positioning                                                                 | E.4.2 | 3.10           | N              | 1.00 | 1.00    | 1.00     | 3.10           | 3.10            | ∞  |
| Device holder uncertainty                                                               | E.4.1 | 3.80           | N              | 1.00 | 1.00    | 1.00     | 3.80           | 3.80            | ∞  |
| Output power variation—<br>SAR drift measurement                                        | E.2.9 | 4.50           | R              | 1.73 | 1.00    | 1.00     | 2.60           | 2.60            | ∞  |
| SAR scaling                                                                             | E.6.5 | 1.80           | R              | 1.73 | 1.00    | 1.00     | 1.04           | 1.04            | ∞  |
| <b>Phantom and tissue parameters</b>                                                    |       |                |                |      |         |          |                |                 |    |
| Phantom shell uncertainty—<br>shape, thickness, and<br>permittivity                     | E.3.1 | 3.70           | R              | 1.73 | 1.00    | 1.00     | 2.14           | 2.14            | ∞  |
| Uncertainty in SAR<br>correction for deviations in<br>permittivity and conductivity     | E.3.2 | 1.90           | N              | 1.00 | 1.00    | 0.84     | 1.90           | 1.60            | ∞  |
| Liquid conductivity<br>measurement                                                      | E.3.3 | 2.40           | R              | 1.73 | 0.78    | 0.71     | 1.08           | 0.98            | M  |
| Liquid permittivity<br>measurement                                                      | E.3.3 | 4.10           | N              | 1.00 | 0.78    | 0.71     | 3.20           | 2.91            | M  |
| Liquid conductivity—<br>temperature uncertainty                                         | E.3.4 | 2.70           | R              | 1.73 | 0.23    | 0.26     | 0.36           | 0.41            | ∞  |
| Liquid permittivity—<br>temperature uncertainty                                         | E.3.4 | 4.80           | N              | 1.00 | 0.23    | 0.26     | 1.10           | 1.25            | ∞  |
| Combined Standard<br>Uncertainty                                                        |       |                | RSS            |      |         |          | 10.08          | 9.59            |    |
| Expanded Uncertainty (95%<br>Confidence interval)                                       |       |                | K=2            |      |         |          | 19.58          | 19.18           |    |



| System Validation uncertainty for DUT averaged over 1 gram / 10 gram.             |         |              |                |      |         |          |             |              |    |
|-----------------------------------------------------------------------------------|---------|--------------|----------------|------|---------|----------|-------------|--------------|----|
| Uncertainty Component                                                             | Sec.    | Tol<br>(+-%) | Prob.<br>Dist. | Div. | Ci (1g) | Ci (10g) | 1g Ui (+-%) | 10g Ui (+-%) | vi |
| <b>Measurement System</b>                                                         |         |              |                |      |         |          |             |              |    |
| Probe calibration                                                                 | E.2.1   | 5.72         | N              | 1.00 | 1.00    | 1.00     | 5.72        | 5.72         | ∞  |
| Axial Isotropy                                                                    | E.2.2   | 0.18         | R              | 1.73 | 1.00    | 1.00     | 0.10        | 0.10         | ∞  |
| Hemispherical Isotropy                                                            | E.2.2   | 1.04         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| Boundary effect                                                                   | E.2.3   | 0.80         | R              | 1.73 | 1.00    | 1.00     | 0.46        | 0.46         | ∞  |
| Linearity                                                                         | E.2.4   | 1.25         | R              | 1.73 | 1.00    | 1.00     | 0.72        | 0.72         | ∞  |
| System detection limits                                                           | E.2.4   | 1.20         | R              | 1.73 | 1.00    | 1.00     | 0.69        | 0.69         | ∞  |
| Modulation response                                                               | E.2.5   | 3.42         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| Readout Electronics                                                               | E.2.6   | 0.26         | N              | 1.00 | 1.00    | 1.00     | 0.26        | 0.26         | ∞  |
| Response Time                                                                     | E.2.7   | 0.17         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| Integration Time                                                                  | E.2.8   | 1.43         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| RF ambient conditions-Noise                                                       | E.6.1   | 3.51         | R              | 1.73 | 1.00    | 1.00     | 2.03        | 2.03         | ∞  |
| RF ambient conditions-reflections                                                 | E.6.1   | 3.15         | R              | 1.73 | 1.00    | 1.00     | 1.82        | 1.82         | ∞  |
| Probe positioner mechanical tolerance                                             | E.6.2   | 1.20         | R              | 1.73 | 1.00    | 1.00     | 0.69        | 0.69         | ∞  |
| Probe positioning with respect to phantom shell                                   | E.6.3   | 1.40         | R              | 1.73 | 1.00    | 1.00     | 0.81        | 0.81         | ∞  |
| Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation | E.5     | 2.10         | R              | 1.73 | 1.00    | 1.00     | 1.21        | 1.21         | ∞  |
| <b>System validation source</b>                                                   |         |              |                |      |         |          |             |              |    |
| Deviation of experimental dipole from numerical dipole                            | E.6.4   | 4.80         | N              | 1.00 | 1.00    | 1.00     | 4.80        | 4.80         | ∞  |
| Input power and SAR drift measurement                                             | 8,6.6.4 | 5.10         | R              | 1.73 | 1.00    | 1.00     | 2.94        | 2.94         | ∞  |
| Dipole axis to liquid distance                                                    | 8,E.6.6 | 2.40         | R              | 1.73 | 1.00    | 1.00     | 1.39        | 1.39         | ∞  |
| <b>Phantom and set-up</b>                                                         |         |              |                |      |         |          |             |              |    |
| Phantom shell uncertainty—shape, thickness, and permittivity                      | E.3.1   | 3.70         | R              | 1.73 | 1.00    | 1.00     | 2.14        | 2.14         | ∞  |
| Uncertainty in SAR correction for deviations in permittivity and conductivity     | E.3.2   | 1.90         | N              | 1.00 | 1.00    | 0.84     | 1.90        | 1.60         | ∞  |
| Liquid conductivity ( temperature uncertainty )                                   | E.3.3   | 2.40         | R              | 1.73 | 0.78    | 0.71     | 1.08        | 0.98         | ∞  |
| Liquid conductivity ( measured )                                                  | E.3.3   | 4.10         | N              | 1.00 | 0.78    | 0.71     | 3.20        | 2.91         | M  |
| Liquid permittivity ( temperature uncertainty )                                   | E.3.4   | 2.70         | R              | 1.73 | 0.23    | 0.26     | 0.36        | 0.41         | ∞  |
| Liquid permittivity ( measured )                                                  | E.3.4   | 4.80         | N              | 1.00 | 0.23    | 0.26     | 1.10        | 1.25         | M  |
| Combined Standard Uncertainty                                                     |         |              | RSS            |      |         |          | 9.72        | 9.52         |    |
| Expanded Uncertainty (95% Confidence interval)                                    |         |              | K=2            |      |         |          | 19.44       | 19.03        |    |



| ° System Check uncertainty for DUT averaged over 1 gram / 10 gram.                |         |              |                |      |         |          |             |              |    |
|-----------------------------------------------------------------------------------|---------|--------------|----------------|------|---------|----------|-------------|--------------|----|
| Uncertainty Component                                                             | Sec.    | Tol<br>(+-%) | Prob.<br>Dist. | Div. | Ci (1g) | Ci (10g) | 1g Ui (+-%) | 10g Ui (+-%) | vi |
| <b>Measurement System</b>                                                         |         |              |                |      |         |          |             |              |    |
| Probe calibration drift                                                           | E.2.1.3 | 5.72         | N              | 1.00 | 1.00    | 1.00     | 5.72        | 5.72         | ∞  |
| Axial Isotropy                                                                    | E.2.2   | 0.18         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| Hemispherical Isotropy                                                            | E.2.2   | 1.04         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| Boundary effect                                                                   | E.2.3   | 0.8          | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| Linearity                                                                         | E.2.4   | 1.25         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| System detection limits                                                           | E.2.4   | 1.20         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| Modulation response                                                               | E.2.5   | 3.42         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| Readout Electronics                                                               | E.2.6   | 0.26         | N              | 1.00 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| Response Time                                                                     | E.2.7   | 0.17         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| Integration Time                                                                  | E.2.8   | 1.43         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| RF ambient conditions-Noise                                                       | E.6.1   | 3.51         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| RF ambient conditions-reflections                                                 | E.6.1   | 3.15         | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| Probe positioner mechanical tolerance                                             | E.6.2   | 1.2          | R              | 1.73 | 1.00    | 1.00     | 0.69        | 0.69         | ∞  |
| Probe positioning with respect to phantom shell                                   | E.6.3   | 1.4          | R              | 1.73 | 1.00    | 1.00     | 0.81        | 0.81         | ∞  |
| Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation | E.5     | 3.9          | R              | 1.73 | 0.00    | 0.00     | 0.00        | 0.00         | ∞  |
| <b>System check source (dipole)</b>                                               |         |              |                |      |         |          |             |              |    |
| Deviation of experimental dipoles                                                 | E.6.4   | 4.8          | N              | 1.00 | 1.00    | 1.00     | 4.80        | 4.80         | ∞  |
| Input power and SAR drift measurement                                             | 8,6.6.4 | 5.1          | R              | 1.73 | 1.00    | 1.00     | 2.94        | 2.94         | ∞  |
| Dipole axis to liquid distance                                                    | 8,E.6.6 | 2.4          | R              | 1.73 | 1.00    | 1.00     | 1.39        | 1.39         | ∞  |
| <b>Phantom and tissue parameters</b>                                              |         |              |                |      |         |          |             |              |    |
| Phantom shell uncertainty—shape, thickness, and permittivity                      | E.3.1   | 3.7          | R              | 1.73 | 1.00    | 1.00     | 2.14        | 2.14         | ∞  |
| Uncertainty in SAR correction for deviations in permittivity and conductivity     | E.3.2   | 1.9          | N              | 1.00 | 1.00    | 0.84     | 1.90        | 1.60         | ∞  |
| Liquid conductivity measurement                                                   | E.3.3   | 2.4          | R              | 1.73 | 0.78    | 0.71     | 1.08        | 0.98         | ∞  |
| Liquid permittivity measurement                                                   | E.3.3   | 4.1          | N              | 1.00 | 0.78    | 0.71     | 3.20        | 2.91         | M  |
| Liquid conductivity—temperature uncertainty                                       | E.3.4   | 2.7          | R              | 1.73 | 0.23    | 0.26     | 0.36        | 0.41         | ∞  |
| Liquid permittivity—temperature uncertainty                                       | E.3.4   | 4.8          | N              | 1.00 | 0.23    | 0.26     | 1.10        | 1.25         | M  |
| Combined Standard Uncertainty                                                     |         |              | RSS            |      |         |          | 5.56        | 5.20         |    |
| Expanded Uncertainty (95% Confidence interval)                                    |         |              | K=2            |      |         |          | 11.12       | 10.41        |    |



## 10. Conducted Power Measurement

### 10.1 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 |
| GSM(GMSK, 1-Slot)                                                                                                                                                                                                                                                                     | 33.13   | 33.09 | 33.26 | 30.44    | 29.98  | 29.42  |
| GPRS (GMSK, 1-Slot)                                                                                                                                                                                                                                                                   | 33.14   | 33.07 | 33.26 | 30.4     | 29.93  | 29.4   |
| GPRS (GMSK, 2-Slot)                                                                                                                                                                                                                                                                   | 32.41   | 32.34 | 32.5  | 29.67    | 29.19  | 28.68  |
| GPRS (GMSK, 3-Slot)                                                                                                                                                                                                                                                                   | 30.62   | 30.57 | 30.74 | 27.9     | 27.46  | 27.04  |
| GPRS (GMSK, 4-Slot)                                                                                                                                                                                                                                                                   | 29.47   | 29.43 | 29.59 | 26.74    | 26.32  | 25.99  |
| EGPRS(8PSK, 1-Slot)                                                                                                                                                                                                                                                                   | 26.61   | 25.6  | 26.67 | 25.16    | 24.8   | 25.69  |
| EGPRS(8PSK, 2-Slot)                                                                                                                                                                                                                                                                   | 25.97   | 25.42 | 25.26 | 23.69    | 24.34  | 24.44  |
| EGPRS(8PSK, 3-Slot)                                                                                                                                                                                                                                                                   | 24.04   | 23.55 | 23.52 | 21.49    | 22     | 22.37  |
| EGPRS(8PSK, 4-Slot)                                                                                                                                                                                                                                                                   | 22.78   | 22.97 | 22.45 | 20.17    | 20.74  | 21.19  |
| 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 |         |       |       |          |        |        |

| Frame- 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 |
| GSM(GMSK, 1-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 24.10   | 24.06 | 24.23 | 21.41    | 20.95   | 20.39  |
| GPRS (GMSK, 1-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 24.11   | 24.04 | 24.23 | 21.37    | 20.90   | 20.37  |
| GPRS (GMSK, 2-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 26.39   | 26.32 | 26.48 | 23.65    | 23.17   | 22.66  |
| GPRS (GMSK, 3-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 26.36   | 26.31 | 26.48 | 23.64    | 23.20   | 22.78  |
| GPRS (GMSK, 4-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 26.46   | 26.42 | 26.58 | 23.73    | 23.31   | 22.98  |
| EGPRS(8PSK, 1-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 17.58   | 16.57 | 17.64 | 16.13    | 1752.40 | 16.66  |
| EGPRS(8PSK, 2-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19.95   | 19.40 | 19.24 | 17.67    | 18.32   | 18.42  |
| EGPRS(8PSK, 3-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19.78   | 19.29 | 19.26 | 17.23    | 17.74   | 18.11  |
| EGPRS(8PSK, 4-Slot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19.77   | 19.96 | 19.44 | 17.16    | 17.73   | 18.18  |
| 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 2 |       |        | WCDMA Band 4 |       |        | WCDMA Band 5 |       |       |
|-----------------|--------------|-------|--------|--------------|-------|--------|--------------|-------|-------|
| Channel         | 9262         | 9400  | 9538   | 1312         | 1413  | 1513   | 4132         | 4183  | 4233  |
| Frequency (MHz) | 1852.4       | 1880  | 1907.6 | 1712.6       | 1740  | 1752.4 | 826.4        | 836.6 | 846.6 |
| RMC 12.2Kbps    | 23.3         | 23.43 | 23.53  | 23.42        | 23.45 | 23.4   | 23.38        | 23.37 | 23.37 |
| HSDPA Subtest-1 | 22.35        | 22    | 20.9   | 22.47        | 22.06 | 20.79  | 22.51        | 21.97 | 20.77 |
| HSDPA Subtest-2 | 20.97        | 22.49 | 22.1   | 20.91        | 22.5  | 22.1   | 20.68        | 22.49 | 21.99 |
| HSDPA Subtest-3 | 21.1         | 21.02 | 22.56  | 20.92        | 20.75 | 22.44  | 20.84        | 21.1  | 22.45 |
| HSDPA Subtest-4 | 22.15        | 21.03 | 21     | 22.02        | 20.84 | 21.17  | 22.06        | 20.53 | 20.74 |
| HSUPA Subtest-1 | 21.35        | 22.27 | 20.57  | 22.22        | 22.37 | 21.2   | 22.22        | 22.34 | 21.06 |
| HSUPA Subtest-2 | 22.35        | 20.87 | 22.31  | 22.49        | 21.65 | 22.31  | 22.41        | 21.67 | 22.27 |
| HSUPA Subtest-3 | 22.4         | 21.16 | 22.49  | 22.37        | 21.09 | 22.52  | 22.38        | 21.24 | 22.42 |
| HSUPA Subtest-4 | 21.91        | 22.42 | 22.46  | 21.9         | 22.2  | 22.22  | 21.5         | 22.28 | 22.4  |
| HSUPA Subtest-5 | 21.19        | 22.58 | 21.99  | 21.15        | 22.47 | 21.66  | 20.93        | 22.4  | 21.75 |

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.



## 2.4G WLAN

| 2.4GWIFI      |                |                 |                       |                   |
|---------------|----------------|-----------------|-----------------------|-------------------|
| Mode          | Channel Number | Frequency (MHz) | Conducted Power (dBm) | Output Power (mW) |
| 802.11b       | 1              | 2412            | 20.7                  | 117.49            |
|               | 7              | 2437            | 21.17                 | 130.92            |
|               | 11             | 2462            | 21.25                 | 133.35            |
| 802.11g       | 1              | 2412            | 19.43                 | 87.70             |
|               | 7              | 2437            | 19.85                 | 96.61             |
|               | 11             | 2462            | 19.97                 | 99.31             |
| 802.11 n-HT20 | 1              | 2412            | 19.67                 | 92.68             |
|               | 7              | 2437            | 19.37                 | 86.50             |
|               | 11             | 2462            | 20.09                 | 102.09            |
| 802.11 n-HT40 | 3              | 2422            | 19.69                 | 93.11             |
|               | 6              | 2437            | 19.88                 | 97.27             |
|               | 9              | 2452            | 20.05                 | 101.16            |

## Bluetooth

| BT                   |                |                 |                       |                   |
|----------------------|----------------|-----------------|-----------------------|-------------------|
| Mode                 | Channel Number | Frequency (MHz) | Conducted Power (dBm) | Output Power (mW) |
| GFSK(1Mbps)          | 0              | 2402            | 3.1                   | 2.04              |
|                      | 39             | 2441            | 3.06                  | 2.02              |
|                      | 78             | 2480            | 3.08                  | 2.03              |
| $\pi/4$ -QPSK(2Mbps) | 0              | 2402            | 0.96                  | 1.25              |
|                      | 39             | 2441            | 0.91                  | 1.23              |
|                      | 78             | 2480            | 0.95                  | 1.24              |
| 8DPSK(3Mbps)         | 0              | 2402            | 1.17                  | 1.31              |
|                      | 39             | 2441            | 1.15                  | 1.30              |
|                      | 78             | 2480            | 1.15                  | 1.30              |

## BLE

| BLE         |                |                 |                       |                   |
|-------------|----------------|-----------------|-----------------------|-------------------|
| Mode        | Channel Number | Frequency (MHz) | Conducted Power (dBm) | Output Power (mW) |
| GFSK(1Mbps) | 0              | 2402            | 2.04                  | 1.60              |
|             | 19             | 2440            | 1.91                  | 1.55              |
|             | 39             | 2480            | 1.81                  | 1.52              |
| GFSK(2Mbps) | 0              | 2402            | 2.04                  | 1.60              |
|             | 19             | 2440            | 1.91                  | 1.55              |
|             | 39             | 2480            | 1.82                  | 1.52              |

**WLAN (5.2Gband)**

| 5.2G WLAN      |                |                 |                   |                   |
|----------------|----------------|-----------------|-------------------|-------------------|
| Mode           | Channel Number | Frequency (MHz) | Total Power (dBm) | Output Power (mW) |
| 802.11a        | 36             | 5180            | 13.91             | 24.60             |
|                | 40             | 5200            | 14.37             | 27.35             |
|                | 48             | 5240            | 14.39             | 27.48             |
| 802.11 n-HT20  | 36             | 5180            | 12.7              | 18.62             |
|                | 40             | 5200            | 13.18             | 20.80             |
|                | 48             | 5240            | 13.26             | 21.18             |
| 802.11 n-HT40  | 38             | 5190            | 13.3              | 21.38             |
|                | 46             | 5230            | 13.63             | 23.07             |
| 802.11ac-VHT20 | 36             | 5180            | 12.74             | 18.79             |
|                | 40             | 5200            | 13.09             | 20.37             |
|                | 48             | 5240            | 13.29             | 21.33             |
| 802.11ac-VHT40 | 38             | 5190            | 13.31             | 21.43             |
|                | 46             | 5230            | 13.67             | 23.28             |
| 802.11ac-VHT80 | 42             | 5210            | 13.66             | 23.23             |

**WLAN (5.8Gband)**

| 5.8G WLAN      |                |                 |                   |                   |
|----------------|----------------|-----------------|-------------------|-------------------|
| Mode           | Channel Number | Frequency (MHz) | Total Power (dBm) | Output Power (mW) |
| 802.11a        | 149            | 5745            | 13.66             | 23.23             |
|                | 157            | 5785            | 14.22             | 26.42             |
|                | 165            | 5825            | 14.57             | 28.64             |
| 802.11 n-HT20  | 149            | 5745            | 13.19             | 20.84             |
|                | 157            | 5785            | 13.67             | 23.28             |
|                | 165            | 5825            | 13.12             | 20.51             |
| 802.11 n-HT40  | 151            | 5755            | 12.69             | 18.58             |
|                | 159            | 5795            | 13.3              | 21.38             |
| 802.11ac-VHT20 | 149            | 5745            | 12.13             | 16.33             |
|                | 157            | 5785            | 12.75             | 18.84             |
|                | 165            | 5825            | 13.06             | 20.23             |
| 802.11ac-VHT40 | 151            | 5755            | 12.69             | 18.58             |
|                | 159            | 5795            | 13.4              | 21.88             |
| 802.11ac-VHT80 | 155            | 5775            | 13.45             | 22.13             |



## 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 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                    | 1       | 0         | QPSK   | 23.07  | 23.28  | 23.33   |
| 1.4                                    | 1       | 2         |        | 23.06  | 23.27  | 23.35   |
| 1.4                                    | 1       | 5         |        | 23.15  | 23.27  | 23.28   |
| 1.4                                    | 3       | 0         |        | 23.06  | 23.24  | 23.31   |
| 1.4                                    | 3       | 1         |        | 23.05  | 23.23  | 23.32   |
| 1.4                                    | 3       | 2         |        | 23.06  | 23.26  | 23.3    |
| 1.4                                    | 6       | 0         |        | 22.04  | 22.31  | 22.33   |
| 1.4                                    | 1       | 0         | 16-QAM | 21.97  | 22.34  | 22.54   |
| 1.4                                    | 1       | 2         |        | 21.95  | 22.37  | 22.52   |
| 1.4                                    | 1       | 5         |        | 21.98  | 22.33  | 22.55   |
| 1.4                                    | 3       | 0         |        | 22.1   | 22.31  | 22.47   |
| 1.4                                    | 3       | 1         |        | 22.11  | 22.28  | 22.46   |
| 1.4                                    | 3       | 2         |        | 22.1   | 22.27  | 22.48   |
| 1.4                                    | 6       | 0         |        | 21.15  | 21.44  | 21.4    |
| 3                                      | 1       | 0         | QPSK   | 23.05  | 23.29  | 23.29   |
| 3                                      | 1       | 7         |        | 23.1   | 23.34  | 23.32   |
| 3                                      | 1       | 14        |        | 23.12  | 23.31  | 23.31   |
| 3                                      | 8       | 0         |        | 22.08  | 22.25  | 22.39   |
| 3                                      | 8       | 4         |        | 22.05  | 22.26  | 22.34   |
| 3                                      | 8       | 7         |        | 22.08  | 22.26  | 22.36   |
| 3                                      | 15      | 0         |        | 22.07  | 22.28  | 22.37   |
| 3                                      | 1       | 0         | 16-QAM | 22.3   | 22.46  | 22.4    |
| 3                                      | 1       | 7         |        | 22.31  | 22.5   | 22.39   |
| 3                                      | 1       | 14        |        | 22.3   | 22.53  | 22.4    |
| 3                                      | 8       | 0         |        | 21.07  | 21.31  | 21.43   |
| 3                                      | 8       | 4         |        | 21.04  | 21.32  | 21.39   |
| 3                                      | 8       | 7         |        | 21.06  | 21.32  | 21.42   |
| 3                                      | 15      | 0         |        | 21.12  | 21.2   | 21.24   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                      | 1       | 0         | QPSK   | 23.17  | 23.4   | 23.33   |
| 5                                      | 1       | 12        |        | 23.2   | 23.45  | 23.37   |
| 5                                      | 1       | 24        |        | 23.22  | 23.41  | 23.36   |
| 5                                      | 12      | 0         |        | 22.13  | 22.33  | 22.44   |
| 5                                      | 12      | 6         |        | 22.1   | 22.34  | 22.4    |
| 5                                      | 12      | 11        |        | 22.11  | 22.31  | 22.39   |
| 5                                      | 25      | 0         |        | 22.17  | 22.38  | 22.43   |
| 5                                      | 1       | 0         | 16-QAM | 22.25  | 22.66  | 22.5    |
| 5                                      | 1       | 12        |        | 22.29  | 22.74  | 22.52   |
| 5                                      | 1       | 24        |        | 22.29  | 22.69  | 22.52   |
| 5                                      | 12      | 0         |        | 21.23  | 21.37  | 21.52   |
| 5                                      | 12      | 6         |        | 21.23  | 21.36  | 21.51   |
| 5                                      | 12      | 11        |        | 21.23  | 21.34  | 21.48   |
| 5                                      | 25      | 0         |        | 21.15  | 21.37  | 21.38   |
| 10                                     | 1       | 0         | QPSK   | 23.14  | 23.31  | 23.4    |
| 10                                     | 1       | 24        |        | 23.14  | 23.35  | 23.43   |
| 10                                     | 1       | 49        |        | 23.25  | 23.34  | 23.46   |
| 10                                     | 25      | 0         |        | 22.17  | 22.35  | 22.36   |
| 10                                     | 25      | 12        |        | 22.16  | 22.32  | 22.42   |
| 10                                     | 25      | 24        |        | 22.19  | 22.3   | 22.39   |
| 10                                     | 50      | 0         |        | 22.18  | 22.32  | 22.4    |
| 10                                     | 1       | 0         | 16-QAM | 22.3   | 22.39  | 22.64   |
| 10                                     | 1       | 24        |        | 22.34  | 22.41  | 22.63   |
| 10                                     | 1       | 49        |        | 22.45  | 22.43  | 22.66   |
| 10                                     | 25      | 0         |        | 21.24  | 21.35  | 21.34   |
| 10                                     | 25      | 12        |        | 21.22  | 21.32  | 21.42   |
| 10                                     | 25      | 24        |        | 21.25  | 21.32  | 21.41   |
| 10                                     | 50      | 0         |        | 21.17  | 21.33  | 21.37   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                     | 1       | 0         | QPSK   | 23.15  | 23.29  | 23.38   |
| 15                                     | 1       | 37        |        | 23.28  | 23.45  | 23.52   |
| 15                                     | 1       | 74        |        | 23.2   | 23.27  | 23.5    |
| 15                                     | 36      | 0         |        | 22.16  | 22.32  | 22.35   |
| 15                                     | 36      | 18        |        | 22.2   | 22.35  | 22.43   |
| 15                                     | 36      | 39        |        | 22.21  | 22.31  | 22.46   |
| 15                                     | 75      | 0         |        | 22.21  | 22.33  | 22.4    |
| 15                                     | 1       | 0         | 16-QAM | 22.31  | 22.35  | 22.34   |
| 15                                     | 1       | 38        |        | 22.48  | 22.5   | 22.55   |
| 15                                     | 1       | 75        |        | 22.42  | 22.38  | 22.51   |
| 15                                     | 36      | 0         |        | 21.17  | 21.34  | 21.32   |
| 15                                     | 36      | 18        |        | 21.2   | 21.35  | 21.39   |
| 15                                     | 36      | 39        |        | 21.21  | 21.35  | 21.44   |
| 15                                     | 75      | 0         |        | 21.22  | 21.34  | 21.43   |
| 20                                     | 1       | 0         | QPSK   | 23.19  | 23.3   | 23.18   |
| 20                                     | 1       | 49        |        | 23.25  | 23.45  | 23.39   |
| 20                                     | 1       | 99        |        | 23.27  | 23.36  | 23.39   |
| 20                                     | 50      | 0         |        | 22.27  | 22.33  | 22.34   |
| 20                                     | 50      | 24        |        | 22.27  | 22.4   | 22.45   |
| 20                                     | 50      | 49        |        | 22.31  | 22.35  | 22.5    |
| 20                                     | 100     | 0         |        | 22.3   | 22.34  | 22.43   |
| 20                                     | 1       | 0         | 16-QAM | 22.17  | 22.33  | 22.39   |
| 20                                     | 1       | 49        |        | 22.35  | 22.49  | 22.59   |
| 20                                     | 1       | 99        |        | 22.37  | 22.36  | 22.59   |
| 20                                     | 50      | 0         |        | 21.28  | 21.37  | 21.35   |
| 20                                     | 50      | 24        |        | 21.29  | 21.42  | 21.46   |
| 20                                     | 50      | 49        |        | 21.33  | 21.36  | 21.5    |
| 20                                     | 100     | 0         |        | 21.29  | 21.34  | 21.42   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                    | 1       | 0         | QPSK   | 23.38  | 23.53  | 23.3    |
| 1.4                                    | 1       | 2         |        | 23.33  | 23.56  | 23.32   |
| 1.4                                    | 1       | 5         |        | 23.28  | 23.58  | 23.29   |
| 1.4                                    | 3       | 0         |        | 23.32  | 23.44  | 23.32   |
| 1.4                                    | 3       | 1         |        | 23.31  | 23.44  | 23.29   |
| 1.4                                    | 3       | 2         |        | 23.32  | 23.44  | 23.36   |
| 1.4                                    | 6       | 0         |        | 22.32  | 22.45  | 22.37   |
| 1.4                                    | 1       | 0         | 16-QAM | 22.55  | 22.44  | 22.39   |
| 1.4                                    | 1       | 2         |        | 22.53  | 22.42  | 22.43   |
| 1.4                                    | 1       | 5         |        | 22.55  | 22.45  | 22.4    |
| 1.4                                    | 3       | 0         |        | 22.45  | 22.48  | 22.4    |
| 1.4                                    | 3       | 1         |        | 22.44  | 22.49  | 22.35   |
| 1.4                                    | 3       | 2         |        | 22.5   | 22.49  | 22.35   |
| 1.4                                    | 6       | 0         |        | 21.42  | 21.63  | 21.54   |
| 3                                      | 1       | 0         | QPSK   | 23.3   | 23.49  | 23.33   |
| 3                                      | 1       | 7         |        | 23.3   | 23.52  | 23.37   |
| 3                                      | 1       | 14        |        | 23.31  | 23.51  | 23.32   |
| 3                                      | 8       | 0         |        | 22.33  | 22.45  | 22.37   |
| 3                                      | 8       | 4         |        | 22.26  | 22.4   | 22.36   |
| 3                                      | 8       | 7         |        | 22.28  | 22.41  | 22.39   |
| 3                                      | 15      | 0         |        | 22.33  | 22.47  | 22.39   |
| 3                                      | 1       | 0         | 16-QAM | 22.56  | 22.72  | 22.4    |
| 3                                      | 1       | 7         |        | 22.56  | 22.74  | 22.48   |
| 3                                      | 1       | 14        |        | 22.54  | 22.74  | 22.43   |
| 3                                      | 8       | 0         |        | 21.31  | 21.54  | 21.47   |
| 3                                      | 8       | 4         |        | 21.29  | 21.52  | 21.43   |
| 3                                      | 8       | 7         |        | 21.28  | 21.54  | 21.46   |
| 3                                      | 15      | 0         |        | 21.37  | 21.38  | 21.24   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                      | 1       | 0         | QPSK   | 23.49  | 23.66  | 23.39   |
| 5                                      | 1       | 12        |        | 23.45  | 23.64  | 23.39   |
| 5                                      | 1       | 24        |        | 23.43  | 23.61  | 23.38   |
| 5                                      | 12      | 0         |        | 22.36  | 22.52  | 22.42   |
| 5                                      | 12      | 6         |        | 22.35  | 22.51  | 22.46   |
| 5                                      | 12      | 11        |        | 22.36  | 22.52  | 22.41   |
| 5                                      | 25      | 0         |        | 22.43  | 22.56  | 22.48   |
| 5                                      | 1       | 0         | 16-QAM | 22.56  | 22.92  | 22.56   |
| 5                                      | 1       | 12        |        | 22.55  | 22.95  | 22.58   |
| 5                                      | 1       | 24        |        | 22.52  | 22.93  | 22.57   |
| 5                                      | 12      | 0         |        | 21.49  | 21.54  | 21.52   |
| 5                                      | 12      | 6         |        | 21.48  | 21.52  | 21.5    |
| 5                                      | 12      | 11        |        | 21.49  | 21.52  | 21.53   |
| 5                                      | 25      | 0         |        | 21.42  | 21.55  | 21.41   |
| 10                                     | 1       | 0         | QPSK   | 23.42  | 23.61  | 23.47   |
| 10                                     | 1       | 24        |        | 23.36  | 23.6   | 23.42   |
| 10                                     | 1       | 49        |        | 23.48  | 23.6   | 23.42   |
| 10                                     | 25      | 0         |        | 22.39  | 22.55  | 22.45   |
| 10                                     | 25      | 12        |        | 22.41  | 22.51  | 22.44   |
| 10                                     | 25      | 24        |        | 22.46  | 22.54  | 22.46   |
| 10                                     | 50      | 0         |        | 22.42  | 22.56  | 22.44   |
| 10                                     | 1       | 0         | 16-QAM | 22.46  | 22.85  | 22.71   |
| 10                                     | 1       | 24        |        | 22.45  | 22.86  | 22.61   |
| 10                                     | 1       | 49        |        | 22.56  | 22.89  | 22.66   |
| 10                                     | 25      | 0         |        | 21.37  | 21.53  | 21.49   |
| 10                                     | 25      | 12        |        | 21.4   | 21.5   | 21.48   |
| 10                                     | 25      | 24        |        | 21.45  | 21.52  | 21.51   |
| 10                                     | 50      | 0         |        | 21.43  | 21.55  | 21.42   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                     | 1       | 0         | QPSK   | 23.38  | 23.6   | 23.49   |
| 15                                     | 1       | 37        |        | 23.52  | 23.64  | 23.54   |
| 15                                     | 1       | 74        |        | 23.51  | 23.59  | 23.5    |
| 15                                     | 36      | 0         |        | 22.41  | 22.55  | 22.44   |
| 15                                     | 36      | 18        |        | 22.46  | 22.54  | 22.46   |
| 15                                     | 36      | 39        |        | 22.48  | 22.54  | 22.44   |
| 15                                     | 75      | 0         |        | 22.43  | 22.56  | 22.47   |
| 15                                     | 1       | 0         | 16-QAM | 22.51  | 22.66  | 22.71   |
| 15                                     | 1       | 38        |        | 22.57  | 22.68  | 22.73   |
| 15                                     | 1       | 75        |        | 22.57  | 22.61  | 22.64   |
| 15                                     | 36      | 0         |        | 21.43  | 21.53  | 21.44   |
| 15                                     | 36      | 18        |        | 21.48  | 21.53  | 21.44   |
| 15                                     | 36      | 39        |        | 21.51  | 21.53  | 21.44   |
| 15                                     | 75      | 0         |        | 21.44  | 21.58  | 21.48   |
| 20                                     | 1       | 0         | QPSK   | 23.36  | 23.48  | 23.58   |
| 20                                     | 1       | 49        |        | 23.48  | 23.65  | 23.56   |
| 20                                     | 1       | 99        |        | 23.58  | 23.55  | 23.55   |
| 20                                     | 50      | 0         |        | 22.46  | 22.62  | 22.48   |
| 20                                     | 50      | 24        |        | 22.54  | 22.62  | 22.51   |
| 20                                     | 50      | 49        |        | 22.58  | 22.62  | 22.53   |
| 20                                     | 100     | 0         |        | 22.5   | 22.63  | 22.52   |
| 20                                     | 1       | 0         | 16-QAM | 22.51  | 22.52  | 22.61   |
| 20                                     | 1       | 49        |        | 22.65  | 22.71  | 22.59   |
| 20                                     | 1       | 99        |        | 22.79  | 22.61  | 22.51   |
| 20                                     | 50      | 0         |        | 21.47  | 21.6   | 21.5    |
| 20                                     | 50      | 24        |        | 21.55  | 21.62  | 21.56   |
| 20                                     | 50      | 49        |        | 21.59  | 21.6   | 21.56   |
| 20                                     | 100     | 0         |        | 21.49  | 21.59  | 21.5    |



| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                    | 1       | 0         | QPSK   | 23.91  | 23.97  | 23.82   |
| 1.4                                    | 1       | 2         |        | 23.86  | 23.96  | 23.81   |
| 1.4                                    | 1       | 5         |        | 23.85  | 23.98  | 23.77   |
| 1.4                                    | 3       | 0         |        | 23.83  | 23.81  | 23.81   |
| 1.4                                    | 3       | 1         |        | 23.84  | 23.82  | 23.78   |
| 1.4                                    | 3       | 2         |        | 23.85  | 23.81  | 23.83   |
| 1.4                                    | 6       | 0         |        | 22.88  | 22.83  | 22.88   |
| 1.4                                    | 1       | 0         | 16-QAM | 23.11  | 22.83  | 22.92   |
| 1.4                                    | 1       | 2         |        | 23.1   | 22.85  | 22.9    |
| 1.4                                    | 1       | 5         |        | 23.13  | 22.83  | 22.88   |
| 1.4                                    | 3       | 0         |        | 22.99  | 22.87  | 22.87   |
| 1.4                                    | 3       | 1         |        | 22.97  | 22.87  | 22.89   |
| 1.4                                    | 3       | 2         |        | 23     | 22.86  | 22.84   |
| 1.4                                    | 6       | 0         |        | 21.9   | 21.99  | 21.99   |
| 3                                      | 1       | 0         | QPSK   | 23.84  | 23.84  | 23.87   |
| 3                                      | 1       | 7         |        | 23.86  | 23.84  | 23.91   |
| 3                                      | 1       | 14        |        | 23.85  | 23.83  | 23.81   |
| 3                                      | 8       | 0         |        | 22.86  | 22.88  | 22.89   |
| 3                                      | 8       | 4         |        | 22.81  | 22.84  | 22.87   |
| 3                                      | 8       | 7         |        | 22.85  | 22.87  | 22.83   |
| 3                                      | 15      | 0         |        | 22.85  | 22.86  | 22.83   |
| 3                                      | 1       | 0         | 16-QAM | 23.04  | 22.91  | 23.16   |
| 3                                      | 1       | 7         |        | 23.08  | 22.88  | 23.15   |
| 3                                      | 1       | 14        |        | 23.04  | 22.91  | 23.04   |
| 3                                      | 8       | 0         |        | 21.93  | 21.98  | 21.86   |
| 3                                      | 8       | 4         |        | 21.89  | 21.94  | 21.84   |
| 3                                      | 8       | 7         |        | 21.91  | 21.93  | 21.78   |
| 3                                      | 15      | 0         |        | 21.78  | 21.74  | 21.93   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                      | 1       | 0         | QPSK   | 23.85  | 24.06  | 23.95   |
| 5                                      | 1       | 12        |        | 23.89  | 24.02  | 23.93   |
| 5                                      | 1       | 24        |        | 23.85  | 24     | 23.92   |
| 5                                      | 12      | 0         |        | 22.91  | 22.91  | 22.9    |
| 5                                      | 12      | 6         |        | 22.89  | 22.89  | 22.88   |
| 5                                      | 12      | 11        |        | 22.87  | 22.88  | 22.86   |
| 5                                      | 25      | 0         |        | 22.93  | 22.92  | 22.89   |
| 5                                      | 1       | 0         | 16-QAM | 23.02  | 23.06  | 23.24   |
| 5                                      | 1       | 12        |        | 23.06  | 23.06  | 23.24   |
| 5                                      | 1       | 24        |        | 23.02  | 23.04  | 23.26   |
| 5                                      | 12      | 0         |        | 22.02  | 22.03  | 21.91   |
| 5                                      | 12      | 6         |        | 22.01  | 22.03  | 21.87   |
| 5                                      | 12      | 11        |        | 21.98  | 21.99  | 21.87   |
| 5                                      | 25      | 0         |        | 21.9   | 21.93  | 21.93   |
| 10                                     | 1       | 0         | QPSK   | 23.87  | 23.89  | 23.86   |
| 10                                     | 1       | 24        |        | 23.91  | 23.91  | 23.85   |
| 10                                     | 1       | 49        |        | 23.88  | 23.85  | 23.87   |
| 10                                     | 25      | 0         |        | 22.89  | 22.85  | 22.86   |
| 10                                     | 25      | 12        |        | 22.88  | 22.89  | 22.85   |
| 10                                     | 25      | 24        |        | 22.9   | 22.88  | 22.85   |
| 10                                     | 50      | 0         |        | 22.9   | 22.89  | 22.84   |
| 10                                     | 1       | 0         | 16-QAM | 23.12  | 23.08  | 22.9    |
| 10                                     | 1       | 24        |        | 23.12  | 23.14  | 22.91   |
| 10                                     | 1       | 49        |        | 23.15  | 23.09  | 22.92   |
| 10                                     | 25      | 0         |        | 21.9   | 21.91  | 21.87   |
| 10                                     | 25      | 12        |        | 21.88  | 21.94  | 21.85   |
| 10                                     | 25      | 24        |        | 21.9   | 21.92  | 21.86   |
| 10                                     | 50      | 0         |        | 21.91  | 21.89  | 21.86   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                      | 1       | 0         | QPSK   | 21.93  | 22.46  | 23.29   |
| 5                                      | 1       | 12        |        | 21.94  | 22.53  | 23.27   |
| 5                                      | 1       | 24        |        | 21.93  | 22.56  | 23.35   |
| 5                                      | 12      | 0         |        | 20.83  | 21.54  | 22.33   |
| 5                                      | 12      | 6         |        | 20.83  | 21.54  | 22.32   |
| 5                                      | 12      | 11        |        | 20.86  | 21.57  | 22.32   |
| 5                                      | 25      | 0         |        | 20.9   | 21.6   | 22.34   |
| 5                                      | 1       | 0         | 16-QAM | 21.21  | 21.62  | 22.36   |
| 5                                      | 1       | 12        |        | 21.27  | 21.74  | 22.46   |
| 5                                      | 1       | 24        |        | 21.22  | 21.7   | 22.49   |
| 5                                      | 12      | 0         |        | 19.84  | 20.62  | 21.42   |
| 5                                      | 12      | 6         |        | 19.86  | 20.66  | 21.43   |
| 5                                      | 12      | 11        |        | 19.9   | 20.7   | 21.44   |
| 5                                      | 25      | 0         |        | 19.97  | 20.65  | 21.33   |
| 10                                     | 1       | 0         | QPSK   | 21.83  | 22.48  | 23.17   |
| 10                                     | 1       | 24        |        | 21.81  | 22.53  | 23.27   |
| 10                                     | 1       | 49        |        | 21.88  | 22.61  | 23.42   |
| 10                                     | 25      | 0         |        | 20.85  | 21.55  | 22.23   |
| 10                                     | 25      | 12        |        | 20.88  | 21.57  | 22.31   |
| 10                                     | 25      | 24        |        | 20.89  | 21.59  | 22.34   |
| 10                                     | 50      | 0         |        | 20.89  | 21.57  | 22.31   |
| 10                                     | 1       | 0         | 16-QAM | 21.04  | 21.53  | 22.38   |
| 10                                     | 1       | 24        |        | 21.03  | 21.62  | 22.44   |
| 10                                     | 1       | 49        |        | 21.1   | 21.71  | 22.55   |
| 10                                     | 25      | 0         |        | 19.93  | 20.55  | 21.24   |
| 10                                     | 25      | 12        |        | 19.93  | 20.56  | 21.31   |
| 10                                     | 25      | 24        |        | 19.94  | 20.59  | 21.37   |
| 10                                     | 50      | 0         |        | 19.97  | 20.67  | 21.34   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                     | 1       | 0         | QPSK   | 21.9   | 22.54  | 22.97   |
| 15                                     | 1       | 37        |        | 21.9   | 22.68  | 23.21   |
| 15                                     | 1       | 74        |        | 21.97  | 22.82  | 23.43   |
| 15                                     | 36      | 0         |        | 20.84  | 21.54  | 22.14   |
| 15                                     | 36      | 18        |        | 20.85  | 21.56  | 22.24   |
| 15                                     | 36      | 39        |        | 20.88  | 21.64  | 22.33   |
| 15                                     | 75      | 0         |        | 20.9   | 21.58  | 22.23   |
| 15                                     | 1       | 0         | 16-QAM | 20.93  | 21.67  | 22.03   |
| 15                                     | 1       | 37        |        | 20.94  | 21.84  | 22.37   |
| 15                                     | 1       | 74        |        | 21.03  | 21.89  | 22.52   |
| 15                                     | 36      | 0         |        | 19.83  | 20.55  | 21.17   |
| 15                                     | 36      | 18        |        | 19.82  | 20.57  | 21.27   |
| 15                                     | 36      | 39        |        | 19.88  | 20.63  | 21.37   |
| 15                                     | 75      | 0         |        | 19.99  | 20.68  | 21.26   |
| 20                                     | 1       | 0         | QPSK   | 21.86  | 22.47  | 22.82   |
| 20                                     | 1       | 49        |        | 21.85  | 22.67  | 23.15   |
| 20                                     | 1       | 99        |        | 22.06  | 22.81  | 23.47   |
| 20                                     | 50      | 0         |        | 20.87  | 21.57  | 22.05   |
| 20                                     | 50      | 24        |        | 20.91  | 21.63  | 22.23   |
| 20                                     | 50      | 49        |        | 21     | 21.67  | 22.36   |
| 20                                     | 100     | 0         |        | 20.92  | 21.63  | 22.19   |
| 20                                     | 1       | 0         | 16-QAM | 20.88  | 21.56  | 21.83   |
| 20                                     | 1       | 49        |        | 20.91  | 21.77  | 22.22   |
| 20                                     | 1       | 99        |        | 21.07  | 21.9   | 22.49   |
| 20                                     | 50      | 0         |        | 19.9   | 20.56  | 21.06   |
| 20                                     | 50      | 24        |        | 19.94  | 20.63  | 21.23   |
| 20                                     | 50      | 49        |        | 20.02  | 20.67  | 21.33   |
| 20                                     | 100     | 0         |        | 20.01  | 20.66  | 21.16   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK   | 23.88  | 23.92  | 23.83   |
| 1.4                                     | 1       | 2         |        | 23.89  | 24     | 23.79   |
| 1.4                                     | 1       | 5         |        | 23.94  | 24.01  | 23.77   |
| 1.4                                     | 3       | 0         |        | 23.79  | 23.84  | 23.83   |
| 1.4                                     | 3       | 1         |        | 23.82  | 23.84  | 23.83   |
| 1.4                                     | 3       | 2         |        | 23.83  | 23.85  | 23.8    |
| 1.4                                     | 6       | 0         |        | 22.84  | 22.83  | 22.82   |
| 1.4                                     | 1       | 0         | 16-QAM | 23.05  | 22.76  | 22.88   |
| 1.4                                     | 1       | 2         |        | 23.05  | 22.83  | 22.84   |
| 1.4                                     | 1       | 5         |        | 23.11  | 22.81  | 22.83   |
| 1.4                                     | 3       | 0         |        | 22.93  | 22.91  | 22.86   |
| 1.4                                     | 3       | 1         |        | 22.98  | 22.9   | 22.87   |
| 1.4                                     | 3       | 2         |        | 23.03  | 22.92  | 22.78   |
| 1.4                                     | 6       | 0         |        | 21.93  | 22.01  | 21.97   |
| 3                                       | 1       | 0         | QPSK   | 23.84  | 23.76  | 23.87   |
| 3                                       | 1       | 7         |        | 23.85  | 23.9   | 23.92   |
| 3                                       | 1       | 14        |        | 23.82  | 23.88  | 23.87   |
| 3                                       | 8       | 0         |        | 22.85  | 22.85  | 22.9    |
| 3                                       | 8       | 4         |        | 22.84  | 22.86  | 22.87   |
| 3                                       | 8       | 7         |        | 22.81  | 22.86  | 22.79   |
| 3                                       | 15      | 0         |        | 22.85  | 22.9   | 22.83   |
| 3                                       | 1       | 0         | 16-QAM | 23.01  | 22.85  | 23.19   |
| 3                                       | 1       | 7         |        | 23.01  | 22.98  | 23.19   |
| 3                                       | 1       | 14        |        | 23.03  | 22.96  | 23.07   |
| 3                                       | 8       | 0         |        | 21.9   | 21.95  | 21.86   |
| 3                                       | 8       | 4         |        | 21.89  | 21.91  | 21.82   |
| 3                                       | 8       | 7         |        | 21.87  | 21.94  | 21.78   |
| 3                                       | 15      | 0         |        | 21.78  | 21.76  | 21.91   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK   | 23.93  | 23.98  | 23.87   |
| 5                                       | 1       | 12        |        | 23.92  | 24.05  | 23.9    |
| 5                                       | 1       | 24        |        | 23.98  | 24.01  | 23.84   |
| 5                                       | 12      | 0         |        | 22.88  | 22.94  | 22.9    |
| 5                                       | 12      | 6         |        | 22.89  | 22.9   | 22.89   |
| 5                                       | 12      | 11        |        | 22.9   | 22.89  | 22.88   |
| 5                                       | 25      | 0         |        | 22.91  | 22.93  | 22.91   |
| 5                                       | 1       | 0         | 16-QAM | 23.05  | 23.25  | 23.01   |
| 5                                       | 1       | 12        |        | 22.94  | 23.31  | 23.1    |
| 5                                       | 1       | 24        |        | 23.02  | 23.31  | 23.01   |
| 5                                       | 12      | 0         |        | 22     | 21.93  | 22      |
| 5                                       | 12      | 6         |        | 22.01  | 21.91  | 22.01   |
| 5                                       | 12      | 11        |        | 22.03  | 21.91  | 21.99   |
| 5                                       | 25      | 0         |        | 21.91  | 21.94  | 21.86   |
| 10                                      | 1       | 0         | QPSK   | 23.82  | 23.84  | 23.81   |
| 10                                      | 1       | 24        |        | 23.87  | 23.94  | 23.88   |
| 10                                      | 1       | 49        |        | 23.93  | 23.87  | 23.85   |
| 10                                      | 25      | 0         |        | 22.86  | 22.89  | 22.9    |
| 10                                      | 25      | 12        |        | 22.92  | 22.86  | 22.85   |
| 10                                      | 25      | 24        |        | 22.92  | 22.9   | 22.87   |
| 10                                      | 50      | 0         |        | 22.89  | 22.88  | 22.88   |
| 10                                      | 1       | 0         | 16-QAM | 23.03  | 22.9   | 23.08   |
| 10                                      | 1       | 24        |        | 23.12  | 23.02  | 23.14   |
| 10                                      | 1       | 49        |        | 23.14  | 22.94  | 23.12   |
| 10                                      | 25      | 0         |        | 21.93  | 21.89  | 21.91   |
| 10                                      | 25      | 12        |        | 21.95  | 21.87  | 21.87   |
| 10                                      | 25      | 24        |        | 21.97  | 21.9   | 21.87   |
| 10                                      | 50      | 0         |        | 21.88  | 21.92  | 21.89   |



| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK   | 23.04  | 24.54  | 23.6    |
| 5                                       | 1       | 12        |        | 23.1   | 24.61  | 23.54   |
| 5                                       | 1       | 24        |        | 23.07  | 24.63  | 23.51   |
| 5                                       | 12      | 0         |        | 22.92  | 24.59  | 23.57   |
| 5                                       | 12      | 6         |        | 22.9   | 24.58  | 23.44   |
| 5                                       | 12      | 11        |        | 22.92  | 24.56  | 23.51   |
| 5                                       | 25      | 0         |        | 22.95  | 24.63  | 23.58   |
| 5                                       | 1       | 0         | 16-QAM | 23.32  | 24.59  | 23.66   |
| 5                                       | 1       | 12        |        | 23.33  | 24.66  | 23.63   |
| 5                                       | 1       | 24        |        | 23.32  | 24.67  | 23.56   |
| 5                                       | 12      | 0         |        | 22.94  | 24.72  | 23.68   |
| 5                                       | 12      | 6         |        | 22.99  | 24.73  | 23.56   |
| 5                                       | 12      | 11        |        | 22.96  | 24.75  | 23.59   |
| 5                                       | 25      | 0         |        | 22.94  | 24.62  | 23.53   |
| 10                                      | 1       | 0         | QPSK   | 22.88  | 24.43  | 23.71   |
| 10                                      | 1       | 24        |        | 22.84  | 24.51  | 23.56   |
| 10                                      | 1       | 49        |        | 22.9   | 24.54  | 23.52   |
| 10                                      | 25      | 0         |        | 22.94  | 24.58  | 23.62   |
| 10                                      | 25      | 12        |        | 22.93  | 24.57  | 23.57   |
| 10                                      | 25      | 24        |        | 22.97  | 24.66  | 23.5    |
| 10                                      | 50      | 0         |        | 22.93  | 24.65  | 23.61   |
| 10                                      | 1       | 0         | 16-QAM | 23.27  | 24.43  | 24      |
| 10                                      | 1       | 24        |        | 23.28  | 24.52  | 23.84   |
| 10                                      | 1       | 49        |        | 23.32  | 24.56  | 23.78   |
| 10                                      | 25      | 0         |        | 23     | 24.6   | 23.65   |
| 10                                      | 25      | 12        |        | 23     | 24.59  | 23.58   |
| 10                                      | 25      | 24        |        | 23.03  | 24.67  | 23.51   |
| 10                                      | 50      | 0         |        | 22.95  | 24.66  | 23.58   |



| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK   | 22.96  | 24.44  | 23.68   |
| 15                                      | 1       | 37        |        | 23.02  | 24.57  | 23.56   |
| 15                                      | 1       | 74        |        | 22.99  | 24.61  | 23.39   |
| 15                                      | 36      | 0         |        | 22.89  | 24.55  | 23.69   |
| 15                                      | 36      | 18        |        | 22.93  | 24.58  | 23.62   |
| 15                                      | 36      | 39        |        | 22.94  | 24.63  | 23.5    |
| 15                                      | 75      | 0         |        | 22.97  | 24.62  | 23.64   |
| 15                                      | 1       | 0         | 16-QAM | 23.04  | 24.86  | 23.69   |
| 15                                      | 1       | 37        |        | 23.07  | 24.99  | 23.56   |
| 15                                      | 1       | 74        |        | 23.07  | 24.95  | 23.39   |
| 15                                      | 36      | 0         |        | 22.88  | 24.54  | 23.72   |
| 15                                      | 36      | 18        |        | 22.91  | 24.6   | 23.64   |
| 15                                      | 36      | 39        |        | 22.92  | 24.65  | 23.55   |
| 15                                      | 75      | 0         |        | 22.97  | 24.63  | 23.66   |
| 20                                      | 1       | 0         | QPSK   | 22.94  | 24.58  | 23.86   |
| 20                                      | 1       | 49        |        | 22.93  | 24.75  | 23.67   |
| 20                                      | 1       | 99        |        | 23.07  | 24.75  | 23.5    |
| 20                                      | 50      | 0         |        | 22.92  | 24.58  | 23.83   |
| 20                                      | 50      | 24        |        | 22.96  | 24.65  | 23.76   |
| 20                                      | 50      | 49        |        | 23.02  | 24.67  | 23.61   |
| 20                                      | 100     | 0         |        | 23.01  | 24.62  | 23.71   |
| 20                                      | 1       | 0         | 16-QAM | 23.15  | 24.54  | 23.91   |
| 20                                      | 1       | 49        |        | 23.14  | 24.76  | 23.71   |
| 20                                      | 1       | 99        |        | 23.28  | 24.72  | 23.56   |
| 20                                      | 50      | 0         |        | 22.93  | 24.61  | 23.82   |
| 20                                      | 50      | 24        |        | 22.98  | 24.69  | 23.73   |
| 20                                      | 50      | 49        |        | 23.02  | 24.71  | 23.6    |
| 20                                      | 100     | 0         |        | 22.99  | 24.62  | 23.69   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK   | 23.42  | 23.54  | 23.25   |
| 1.4                                     | 1       | 2         |        | 23.4   | 23.55  | 23.25   |
| 1.4                                     | 1       | 5         |        | 23.39  | 23.55  | 23.22   |
| 1.4                                     | 3       | 0         |        | 23.39  | 23.43  | 23.24   |
| 1.4                                     | 3       | 1         |        | 23.38  | 23.43  | 23.25   |
| 1.4                                     | 3       | 2         |        | 23.38  | 23.42  | 23.25   |
| 1.4                                     | 6       | 0         |        | 22.36  | 22.46  | 22.27   |
| 1.4                                     | 1       | 0         | 16-QAM | 22.58  | 22.38  | 22.29   |
| 1.4                                     | 1       | 2         |        | 22.62  | 22.38  | 22.33   |
| 1.4                                     | 1       | 5         |        | 22.59  | 22.38  | 22.32   |
| 1.4                                     | 3       | 0         |        | 22.5   | 22.48  | 22.27   |
| 1.4                                     | 3       | 1         |        | 22.49  | 22.47  | 22.27   |
| 1.4                                     | 3       | 2         |        | 22.52  | 22.45  | 22.24   |
| 1.4                                     | 6       | 0         |        | 21.44  | 21.59  | 21.4    |
| 3                                       | 1       | 0         | QPSK   | 23.39  | 23.39  | 23.29   |
| 3                                       | 1       | 7         |        | 23.44  | 23.43  | 23.29   |
| 3                                       | 1       | 14        |        | 23.38  | 23.42  | 23.34   |
| 3                                       | 8       | 0         |        | 22.36  | 22.45  | 22.29   |
| 3                                       | 8       | 4         |        | 22.34  | 22.46  | 22.23   |
| 3                                       | 8       | 7         |        | 22.41  | 22.49  | 22.24   |
| 3                                       | 15      | 0         |        | 22.38  | 22.47  | 22.28   |
| 3                                       | 1       | 0         | 16-QAM | 22.56  | 22.48  | 22.54   |
| 3                                       | 1       | 7         |        | 22.59  | 22.58  | 22.55   |
| 3                                       | 1       | 14        |        | 22.61  | 22.53  | 22.5    |
| 3                                       | 8       | 0         |        | 21.41  | 21.52  | 21.24   |
| 3                                       | 8       | 4         |        | 21.4   | 21.51  | 21.22   |
| 3                                       | 8       | 7         |        | 21.46  | 21.54  | 21.21   |
| 3                                       | 15      | 0         |        | 21.28  | 21.31  | 21.32   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK   | 23.54  | 23.47  | 23.49   |
| 5                                       | 1       | 12        |        | 23.55  | 23.52  | 23.45   |
| 5                                       | 1       | 24        |        | 23.53  | 23.48  | 23.38   |
| 5                                       | 12      | 0         |        | 22.42  | 22.5   | 22.34   |
| 5                                       | 12      | 6         |        | 22.45  | 22.5   | 22.31   |
| 5                                       | 12      | 11        |        | 22.44  | 22.5   | 22.31   |
| 5                                       | 25      | 0         |        | 22.5   | 22.56  | 22.37   |
| 5                                       | 1       | 0         | 16-QAM | 22.79  | 22.64  | 22.52   |
| 5                                       | 1       | 12        |        | 22.87  | 22.67  | 22.54   |
| 5                                       | 1       | 24        |        | 22.82  | 22.66  | 22.49   |
| 5                                       | 12      | 0         |        | 21.43  | 21.58  | 21.45   |
| 5                                       | 12      | 6         |        | 21.42  | 21.6   | 21.47   |
| 5                                       | 12      | 11        |        | 21.47  | 21.62  | 21.44   |
| 5                                       | 25      | 0         |        | 21.49  | 21.51  | 21.35   |
| 10                                      | 1       | 0         | QPSK   | 23.44  | 23.51  | 23.48   |
| 10                                      | 1       | 24        |        | 23.43  | 23.51  | 23.45   |
| 10                                      | 1       | 49        |        | 23.46  | 23.54  | 23.4    |
| 10                                      | 25      | 0         |        | 22.45  | 22.52  | 22.38   |
| 10                                      | 25      | 12        |        | 22.44  | 22.49  | 22.35   |
| 10                                      | 25      | 24        |        | 22.5   | 22.55  | 22.36   |
| 10                                      | 50      | 0         |        | 22.5   | 22.52  | 22.4    |
| 10                                      | 1       | 0         | 16-QAM | 22.65  | 22.57  | 22.74   |
| 10                                      | 1       | 24        |        | 22.66  | 22.62  | 22.66   |
| 10                                      | 1       | 49        |        | 22.71  | 22.6   | 22.61   |
| 10                                      | 25      | 0         |        | 21.5   | 21.51  | 21.35   |
| 10                                      | 25      | 12        |        | 21.49  | 21.48  | 21.34   |
| 10                                      | 25      | 24        |        | 21.56  | 21.54  | 21.35   |
| 10                                      | 50      | 0         |        | 21.47  | 21.5   | 21.39   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK   | 23.41  | 23.56  | 23.49   |
| 15                                      | 1       | 37        |        | 23.51  | 23.59  | 23.51   |
| 15                                      | 1       | 74        |        | 23.52  | 23.51  | 23.44   |
| 15                                      | 36      | 0         |        | 22.43  | 22.51  | 22.47   |
| 15                                      | 36      | 18        |        | 22.48  | 22.49  | 22.42   |
| 15                                      | 36      | 39        |        | 22.49  | 22.52  | 22.4    |
| 15                                      | 75      | 0         |        | 22.48  | 22.53  | 22.43   |
| 15                                      | 1       | 0         | 16-QAM | 22.49  | 22.61  | 22.71   |
| 15                                      | 1       | 38        |        | 22.58  | 22.72  | 22.69   |
| 15                                      | 1       | 75        |        | 22.59  | 22.62  | 22.58   |
| 15                                      | 36      | 0         |        | 21.47  | 21.5   | 21.45   |
| 15                                      | 36      | 18        |        | 21.49  | 21.46  | 21.41   |
| 15                                      | 36      | 39        |        | 21.52  | 21.49  | 21.41   |
| 15                                      | 75      | 0         |        | 21.49  | 21.53  | 21.46   |
| 20                                      | 1       | 0         | QPSK   | 23.37  | 23.54  | 23.5    |
| 20                                      | 1       | 49        |        | 23.44  | 23.61  | 23.54   |
| 20                                      | 1       | 99        |        | 23.57  | 23.53  | 23.41   |
| 20                                      | 50      | 0         |        | 22.51  | 22.56  | 22.52   |
| 20                                      | 50      | 24        |        | 22.58  | 22.56  | 22.48   |
| 20                                      | 50      | 49        |        | 22.59  | 22.58  | 22.47   |
| 20                                      | 100     | 0         |        | 22.54  | 22.56  | 22.49   |
| 20                                      | 1       | 0         | 16-QAM | 22.54  | 22.64  | 22.49   |
| 20                                      | 1       | 49        |        | 22.63  | 22.7   | 22.56   |
| 20                                      | 1       | 99        |        | 22.79  | 22.61  | 22.43   |
| 20                                      | 50      | 0         |        | 21.51  | 21.57  | 21.54   |
| 20                                      | 50      | 24        |        | 21.58  | 21.58  | 21.5    |
| 20                                      | 50      | 49        |        | 21.58  | 21.57  | 21.49   |
| 20                                      | 100     | 0         |        | 21.53  | 21.53  | 21.46   |

## 11. EUT and Test Setup Photo

### 11.1 EUT Photo

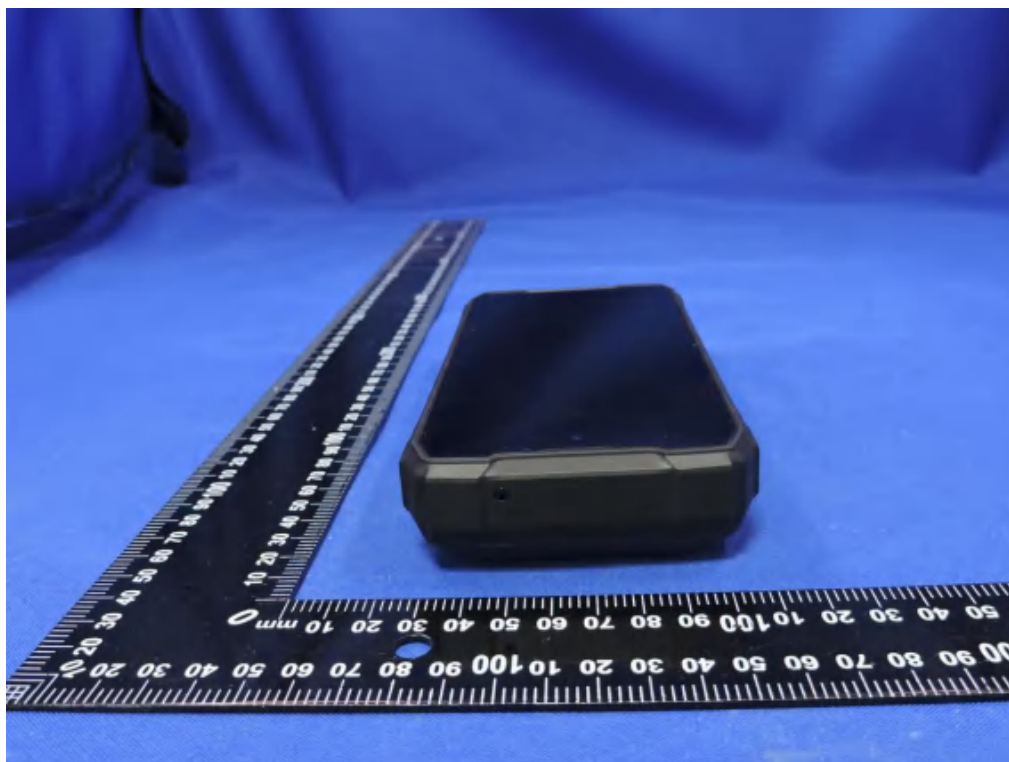
Front side



Back side



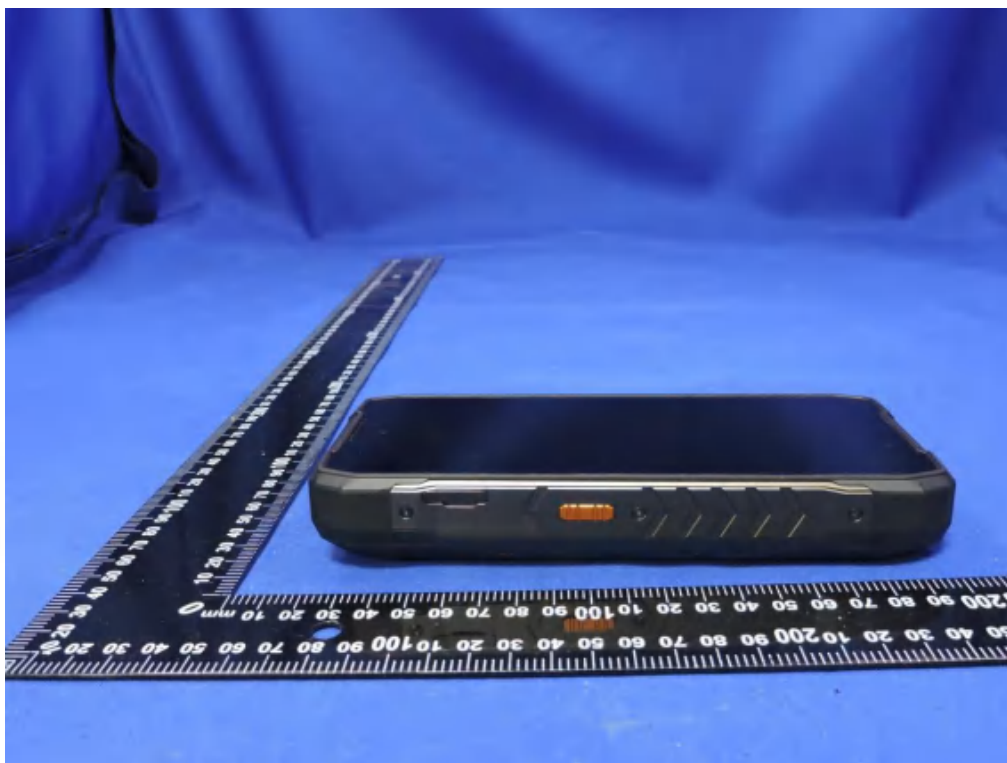
Top side



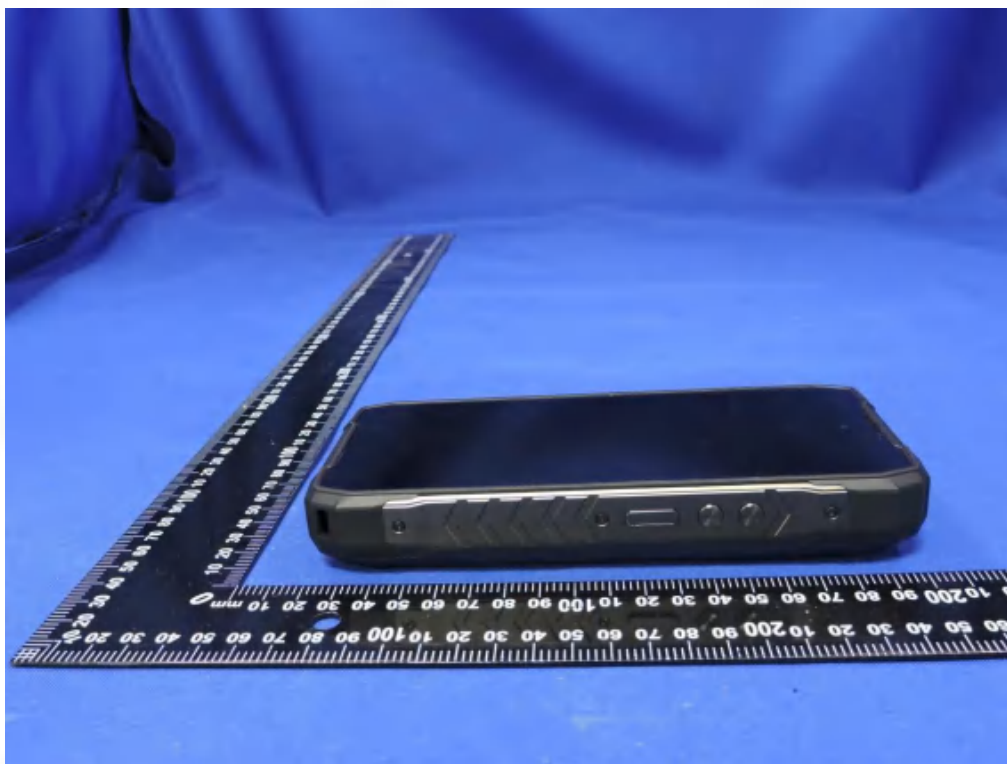
Bottom side



Left side



Right side



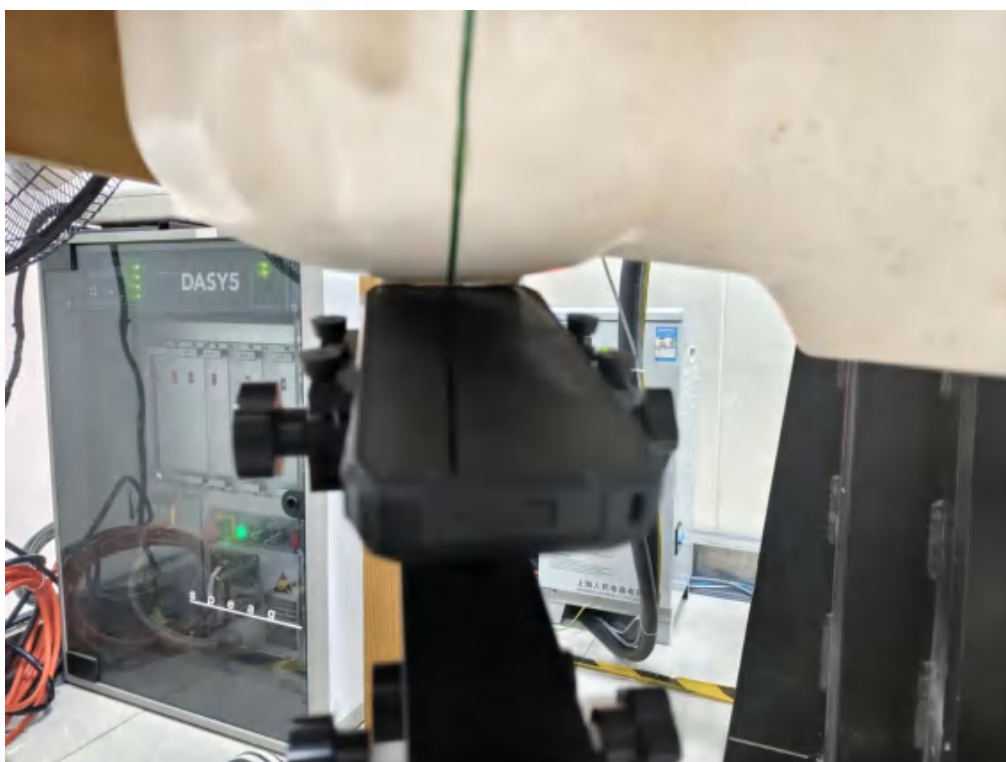


## 11.2 Setup Photo

Right Touch



Right Tilt



Left Touch



Left Tilt



Body Front side(separation distance is 10mm)



Body Back side(separation distance is 10mm)



Body Left side(separation distance is 10mm)



Body Right side(separation distance is 10mm)





Body Bottom side(separation distance is 10mm)



Body Top side(separation distance is 10mm)



Limbs Front side(separation distance is 0mm)



Limbs Back side(separation distance is 0mm)



Limbs Left side(separation distance is 0mm)



Limbs Right side(separation distance is 0mm)



Limbs Bottom side(separation distance is 0mm)



Limbs Top side(separation distance is 0mm)





Liquid depth (15 cm)





## 12. SAR Result Summary

### 12.1 Head SAR

| Band          | BW (MHz) | Mod.  | RB Size | RB offset | Test Position | Freq.  | Result 1g (W/Kg) | Power Drift ( $\leq \pm 0.2$ dB) | Max. Turn-up Power (dBm) | Meas. Output Power (dBm) | Scaling Factor | Scaled SAR (W/Kg) | Meas. No. |
|---------------|----------|-------|---------|-----------|---------------|--------|------------------|----------------------------------|--------------------------|--------------------------|----------------|-------------------|-----------|
| GSM850        | N/A      | voice | N/A     | N/A       | Right Cheek   | 848.8  | 0.058            | 0.10                             | 33.50                    | 33.26                    | 1.057          | 0.061             | 1         |
|               |          |       |         |           | Right Tilt    | 848.8  | 0.026            | -0.06                            | 33.50                    | 33.26                    | 1.057          | 0.027             | /         |
|               |          |       |         |           | Left Cheek    | 848.8  | 0.045            | 0.00                             | 33.50                    | 33.26                    | 1.057          | 0.048             | /         |
|               |          |       |         |           | Left Tilt     | 848.8  | 0.032            | 0.19                             | 33.50                    | 33.26                    | 1.057          | 0.034             | /         |
| GSM1900       | N/A      | voice | N/A     | N/A       | Right Cheek   | 1850.2 | 0.870            | 0.14                             | 30.50                    | 30.44                    | 1.062          | 0.882             | 2         |
|               |          |       |         |           | Right Cheek   | 1880   | 0.752            | 0.13                             | 30.00                    | 29.98                    | 1.042          | 0.775             | /         |
|               |          |       |         |           | Right Cheek   | 1909.8 | 0.763            | 0.04                             | 30.00                    | 29.42                    | 1.002          | 0.872             | /         |
|               |          |       |         |           | Right Tilt    | 1850.2 | 0.502            | -0.18                            | 30.50                    | 30.44                    | 1.062          | 0.509             | /         |
|               |          |       |         |           | Left Cheek    | 1850.2 | 0.304            | -0.01                            | 30.50                    | 30.44                    | 1.062          | 0.308             | /         |
|               |          |       |         |           | Left Tilt     | 1850.2 | 0.227            | 0.04                             | 30.50                    | 30.44                    | 1.062          | 0.230             | /         |
| WCDMA Band II | N/A      | RMC   | N/A     | N/A       | Right Cheek   | 1852.4 | 1.028            | -0.16                            | 23.50                    | 23.30                    | 1.047          | 1.076             | /         |
|               |          |       |         |           | Right Cheek   | 1880   | 0.969            | 0.10                             | 23.50                    | 23.43                    | 1.016          | 0.985             | /         |
|               |          |       |         |           | Right Cheek   | 1907.6 | 1.170            | 0.13                             | 24.00                    | 23.53                    | 1.114          | 1.304             | 3         |
|               |          |       |         |           | Right Tilt    | 1907.6 | 0.606            | -0.07                            | 24.00                    | 23.53                    | 1.114          | 0.675             | /         |
|               |          |       |         |           | Left Cheek    | 1907.6 | 0.601            | -0.11                            | 24.00                    | 23.53                    | 1.114          | 0.670             | /         |
|               |          |       |         |           | Left Tilt     | 1907.6 | 0.480            | 0.15                             | 24.00                    | 23.53                    | 1.114          | 0.535             | /         |
| WCDMA Band IV | N/A      | RMC   | N/A     | N/A       | Right Cheek   | 1712.6 | 0.802            | 0.08                             | 23.50                    | 23.42                    | 1.019          | 0.817             | /         |
|               |          |       |         |           | Right Cheek   | 1740   | 0.833            | -0.11                            | 23.50                    | 23.45                    | 1.012          | 0.843             | 4         |
|               |          |       |         |           | Right Cheek   | 1752.4 | 0.818            | -0.05                            | 23.50                    | 23.40                    | 1.023          | 0.837             | /         |
|               |          |       |         |           | Right Tilt    | 1740   | 0.580            | 0.07                             | 23.50                    | 23.45                    | 1.012          | 0.587             | /         |
|               |          |       |         |           | Left Cheek    | 1740   | 0.540            | -0.10                            | 23.50                    | 23.45                    | 1.012          | 0.546             | /         |
|               |          |       |         |           | Left Tilt     | 1740   | 0.352            | -0.15                            | 23.50                    | 23.45                    | 1.012          | 0.356             | /         |
| WCDMA Band V  | N/A      | RMC   | N/A     | N/A       | Right Cheek   | 826.4  | 0.066            | 0.12                             | 23.50                    | 23.38                    | 1.028          | 0.068             | 5         |
|               |          |       |         |           | Right Tilt    | 826.4  | 0.029            | -0.12                            | 23.50                    | 23.38                    | 1.028          | 0.029             | /         |
|               |          |       |         |           | Left Cheek    | 826.4  | 0.052            | 0.00                             | 23.50                    | 23.38                    | 1.028          | 0.054             | /         |
|               |          |       |         |           | Left Tilt     | 826.4  | 0.031            | 0.15                             | 23.50                    | 23.38                    | 1.028          | 0.032             | /         |
| LTE Band 2    | 20M      | QPSK  | 1       | 49        | Right Cheek   | 1860   | 0.956            | -0.06                            | 23.5                     | 23.25                    | 1.059          | 1.013             | /         |
|               |          |       | 1       | 49        | Right Cheek   | 1880   | 1.13             | -0.05                            | 23.5                     | 23.45                    | 1.012          | 1.143             | 6         |
|               |          |       | 1       | 49        | Right Cheek   | 1900   | 1.028            | 0.02                             | 23.5                     | 23.39                    | 1.026          | 1.054             | /         |
|               |          |       | 50      | 49        | Right Cheek   | 1860   | 0.851            | 0.08                             | 22.5                     | 22.31                    | 1.045          | 0.889             | /         |
|               |          |       | 50      | 49        | Right Cheek   | 1880   | 0.867            | -0.13                            | 22.5                     | 22.35                    | 1.035          | 0.897             | /         |



|                |     |      |     |    |             |       |       |       |      |       |       |       |   |
|----------------|-----|------|-----|----|-------------|-------|-------|-------|------|-------|-------|-------|---|
|                |     |      | 50  | 49 | Right Cheek | 1900  | 0.886 | -0.11 | 23   | 22.5  | 1.122 | 0.994 | / |
|                |     |      | 100 | 0  | Right Cheek | 1900  | 0.752 | -0.19 | 22.5 | 22.43 | 1.016 | 0.764 | / |
|                |     |      | 1   | 49 | Right Tilt  | 1880  | 0.686 | 0.11  | 23.5 | 23.45 | 1.012 | 0.694 | / |
|                |     |      | 50  | 49 | Right Tilt  | 1900  | 0.647 | 0.12  | 23   | 22.5  | 1.122 | 0.726 | / |
|                |     |      | 1   | 49 | Left Cheek  | 1880  | 0.582 | -0.17 | 23.5 | 23.45 | 1.012 | 0.589 | / |
|                |     |      | 50  | 49 | Left Cheek  | 1900  | 0.536 | 0.00  | 23   | 22.5  | 1.122 | 0.601 | / |
|                |     |      | 1   | 49 | Left Tilt   | 1880  | 0.431 | 0.03  | 23.5 | 23.45 | 1.012 | 0.436 | / |
|                |     |      | 50  | 49 | Left Tilt   | 1900  | 0.408 | 0.17  | 23   | 22.5  | 1.122 | 0.458 | / |
| LTE Band 5     | 10M | QPSK | 1   | 24 | Right Cheek | 836.5 | 0.097 | 0.08  | 24   | 23.91 | 1.021 | 0.099 | 7 |
|                |     |      | 25  | 24 | Right Cheek | 829   | 0.083 | -0.04 | 23   | 22.9  | 1.023 | 0.085 | / |
|                |     |      | 1   | 24 | Right Tilt  | 836.5 | 0.027 | 0.17  | 24   | 23.91 | 1.021 | 0.028 | / |
|                |     |      | 25  | 24 | Right Tilt  | 829   | 0.018 | -0.03 | 23   | 22.9  | 1.023 | 0.018 | / |
|                |     |      | 1   | 24 | Left Cheek  | 836.5 | 0.075 | 0.10  | 24   | 23.91 | 1.021 | 0.077 | / |
|                |     |      | 25  | 24 | Left Cheek  | 829   | 0.062 | 0.15  | 23   | 22.9  | 1.023 | 0.063 | / |
|                |     |      | 1   | 24 | Left Tilt   | 836.5 | 0.033 | 0.12  | 24   | 23.91 | 1.021 | 0.034 | / |
|                |     |      | 25  | 24 | Left Tilt   | 829   | 0.024 | -0.16 | 23   | 22.9  | 1.023 | 0.025 | / |
| LTE Band 7     | 20M | QPSK | 1   | 99 | Right Cheek | 2510  | 0.958 | -0.05 | 22.5 | 22.06 | 1.107 | 1.060 | / |
|                |     |      | 1   | 99 | Right Cheek | 2535  | 0.992 | 0.03  | 23   | 22.81 | 1.045 | 1.036 | / |
|                |     |      | 1   | 99 | Right Cheek | 2560  | 1.070 | -0.09 | 23.5 | 23.47 | 1.007 | 1.077 | 8 |
|                |     |      | 50  | 49 | Right Cheek | 2510  | 0.853 | -0.13 | 21.5 | 21    | 1.122 | 0.957 | / |
|                |     |      | 50  | 49 | Right Cheek | 2535  | 0.819 | 0.03  | 22   | 21.67 | 1.079 | 0.884 | / |
|                |     |      | 50  | 49 | Right Cheek | 2560  | 0.824 | -0.13 | 22.5 | 22.36 | 1.033 | 0.851 | / |
|                |     |      | 100 | 0  | Right Cheek | 2535  | 0.739 | -0.02 | 22   | 21.63 | 1.089 | 0.805 | / |
|                |     |      | 1   | 99 | Right Tilt  | 2560  | 0.627 | -0.18 | 23.5 | 23.47 | 1.007 | 0.631 | / |
|                |     |      | 50  | 49 | Right Tilt  | 2560  | 0.611 | 0.01  | 22.5 | 22.36 | 1.033 | 0.631 | / |
|                |     |      | 1   | 99 | Left Cheek  | 2560  | 0.460 | -0.13 | 23.5 | 23.47 | 1.007 | 0.463 | / |
|                |     |      | 50  | 49 | Left Cheek  | 2560  | 0.429 | 0.19  | 22.5 | 22.36 | 1.033 | 0.443 | / |
|                |     |      | 1   | 99 | Left Tilt   | 2560  | 0.639 | 0.05  | 23.5 | 23.47 | 1.007 | 0.643 | / |
|                |     |      | 50  | 49 | Left Tilt   | 2560  | 0.627 | 0.10  | 22.5 | 22.36 | 1.033 | 0.648 | / |
|                |     |      | 1   | 24 | Right Cheek | 707.5 | 0.048 | 0.09  | 24   | 23.94 | 1.014 | 0.049 | / |
| LTE Band 12&17 | 10M | QPSK | 25  | 12 | Right Cheek | 704   | 0.034 | -0.09 | 23   | 22.92 | 1.019 | 0.035 | / |
|                |     |      | 1   | 24 | Right Tilt  | 707.5 | 0.027 | -0.05 | 24   | 23.94 | 1.014 | 0.027 | / |
|                |     |      | 25  | 12 | Right Tilt  | 704   | 0.016 | 0.04  | 23   | 22.92 | 1.019 | 0.016 | / |
|                |     |      | 1   | 24 | Left Cheek  | 707.5 | 0.070 | 0.03  | 24   | 23.94 | 1.014 | 0.071 | 9 |
|                |     |      | 25  | 12 | Left Cheek  | 704   | 0.062 | -0.04 | 23   | 22.92 | 1.019 | 0.063 | / |
|                |     |      | 1   | 24 | Left Tilt   | 707.5 | 0.032 | -0.10 | 24   | 23.94 | 1.014 | 0.032 | / |
|                |     |      | 1   | 24 | Left Tilt   | 707.5 | 0.032 | -0.10 | 24   | 23.94 | 1.014 | 0.032 | / |



|                  |     |         |     |     |                |      |       |       |       |       |       |       |    |
|------------------|-----|---------|-----|-----|----------------|------|-------|-------|-------|-------|-------|-------|----|
|                  |     |         | 25  | 12  | Left Tilt      | 704  | 0.019 | -0.18 | 23    | 22.92 | 1.019 | 0.019 | /  |
| LTE<br>Band 41   | 20M | QPSK    | 1   | 49  | Right<br>Cheek | 2506 | 0.826 | -0.08 | 23    | 22.93 | 1.016 | 0.839 | /  |
|                  |     |         | 1   | 49  | Right<br>Cheek | 2593 | 1.020 | 0.16  | 25    | 24.75 | 1.059 | 1.080 | 10 |
|                  |     |         | 1   | 49  | Right<br>Cheek | 2680 | 0.887 | -0.13 | 24    | 23.67 | 1.079 | 0.957 | /  |
|                  |     |         | 50  | 49  | Right<br>Cheek | 2593 | 0.737 | -0.05 | 25    | 24.67 | 1.079 | 0.795 | /  |
|                  |     |         | 1   | 49  | Right<br>Tilt  | 2593 | 0.564 | 0.07  | 25    | 24.75 | 1.059 | 0.597 | /  |
|                  |     |         | 50  | 49  | Right<br>Tilt  | 2593 | 0.513 | -0.12 | 25    | 24.67 | 1.079 | 0.553 | /  |
|                  |     |         | 1   | 49  | Left<br>Cheek  | 2593 | 0.712 | 0.18  | 25    | 24.75 | 1.059 | 0.754 | /  |
|                  |     |         | 50  | 49  | Left<br>Cheek  | 2593 | 0.683 | -0.17 | 25    | 24.67 | 1.079 | 0.737 | /  |
|                  |     |         | 1   | 49  | Left Tilt      | 2593 | 0.588 | -0.10 | 25    | 24.75 | 1.059 | 0.623 | /  |
|                  |     |         | 50  | 49  | Left Tilt      | 2593 | 0.526 | 0.18  | 25    | 24.67 | 1.079 | 0.568 | /  |
| LTE<br>Band 66&4 | 20M | QPSK    | 1   | 49  | Right<br>Cheek | 1720 | 0.846 | 0.16  | 24    | 23.44 | 1.138 | 0.962 | /  |
|                  |     |         | 1   | 49  | Right<br>Cheek | 1745 | 0.873 | -0.03 | 24    | 23.61 | 1.094 | 0.955 | /  |
|                  |     |         | 1   | 49  | Right<br>Cheek | 1770 | 0.850 | 0.07  | 24    | 23.54 | 1.112 | 0.945 | /  |
|                  |     |         | 50  | 49  | Right<br>Cheek | 1720 | 0.715 | 0.03  | 23    | 22.59 | 1.099 | 0.786 | /  |
|                  |     |         | 1   | 49  | Right<br>Tilt  | 1720 | 0.923 | -0.01 | 24    | 23.44 | 1.138 | 1.050 | /  |
|                  |     |         | 1   | 49  | Right<br>Tilt  | 1745 | 1.020 | -0.14 | 24    | 23.61 | 1.094 | 1.116 | 11 |
|                  |     |         | 1   | 49  | Right<br>Tilt  | 1770 | 0.935 | -0.03 | 24    | 23.54 | 1.112 | 1.039 | /  |
|                  |     |         | 50  | 49  | Right<br>Tilt  | 1720 | 0.828 | -0.13 | 23    | 22.59 | 1.099 | 0.910 | /  |
|                  |     |         | 50  | 49  | Right<br>Tilt  | 1745 | 0.803 | 0.13  | 23    | 22.58 | 1.102 | 0.885 | /  |
|                  |     |         | 50  | 49  | Right<br>Tilt  | 1770 | 0.815 | 0.15  | 22.5  | 22.47 | 1.007 | 0.821 | /  |
|                  |     |         | 1   | 49  | Left<br>Cheek  | 1745 | 0.620 | 0.08  | 24    | 23.61 | 1.094 | 0.678 | /  |
|                  |     |         | 50  | 49  | Left<br>Cheek  | 1720 | 0.607 | 0.01  | 23    | 22.59 | 1.099 | 0.667 | /  |
|                  |     |         | 1   | 49  | Left Tilt      | 1745 | 0.449 | 0.00  | 24    | 23.61 | 1.094 | 0.491 | /  |
|                  |     |         | 50  | 49  | Left Tilt      | 1720 | 0.426 | -0.19 | 23    | 22.59 | 1.099 | 0.468 | /  |
| 2.4G<br>WLAN     | N/A | 802.11b | N/A | N/A | Right<br>Cheek | 2462 | 0.073 | -0.18 | 21.50 | 21.25 | 1.059 | 0.077 | 12 |
|                  |     |         |     |     | Right<br>Tilt  | 2462 | 0.055 | 0.10  | 21.50 | 21.25 | 1.059 | 0.058 | /  |
|                  |     |         |     |     | Left<br>Cheek  | 2462 | 0.067 | 0.01  | 21.50 | 21.25 | 1.059 | 0.071 | /  |
|                  |     |         |     |     | Left Tilt      | 2462 | 0.041 | -0.17 | 21.50 | 21.25 | 1.059 | 0.043 | /  |
| 5.2G<br>WLAN     | N/A | 802.11a | N/A | N/A | Right<br>Cheek | 5240 | 0.078 | 0.18  | 14.50 | 14.39 | 1.026 | 0.080 | 13 |
|                  |     |         |     |     | Right<br>Tilt  | 5240 | 0.036 | 0.03  | 14.50 | 14.39 | 1.026 | 0.037 | /  |
|                  |     |         |     |     | Left<br>Cheek  | 5240 | 0.069 | 0.20  | 14.50 | 14.39 | 1.026 | 0.071 | /  |
|                  |     |         |     |     | Left Tilt      | 5240 | 0.023 | -0.16 | 14.50 | 14.39 | 1.026 | 0.024 | /  |
| 5.8G<br>WLAN     | N/A | 802.11a | N/A | N/A | Right<br>Cheek | 5825 | 0.030 | -0.02 | 15.00 | 14.57 | 1.104 | 0.033 | 14 |
|                  |     |         |     |     | Right<br>Tilt  | 5825 | 0.010 | -0.09 | 15.00 | 14.57 | 1.104 | 0.011 | /  |
|                  |     |         |     |     | Left<br>Cheek  | 5825 | 0.020 | -0.08 | 15.00 | 14.57 | 1.104 | 0.022 | /  |



|  |  |  |  |  |           |      |       |       |       |       |       |       |   |
|--|--|--|--|--|-----------|------|-------|-------|-------|-------|-------|-------|---|
|  |  |  |  |  | Left Tilt | 5825 | 0.008 | -0.19 | 15.00 | 14.57 | 1.104 | 0.009 | / |
|--|--|--|--|--|-----------|------|-------|-------|-------|-------|-------|-------|---|

Note:

1. 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. Scaled SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
2. Per EN IEC/IEEE 62209-1528 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg



## 12.2 Body-worn and Hotspot SAR

| Band          | BW (MHz) | Mod.             | RB Size | RB offset | Test Position | Freq.  | Result 1g (W/Kg) | Power Drift ( $\leq \pm 0.2$ dB) | Max. Turn-up Power (dBm) | Meas. Output Power (dBm) | Scaling Factor | Scaled SAR (W/Kg) | Meas. No. |
|---------------|----------|------------------|---------|-----------|---------------|--------|------------------|----------------------------------|--------------------------|--------------------------|----------------|-------------------|-----------|
| GSM850        | N/A      | GPRS Data-4 Slot | N/A     | N/A       | Front Side    | 848.8  | 0.161            | -0.07                            | 30.00                    | 29.59                    | 1.099          | 0.177             | /         |
|               |          |                  |         |           | Back Side     | 848.8  | 0.163            | -0.02                            | 30.00                    | 29.59                    | 1.099          | 0.179             | 15        |
|               |          |                  |         |           | Left Side     | 848.8  | 0.085            | -0.02                            | 30.00                    | 29.59                    | 1.099          | 0.093             | /         |
|               |          |                  |         |           | Right Side    | 848.8  | 0.054            | -0.12                            | 30.00                    | 29.59                    | 1.099          | 0.060             | /         |
|               |          |                  |         |           | Top Side      | 848.8  | 0.021            | 0.06                             | 30.00                    | 29.59                    | 1.099          | 0.023             | /         |
|               |          |                  |         |           | Bottom Side   | 848.8  | 0.159            | -0.10                            | 30.00                    | 29.59                    | 1.099          | 0.175             | /         |
| GSM1900       | N/A      | GPRS Data-4 Slot | N/A     | N/A       | Front Side    | 1850.2 | 0.289            | 0.18                             | 27.00                    | 26.74                    | 1.062          | 0.307             | 16        |
|               |          |                  |         |           | Back Side     | 1850.2 | 0.219            | -0.18                            | 27.00                    | 26.74                    | 1.062          | 0.233             | /         |
|               |          |                  |         |           | Left Side     | 1850.2 | 0.153            | 0.17                             | 27.00                    | 26.74                    | 1.062          | 0.162             | /         |
|               |          |                  |         |           | Right Side    | 1850.2 | 0.082            | -0.04                            | 27.00                    | 26.74                    | 1.062          | 0.087             | /         |
|               |          |                  |         |           | Top Side      | 1850.2 | 0.024            | -0.08                            | 27.00                    | 26.74                    | 1.062          | 0.025             | /         |
| WCDMA Band II | N/A      | RMC              | N/A     | N/A       | Front Side    | 1907.6 | 0.594            | 0.02                             | 24.00                    | 23.53                    | 1.114          | 0.662             | 17        |
|               |          |                  |         |           | Back Side     | 1907.6 | 0.350            | 0.03                             | 24.00                    | 23.53                    | 1.114          | 0.390             | /         |
|               |          |                  |         |           | Left Side     | 1907.6 | 0.331            | 0.03                             | 24.00                    | 23.53                    | 1.114          | 0.369             | /         |
|               |          |                  |         |           | Top Side      | 1907.6 | 0.407            | -0.07                            | 24.00                    | 23.53                    | 1.114          | 0.454             | /         |
| WCDMA Band IV | N/A      | RMC              | N/A     | N/A       | Front Side    | 1740   | 0.349            | -0.06                            | 23.50                    | 23.45                    | 1.012          | 0.353             | 18        |
|               |          |                  |         |           | Back Side     | 1740   | 0.211            | 0.11                             | 23.50                    | 23.45                    | 1.012          | 0.213             | /         |
|               |          |                  |         |           | Left Side     | 1740   | 0.261            | -0.06                            | 23.50                    | 23.45                    | 1.012          | 0.264             | /         |
|               |          |                  |         |           | Bottom Side   | 1740   | 0.308            | 0.10                             | 23.50                    | 23.45                    | 1.012          | 0.312             | /         |
| WCDMA Band V  | N/A      | RMC              | N/A     | N/A       | Front Side    | 826.4  | 0.206            | 0.12                             | 23.50                    | 23.38                    | 1.028          | 0.212             | 19        |
|               |          |                  |         |           | Back Side     | 826.4  | 0.163            | -0.02                            | 23.50                    | 23.38                    | 1.028          | 0.168             | /         |
|               |          |                  |         |           | Left Side     | 826.4  | 0.105            | -0.15                            | 23.50                    | 23.38                    | 1.028          | 0.108             | /         |
|               |          |                  |         |           | Right Side    | 826.4  | 0.117            | -0.13                            | 23.50                    | 23.38                    | 1.028          | 0.120             | /         |
|               |          |                  |         |           | Bottom Side   | 826.4  | 0.189            | -0.10                            | 23.50                    | 23.38                    | 1.028          | 0.194             | /         |
| LTE Band 2    | 20M      | QPSK             | 1       | 0         | Front side    | 1880   | 0.481            | 0.02                             | 23.5                     | 23.45                    | 1.012          | 0.487             | 20        |
|               |          |                  | 50      | 0         | Front side    | 1900   | 0.426            | -0.03                            | 23                       | 22.5                     | 1.122          | 0.478             | /         |
|               |          |                  | 1       | 0         | Back Side     | 1880   | 0.34             | -0.03                            | 23.5                     | 23.45                    | 1.012          | 0.344             | /         |
|               |          |                  | 50      | 0         | Back Side     | 1900   | 0.313            | -0.05                            | 23                       | 22.5                     | 1.122          | 0.351             | /         |
|               |          |                  | 1       | 0         | Left Side     | 1880   | 0.369            | -0.14                            | 23.5                     | 23.45                    | 1.012          | 0.373             | /         |
|               |          |                  | 50      | 0         | Left Side     | 1900   | 0.324            | 0.11                             | 23                       | 22.5                     | 1.122          | 0.364             | /         |
|               |          |                  | 1       | 0         | Top Side      | 1880   | 0.431            | -0.01                            | 23.5                     | 23.45                    | 1.012          | 0.436             | /         |



|                |     |      |    |    |             |       |       |       |      |       |       |       |    |
|----------------|-----|------|----|----|-------------|-------|-------|-------|------|-------|-------|-------|----|
|                |     |      | 50 | 0  | Top Side    | 1900  | 0.402 | -0.01 | 23   | 22.5  | 1.122 | 0.451 | /  |
| LTE Band 5     | 10M | QPSK | 1  | 24 | Front side  | 836.5 | 0.183 | -0.16 | 24   | 23.91 | 1.021 | 0.187 | 21 |
|                |     |      | 25 | 24 | Front side  | 829   | 0.152 | -0.08 | 23   | 22.9  | 1.023 | 0.156 | /  |
|                |     |      | 1  | 24 | Back Side   | 836.5 | 0.128 | -0.17 | 24   | 23.91 | 1.021 | 0.131 | /  |
|                |     |      | 25 | 24 | Back Side   | 829   | 0.113 | 0.19  | 23   | 22.9  | 1.023 | 0.116 | /  |
|                |     |      | 1  | 24 | Left Side   | 836.5 | 0.085 | -0.08 | 24   | 23.91 | 1.021 | 0.087 | /  |
|                |     |      | 25 | 24 | Left Side   | 829   | 0.080 | 0.04  | 23   | 22.9  | 1.023 | 0.082 | /  |
|                |     |      | 1  | 24 | Right Side  | 836.5 | 0.079 | -0.08 | 24   | 23.91 | 1.021 | 0.081 | /  |
|                |     |      | 25 | 24 | Right Side  | 829   | 0.052 | 0.04  | 23   | 22.9  | 1.023 | 0.053 | /  |
|                |     |      | 1  | 24 | Bottom Side | 836.5 | 0.125 | 0.02  | 24   | 23.91 | 1.021 | 0.128 | /  |
|                |     |      | 25 | 24 | Bottom Side | 829   | 0.110 | 0.03  | 23   | 22.9  | 1.023 | 0.113 | /  |
| LTE Band 7     | 10M | QPSK | 1  | 0  | Front side  | 2560  | 0.299 | -0.02 | 23.5 | 23.47 | 1.007 | 0.301 | /  |
|                |     |      | 50 | 0  | Front side  | 2560  | 0.268 | -0.15 | 22.5 | 22.36 | 1.033 | 0.277 | /  |
|                |     |      | 1  | 0  | Back Side   | 2560  | 0.522 | -0.07 | 23.5 | 23.47 | 1.007 | 0.526 | 22 |
|                |     |      | 50 | 0  | Back Side   | 2560  | 0.495 | -0.05 | 22.5 | 22.36 | 1.033 | 0.511 | /  |
|                |     |      | 1  | 0  | Left Side   | 2560  | 0.389 | 0.12  | 23.5 | 23.47 | 1.007 | 0.392 | /  |
|                |     |      | 50 | 0  | Left Side   | 2560  | 0.361 | -0.13 | 22.5 | 22.36 | 1.033 | 0.373 | /  |
|                |     |      | 1  | 0  | Top Side    | 2560  | 0.505 | 0.12  | 23.5 | 23.47 | 1.007 | 0.509 | /  |
|                |     |      | 50 | 0  | Top Side    | 2560  | 0.468 | -0.06 | 22.5 | 22.36 | 1.033 | 0.483 | /  |
| LTE Band 12&17 | 10M | QPSK | 1  | 24 | Front side  | 707.5 | 0.068 | -0.03 | 24   | 23.94 | 1.014 | 0.069 | /  |
|                |     |      | 25 | 12 | Front side  | 704   | 0.055 | -0.04 | 23   | 22.92 | 1.019 | 0.056 | /  |
|                |     |      | 1  | 24 | Back Side   | 707.5 | 0.090 | 0.00  | 24   | 23.94 | 1.014 | 0.091 | 23 |
|                |     |      | 25 | 12 | Back Side   | 704   | 0.073 | 0.07  | 23   | 22.92 | 1.019 | 0.074 | /  |
|                |     |      | 1  | 24 | Left Side   | 707.5 | 0.035 | 0.08  | 24   | 23.94 | 1.014 | 0.035 | /  |
|                |     |      | 25 | 12 | Left Side   | 704   | 0.017 | -0.10 | 23   | 22.92 | 1.019 | 0.017 | /  |
|                |     |      | 1  | 24 | Right Side  | 707.5 | 0.026 | 0.08  | 24   | 23.94 | 1.014 | 0.026 | /  |
|                |     |      | 25 | 12 | Right Side  | 704   | 0.011 | -0.10 | 23   | 22.92 | 1.019 | 0.011 | /  |
|                |     |      | 1  | 24 | Bottom Side | 707.5 | 0.077 | 0.06  | 24   | 23.94 | 1.014 | 0.078 | /  |
|                |     |      | 25 | 12 | Bottom Side | 704   | 0.052 | 0.16  | 23   | 22.92 | 1.019 | 0.053 | /  |
| LTE Band 41    | 20M | QPSK | 1  | 0  | Front side  | 2593  | 0.098 | 0.10  | 25   | 24.75 | 1.059 | 0.104 | /  |
|                |     |      | 50 | 0  | Front side  | 2593  | 0.085 | 0.18  | 25   | 24.67 | 1.079 | 0.092 | /  |
|                |     |      | 1  | 0  | Back Side   | 2593  | 0.204 | -0.03 | 25   | 24.75 | 1.059 | 0.216 | 24 |
|                |     |      | 50 | 0  | Back Side   | 2593  | 0.167 | 0.19  | 25   | 24.67 | 1.079 | 0.180 | /  |
|                |     |      | 1  | 0  | Left Side   | 2593  | 0.110 | 0.10  | 25   | 24.75 | 1.059 | 0.117 | /  |



|               |     |         |     |     |            |      |       |       |       |       |       |       |    |
|---------------|-----|---------|-----|-----|------------|------|-------|-------|-------|-------|-------|-------|----|
|               |     |         | 50  | 0   | Left Side  | 2593 | 0.091 | -0.01 | 25    | 24.67 | 1.079 | 0.098 | /  |
|               |     |         | 1   | 0   | Right Side | 2593 | 0.035 | 0.04  | 25    | 24.75 | 1.059 | 0.037 | /  |
|               |     |         | 50  | 0   | Right Side | 2593 | 0.029 | -0.03 | 25    | 24.67 | 1.079 | 0.031 | /  |
|               |     |         | 1   | 0   | Top Side   | 2593 | 0.129 | 0.01  | 25    | 24.75 | 1.059 | 0.137 | /  |
|               |     |         | 50  | 0   | Top Side   | 2593 | 0.102 | -0.13 | 25    | 24.67 | 1.079 | 0.110 | /  |
| LTE Band 66&4 | 20M | QPSK    | 1   | 0   | Front side | 1745 | 0.380 | -0.11 | 24    | 23.61 | 1.094 | 0.416 | 25 |
|               |     |         | 50  | 0   | Front side | 1720 | 0.359 | 0.02  | 23    | 22.59 | 1.099 | 0.395 | /  |
|               |     |         | 1   | 0   | Back Side  | 1745 | 0.322 | -0.20 | 24    | 23.61 | 1.094 | 0.352 | /  |
|               |     |         | 50  | 0   | Back Side  | 1720 | 0.305 | 0.14  | 23    | 22.59 | 1.099 | 0.335 | /  |
|               |     |         | 1   | 0   | Left Side  | 1745 | 0.286 | -0.08 | 24    | 23.61 | 1.094 | 0.313 | /  |
|               |     |         | 50  | 0   | Left Side  | 1720 | 0.258 | 0.20  | 23    | 22.59 | 1.099 | 0.284 | /  |
|               |     |         | 1   | 0   | Top Side   | 1745 | 0.307 | -0.08 | 24    | 23.61 | 1.094 | 0.336 | /  |
|               |     |         | 50  | 0   | Top Side   | 1720 | 0.274 | 0.08  | 23    | 22.59 | 1.099 | 0.301 | /  |
| 2.4GHZ WLAN   | N/A | 802.11b | N/A | N/A | Front Side | 2462 | 0.038 | -0.12 | 21.50 | 21.25 | 1.059 | 0.039 | 26 |
|               |     |         |     |     | Back Side  | 2462 | 0.015 | -0.05 | 21.50 | 21.25 | 1.059 | 0.016 | /  |
|               |     |         |     |     | Right Side | 2462 | 0.007 | 0.02  | 21.50 | 21.25 | 1.059 | 0.007 | /  |
|               |     |         |     |     | Top Side   | 2462 | 0.017 | -0.07 | 21.50 | 21.25 | 1.059 | 0.018 | /  |
| 5.2GHZ WLAN   | N/A | 802.11a | N/A | N/A | Front Side | 5240 | 0.016 | -0.12 | 14.50 | 14.39 | 1.026 | 0.016 | /  |
|               |     |         |     |     | Back Side  | 5240 | 0.038 | 0.13  | 14.50 | 14.39 | 1.026 | 0.039 | 27 |
|               |     |         |     |     | Right Side | 5240 | 0.012 | -0.05 | 14.50 | 14.39 | 1.026 | 0.012 | /  |
|               |     |         |     |     | Top Side   | 5240 | 0.010 | 0.09  | 14.50 | 14.39 | 1.026 | 0.010 | /  |
| 5.8GHZ WLAN   | N/A | 802.11a | N/A | N/A | Front Side | 5825 | 0.021 | -0.04 | 15.00 | 14.57 | 1.104 | 0.023 | /  |
|               |     |         |     |     | Back Side  | 5825 | 0.122 | -0.11 | 15.00 | 14.57 | 1.104 | 0.135 | 28 |
|               |     |         |     |     | Left Side  | 5825 | 0.085 | 0.09  | 15.00 | 14.57 | 1.104 | 0.094 | /  |
|               |     |         |     |     | Right Side | 5825 | 0.103 | -0.06 | 15.00 | 14.57 | 1.104 | 0.114 | /  |
|               |     |         |     |     | Top Side   | 5825 | 0.094 | 0.16  | 15.00 | 14.57 | 1.104 | 0.104 | /  |

Note:

- The test separation of all above table is 10mm.
- SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - 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.
  - For DECT: Scaled SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



### 12.3 Limbs SAR

| Band          | BW (MHz) | Mod.             | RB Size | RB offset | Test Position | Freq.  | Result 10g (W/Kg) | Power Drift ( $\leq \pm 0.2$ dB) | Max. Turn-up Power (dBm) | Meas. Output Power (dBm) | Scaling Factor | Scaled SAR (W/Kg) | Meas.No. |
|---------------|----------|------------------|---------|-----------|---------------|--------|-------------------|----------------------------------|--------------------------|--------------------------|----------------|-------------------|----------|
| GSM850        | N/A      | GPRS Data-4 Slot | N/A     | N/A       | Front Side    | 848.8  | 0.363             | -0.09                            | 30.00                    | 29.59                    | 1.099          | 0.399             | /        |
|               |          |                  |         |           | Back Side     | 848.8  | 0.390             | 0.15                             | 30.00                    | 29.59                    | 1.099          | 0.429             | 29       |
|               |          |                  |         |           | Left Side     | 848.8  | 0.302             | -0.11                            | 30.00                    | 29.59                    | 1.099          | 0.332             | /        |
|               |          |                  |         |           | Right Side    | 848.8  | 0.115             | 0.05                             | 30.00                    | 29.59                    | 1.099          | 0.126             | /        |
|               |          |                  |         |           | Top Side      | 848.8  | 0.271             | 0.05                             | 30.00                    | 29.59                    | 1.099          | 0.298             | /        |
|               |          |                  |         |           | Bottom Side   | 848.8  | 0.103             | -0.13                            | 30.00                    | 29.59                    | 1.099          | 0.113             | /        |
| GSM1900       | N/A      | GPRS Data-4 Slot | N/A     | N/A       | Front Side    | 1850.2 | 0.540             | 0.18                             | 27.00                    | 26.74                    | 1.062          | 0.573             | 30       |
|               |          |                  |         |           | Back Side     | 1850.2 | 0.486             | -0.09                            | 27.00                    | 26.74                    | 1.062          | 0.516             | /        |
|               |          |                  |         |           | Left Side     | 1850.2 | 0.382             | 0.11                             | 27.00                    | 26.74                    | 1.062          | 0.406             | /        |
|               |          |                  |         |           | Right Side    | 1850.2 | 0.259             | 0.12                             | 27.00                    | 26.74                    | 1.062          | 0.275             | /        |
|               |          |                  |         |           | Top Side      | 1850.2 | 0.113             | -0.14                            | 27.00                    | 26.74                    | 1.062          | 0.120             | /        |
| WCDMA Band II | N/A      | RMC              | N/A     | N/A       | Front Side    | 1907.6 | 1.130             | 0.04                             | 24.00                    | 23.53                    | 1.114          | 1.259             | 31       |
|               |          |                  |         |           | Back Side     | 1907.6 | 0.410             | 0.18                             | 24.00                    | 23.53                    | 1.114          | 0.457             | /        |
|               |          |                  |         |           | Left Side     | 1907.6 | 0.651             | -0.05                            | 24.00                    | 23.53                    | 1.114          | 0.725             | /        |
|               |          |                  |         |           | Top Side      | 1907.6 | 0.724             | -0.02                            | 24.00                    | 23.53                    | 1.114          | 0.807             | /        |
| WCDMA Band IV | N/A      | RMC              | N/A     | N/A       | Front Side    | 1740   | 0.665             | -0.11                            | 23.50                    | 23.45                    | 1.012          | 0.673             | 32       |
|               |          |                  |         |           | Back Side     | 1740   | 0.338             | 0.09                             | 23.50                    | 23.45                    | 1.012          | 0.342             | /        |
|               |          |                  |         |           | Left Side     | 1740   | 0.487             | -0.16                            | 23.50                    | 23.45                    | 1.012          | 0.493             | /        |
|               |          |                  |         |           | Top Side      | 1740   | 0.561             | 0.05                             | 23.50                    | 23.45                    | 1.012          | 0.567             | /        |
| WCDMA Band V  | N/A      | RMC              | N/A     | N/A       | Front Side    | 826.4  | 0.345             | -0.17                            | 23.50                    | 23.38                    | 1.028          | 0.355             | 33       |
|               |          |                  |         |           | Back Side     | 826.4  | 0.316             | 0.20                             | 23.50                    | 23.38                    | 1.028          | 0.325             | /        |
|               |          |                  |         |           | Left Side     | 826.4  | 0.151             | 0.17                             | 23.50                    | 23.38                    | 1.028          | 0.155             | /        |
|               |          |                  |         |           | Right Side    | 826.4  | 0.135             | 0.17                             | 23.50                    | 23.38                    | 1.028          | 0.139             | /        |
|               |          |                  |         |           | Bottom Side   | 826.4  | 0.269             | -0.02                            | 23.50                    | 23.38                    | 1.028          | 0.277             | /        |
| LTE Band 2    | 20M      | QPSK             | 1       | 0         | Front side    | 1880   | 0.872             | -0.07                            | 23.5                     | 23.45                    | 1.012          | 0.882             | 34       |
|               |          |                  | 50      | 0         | Front side    | 1900   | 0.762             | -0.12                            | 23                       | 22.5                     | 1.122          | 0.855             | /        |
|               |          |                  | 1       | 0         | Back Side     | 1880   | 0.420             | -0.04                            | 23.5                     | 23.45                    | 1.012          | 0.425             | /        |
|               |          |                  | 50      | 0         | Back Side     | 1900   | 0.335             | 0.01                             | 23                       | 22.5                     | 1.122          | 0.376             | /        |
|               |          |                  | 1       | 0         | Left Side     | 1880   | 0.681             | 0.09                             | 23.5                     | 23.45                    | 1.012          | 0.689             | /        |
|               |          |                  | 50      | 0         | Left Side     | 1900   | 0.563             | 0.08                             | 23                       | 22.5                     | 1.122          | 0.632             | /        |
|               |          |                  | 1       | 0         | Top Side      | 1880   | 0.702             | -0.16                            | 23.5                     | 23.45                    | 1.012          | 0.710             | /        |



|                |     |      |    |    |             |       |       |       |      |       |       |       |    |
|----------------|-----|------|----|----|-------------|-------|-------|-------|------|-------|-------|-------|----|
|                |     |      | 50 | 0  | Top Side    | 1900  | 0.635 | -0.03 | 23   | 22.5  | 1.122 | 0.712 | /  |
| LTE Band 5     | 10M | QPSK | 1  | 24 | Front side  | 836.5 | 0.364 | 0.04  | 24   | 23.91 | 1.021 | 0.372 | 35 |
|                |     |      | 25 | 24 | Front side  | 829   | 0.328 | 0.14  | 23   | 22.9  | 1.023 | 0.336 | /  |
|                |     |      | 1  | 24 | Back Side   | 836.5 | 0.363 | 0.14  | 24   | 23.91 | 1.021 | 0.371 | /  |
|                |     |      | 25 | 24 | Back Side   | 829   | 0.339 | -0.10 | 23   | 22.9  | 1.023 | 0.347 | /  |
|                |     |      | 1  | 24 | Left Side   | 836.5 | 0.110 | -0.08 | 24   | 23.91 | 1.021 | 0.112 | /  |
|                |     |      | 25 | 24 | Left Side   | 829   | 0.093 | -0.14 | 23   | 22.9  | 1.023 | 0.095 | /  |
|                |     |      | 1  | 24 | Right Side  | 836.5 | 0.132 | -0.08 | 24   | 23.91 | 1.021 | 0.135 | /  |
|                |     |      | 25 | 24 | Right Side  | 829   | 0.127 | -0.14 | 23   | 22.9  | 1.023 | 0.130 | /  |
|                |     |      | 1  | 24 | Bottom Side | 836.5 | 0.237 | -0.19 | 24   | 23.91 | 1.021 | 0.242 | /  |
|                |     |      | 25 | 24 | Bottom Side | 829   | 0.204 | -0.19 | 23   | 22.9  | 1.023 | 0.209 | /  |
| LTE Band 7     | 10M | QPSK | 1  | 0  | Front side  | 2560  | 0.661 | 0.15  | 23.5 | 23.47 | 1.007 | 0.666 | 36 |
|                |     |      | 50 | 0  | Front side  | 2560  | 0.618 | -0.18 | 22.5 | 22.36 | 1.033 | 0.638 | /  |
|                |     |      | 1  | 0  | Back Side   | 2560  | 0.456 | -0.10 | 23.5 | 23.47 | 1.007 | 0.459 | /  |
|                |     |      | 50 | 0  | Back Side   | 2560  | 0.420 | -0.12 | 22.5 | 22.36 | 1.033 | 0.434 | /  |
|                |     |      | 1  | 0  | Left Side   | 2560  | 0.437 | 0.15  | 23.5 | 23.47 | 1.007 | 0.440 | /  |
|                |     |      | 50 | 0  | Left Side   | 2560  | 0.402 | 0.09  | 22.5 | 22.36 | 1.033 | 0.415 | /  |
|                |     |      | 1  | 0  | Top Side    | 2560  | 0.553 | -0.18 | 23.5 | 23.47 | 1.007 | 0.557 | /  |
|                |     |      | 50 | 0  | Top Side    | 2560  | 0.520 | 0.15  | 22.5 | 22.36 | 1.033 | 0.537 | /  |
| LTE Band 12&17 | 10M | QPSK | 1  | 24 | Front side  | 707.5 | 0.137 | -0.02 | 24   | 23.94 | 1.014 | 0.139 | /  |
|                |     |      | 25 | 12 | Front side  | 704   | 0.132 | 0.01  | 23   | 22.92 | 1.019 | 0.134 | /  |
|                |     |      | 1  | 24 | Back Side   | 707.5 | 0.155 | -0.16 | 24   | 23.94 | 1.014 | 0.157 | 37 |
|                |     |      | 25 | 12 | Back Side   | 704   | 0.121 | 0.07  | 23   | 22.92 | 1.019 | 0.123 | /  |
|                |     |      | 1  | 24 | Left Side   | 707.5 | 0.045 | -0.18 | 24   | 23.94 | 1.014 | 0.046 | /  |
|                |     |      | 25 | 12 | Left Side   | 704   | 0.036 | 0.00  | 23   | 22.92 | 1.019 | 0.037 | /  |
|                |     |      | 1  | 24 | Right Side  | 707.5 | 0.031 | -0.18 | 24   | 23.94 | 1.014 | 0.031 | /  |
|                |     |      | 25 | 12 | Right Side  | 704   | 0.027 | 0.00  | 23   | 22.92 | 1.019 | 0.028 | /  |
|                |     |      | 1  | 24 | Bottom Side | 707.5 | 0.013 | -0.04 | 24   | 23.94 | 1.014 | 0.013 | /  |
|                |     |      | 25 | 12 | Bottom Side | 704   | 0.005 | 0.17  | 23   | 22.92 | 1.019 | 0.005 | /  |
| LTE Band 41    | 20M | QPSK | 1  | 0  | Front side  | 2593  | 0.102 | 0.09  | 25   | 24.75 | 1.059 | 0.108 | /  |
|                |     |      | 50 | 0  | Front side  | 2593  | 0.093 | 0.14  | 25   | 24.67 | 1.079 | 0.100 | /  |
|                |     |      | 1  | 0  | Back Side   | 2593  | 0.139 | -0.15 | 25   | 24.75 | 1.059 | 0.147 | 38 |
|                |     |      | 50 | 0  | Back Side   | 2593  | 0.115 | -0.11 | 25   | 24.67 | 1.079 | 0.124 | /  |
|                |     |      | 1  | 0  | Left Side   | 2593  | 0.081 | 0.03  | 25   | 24.75 | 1.059 | 0.086 | /  |



|               |     |         |     |     |            |      |       |       |       |       |       |       |    |
|---------------|-----|---------|-----|-----|------------|------|-------|-------|-------|-------|-------|-------|----|
|               |     |         | 50  | 0   | Left Side  | 2593 | 0.076 | 0.07  | 25    | 24.67 | 1.079 | 0.082 | /  |
|               |     |         | 1   | 0   | Right Side | 2593 | 0.023 | 0.03  | 25    | 24.75 | 1.059 | 0.024 | /  |
|               |     |         | 50  | 0   | Right Side | 2593 | 0.015 | 0.07  | 25    | 24.67 | 1.079 | 0.016 | /  |
|               |     |         | 1   | 0   | Top Side   | 2593 | 0.102 | -0.03 | 25    | 24.75 | 1.059 | 0.108 | /  |
|               |     |         | 50  | 0   | Top Side   | 2593 | 0.085 | 0.18  | 25    | 24.67 | 1.079 | 0.092 | /  |
| LTE Band 66&4 | 20M | QPSK    | 1   | 0   | Front side | 1745 | 0.776 | -0.06 | 24    | 23.61 | 1.094 | 0.849 | 39 |
|               |     |         | 50  | 0   | Front side | 1720 | 0.732 | -0.13 | 23    | 22.59 | 1.099 | 0.804 | /  |
|               |     |         | 1   | 0   | Back Side  | 1745 | 0.281 | 0.07  | 24    | 23.61 | 1.094 | 0.307 | /  |
|               |     |         | 50  | 0   | Back Side  | 1720 | 0.263 | -0.01 | 23    | 22.59 | 1.099 | 0.289 | /  |
|               |     |         | 1   | 0   | Left Side  | 1745 | 0.335 | 0.01  | 24    | 23.61 | 1.094 | 0.366 | /  |
|               |     |         | 50  | 0   | Left Side  | 1720 | 0.317 | -0.07 | 23    | 22.59 | 1.099 | 0.348 | /  |
|               |     |         | 1   | 0   | Top Side   | 1745 | 0.656 | 0.04  | 24    | 23.61 | 1.094 | 0.718 | /  |
|               |     |         | 50  | 0   | Top Side   | 1720 | 0.619 | -0.07 | 23    | 22.59 | 1.099 | 0.680 | /  |
| 2.4GHz WLAN   | N/A | 802.11b | N/A | N/A | Front Side | 2462 | 0.058 | 0.17  | 21.50 | 21.25 | 1.059 | 0.061 | 40 |
|               |     |         |     |     | Back Side  | 2462 | 0.041 | 0.01  | 21.50 | 21.25 | 1.059 | 0.043 | /  |
|               |     |         |     |     | Right Side | 2462 | 0.035 | 0.09  | 21.50 | 21.25 | 1.059 | 0.037 | /  |
|               |     |         |     |     | Top Side   | 2462 | 0.019 | -0.05 | 21.50 | 21.25 | 1.059 | 0.020 | /  |
| 5.2GHz WLAN   | N/A | 802.11b | N/A | N/A | Front Side | 5240 | 0.038 | 0.06  | 14.50 | 14.39 | 1.026 | 0.039 | /  |
|               |     |         |     |     | Back Side  | 5240 | 0.038 | -0.05 | 14.50 | 14.39 | 1.026 | 0.039 | 41 |
|               |     |         |     |     | Right Side | 5240 | 0.021 | 0.06  | 14.50 | 14.39 | 1.026 | 0.022 | /  |
|               |     |         |     |     | Top Side   | 5240 | 0.034 | 0.14  | 14.50 | 14.39 | 1.026 | 0.035 | /  |
| 5.8GHz WLAN   | N/A | 802.11b | N/A | N/A | Front Side | 5825 | 0.049 | -0.01 | 15.00 | 14.57 | 1.104 | 0.054 | 42 |
|               |     |         |     |     | Back Side  | 5825 | 0.057 | 0.14  | 15.00 | 14.57 | 1.104 | 0.063 | /  |
|               |     |         |     |     | Right Side | 5825 | 0.028 | 0.18  | 15.00 | 14.57 | 1.104 | 0.031 | /  |
|               |     |         |     |     | Top Side   | 5825 | 0.033 | -0.05 | 15.00 | 14.57 | 1.104 | 0.036 | /  |

Note:

4. The test separation of all above table is 0mm.
5. 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 DECT: Scaled SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
6. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



## 12.4 Repeated SAR

| Band          | Mode  | Test Position | Freq.  | Result 1g (W/Kg) | Power Drift ( $\leq \pm 0.2$ dB) | Max.Turn-up Power(dBm) | Meas.Output Power(dBm) | Scaled SAR(W/Kg) | Meas. No. |
|---------------|-------|---------------|--------|------------------|----------------------------------|------------------------|------------------------|------------------|-----------|
| GSM1900       | voice | Right Cheek   | 1850.2 | 0.870            | 0.06                             | 27                     | 26.74                  | 0.924            | -         |
| WCDMA Band II | RMC   | Right Cheek   | 1852.4 | 0.994            | -0.17                            | 23.5                   | 23.3                   | 1.041            | -         |
|               |       | Right Cheek   | 1880   | 0.939            | 0.15                             | 23.5                   | 23.43                  | 0.954            | -         |
|               |       | Right Cheek   | 1907.6 | 1.130            | -0.08                            | 24                     | 23.53                  | 1.259            | -         |
| WCDMA Band IV | RMC   | Right Cheek   | 1712.6 | 0.799            | -0.01                            | 23.5                   | 23.42                  | 0.814            | -         |
|               |       | Right Cheek   | 1740   | 0.815            | -0.10                            | 23.5                   | 23.45                  | 0.824            | -         |
|               |       | Right Cheek   | 1752.4 | 0.808            | -0.14                            | 23.5                   | 23.4                   | 0.827            | -         |

| Band        | BW (MHz) | Mod. | RB Size | RB offset | Test Position | Freq. | Result 1g (W/Kg) | Power Drift ( $\leq \pm 0.2$ dB) | Max.Turn-up Power (dBm) | Meas.Output Power (dBm) | Scaled SAR (W/Kg) | Meas. No. |
|-------------|----------|------|---------|-----------|---------------|-------|------------------|----------------------------------|-------------------------|-------------------------|-------------------|-----------|
| LTE Band 2  | 20M      | QPSK | 1       | 49        | Right Cheek   | 1860  | 0.923            | 0.02                             | 23.5                    | 23.25                   | 0.978             | -         |
|             |          |      | 1       | 49        | Right Cheek   | 1880  | 1.109            | -0.15                            | 23.5                    | 23.45                   | 1.122             | -         |
|             |          |      | 1       | 49        | Right Cheek   | 1900  | 1.000            | -0.05                            | 23.5                    | 23.39                   | 1.026             | -         |
|             |          |      | 50      | 49        | Right Cheek   | 1860  | 0.814            | -0.03                            | 22.5                    | 22.31                   | 0.851             | -         |
|             |          |      | 50      | 49        | Right Cheek   | 1880  | 0.851            | -0.13                            | 22.5                    | 22.35                   | 0.880             | -         |
|             |          |      | 50      | 49        | Right Cheek   | 1900  | 0.867            | -0.06                            | 23                      | 22.50                   | 0.973             | -         |
| LTE Band 7  | 10M      | QPSK | 1       | 99        | Right Cheek   | 2510  | 0.937            | 0.02                             | 22.5                    | 22.06                   | 1.037             | -         |
|             |          |      | 1       | 99        | Right Cheek   | 2535  | 0.980            | 0.17                             | 23                      | 22.81                   | 1.024             | -         |
|             |          |      | 1       | 99        | Right Cheek   | 2560  | 1.037            | -0.03                            | 23.5                    | 23.47                   | 1.044             | -         |
|             |          |      | 50      | 49        | Right Cheek   | 2510  | 0.846            | -0.14                            | 21.5                    | 21.00                   | 0.949             | -         |
|             |          |      | 50      | 49        | Right Cheek   | 2535  | 0.793            | 0.15                             | 22                      | 21.67                   | 0.855             | -         |
|             |          |      | 50      | 49        | Right Cheek   | 2560  | 0.812            | -0.05                            | 22.5                    | 22.36                   | 0.839             | -         |
|             |          |      | 100     | 0         | Right Cheek   | 2535  | 0.720            | -0.01                            | 22                      | 21.63                   | 0.784             | -         |
| LTE Band 41 | 20M      | QPSK | 1       | 49        | Right Cheek   | 2506  | 0.817            | 0.19                             | 23                      | 22.93                   | 0.830             | -         |
|             |          |      | 1       | 49        | Right Cheek   | 2593  | 0.984            | -0.11                            | 25                      | 24.75                   | 1.042             | -         |
|             |          |      | 1       | 49        | Right Cheek   | 2680  | 0.866            | 0.08                             | 24                      | 23.67                   | 0.934             | -         |
|             | 20M      | QPSK | 1       | 49        | Right Cheek   | 1720  | 0.812            | 0.07                             | 24                      | 23.44                   | 0.924             | -         |



|                     |  |  |    |    |                |      |       |       |      |       |       |   |
|---------------------|--|--|----|----|----------------|------|-------|-------|------|-------|-------|---|
| LTE<br>Band<br>66&4 |  |  | 1  | 49 | Right<br>Cheek | 1745 | 0.841 | 0.15  | 24   | 23.61 | 0.920 | - |
|                     |  |  | 1  | 49 | Right<br>Cheek | 1770 | 0.828 | 0.14  | 24   | 23.54 | 0.921 | - |
|                     |  |  | 1  | 49 | Right<br>Tilt  | 1720 | 0.906 | -0.01 | 24   | 23.44 | 1.031 | - |
|                     |  |  | 1  | 49 | Right<br>Tilt  | 1745 | 0.985 | -0.13 | 24   | 23.61 | 1.078 | - |
|                     |  |  | 1  | 49 | Right<br>Tilt  | 1770 | 0.894 | -0.12 | 24   | 23.54 | 0.994 | - |
|                     |  |  | 50 | 49 | Right<br>Tilt  | 1720 | 0.826 | -0.05 | 23   | 22.59 | 0.908 | - |
|                     |  |  | 50 | 49 | Right<br>Tilt  | 1745 | 0.769 | -0.07 | 23   | 22.58 | 0.847 | - |
|                     |  |  | 50 | 49 | Right<br>Tilt  | 1770 | 0.775 | 0.08  | 22.5 | 22.47 | 0.780 | - |



### 12.4 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 |
|---------------|-------|---------------|--------|--------------------------------|----------------------|-------|--------------------------------|---------------------|-------|
| GSM1900       | voice | Right Cheek   | 1850.2 | 0.870                          | 0.869                | 1.001 | -                              | -                   | -     |
| WCDMA Band II | RMC   | Right Cheek   | 1852.4 | 1.028                          | 0.994                | 1.034 | -                              | -                   | -     |
|               |       | Right Cheek   | 1880   | 0.969                          | 0.939                | 1.032 | -                              | -                   | -     |
|               |       | Right Cheek   | 1907.6 | 1.17                           | 1.130                | 1.035 | -                              | -                   | -     |
| WCDMA Band IV | RMC   | Right Cheek   | 1712.6 | 0.802                          | 0.799                | 1.004 | -                              | -                   | -     |
|               |       | Right Cheek   | 1740   | 0.833                          | 0.815                | 1.023 | -                              | -                   | -     |
|               |       | Right Cheek   | 1752.4 | 0.818                          | 0.808                | 1.012 | -                              | -                   | -     |

| Band        | BW (MHz) | Mod. | RB Size | RB offset | Test Position | Freq. | Original Measured SAR 1g(W/kg) 1g (W/Kg) | 1 st Repeated SAR 1g | Ratio | Original Measured | 2nd Repeated SAR 1g | Ratio |
|-------------|----------|------|---------|-----------|---------------|-------|------------------------------------------|----------------------|-------|-------------------|---------------------|-------|
| LTE Band 2  | 20M      | QPSK | 1       | 49        | Right Cheek   | 1860  | 0.956                                    | 0.923                | 1.036 | -                 | -                   | -     |
|             |          |      | 1       | 49        | Right Cheek   | 1880  | 1.13                                     | 1.109                | 1.019 | -                 | -                   | -     |
|             |          |      | 1       | 49        | Right Cheek   | 1900  | 1.028                                    | 1.000                | 1.028 | -                 | -                   | -     |
|             |          |      | 50      | 49        | Right Cheek   | 1860  | 0.851                                    | 0.814                | 1.045 | -                 | -                   | -     |
|             |          |      | 50      | 49        | Right Cheek   | 1880  | 0.867                                    | 0.851                | 1.019 | -                 | -                   | -     |
|             |          |      | 50      | 49        | Right Cheek   | 1900  | 0.886                                    | 0.867                | 1.022 | -                 | -                   | -     |
| LTE Band 7  | 10M      | QPSK | 1       | 99        | Right Cheek   | 2510  | 0.958                                    | 0.937                | 1.022 | -                 | -                   | -     |
|             |          |      | 1       | 99        | Right Cheek   | 2535  | 0.992                                    | 0.980                | 1.012 | -                 | -                   | -     |
|             |          |      | 1       | 99        | Right Cheek   | 2560  | 1.07                                     | 1.037                | 1.032 | -                 | -                   | -     |
|             |          |      | 50      | 49        | Right Cheek   | 2510  | 0.853                                    | 0.846                | 1.009 | -                 | -                   | -     |
|             |          |      | 50      | 49        | Right Cheek   | 2535  | 0.819                                    | 0.793                | 1.033 | -                 | -                   | -     |
|             |          |      | 50      | 49        | Right Cheek   | 2560  | 0.824                                    | 0.812                | 1.015 | -                 | -                   | -     |
|             |          |      | 100     | 0         | Right Cheek   | 2535  | 0.739                                    | 0.720                | 1.027 | -                 | -                   | -     |
| LTE Band 41 | 20M      | QPSK | 1       | 49        | Right Cheek   | 2506  | 0.826                                    | 0.817                | 1.011 | -                 | -                   | -     |
|             |          |      | 1       | 49        | Right Cheek   | 2593  | 1.02                                     | 0.984                | 1.036 | -                 | -                   | -     |
|             |          |      | 1       | 49        | Right Cheek   | 2680  | 0.887                                    | 0.866                | 1.025 | -                 | -                   | -     |



|                     |     |      |    |    |                |      |        |       |       |   |   |   |
|---------------------|-----|------|----|----|----------------|------|--------|-------|-------|---|---|---|
| LTE<br>Band<br>66&4 | 20M | QPSK | 1  | 49 | Right<br>Cheek | 1720 | 0.846  | 0.812 | 1.042 |   |   |   |
|                     |     |      | 1  | 49 | Right<br>Cheek | 1745 | 0.873  | 0.841 | 1.038 | - | - | - |
|                     |     |      | 1  | 49 | Right<br>Cheek | 1770 | 0.85   | 0.828 | 1.027 | - | - | - |
|                     |     |      | 1  | 49 | Right<br>Tilt  | 1720 | 0.9227 | 0.906 | 1.018 | - | - | - |
|                     |     |      | 1  | 49 | Right<br>Tilt  | 1745 | 1.02   | 0.985 | 1.035 | - | - | - |
|                     |     |      | 1  | 49 | Right<br>Tilt  | 1770 | 0.935  | 0.894 | 1.046 | - | - | - |
|                     |     |      | 50 | 49 | Right<br>Tilt  | 1720 | 0.828  | 0.826 | 1.002 | - | - | - |
|                     |     |      | 50 | 49 | Right<br>Tilt  | 1745 | 0.803  | 0.769 | 1.045 | - | - | - |
|                     |     |      | 50 | 49 | Right<br>Tilt  | 1770 | 0.815  | 0.775 | 1.052 | - | - | - |

**12.5 Simultaneous Multi-band Transmission Evaluation**

Application Simultaneous Transmission information:

| Position | Simultaneous State             |
|----------|--------------------------------|
| Head     | 1. GSM + 2.4GHz WLAN/5G WLAN   |
|          | 2. GSM + Bluetooth             |
|          | 3. GSM + NFC                   |
|          | 4. WCDMA + 2.4GHz WLAN/5G WLAN |
|          | 5. WCDMA + Bluetooth           |
|          | 6. WCDMA +NFC                  |
|          | 7. LTE + 2.4GHz WLAN/5G WLAN   |
|          | 8. LTE + Bluetooth             |
|          | 9. LTE +NFC                    |
| Body     | 1. GSM + 2.4GHz WLAN/5G WLAN   |
|          | 2. GSM + Bluetooth             |
|          | 3. GSM + NFC                   |
|          | 4. WCDMA + 2.4GHz WLAN/5G WLAN |
|          | 5. WCDMA + Bluetooth           |
|          | 6. WCDMA +NFC                  |
|          | 7. LTE + 2.4GHz WLAN/5G WLAN   |
|          | 8. LTE + Bluetooth             |
|          | 9. LTE +NFC                    |
| Limbs    | 1. GSM + 2.4GHz WLAN/5G WLAN   |
|          | 2. GSM + Bluetooth             |
|          | 3. GSM + NFC                   |
|          | 4. WCDMA + 2.4GHz WLAN/5G WLAN |
|          | 5. WCDMA + Bluetooth           |
|          | 6. WCDMA +NFC                  |
|          | 7. LTE + 2.4GHz WLAN/5G WLAN   |
|          | 8. LTE + Bluetooth             |
|          | 9. LTE +NFC                    |

**NOTE:**

1. For simultaneous transmission at Head and Body exposure position, 2 transmitters simultaneous transmission was the worst state.
2. Based upon KDB 447498 D01, BT SAR is excluded as below table.
3. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. For minimum test separation distance  $\leq 50\text{mm}$ , Bluetooth standalone SAR is excluded according to  $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot \sqrt{f \text{ (GHz)}}] / x \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR
5. The reported SAR summation is calculated based on the same configuration and test position.
6. According to DRS Notice 2016-DRS001, the estimate SAR value is calculated based the following equation:

(maximum power level including tune-up tolerance for transmitter A / maximum power level of exemption at the same frequency and distance) \* 0.4W/kg.

| Estimated SAR |       | Maximum Average Power |       | Dis. | Frequency(GHz) | Stand alone SAR(1&10g) [W/kg] |
|---------------|-------|-----------------------|-------|------|----------------|-------------------------------|
|               |       | dBm                   | mW    |      |                |                               |
| BT            | Head  | 3.1                   | 2.042 | 0    | 2.402          | 0.084                         |
|               | Body  |                       |       | 10   | 2.402          | 0.017                         |
|               | Limbs |                       |       | 0    | 2.402          | 0.084                         |



| Estimated SAR |       | Maximum Average Power |       | Dis. | Frequency(GHz) | Stand alone SAR(1&10g) [W/kg] |
|---------------|-------|-----------------------|-------|------|----------------|-------------------------------|
|               |       | dBm                   | mW    |      |                |                               |
| NFC           | Head  | -39.37                | 0.000 | 0    | 0.01356        | 0.000                         |
|               | Body  |                       |       | 10   | 0.01356        | 0.000                         |
|               | Limbs |                       |       | 0    | 0.01356        | 0.000                         |



| Simultaneous Mode | Position | Mode      | Max. 1-g SAR | 1-g Sum SAR |
|-------------------|----------|-----------|--------------|-------------|
|                   |          |           | (W/kg)       | (W/kg)      |
| GSM + 2.4G WLAN   | Head     | GSM       | 0.882        | 1.061       |
|                   |          | 2.4G WLAN | 0.077        |             |
|                   | Body     | GSM       | 0.307        | 0.346       |
|                   |          | 2.4G WLAN | 0.039        |             |
| GSM + Bluetooth   | Head     | GSM       | 0.882        | 0.966       |
|                   |          | Bluetooth | 0.084        |             |
|                   | Body     | GSM       | 0.307        | 0.324       |
|                   |          | Bluetooth | 0.017        |             |
| GSM + 5G WLAN     | Head     | GSM       | 0.882        | 0.962       |
|                   |          | 5G WLAN   | 0.080        |             |
|                   | Body     | GSM       | 0.307        | 0.442       |
|                   |          | 5G WLAN   | 0.135        |             |
| GSM + NFC         | Head     | GSM       | 0.882        | 0.882       |
|                   |          | NFC       | 0.000        |             |
|                   | Body     | GSM       | 0.307        | 0.307       |
|                   |          | NFC       | 0.000        |             |
| WCDMA + 2.4G WLAN | Head     | WCDMA     | 1.304        | 1.381       |
|                   |          | 2.4G WLAN | 0.077        |             |
|                   | Body     | WCDMA     | 0.662        | 0.701       |
|                   |          | 2.4G WLAN | 0.039        |             |
| WCDMA + Bluetooth | Head     | WCDMA     | 1.304        | 1.388       |
|                   |          | Bluetooth | 0.084        |             |
|                   | Body     | WCDMA     | 0.662        | 0.679       |
|                   |          | Bluetooth | 0.017        |             |
| WCDMA + 5G WLAN   | Head     | WCDMA     | 1.304        | 1.384       |
|                   |          | 5G WLAN   | 0.080        |             |
|                   | Body     | WCDMA     | 0.662        | 0.797       |
|                   |          | 5G WLAN   | 0.135        |             |
| WCDMA + NFC       | Head     | WCDMA     | 1.304        | 1.304       |
|                   |          | NFC       | 0.000        |             |
|                   | Body     | WCDMA     | 0.662        | 0.662       |
|                   |          | NFC       | 0.000        |             |
| LTE + 2.4G WLAN   | Head     | LTE       | 1.143        | 1.220       |
|                   |          | 2.4G WLAN | 0.077        |             |
|                   | Body     | LTE       | 0.526        | 0.565       |
|                   |          | 2.4G WLAN | 0.039        |             |
| LTE + Bluetooth   | Head     | LTE       | 1.143        | 1.227       |
|                   |          | Bluetooth | 0.084        |             |
|                   | Body     | LTE       | 0.526        | 0.543       |
|                   |          | Bluetooth | 0.017        |             |



|               |      |         |       |       |
|---------------|------|---------|-------|-------|
| LTE + 5G WLAN | Head | LTE     | 1.143 | 1.223 |
|               |      | 5G WLAN | 0.080 |       |
|               | Body | LTE     | 0.526 | 0.661 |
|               |      | 5G WLAN | 0.135 |       |
| LTE + NFC     | Head | LTE     | 1.143 | 1.143 |
|               |      | NFC     | 0.000 |       |
|               | Body | LTE     | 0.526 | 0.526 |
|               |      | NFC     | 0.000 |       |

| Simultaneous Mode | Position | Mode      | Max. 10-g SAR | 10-g Sum SAR |
|-------------------|----------|-----------|---------------|--------------|
|                   |          |           | (W/kg)        | (W/kg)       |
| GSM + 2.4G WLAN   | Limbs    | GSM       | 0.573         | 0.634        |
|                   |          | 2.4G WLAN | 0.061         |              |
| GSM + Bluetooth   | Limbs    | GSM       | 0.573         | 0.657        |
|                   |          | Bluetooth | 0.084         |              |
| GSM + 5G WLAN     | Limbs    | GSM       | 0.573         | 0.636        |
|                   |          | 5G WLAN   | 0.063         |              |
| GSM + NFC         | Limbs    | GSM       | 0.573         | 0.573        |
|                   |          | NFC       | 0.000         |              |
| WCDMA + 2.4G WLAN | Limbs    | WCDMA     | 1.259         | 1.320        |
|                   |          | 2.4G WLAN | 0.061         |              |
| WCDMA + Bluetooth | Limbs    | WCDMA     | 1.259         | 1.343        |
|                   |          | Bluetooth | 0.084         |              |
| WCDMA + 5G WLAN   | Limbs    | WCDMA     | 1.259         | 1.322        |
|                   |          | 5G WLAN   | 0.063         |              |
| WCDMA + NFC       | Limbs    | WCDMA     | 1.259         | 1.259        |
|                   |          | NFC       | 0.000         |              |
| LTE + 2.4G WLAN   | Limbs    | LTE       | 0.882         | 0.943        |
|                   |          | 2.4G WLAN | 0.061         |              |
| LTE + Bluetooth   | Limbs    | LTE       | 0.882         | 0.966        |
|                   |          | Bluetooth | 0.084         |              |
| LTE + 5G WLAN     | Limbs    | LTE       | 0.882         | 0.945        |
|                   |          | 5G WLAN   | 0.063         |              |
| LTE + NFC         | Limbs    | LTE       | 0.882         | 0.882        |
|                   |          | NFC       | 0.000         |              |

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.



### 13. Equipment List

| Kind of Equipment                    | Manufacturer | Type No.          | Serial No.            | Last Calibration | Calibrated Until |
|--------------------------------------|--------------|-------------------|-----------------------|------------------|------------------|
| 750MHz Dipole                        | MVG          | SID750            | SN 30/14 DIP0G750-331 | 2023.07.04       | 2026.07.03       |
| 835MHz Dipole                        | MVG          | SID835            | SN 30/14 DIP0G835-332 | 2023.07.04       | 2026.07.03       |
| 900MHz Dipole                        | MVG          | SID900            | 5023-DIP0G900-746     | 2023.12.20       | 2026.12.19       |
| 1800MHz Dipole                       | MVG          | SID1800           | 5023-DIP1G800-747     | 2023.12.20       | 2026.12.19       |
| 1900MHz Dipole                       | MVG          | SID1900           | SN 30/14 DIP1G900-333 | 2023.09.14       | 2026.09.13       |
| 2450MHz Dipole                       | MVG          | SID2450           | SN 30/14 DIP2G450-335 | 2023.07.04       | 2026.07.03       |
| 2600MHz Dipole                       | MVG          | SID2600           | SN 30/14 DIP2G600-336 | 2023.07.04       | 2026.07.03       |
| Waveguide                            | MVG          | SWG5500           | SN 13/14 WGA32        | 2023.07.04       | 2026.07.03       |
| Data Acquisition Electronics<br>DAEx | SPEAG        | DAE3              | 428                   | 2025.09.08       | 2026.09.07       |
| E-field Probe                        | SPEAG        | EX3DV4            | 3806                  | 2025-09-11       | 2026-09-10       |
| Dielectric Probe Kit                 | MVG          | SCLMP             | SN 32/14 OCPG67       | 2025.09.15       | 2026.09.14       |
| Antenna                              | MVG          | ANTA3             | SN 07/13 ZNTA52       | N/A              | N/A              |
| Attenuator                           | Agilent      | HXT-10-8-SMA      | 240327017             | 2026.02.04       | 2027.02.03       |
| Directional coupler                  | Xi'an Xingbo | XBOH-OA08-20dB    | 211123-4-3            | 2026.02.03       | 2027.02.02       |
| Network Analyzer                     | Agilent      | E5071C            | MY46520378            | 2025-09-26       | 2026-09-24       |
| Multi Meter                          | Keithley     | Multi Meter 2000  | 4050073               | 2025-09-22       | 2026-09-21       |
| Signal Generator                     | Agilent      | N5182A            | MY50140530            | 2025-09-26       | 2026-09-25       |
| Wireless Communication<br>Test Set   | Agilent      | 8960-E5515C       | MY48360751            | 2026.02.04       | 2027.02.03       |
| Wireless Communication<br>Test Set   | R&S          | CMW500            | 156324                | 2025-09-25       | 2026-09-24       |
| Power Amplifier                      | DESAY        | WCS-DLNA50M8G50G1 | CSKJLNA231227A        | 2025-09-29       | 2026-09-28       |
| Power Meter                          | R&S          | NRP               | 100510                | 2025-09-25       | 2026-09-24       |
| Power Sensor                         | R&S          | NRP-Z11           | 101919                | 2025-09-25       | 2026-09-24       |
| Power Sensor                         | Keysight     | U2021XA           | MY56280002            | 2025-09-25       | 2026-09-24       |
| Temperature hygrometer               | TOPRIE       | TP502V4-P         | 6700000124198         | 2025.10.09       | 2026.10.08       |
| Thermograph                          | Elitech      | RC-4              | S/N EF7176501537      | 2025.10.17       | 2026.10.16       |



## Appendix A. System Validation Plots

Test Laboratory: STS Lab

Time: 2026-03-28

### System Check\_750MHz

#### DUT: Dipole 750 MHz D750V3

Communication System: UID 0, CW (0); Communication System Band: D750 (750.0 MHz); Frequency: 750 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 42.00$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.35, 8.89, 9.14) @ 750 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (6x15x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.946 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 37.63 V/m; Power Drift = -0.03 dB

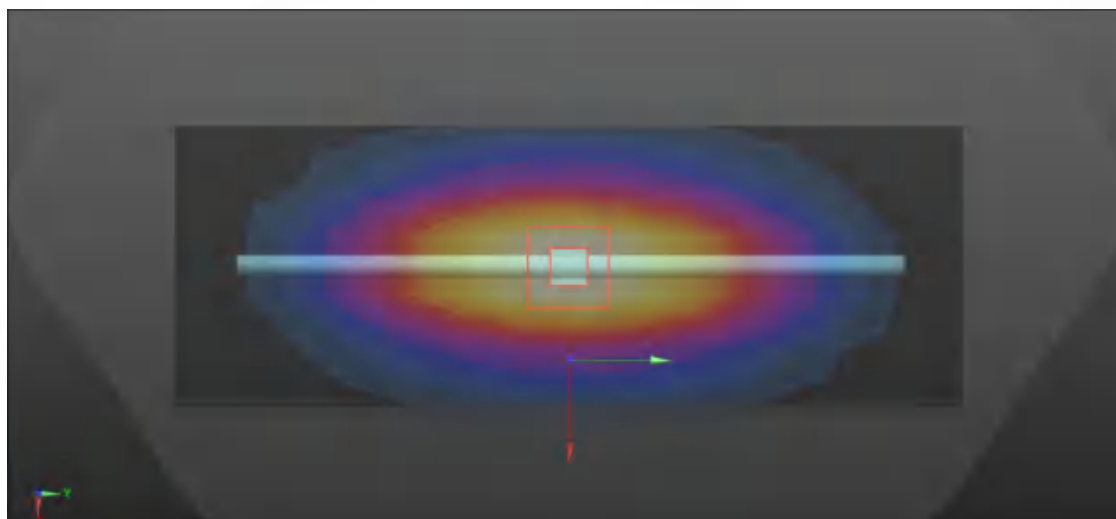
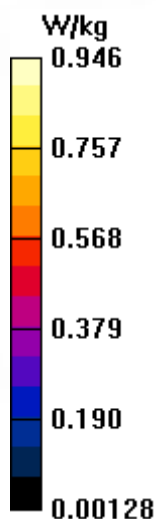
Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.843 W/kg; SAR(10 g) = 0.581 W/kg**

Smallest distance from peaks to all points 3 dB below = 19.6 mm

Ratio of SAR at M2 to SAR at M1 = 68.5%

Maximum value of SAR (measured) = 1.05 W/kg





Test Laboratory: STS Lab

Time: 2026-03-29

**System Check\_835MHz****DUT: Dipole 835 MHz**

Communication System: UID 0, CW (0); Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated):  $f = 835$  MHz;  $\sigma = 0.93$  S/m;  $\epsilon_r = 41.88$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(8.2, 8.73, 8.98) @ 835 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.24 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 39.32 V/m; Power Drift = 0.11 dB

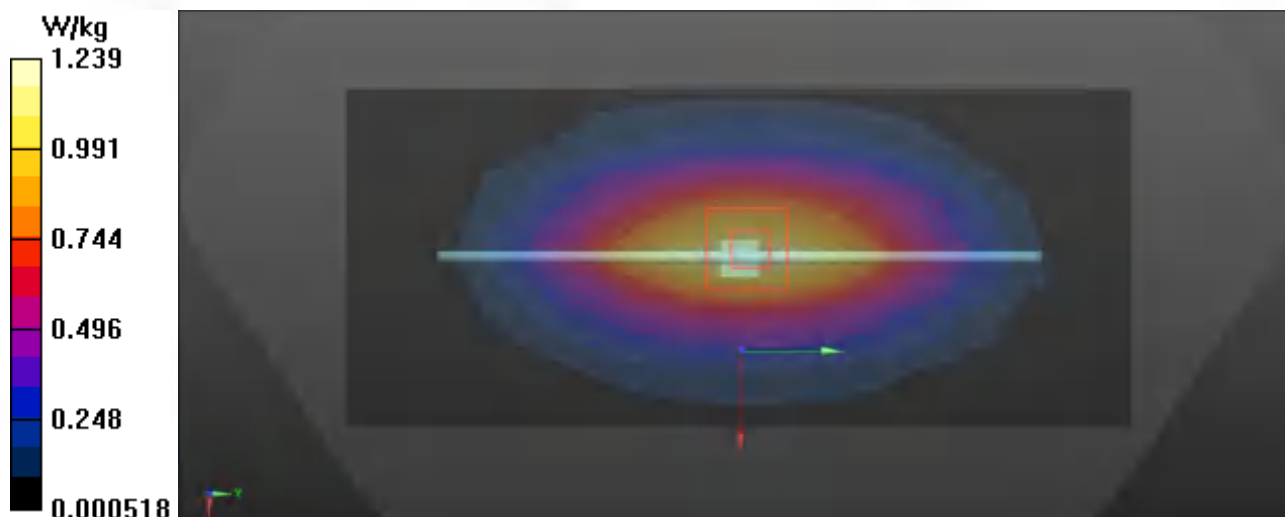
Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.908 W/kg; SAR(10 g) = 0.613 W/kg**

Smallest distance from peaks to all points 3 dB below = 17.6 mm

Ratio of SAR at M2 to SAR at M1 = 67.9%

Maximum value of SAR (measured) = 1.25 W/kg



**System Check\_835MHz****DUT: Dipole 835 MHz D835V2**

Communication System: UID 0, CW (0); Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated):  $f = 835$  MHz;  $\sigma = 0.90$  S/m;  $\epsilon_r = 41.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(8.2, 8.73, 8.98) @ 835 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.09 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 38.53 V/m; Power Drift = 0.14 dB

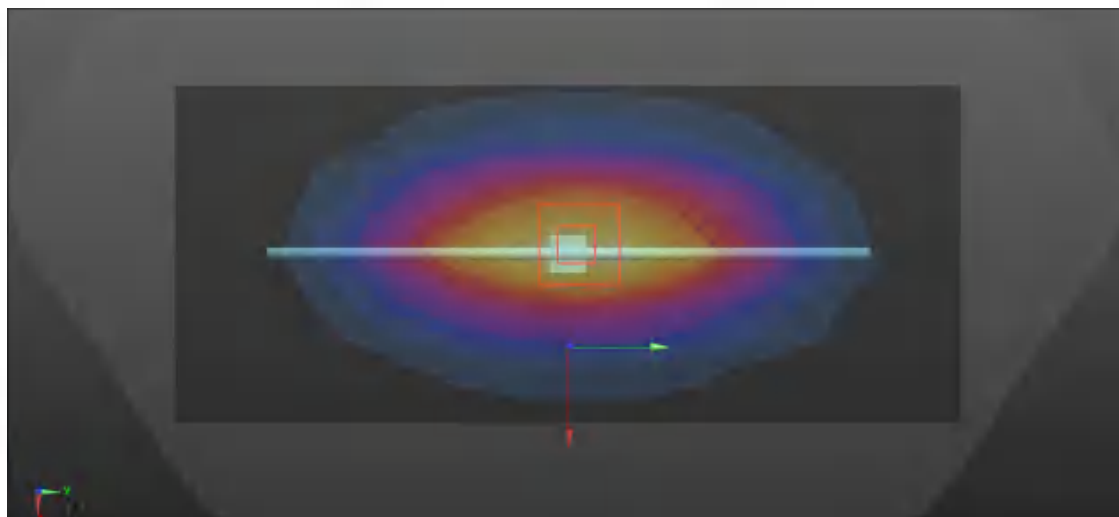
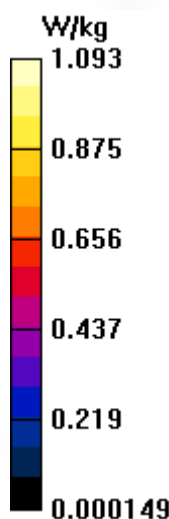
Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.981 W/kg; SAR(10 g) = 0.649 W/kg**

Smallest distance from peaks to all points 3 dB below = 17.6 mm

Ratio of SAR at M2 to SAR at M1 = 67.6%

Maximum value of SAR (measured) = 1.12 W/kg



**System Check\_1800MHz****DUT: Dipole 1800 MHz**

Communication System: UID 0, CW (0); Communication System Band: D1800 (1800.0 MHz); Frequency: 1800 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.41$  S/m;  $\epsilon_r = 40.83$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(7.06, 7.52, 7.74) @ 1800 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (7x13x1):** Measurement grid:  $dx=8$ mm,  $dy=8$ mm

Maximum value of SAR (measured) = 5.09 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 64.37 V/m; Power Drift = -0.18 dB

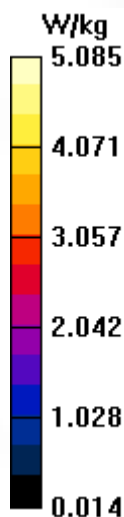
Peak SAR (extrapolated) = 6.68 W/kg

**SAR(1 g) = 3.720 W/kg; SAR(10 g) = 2.057 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 5.59 W/kg



**System Check\_1800MHz****DUT: Dipole 1800 MHz**

Communication System: UID 0, CW (0); Communication System Band: D1800 (1800.0 MHz); Frequency: 1800 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.41$  S/m;  $\epsilon_r = 40.73$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(7.06, 7.52, 7.74) @ 1800 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (7x13x1):** Measurement grid:  $dx=8$ mm,  $dy=8$ mm

Maximum value of SAR (measured) = 4.83 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 62.47 V/m; Power Drift = -0.05 dB

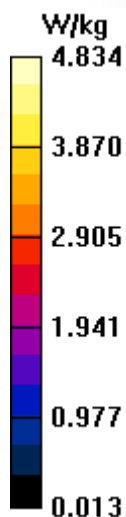
Peak SAR (extrapolated) = 6.27 W/kg

**SAR(1 g) = 3.750 W/kg; SAR(10 g) = 2.072 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 5.27 W/kg



**System Check\_1900MHz****DUT: Dipole 1900 MHz**

Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.40$  S/m;  $\epsilon_r = 40.08$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.3, 7.51) @ 1900 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (5x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 5.16 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 64.19 V/m; Power Drift = -0.05 dB

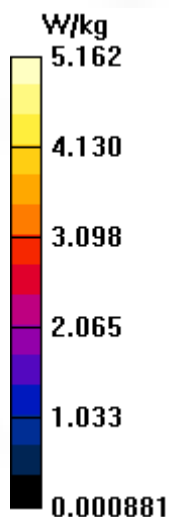
Peak SAR (extrapolated) = 7.02 W/kg

**SAR(1 g) = 3.943 W/kg; SAR(10 g) = 1.978 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.6%

Maximum value of SAR (measured) = 5.76 W/kg



**System Check\_1900MHz****DUT: Dipole 1900 MHz**

Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.40$  S/m;  $\epsilon_r = 39.97$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.3, 7.51) @ 1900 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (5x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 5.25 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 65.10 V/m; Power Drift = 0.07 dB

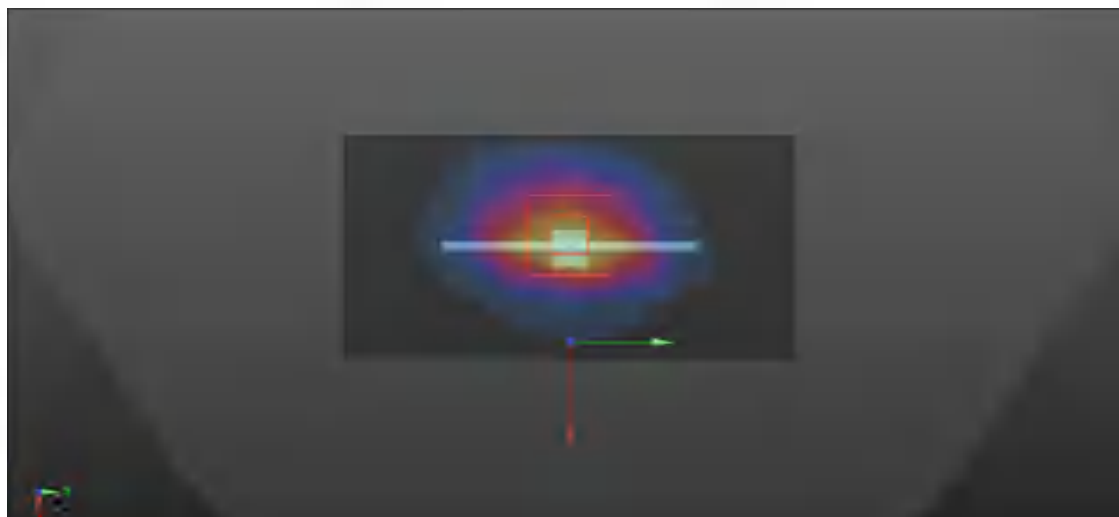
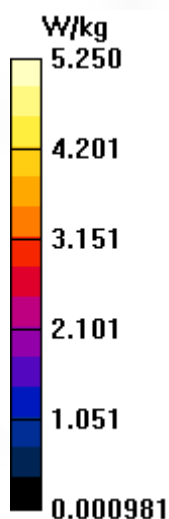
Peak SAR (extrapolated) = 7.06 W/kg

**SAR(1 g) = 3.957 W/kg; SAR(10 g) = 2.057 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 5.80 W/kg



**System Check\_2450MHz****DUT: Dipole 2450 MHz**

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.79$  S/m;  $\epsilon_r = 39.94$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.3, 6.71, 6.9) @ 2450 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (4x7x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 7.95 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 72.04 V/m; Power Drift = -0.07 dB

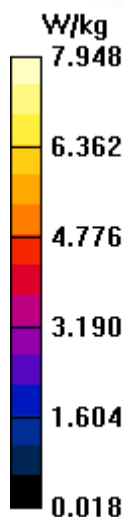
Peak SAR (extrapolated) = 10.1 W/kg

**SAR(1 g) = 5.503 W/kg; SAR(10 g) = 2.373 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.8%

Maximum value of SAR (measured) = 8.00 W/kg



**System Check\_2600MHz****DUT: HAC Dipole 2600 MHz**

Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.94$  S/m;  $\epsilon_r = 39.69$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.14, 6.54, 6.73) @ 2600 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (5x7x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 7.62 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 68.89 V/m; Power Drift = 0.11 dB

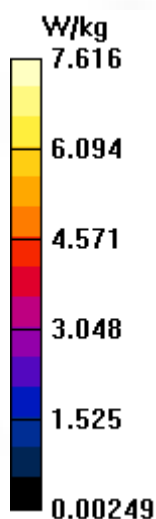
Peak SAR (extrapolated) = 11.1 W/kg

**SAR(1 g) = 5.636 W/kg; SAR(10 g) = 2.450 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 49.4%

Maximum value of SAR (measured) = 8.65 W/kg





## System Check\_2600MHz

### DUT: HAC Dipole 2600 MHz

Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.95$  S/m;  $\epsilon_r = 39.77$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.14, 6.54, 6.73) @ 2600 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (5x7x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 7.09 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 66.10 V/m; Power Drift = 0.12 dB

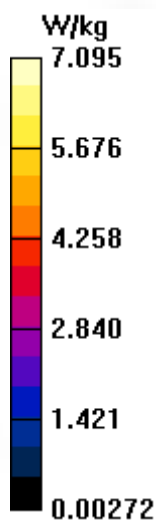
Peak SAR (extrapolated) = 10.4 W/kg

**SAR(1 g) = 5.573 W/kg; SAR(10 g) = 2.416 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 49.2%

Maximum value of SAR (measured) = 8.11 W/kg



**System Check\_5200MHz****DUT: HAC Dipole 5500 MHz**

Communication System: UID 0, CW (0); Communication System Band: ITD5500 (5000.0 - 5900.0 MHz);

Frequency: 5200 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.67$  S/m;  $\epsilon_r = 36.07$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(4.96, 5.28, 5.44) @ 5200 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection),  $z = 1.0$ , 31.0
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (13x28x1):** Measurement grid:  $dx=8$ mm,  $dy=8$ mm

Maximum value of SAR (measured) = 3.31 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 20.46 V/m; Power Drift = -0.13 dB

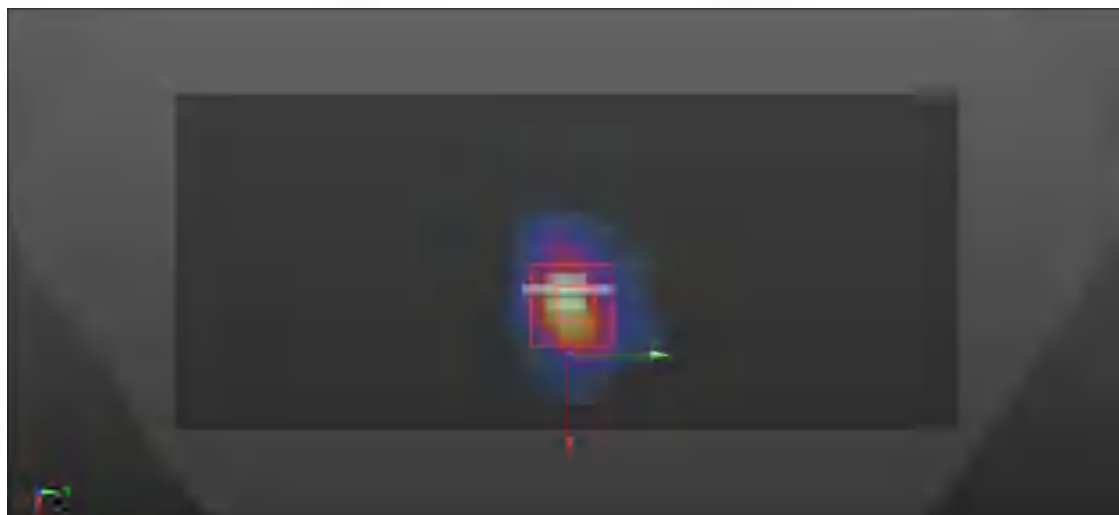
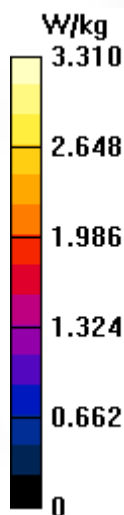
Peak SAR (extrapolated) = 6.01 W/kg

**SAR(1 g) = 1.575 W/kg; SAR(10 g) = 0.606 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 46.8%

Maximum value of SAR (measured) = 3.43 W/kg



**System Check\_5800MHz****DUT: HAC Dipole 5500 MHz**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5800 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.26$  S/m;  $\epsilon_r = 34.78$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(4.59, 4.89, 5.03) @ 5800 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x9x1):** Measurement grid:  $dx=8$ mm,  $dy=8$ mm

Maximum value of SAR (measured) = 3.67 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 28.25 V/m; Power Drift = -0.51 dB

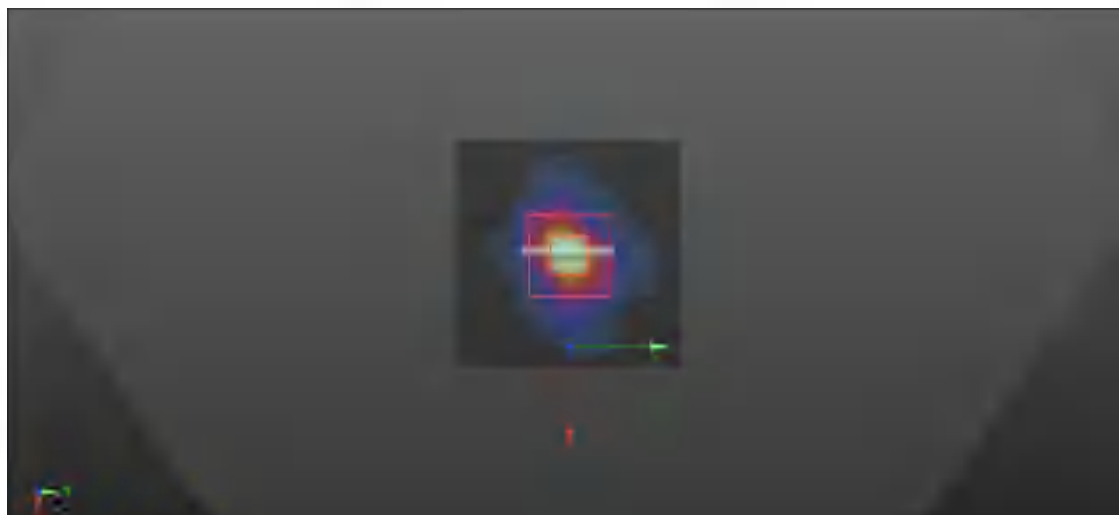
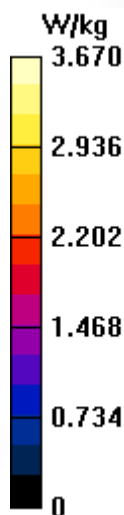
Peak SAR (extrapolated) = 8.48 W/kg

**SAR(1 g) = 1.977 W/kg; SAR(10 g) = 0.666 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 53.7%

Maximum value of SAR (measured) = 3.56 W/kg





## Appendix B. SAR Test Plots

Test Laboratory: STS Lab

Time: 2026-03-29

### GSM 850\_Right Cheek

#### DUT: Unnamed Device

Communication System: UID 0, Generic GSM (0); Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 848.8 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104

Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.92$  S/m;  $\epsilon_r = 42.26$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.2, 8.73, 8.98) @ 848.8 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0569 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 1.083 V/m; Power Drift = 0.10 dB

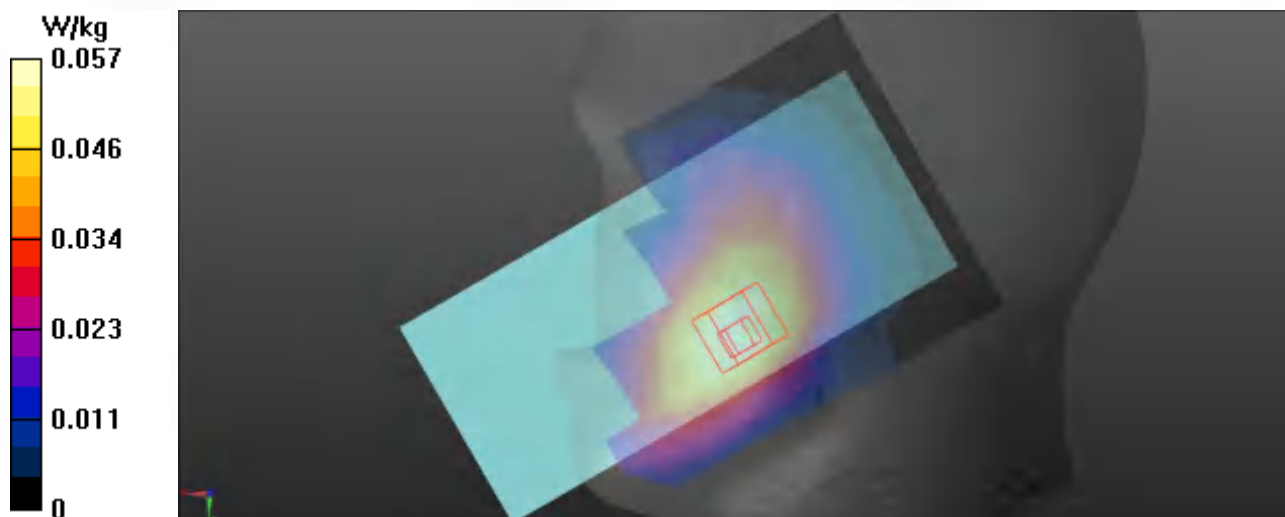
Peak SAR (extrapolated) = 0.0750 W/kg

**SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.044 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 79.5%

Maximum value of SAR (measured) = 0.0609 W/kg



**GSM 1900\_Right Cheek****DUT: Unnamed Device**

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1850.2 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.39$  S/m;  $\epsilon_r = 39.97$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.3, 7.51) @ 1850.2 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.858 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.947 V/m; Power Drift = 0.14 dB

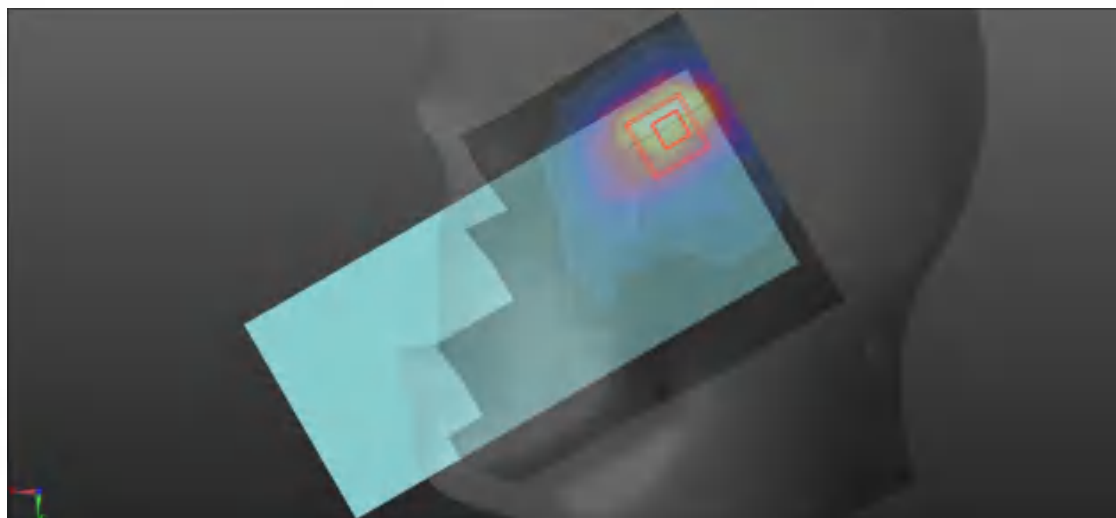
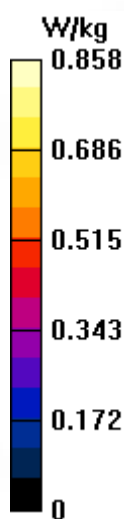
Peak SAR (extrapolated) = 1.59 W/kg

**SAR(1 g) = 0.870 W/kg; SAR(10 g) = 0.450 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 0.949 W/kg



**WCDMA B2\_Right Cheek****DUT: Unnamed Device**

Communication System: UID 0, Generic WCDMA (0); Communication System Band: WCDMA B2; Frequency: 1907.6 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.38$  S/m;  $\epsilon_r = 40.76$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.3, 7.51) @ 1907.6 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.993 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 14.31 V/m; Power Drift = -0.16 dB

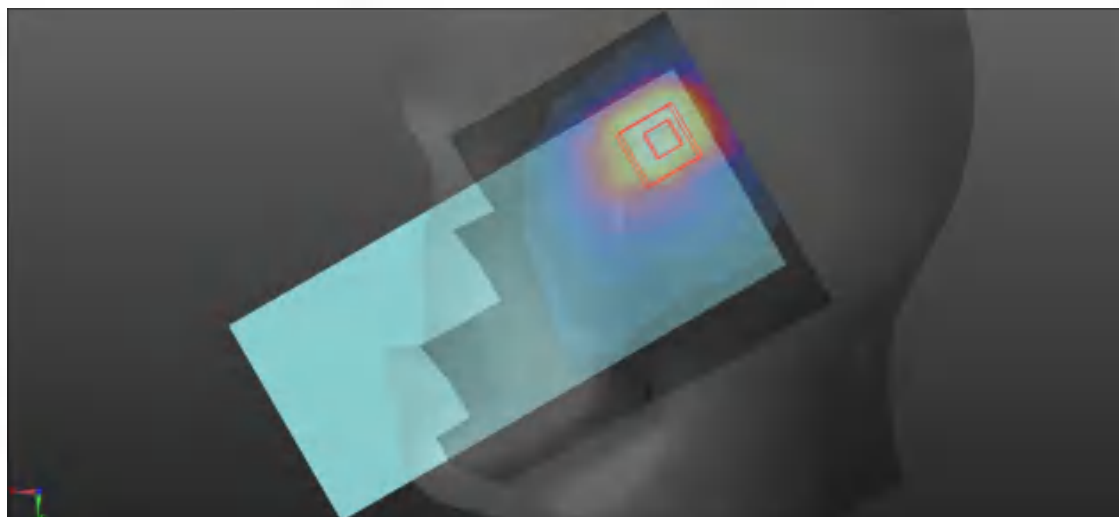
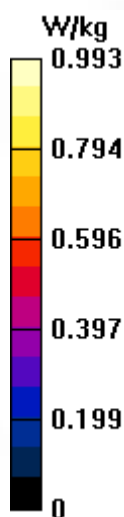
Peak SAR (extrapolated) = 2.10 W/kg

**SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.619 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 58%

Maximum value of SAR (measured) = 1.23 W/kg



**WCDMA B4\_Right Cheek****DUT: Unnamed Device**

Communication System: UID 0, Generic WCDMA (0); Communication System Band: WCDMA B4; Frequency: 1740 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 1740$  MHz;  $\sigma = 1.35$  S/m;  $\epsilon_r = 41.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(7.06, 7.52, 7.74) @ 1740 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.729 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.56 V/m; Power Drift = -0.11 dB

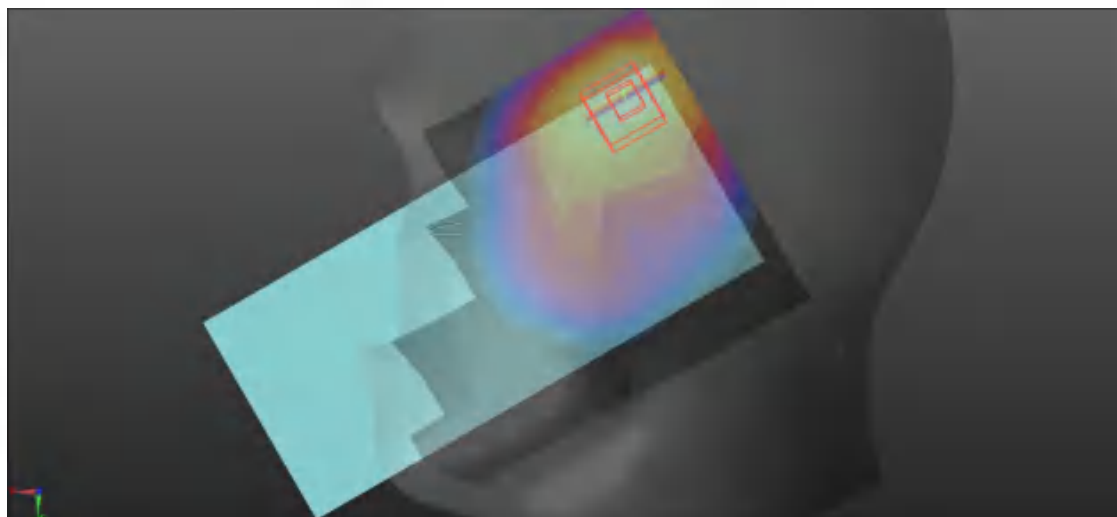
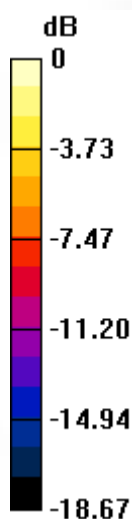
Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 0.833 W/kg; SAR(10 g) = 0.446 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.7 mm

Ratio of SAR at M2 to SAR at M1 = 57.8%

Maximum value of SAR (measured) = 0.909 W/kg



**WCDMA B5\_Right Cheek****DUT: Unnamed Device**

Communication System: UID 0, Generic WCDMA (0); Communication System Band: WCDMA B5; Frequency: 826.4 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.89$  S/m;  $\epsilon_r = 41.87$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(8.2, 8.73, 8.98) @ 826.4 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**ConfigArea Scan (9x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0695 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 1.491 V/m; Power Drift = 0.12 dB

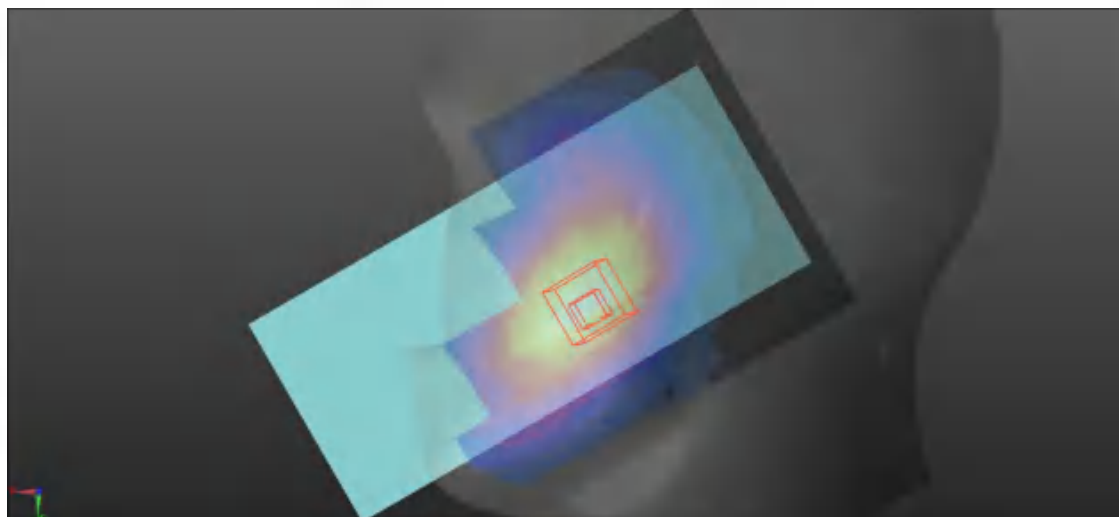
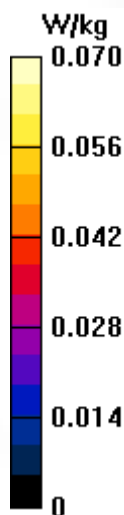
Peak SAR (extrapolated) = 0.0870 W/kg

**SAR(1 g) = 0.066 W/kg; SAR(10 g) = 0.048 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.5 mm

Ratio of SAR at M2 to SAR at M1 = 75.1%

Maximum value of SAR (measured) = 0.0692 W/kg



**LTE B2\_Right Side****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.40$  S/m;  $\epsilon_r = 40.33$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.3, 7.51) @ 1880 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.929 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 13.39 V/m; Power Drift = -0.05 dB

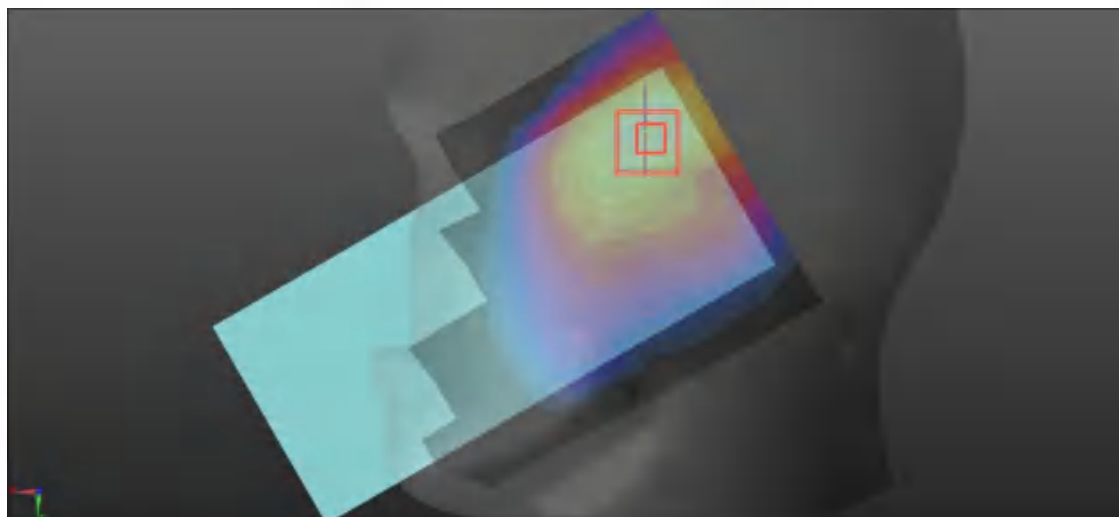
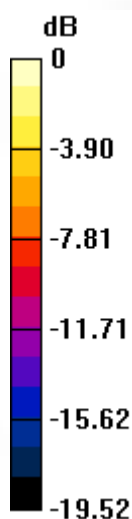
Peak SAR (extrapolated) = 2.06 W/kg

**SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.588 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 56.7%

Maximum value of SAR (measured) = 1.19 W/kg



**LTE B5\_Right Side****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.92$  S/m;  $\epsilon_r = 41.69$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(8.2, 8.73, 8.98) @ 836.5 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.103 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 2.987 V/m; Power Drift = 0.08 dB

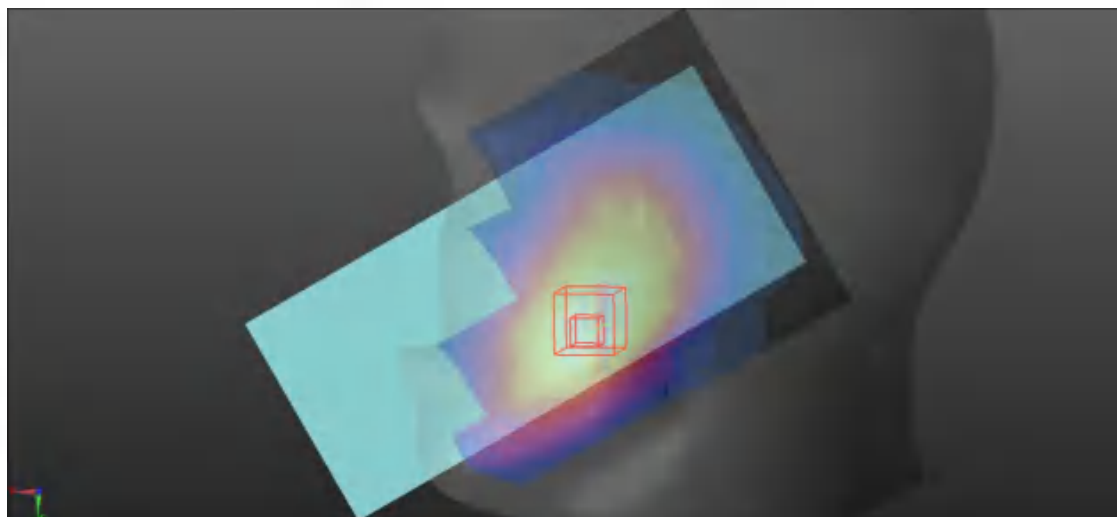
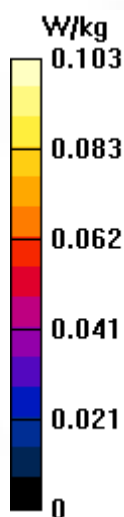
Peak SAR (extrapolated) = 0.122 W/kg

**SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.073 W/kg**

Smallest distance from peaks to all points 3 dB below = 19.4 mm

Ratio of SAR at M2 to SAR at M1 = 79.6%

Maximum value of SAR (measured) = 0.102 W/kg



**LTE B7\_Right Side****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2560 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used (interpolated):  $f = 2560$  MHz;  $\sigma = 1.94$  S/m;  $\epsilon_r = 38.82$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.14, 6.54, 6.73) @ 2560 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (11x14x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.930 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 10.84 V/m; Power Drift = -0.09 dB

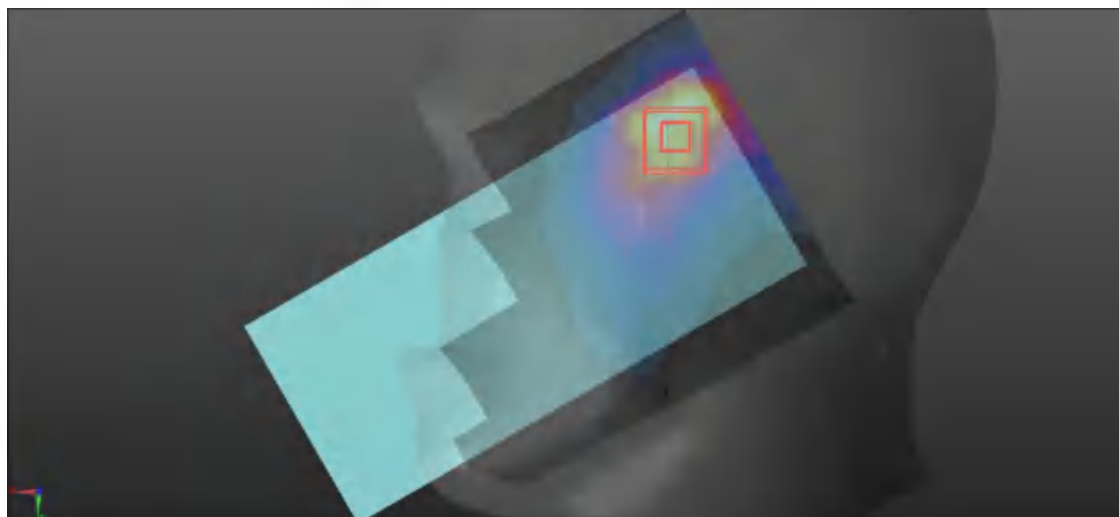
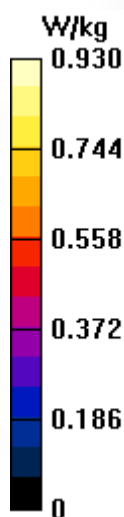
Peak SAR (extrapolated) = 2.18 W/kg

**SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.502 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 1.15 W/kg



**LTE B12&17\_Left Cheek****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used (interpolated):  $f = 707.5$  MHz;  $\sigma = 0.88$  S/m;  $\epsilon_r = 42.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(8.35, 8.89, 9.14) @ 707.5 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0764 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 2.460 V/m; Power Drift = 0.03 dB

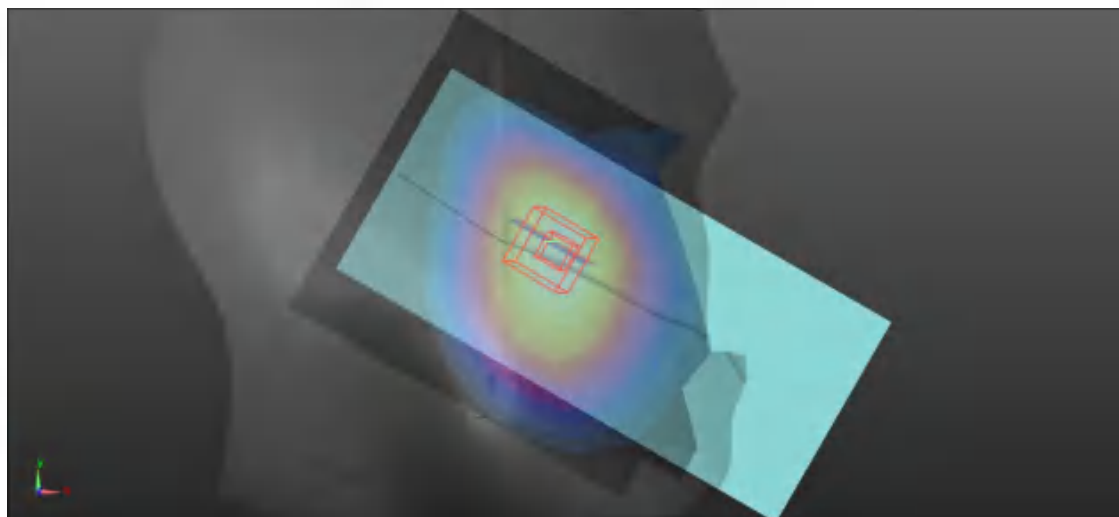
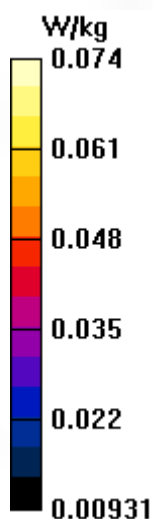
Peak SAR (extrapolated) = 0.0840 W/kg

**SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.055 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.9 mm

Ratio of SAR at M2 to SAR at M1 = 81.9%

Maximum value of SAR (measured) = 0.0735 W/kg



**LTE B41\_Right Title****DUT: Unnamed Device**

Communication System: UID 0, LTE (0); Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2593 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used :  $f = 2593$  MHz;  $\sigma = 1.95$  S/m;  $\epsilon_r = 39.42$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.14, 6.54, 6.73) @ 2593 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (11x14x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.994 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 13.58 V/m; Power Drift = 0.16 dB

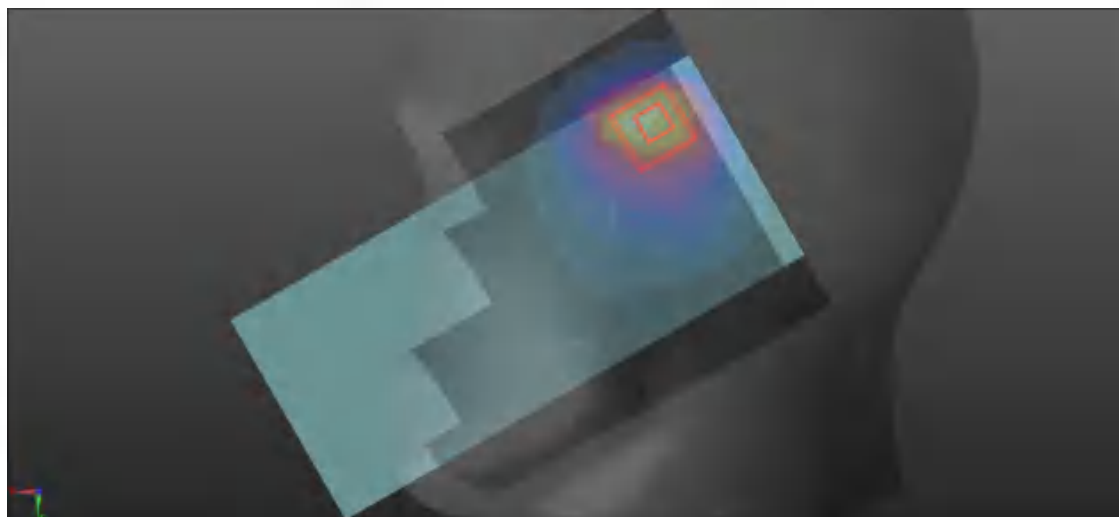
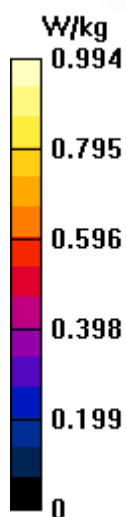
Peak SAR (extrapolated) = 1.93 W/kg

**SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.524 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 1.16 W/kg



**LTE B66&4\_Right Title****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 66, E-UTRA/FDD (1920.0 - 1980.0 MHz); Frequency: 1745 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used (interpolated):  $f = 1745$  MHz;  $\sigma = 1.38$  S/m;  $\epsilon_r = 40.09$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(7.06, 7.52, 7.74) @ 1745 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.994 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 13.58 V/m; Power Drift = -0.14 dB

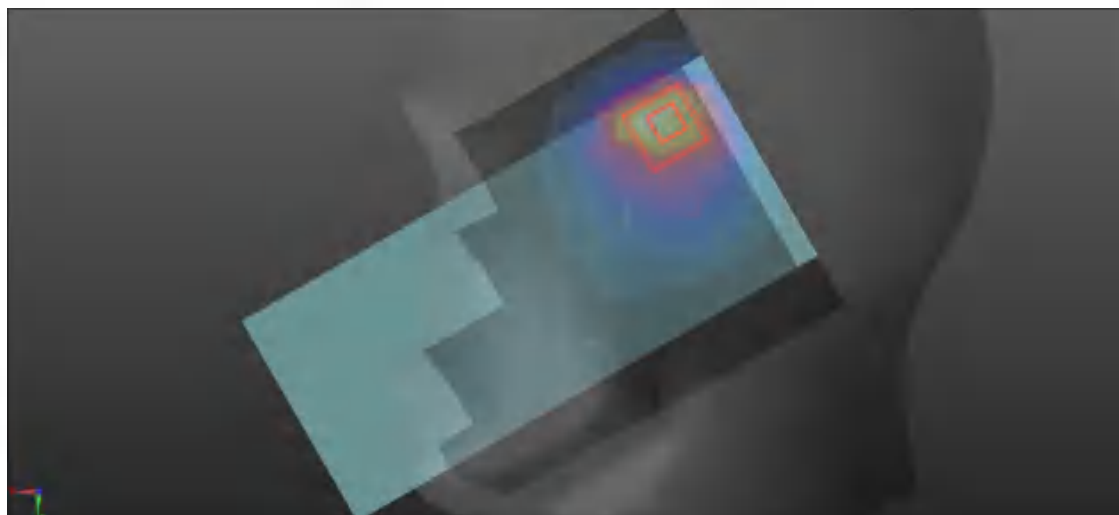
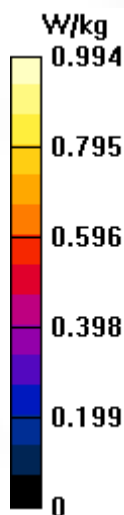
Peak SAR (extrapolated) = 1.93 W/kg

**SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.524 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 1.16 W/kg



**2.4G WLAN\_Right Cheek****DUT: Unnamed Device**

Communication System: UID 0, WLAN 2.4G (0); Communication System Band: 2.4G BW20; Frequency: 2462 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.82$  S/m;  $\epsilon_r = 39.05$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.3, 6.71, 6.9) @ 2462 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (11x14x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.0779 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.322 V/m; Power Drift = -0.18 dB

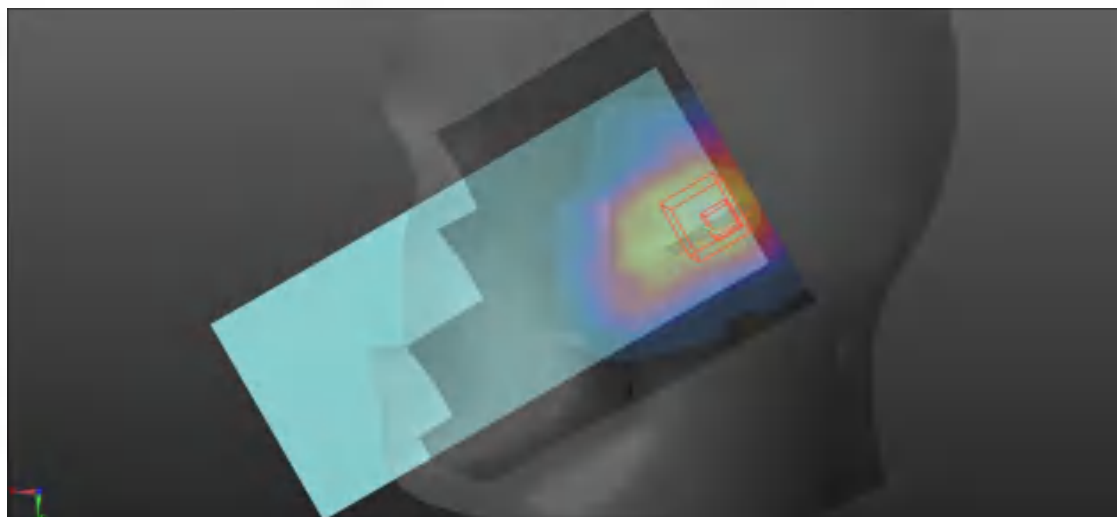
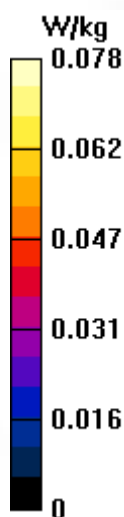
Peak SAR (extrapolated) = 0.132 W/kg

**SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.044 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 54.5%

Maximum value of SAR (measured) = 0.0767 W/kg



**5.2G WLAN\_Right Cheek****DUT: Unnamed Device**

Communication System: UID 0, WLAN 5G (0); Communication System Band: 5G 20M; Frequency: 5240

MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 5240$  MHz;  $\sigma = 4.71$  S/m;  $\epsilon_r = 36.38$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(4.96, 5.28, 5.44) @ 5240 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (17x21x1):** Measurement grid:  $dx=8$ mm,  $dy=8$ mm

Maximum value of SAR (measured) = 0.107 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 4.169 V/m; Power Drift = 0.18 dB

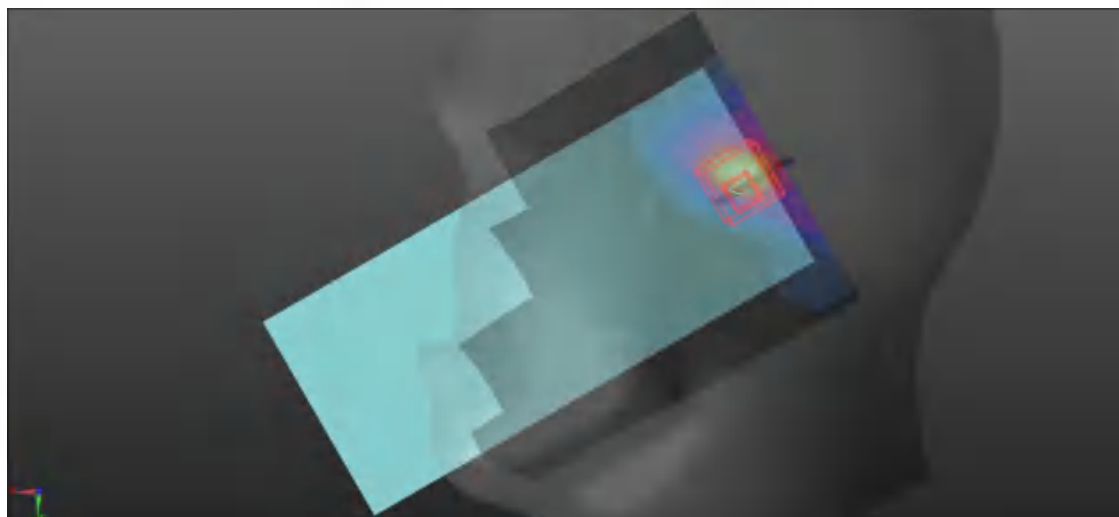
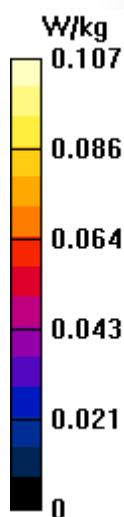
Peak SAR (extrapolated) = 0.335 W/kg

**SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.029 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.1 mm

Ratio of SAR at M2 to SAR at M1 = 55.8%

Maximum value of SAR (measured) = 0.0938 W/kg



**5.8G WLAN\_Right Cheek****DUT: Unnamed Device**

Communication System: UID 0, WLAN 5G (0); Communication System Band: 5G 20M; Frequency: 5825 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 5825$  MHz;  $\sigma = 5.30$  S/m;  $\epsilon_r = 35.70$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(4.59, 4.89, 5.03) @ 5825 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (17x21x1):** Measurement grid:  $dx=8$ mm,  $dy=8$ mm

Maximum value of SAR (measured) = 0.0248 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.138 V/m; Power Drift = -0.02 dB

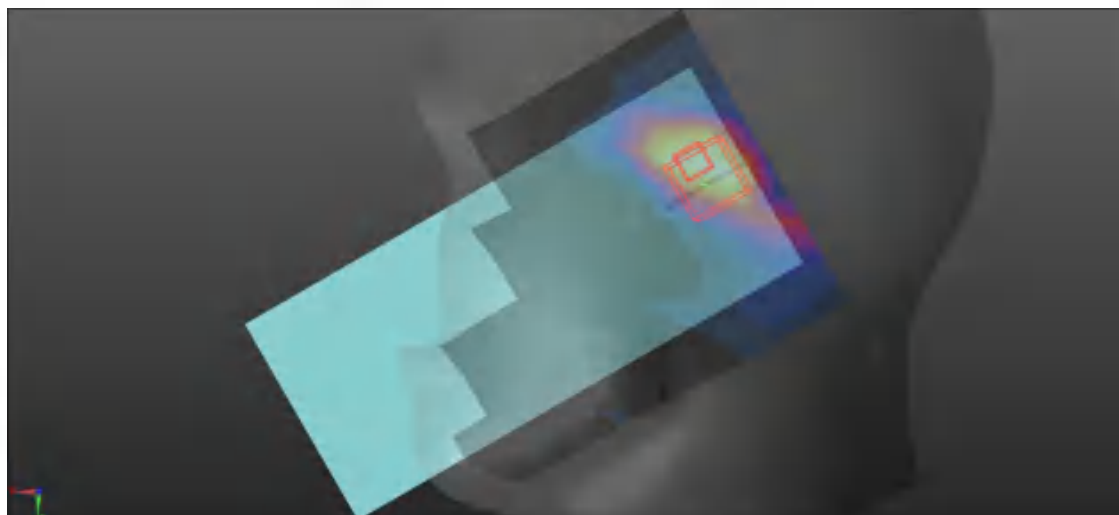
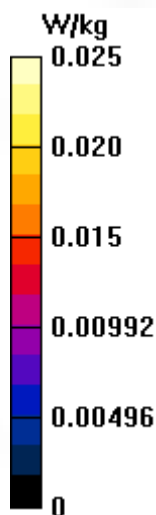
Peak SAR (extrapolated) = 0.0940 W/kg

**SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.012 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 0.0363 W/kg



**GSM 850\_Back Side\_10mm****DUT: Unnamed Device**

Communication System: UID 0, Generic GSM (0); Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 848.8 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.92$  S/m;  $\epsilon_r = 42.26$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(8.2, 8.73, 8.98) @ 848.8 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.170 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 13.47 V/m; Power Drift = -0.02 dB

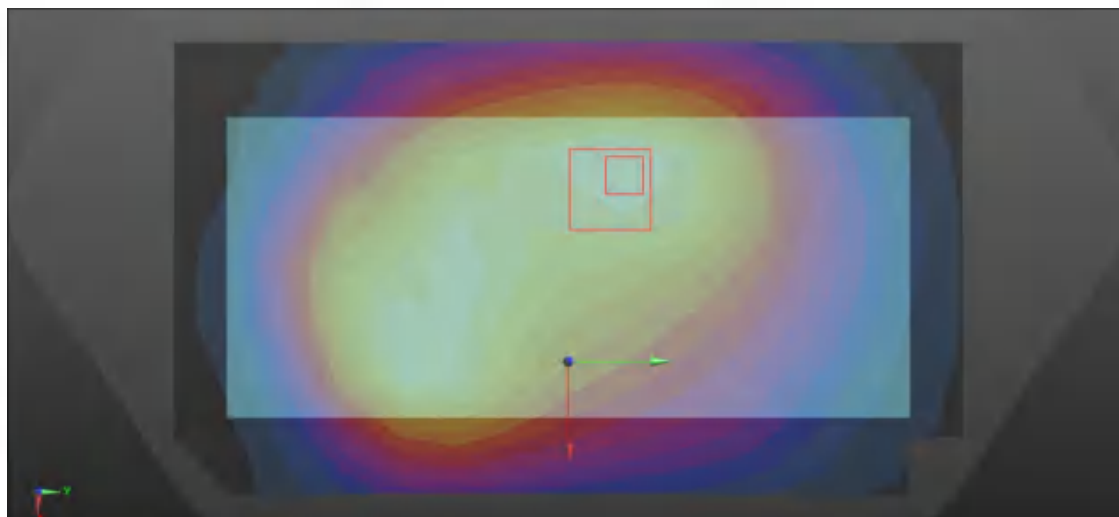
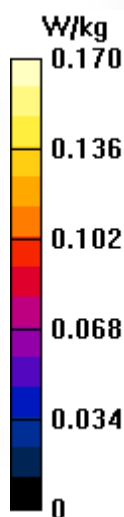
Peak SAR (extrapolated) = 0.210 W/kg

**SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.122 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.1 mm

Ratio of SAR at M2 to SAR at M1 = 75.9%

Maximum value of SAR (measured) = 0.173 W/kg



**GSM 1900\_Front Side\_10mm****DUT: Unnamed Device;**

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1850.2 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.39$  S/m;  $\epsilon_r = 39.97$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.3, 7.51) @ 1850.2 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.299 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.727 V/m; Power Drift = 0.18 dB

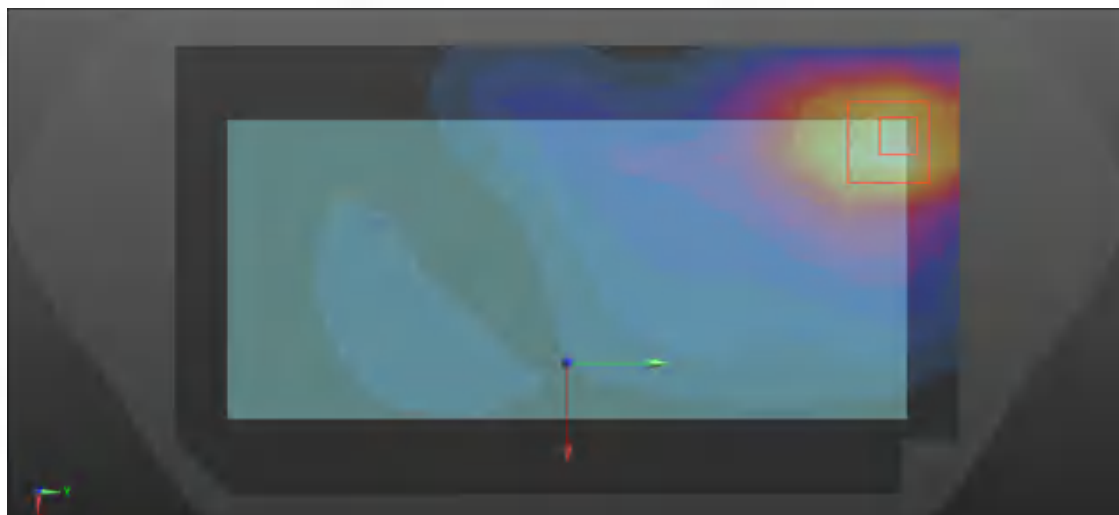
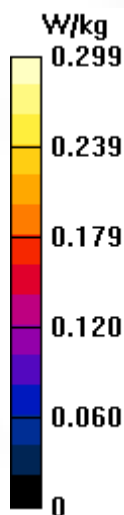
Peak SAR (extrapolated) = 0.480 W/kg

**SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.168 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.8 mm

Ratio of SAR at M2 to SAR at M1 = 60.8%

Maximum value of SAR (measured) = 0.318 W/kg



**WCDMA B2\_Front Side\_10mm****DUT: Unnamed Device**

Communication System: UID 0, Generic WCDMA (0); Communication System Band: WCDMA B2; Frequency: 1907.6 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.38$  S/m;  $\epsilon_r = 40.76$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.3, 7.51) @ 1907.6 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.642 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.377 V/m; Power Drift = 0.02 dB

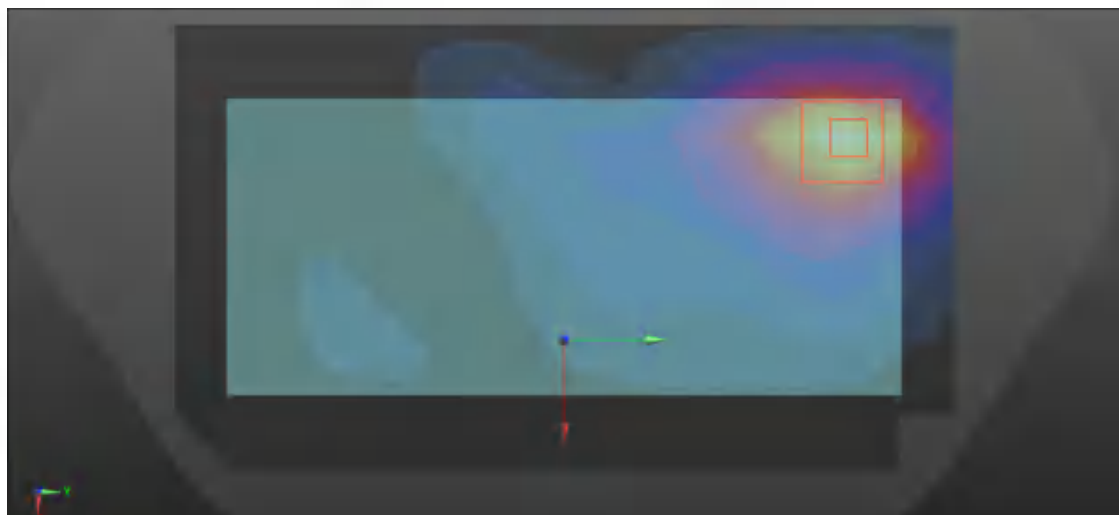
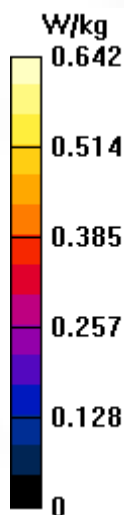
Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.594 W/kg; SAR(10 g) = 0.338 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 60.8%

Maximum value of SAR (measured) = 0.653 W/kg



**WCDMA B4\_Front Side\_10mm****DUT: Unnamed Device**

Communication System: UID 0, Generic WCDMA (0); Communication System Band: WCDMA B4; Frequency: 1740 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 1740$  MHz;  $\sigma = 1.35$  S/m;  $\epsilon_r = 41.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(7.06, 7.52, 7.74) @ 1740 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.370 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.897 V/m; Power Drift = -0.06 dB

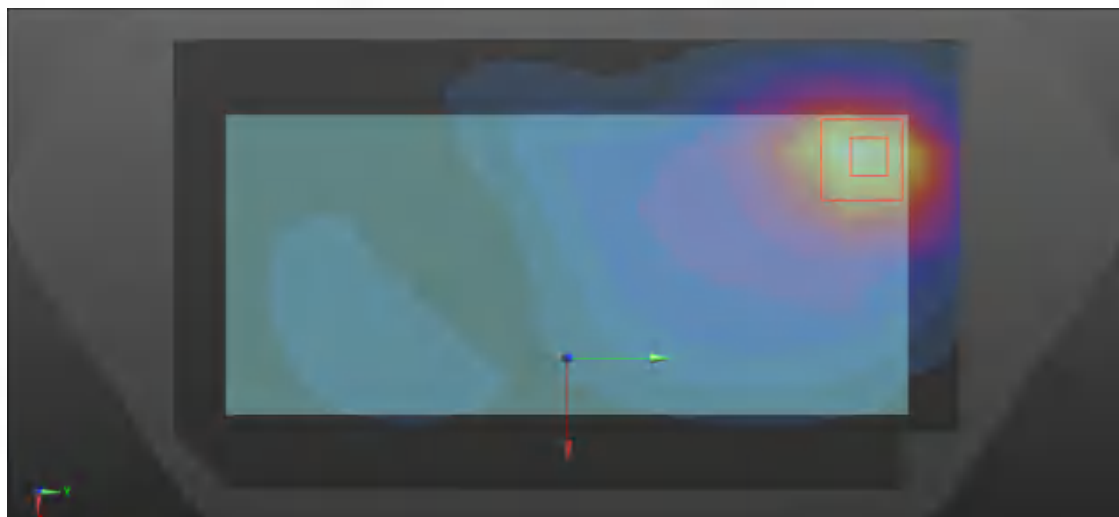
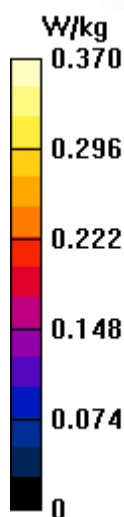
Peak SAR (extrapolated) = 0.584 W/kg

**SAR(1 g) = 0.349 W/kg; SAR(10 g) = 0.200 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.3 mm

Ratio of SAR at M2 to SAR at M1 = 61%

Maximum value of SAR (measured) = 0.381 W/kg



**WCDMA B5\_Front Side\_10mm****DUT: Unnamed Device**

Communication System: UID 0, Generic WCDMA (0); Communication System Band: WCDMA B5; Frequency: 826.4 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.89$  S/m;  $\epsilon_r = 41.87$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(8.2, 8.73, 8.98) @ 826.4 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.215 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.494 V/m; Power Drift = 0.12 dB

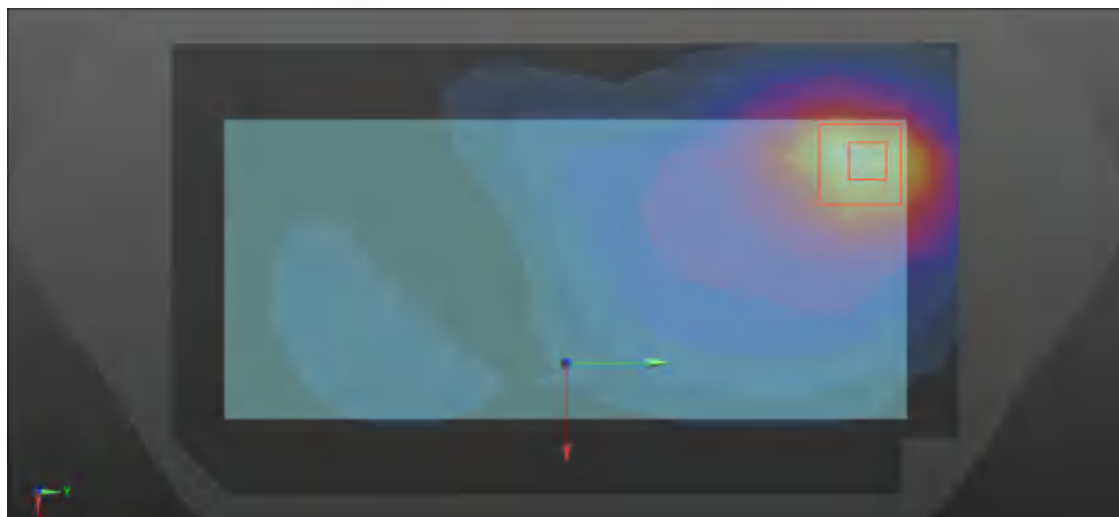
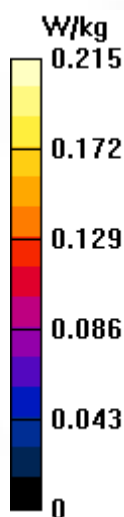
Peak SAR (extrapolated) = 0.347 W/kg

**SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.117 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 60%

Maximum value of SAR (measured) = 0.225 W/kg





## LTE B2\_Front Side\_10mm

### DUT: Unnamed Device

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.40$  S/m;  $\epsilon_r = 40.33$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

### DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.3, 7.51) @ 1880 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.509 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.900 V/m; Power Drift = 0.02 dB

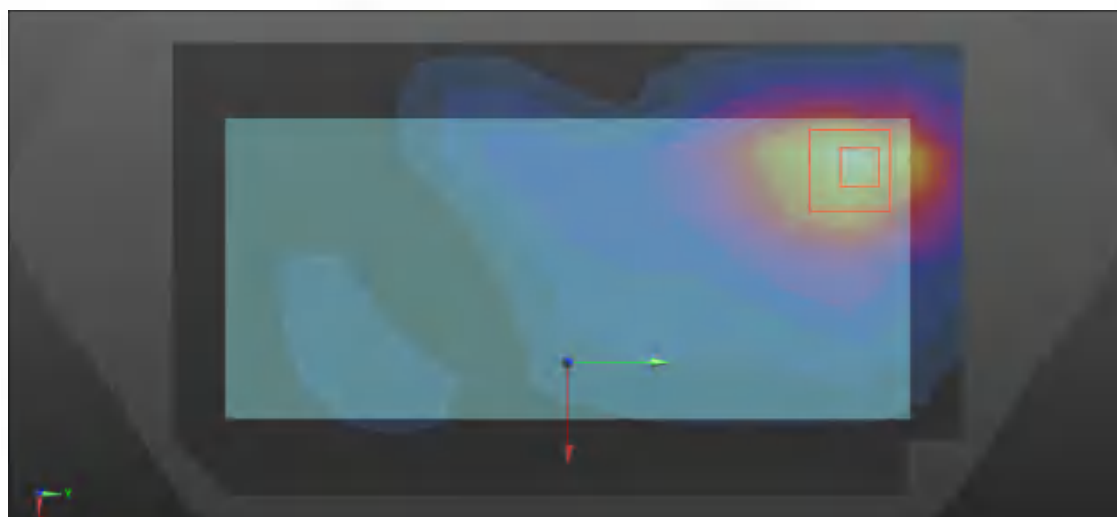
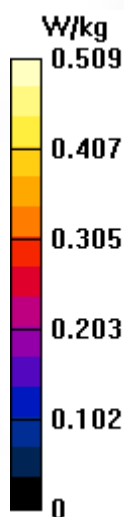
Peak SAR (extrapolated) = 0.800 W/kg

**SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.278 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 61%

Maximum value of SAR (measured) = 0.526 W/kg



**LTE B5\_Front Side\_10mm****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.92$  S/m;  $\epsilon_r = 41.69$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(8.2, 8.73, 8.98) @ 836.5 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.178 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.056 V/m; Power Drift = -0.16 dB

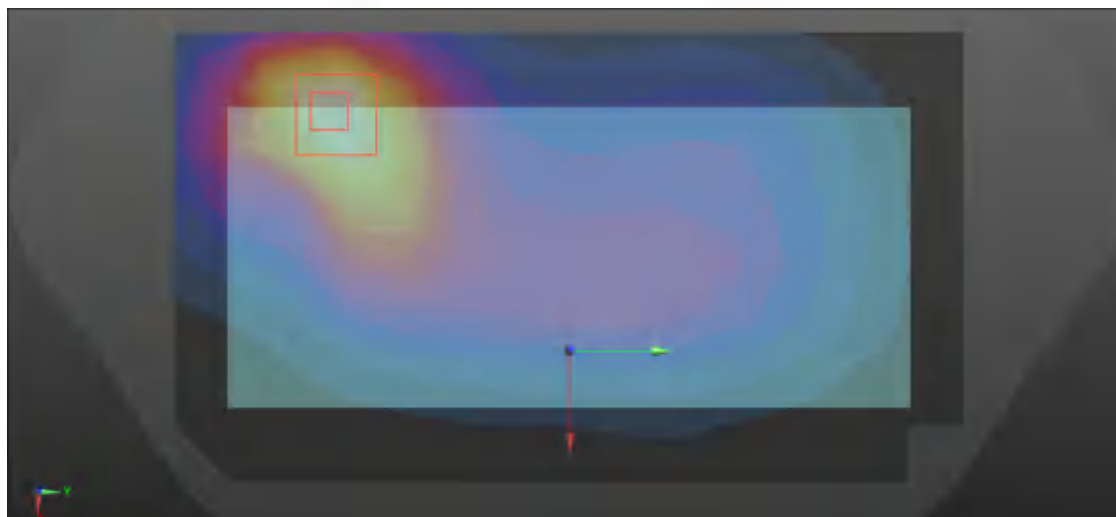
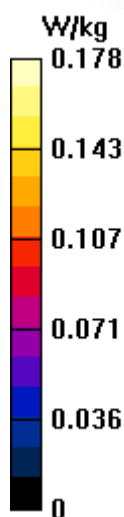
Peak SAR (extrapolated) = 0.292 W/kg

**SAR(1 g) = 0.183 W/kg; SAR(10 g) = 0.112 W/kg**

Smallest distance from peaks to all points 3 dB below = 17.9 mm

Ratio of SAR at M2 to SAR at M1 = 63.1%

Maximum value of SAR (measured) = 0.199 W/kg



**LTE B7\_Back Side\_10mm****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2560 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated):  $f = 2560$  MHz;  $\sigma = 1.94$  S/m;  $\epsilon_r = 38.82$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.14, 6.54, 6.73) @ 2560 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (11x18x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.566 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.995 V/m; Power Drift = -0.07 dB

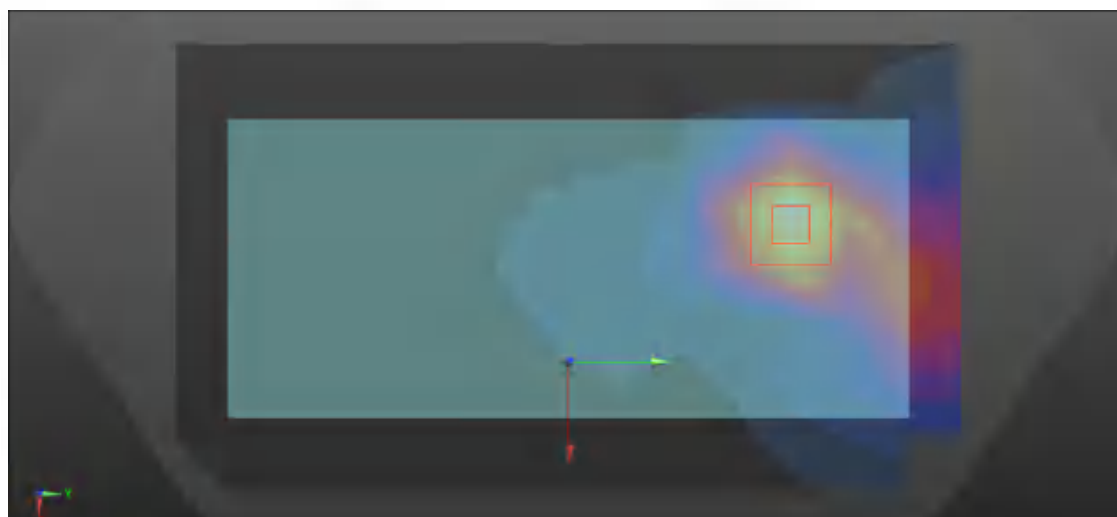
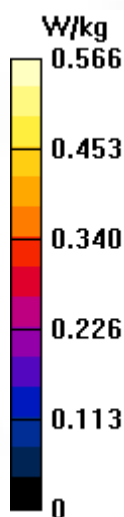
Peak SAR (extrapolated) = 0.873 W/kg

**SAR(1 g) = 0.522 W/kg; SAR(10 g) = 0.293 W/kg**

Smallest distance from peaks to all points 3 dB below = 16.3 mm

Ratio of SAR at M2 to SAR at M1 = 59.6%

Maximum value of SAR (measured) = 0.555 W/kg



**LTE B12&17\_Back Side\_10mm****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated):  $f = 707.5$  MHz;  $\sigma = 0.88$  S/m;  $\epsilon_r = 42.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(8.35, 8.89, 9.14) @ 707.5 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0943 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.04 V/m; Power Drift = 0.00 dB

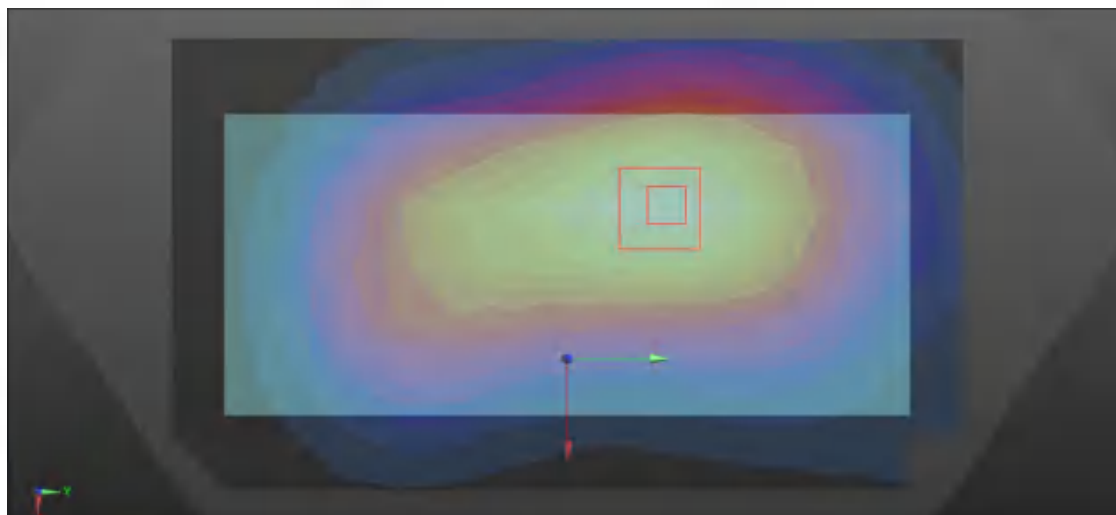
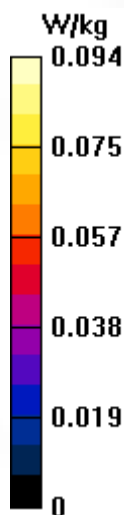
Peak SAR (extrapolated) = 0.116 W/kg

**SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.066 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.7 mm

Ratio of SAR at M2 to SAR at M1 = 76.9%

Maximum value of SAR (measured) = 0.0949 W/kg



**LTE B41\_Back Side\_10mm****DUT: Unnamed Device**

Communication System: UID 0, LTE (0); Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2593 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used :  $f = 2593$  MHz;  $\sigma = 1.95$  S/m;  $\epsilon_r = 39.42$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.14, 6.54, 6.73) @ 2593 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (11x18x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.188 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 2.443 V/m; Power Drift = -0.03 dB

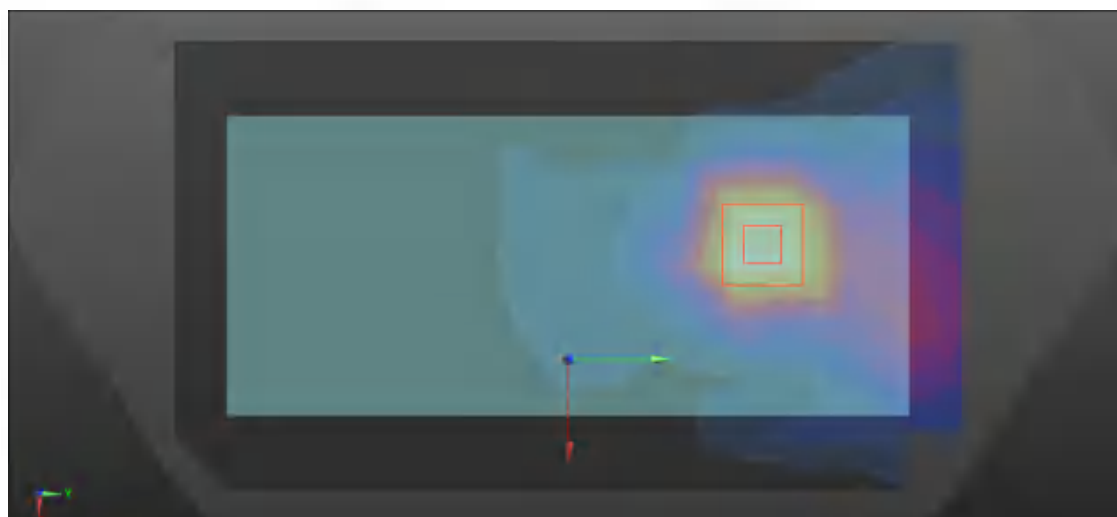
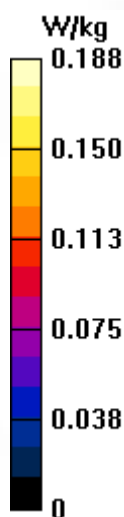
Peak SAR (extrapolated) = 0.353 W/kg

**SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.112 W/kg**

Smallest distance from peaks to all points 3 dB below = 16.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 0.219 W/kg



**LTE B66&4\_Front Side\_10mm****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 66, E-UTRA/FDD (1920.0 - 1980.0 MHz); Frequency: 1745 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used (interpolated):  $f = 1745$  MHz;  $\sigma = 1.38$  S/m;  $\epsilon_r = 40.09$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(7.06, 7.52, 7.74) @ 1745 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.378 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.256 V/m; Power Drift = -0.11 dB

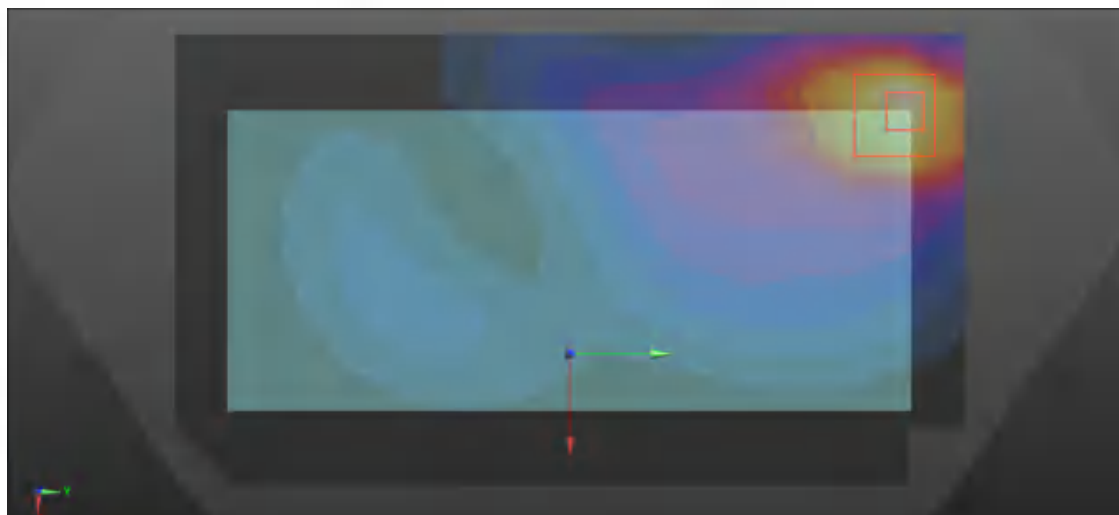
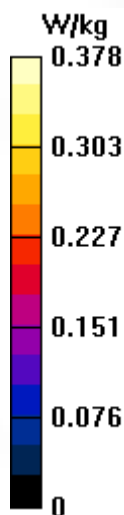
Peak SAR (extrapolated) = 0.627 W/kg

**SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.220 W/kg**

Smallest distance from peaks to all points 3 dB below = 15.2 mm

Ratio of SAR at M2 to SAR at M1 = 60.8%

Maximum value of SAR (measured) = 0.419 W/kg



**2.4G WLAN\_Front Side\_10mm****DUT: Unnamed Device**

Communication System: UID 0, WLAN 2.4G (0); Communication System Band: 2.4G BW20; Frequency: 2462 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.82$  S/m;  $\epsilon_r = 39.05$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(6.3, 6.71, 6.9) @ 2462 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (11x18x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.0403 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 2.099 V/m; Power Drift = -0.12 dB

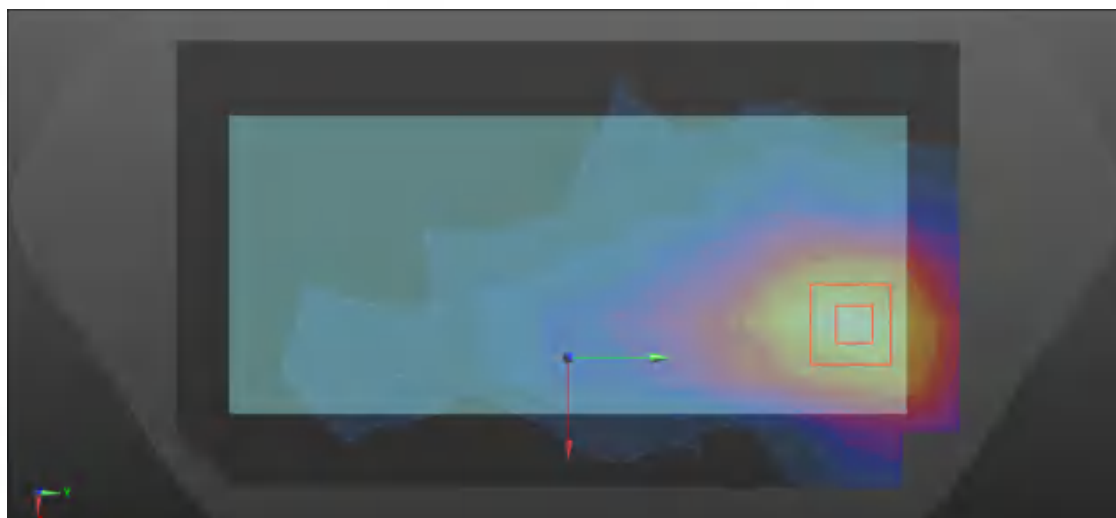
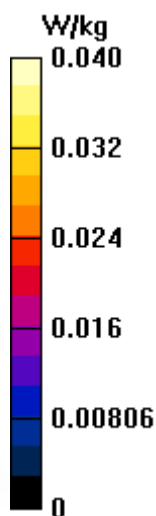
Peak SAR (extrapolated) = 0.0660 W/kg

**SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.022 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 0.0421 W/kg



**5.2G WLAN\_Back Side\_10mm****DUT: Unnamed Device**

Communication System: UID 0, WLAN 5G (0); Communication System Band: 5G 20M; Frequency: 5240

MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 5240$  MHz;  $\sigma = 4.71$  S/m;  $\epsilon_r = 36.38$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(4.96, 5.28, 5.44) @ 5240 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (17x28x1):** Measurement grid:  $dx=8$ mm,  $dy=8$ mm

Maximum value of SAR (measured) = 0.0407 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.87 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.0990 W/kg

**SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.017 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 48.1%

Maximum value of SAR (measured) = 0.0409 W/kg

