

# FCC SAR Test Report

Report No. : SA131213C05

Applicant : ASUSTek COMPUTER INC.

Address : 4F, No. 150, LI-TE Rd., PEITOU, TAIPEI 112, TAIWAN

Product : PadFone X

FCC ID : MSQT00D

Brand : ASUS

Model No. : T00D

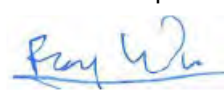
Standards : FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE 1528:2003  
IEEE 1528a-2005 / KDB 865664 D01 v01r03 / KDB 248227 D01 v01r02  
KDB 447498 D01 v05r02 / KDB 616217 D04 v01r01 / KDB 648474 D04 v01r02  
KDB 941225 D01 v02 / KDB 941225 D02 v02r02 / KDB 941225 D03 v01  
KDB 941225 D05 v02r03 / KDB 941225 D06 v01r01

Sample Received Date : Dec. 13, 2013

Date of Testing : Jan. 03, 2014 ~ Feb. 20, 2014

**CERTIFICATION:** The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

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# FCC SAR Test Report

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## Release Control Record

| Report No.  | Reason for Change | Date Issued   |
|-------------|-------------------|---------------|
| SA131213C05 | Initial release   | Feb. 27, 2014 |
|             |                   |               |
|             |                   |               |
|             |                   |               |

## 1. Summary of Maximum SAR Value

### <EUT Configuration: Handset>

| Equipment Class                       | Mode      | Highest Reported Head SAR <sub>1g</sub> (W/kg) | Highest Reported Body-Worn SAR <sub>1g</sub> (1.0 cm Gap) (W/kg) | Highest Reported Hotspot SAR <sub>1g</sub> (1.0 cm Gap) (W/kg) |
|---------------------------------------|-----------|------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|
| PCE                                   | GSM850    | 0.29                                           | 0.67                                                             | 0.67                                                           |
|                                       | GSM1900   | 0.61                                           | 1.18                                                             | 1.18                                                           |
|                                       | WCDMA II  | 0.54                                           | 0.66                                                             | 0.66                                                           |
|                                       | WCDMA V   | 0.18                                           | 0.31                                                             | 0.31                                                           |
|                                       | LTE 2     | 0.58                                           | 0.59                                                             | 0.59                                                           |
|                                       | LTE 4     | 0.53                                           | 0.63                                                             | 0.63                                                           |
|                                       | LTE 5     | 0.17                                           | 0.25                                                             | 0.25                                                           |
|                                       | LTE 7     | 0.10                                           | 0.25                                                             | 0.25                                                           |
|                                       | LTE 17    | 0.16                                           | 0.35                                                             | 0.35                                                           |
| DTS                                   | 2.4G WLAN | 0.58                                           | 0.07                                                             | 0.07                                                           |
|                                       | 5.8G WLAN | 0.63                                           | 0.38                                                             | N/A                                                            |
| NII                                   | 5.2G WLAN | 0.86                                           | 0.50                                                             | N/A                                                            |
|                                       | 5.3G WLAN | 0.98                                           | 0.50                                                             | N/A                                                            |
|                                       | 5.6G WLAN | 0.65                                           | 0.37                                                             | N/A                                                            |
| DSS                                   | Bluetooth | N/A                                            | N/A                                                              | N/A                                                            |
| DXX                                   | NFC       | N/A                                            | N/A                                                              | N/A                                                            |
| Highest Simultaneous Transmission SAR |           | Head (W/kg)                                    | Body-Worn (W/kg)                                                 | Hotspot (W/kg)                                                 |
| PCE+DTS                               |           | 1.03                                           | 1.56                                                             | 1.22                                                           |
| PCE+NII                               |           | 1.29                                           | 1.18                                                             | N/A                                                            |
| PCE+DSS                               |           | N/A                                            | 1.42                                                             | N/A                                                            |

#### Note:

- The SAR limit (**Head & Body: SAR<sub>1g</sub> 1.6 W/kg**) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.

## <EUT Configuration: Tablet PC>

| Equipment Class                       | Mode      | Highest Reported Body SAR <sub>1g</sub> (W/kg) |
|---------------------------------------|-----------|------------------------------------------------|
| PCB                                   | GSM850    | 0.75                                           |
|                                       | GSM1900   | 0.59                                           |
|                                       | WCDMA II  | 0.57                                           |
|                                       | WCDMA V   | 0.47                                           |
|                                       | LTE 2     | 0.77                                           |
|                                       | LTE 4     | 0.66                                           |
|                                       | LTE 5     | 0.52                                           |
|                                       | LTE 7     | 0.84                                           |
|                                       | LTE 17    | 0.29                                           |
| DTS                                   | 2.4G WLAN | 0.50                                           |
|                                       | 5.8G WLAN | 0.93                                           |
| NII                                   | 5.2G WLAN | 0.79                                           |
|                                       | 5.3G WLAN | 1.05                                           |
|                                       | 5.6G WLAN | 1.02                                           |
| DSS                                   | Bluetooth | 0.06                                           |
| DXX                                   | NFC       | N/A                                            |
| Highest Simultaneous Transmission SAR |           | Body (W/kg)                                    |
| PCB+DTS                               |           | 1.46                                           |
| PCB+NII                               |           | 1.58                                           |
| PCB+DSS                               |           | 0.86                                           |

### Note:

- The SAR limit (**Head & Body: SAR<sub>1g</sub> 1.6 W/kg**) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.

## 2. Description of Equipment Under Test

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT Type</b>                                        | PadFone X                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>FCC ID</b>                                          | MSQT00D                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Brand Name</b>                                      | ASUS                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Model Name</b>                                      | T00D                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>HW Version</b>                                      | ER1                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>SW Version</b>                                      | V11.6.0.33                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>EUT Configuration</b>                               | EUT 1: EUT + Front Camera 1<br>EUT 2: EUT + Front Camera 2                                                                                                                                                                                                                                                                                                                                              |
| <b>Tx Frequency Bands<br/>(Unit: MHz)</b>              | GSM850 : 824.2 ~ 848.8<br>GSM1900 : 1850.2 ~ 1909.8<br>WCDMA Band II : 1852.4 ~ 1907.6<br>WCDMA Band V : 826.4 ~ 846.6<br>LTE Band 2 : 1852.5 ~ 1907.5<br>LTE Band 4 : 1712.5 ~ 1752.5<br>LTE Band 5 : 826.5 ~ 846.5<br>LTE Band 7 : 2502.5 ~ 2567.5<br>LTE Band 17 : 706.5 ~ 713.5<br>WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5700, 5745 ~ 5805<br>Bluetooth : 2402 ~ 2480<br>NFC : 13.56 |
| <b>Uplink Modulations</b>                              | GSM & GPRS : GMSK<br>EDGE : 8PSK<br>WCDMA : QPSK<br>LTE : QPSK, 16QAM<br>802.11b : DSSS<br>802.11a/g/n/ac : OFDM<br>Bluetooth : GFSK<br>NFC : ASK                                                                                                                                                                                                                                                       |
| <b>Maximum Tune-up Conducted Power<br/>(Unit: dBm)</b> | GSM850 : 32.0<br>GSM1900 : 29.5<br>WCDMA Band II : 22.5<br>WCDMA Band V : 23.0<br>LTE Band 2 : 22.6<br>LTE Band 4 : 22.6<br>LTE Band 5 : 22.4<br>LTE Band 7 : 20.6<br>LTE Band 17 : 22.4<br>WLAN 2.4G : 14.5<br>WLAN 5.2G : 15.5<br>WLAN 5.3G : 15.1<br>WLAN 5.6G : 15.5<br>WLAN 5.8G : 15.5<br>Bluetooth : 10.5                                                                                        |
| <b>Antenna Type</b>                                    | Fixed Internal Antenna                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>EUT Stage</b>                                       | Identical Prototype                                                                                                                                                                                                                                                                                                                                                                                     |

**Note:**

- The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

**List of Accessory:**

|                |                     |                |
|----------------|---------------------|----------------|
| <b>Battery</b> | <b>Brand Name</b>   | ASUS           |
|                | <b>Model Name</b>   | C11P1322       |
|                | <b>Power Rating</b> | 3.8Vdc, 8.7mAh |
|                | <b>Type</b>         | Li-ion         |

### 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:

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

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be related to the electrical field in the tissue by

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

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 SPEAG DASY System

DASY system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY4/5 software defined. The DASY software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC.

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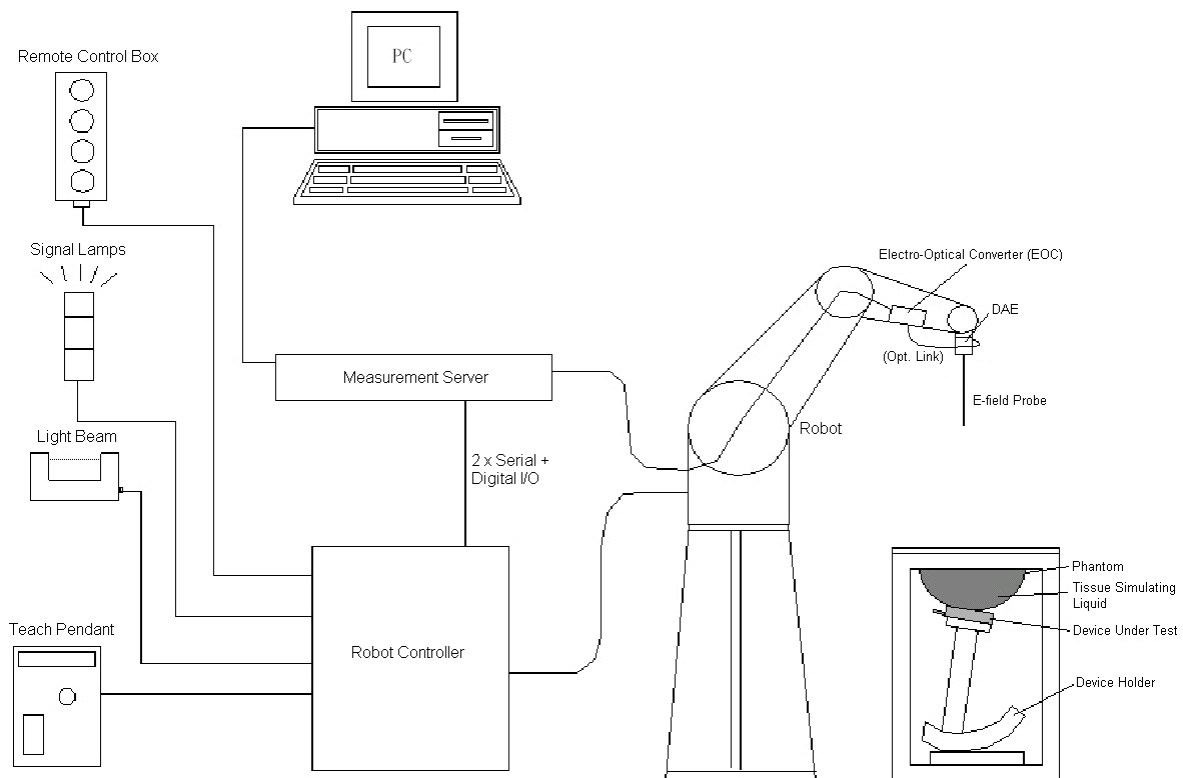


**Fig-3.1 DASY System Setup**

### 3.2.1 Robot

The DASY system uses the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY4: CS7MB; DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability  $\pm 0.035$  mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)



**Fig-3.2 DASY4**



**Fig-3.3 DASY5**

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### 3.2.2 Probes

The SAR measurement is conducted with the dosimetric probe. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

|                      |                                                                                                                                                          |                                                                                     |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Model</b>         | EX3DV4                                                                                                                                                   |  |
| <b>Construction</b>  | Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE). |                                                                                     |
| <b>Frequency</b>     | 10 MHz to 6 GHz<br>Linearity: $\pm 0.2$ dB                                                                                                               |                                                                                     |
| <b>Directivity</b>   | $\pm 0.3$ dB in HSL (rotation around probe axis)<br>$\pm 0.5$ dB in tissue material (rotation normal to probe axis)                                      |                                                                                     |
| <b>Dynamic Range</b> | 10 $\mu$ W/g to 100 mW/g<br>Linearity: $\pm 0.2$ dB (noise: typically $< 1$ $\mu$ W/g)                                                                   |                                                                                     |
| <b>Dimensions</b>    | Overall length: 337 mm (Tip: 20 mm)<br>Tip diameter: 2.5 mm (Body: 12 mm)<br>Typical distance from probe tip to dipole centers: 1 mm                     |                                                                                     |

|                      |                                                                                                                                                                               |                                                                                      |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Model</b>         | ES3DV3                                                                                                                                                                        |  |
| <b>Construction</b>  | Symmetrical design with triangular core. Interleaved sensors. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE). |                                                                                      |
| <b>Frequency</b>     | 10 MHz to 4 GHz<br>Linearity: $\pm 0.2$ dB                                                                                                                                    |                                                                                      |
| <b>Directivity</b>   | $\pm 0.2$ dB in HSL (rotation around probe axis)<br>$\pm 0.3$ dB in tissue material (rotation normal to probe axis)                                                           |                                                                                      |
| <b>Dynamic Range</b> | 5 $\mu$ W/g to 100 mW/g<br>Linearity: $\pm 0.2$ dB                                                                                                                            |                                                                                      |
| <b>Dimensions</b>    | 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                                                |                                                                                      |

### 3.2.3 Data Acquisition Electronics (DAE)

|                             |                                                                                                                                                                                                                                                     |                                                                                       |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Model</b>                | DAE3, DAE4                                                                                                                                                                                                                                          |  |
| <b>Construction</b>         | Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop. |                                                                                       |
| <b>Measurement Range</b>    | -100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)                                                                                                                                                                              |                                                                                       |
| <b>Input Offset Voltage</b> | $< 5$ $\mu$ V (with auto zero)                                                                                                                                                                                                                      |                                                                                       |
| <b>Input Bias Current</b>   | $< 50$ fA                                                                                                                                                                                                                                           |                                                                                       |
| <b>Dimensions</b>           | 60 x 60 x 68 mm                                                                                                                                                                                                                                     |                                                                                       |

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### 3.2.4 Phantoms

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Model</b>           | Twin SAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Construction</b>    | The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot. |                                                                                     |
| <b>Material</b>        | Vinylester, glass fiber reinforced (VE-GF)                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |
| <b>Shell Thickness</b> | $2 \pm 0.2$ mm ( $6 \pm 0.2$ mm at ear point)                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                     |
| <b>Dimensions</b>      | Length: 1000 mm<br>Width: 500 mm<br>Height: adjustable feet                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     |
| <b>Filling Volume</b>  | approx. 25 liters                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Model</b>           | ELI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| <b>Construction</b>    | Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles. |                                                                                      |
| <b>Material</b>        | Vinylester, glass fiber reinforced (VE-GF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                      |
| <b>Shell Thickness</b> | $2.0 \pm 0.2$ mm (bottom plate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |
| <b>Dimensions</b>      | Major axis: 600 mm<br>Minor axis: 400 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                      |
| <b>Filling Volume</b>  | approx. 30 liters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                      |

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### 3.2.5 Device Holder

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Model</b>        | Mounting Device                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Construction</b> | In combination with the Twin SAM Phantom or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). |                                                                                     |
| <b>Material</b>     | POM                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     |

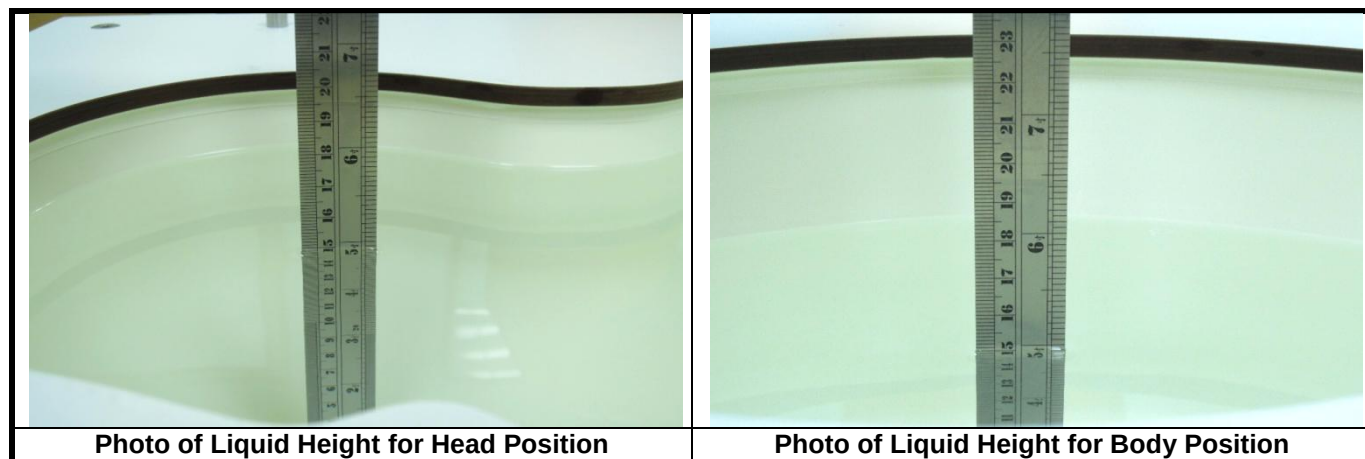
|                     |                                                                                                                                                                                                                                                                                         |                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Model</b>        | Laptop Extensions Kit                                                                                                                                                                                                                                                                   |  |
| <b>Construction</b> | Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner. |                                                                                     |
| <b>Material</b>     | POM, Acrylic glass, Foam                                                                                                                                                                                                                                                                |                                                                                     |

### 3.2.6 System Validation Dipoles

|                         |                                                                                                                                                                      |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Model</b>            | D-Serial                                                                                                                                                             |  |
| <b>Construction</b>     | Symmetrical dipole with 1/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions. |                                                                                       |
| <b>Frequency</b>        | 750 MHz to 5800 MHz                                                                                                                                                  |                                                                                       |
| <b>Return Loss</b>      | > 20 dB                                                                                                                                                              |                                                                                       |
| <b>Power Capability</b> | > 100 W (f < 1GHz), > 40 W (f > 1GHz)                                                                                                                                |                                                                                       |

## 3.2.7 Tissue Simulating Liquids

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in Table-3.1.



The dielectric properties of the head tissue simulating liquids are defined in IEEE 1528, and KDB 865664 D01 Appendix A. For the body tissue simulating liquids, the dielectric properties are defined in KDB 865664 D01 Appendix A. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using an Agilent 85070D Dielectric Probe Kit and an Agilent Network Analyzer.

**Table-3.1 Targets of Tissue Simulating Liquid**

| Frequency (MHz) | Target Permittivity | Range of $\pm 5\%$ | Target Conductivity | Range of $\pm 5\%$ |
|-----------------|---------------------|--------------------|---------------------|--------------------|
| <b>For Head</b> |                     |                    |                     |                    |
| 750             | 41.9                | 39.8 ~ 44.0        | 0.89                | 0.85 ~ 0.93        |
| 835             | 41.5                | 39.4 ~ 43.6        | 0.90                | 0.86 ~ 0.95        |
| 900             | 41.5                | 39.4 ~ 43.6        | 0.97                | 0.92 ~ 1.02        |
| 1450            | 40.5                | 38.5 ~ 42.5        | 1.20                | 1.14 ~ 1.26        |
| 1640            | 40.3                | 38.3 ~ 42.3        | 1.29                | 1.23 ~ 1.35        |
| 1750            | 40.1                | 38.1 ~ 42.1        | 1.37                | 1.30 ~ 1.44        |
| 1800            | 40.0                | 38.0 ~ 42.0        | 1.40                | 1.33 ~ 1.47        |
| 1900            | 40.0                | 38.0 ~ 42.0        | 1.40                | 1.33 ~ 1.47        |
| 2000            | 40.0                | 38.0 ~ 42.0        | 1.40                | 1.33 ~ 1.47        |
| 2300            | 39.5                | 37.5 ~ 41.5        | 1.67                | 1.59 ~ 1.75        |
| 2450            | 39.2                | 37.2 ~ 41.2        | 1.80                | 1.71 ~ 1.89        |
| 2600            | 39.0                | 37.1 ~ 41.0        | 1.96                | 1.86 ~ 2.06        |
| 3500            | 37.9                | 36.0 ~ 39.8        | 2.91                | 2.76 ~ 3.06        |
| 5200            | 36.0                | 34.2 ~ 37.8        | 4.66                | 4.43 ~ 4.89        |
| 5300            | 35.9                | 34.1 ~ 37.7        | 4.76                | 4.52 ~ 5.00        |
| 5500            | 35.6                | 33.8 ~ 37.4        | 4.96                | 4.71 ~ 5.21        |
| 5600            | 35.5                | 33.7 ~ 37.3        | 5.07                | 4.82 ~ 5.32        |
| 5800            | 35.3                | 33.5 ~ 37.1        | 5.27                | 5.01 ~ 5.53        |
| <b>For Body</b> |                     |                    |                     |                    |
| 750             | 55.5                | 52.7 ~ 58.3        | 0.96                | 0.91 ~ 1.01        |
| 835             | 55.2                | 52.4 ~ 58.0        | 0.97                | 0.92 ~ 1.02        |
| 900             | 55.0                | 52.3 ~ 57.8        | 1.05                | 1.00 ~ 1.10        |
| 1450            | 54.0                | 51.3 ~ 56.7        | 1.30                | 1.24 ~ 1.37        |
| 1640            | 53.8                | 51.1 ~ 56.5        | 1.40                | 1.33 ~ 1.47        |
| 1750            | 53.4                | 50.7 ~ 56.1        | 1.49                | 1.42 ~ 1.56        |
| 1800            | 53.3                | 50.6 ~ 56.0        | 1.52                | 1.44 ~ 1.60        |
| 1900            | 53.3                | 50.6 ~ 56.0        | 1.52                | 1.44 ~ 1.60        |
| 2000            | 53.3                | 50.6 ~ 56.0        | 1.52                | 1.44 ~ 1.60        |
| 2300            | 52.9                | 50.3 ~ 55.5        | 1.81                | 1.72 ~ 1.90        |
| 2450            | 52.7                | 50.1 ~ 55.3        | 1.95                | 1.85 ~ 2.05        |
| 2600            | 52.5                | 49.9 ~ 55.1        | 2.16                | 2.05 ~ 2.27        |
| 3500            | 51.3                | 48.7 ~ 53.9        | 3.31                | 3.14 ~ 3.48        |
| 5200            | 49.0                | 46.6 ~ 51.5        | 5.30                | 5.04 ~ 5.57        |
| 5300            | 48.9                | 46.5 ~ 51.3        | 5.42                | 5.15 ~ 5.69        |
| 5500            | 48.6                | 46.2 ~ 51.0        | 5.65                | 5.37 ~ 5.93        |
| 5600            | 48.5                | 46.1 ~ 50.9        | 5.77                | 5.48 ~ 6.06        |
| 5800            | 48.2                | 45.8 ~ 50.6        | 6.00                | 5.70 ~ 6.30        |

The following table gives the recipes for tissue simulating liquids.

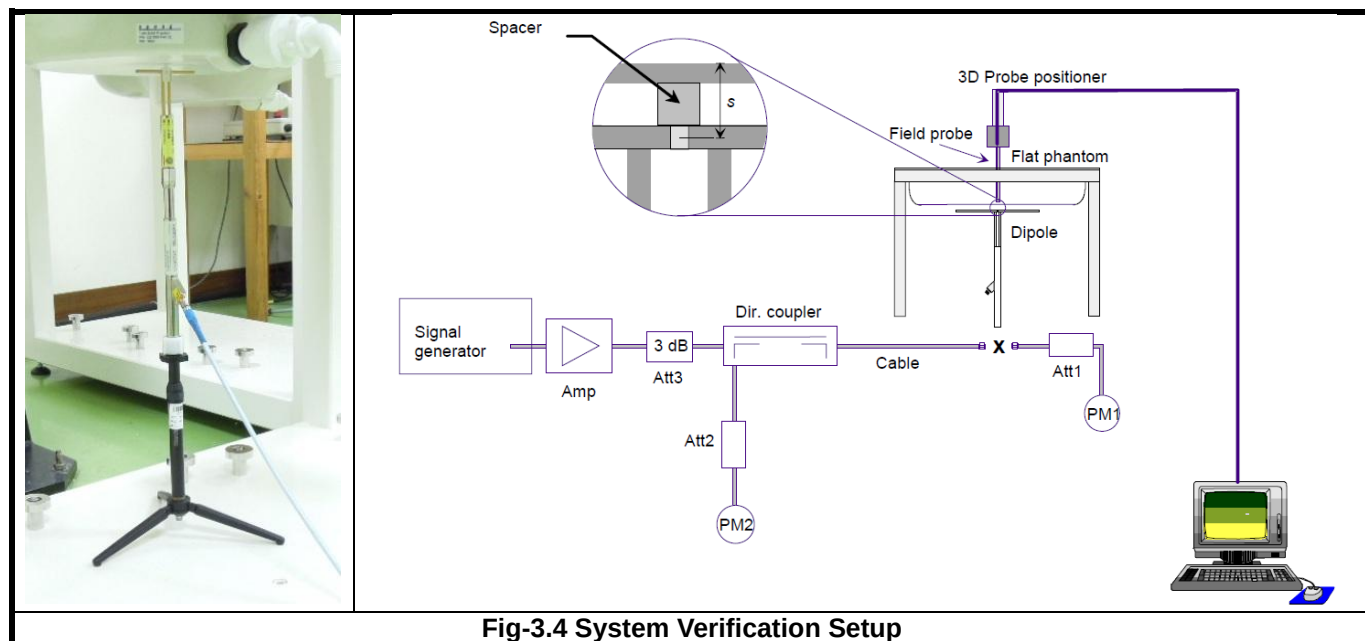
**Table-3.2 Recipes of Tissue Simulating Liquid**

| Tissue Type | Bactericide | DGBE | HEC | NaCl | Sucrose | Triton X-100 | Water | Diethylene Glycol Mono-hexylether |
|-------------|-------------|------|-----|------|---------|--------------|-------|-----------------------------------|
| H750        | 0.2         | -    | 0.2 | 1.5  | 56.0    | -            | 42.1  | -                                 |
| H835        | 0.2         | -    | 0.2 | 1.5  | 57.0    | -            | 41.1  | -                                 |
| H900        | 0.2         | -    | 0.2 | 1.4  | 58.0    | -            | 40.2  | -                                 |
| H1450       | -           | 43.3 | -   | 0.6  | -       | -            | 56.1  | -                                 |
| H1640       | -           | 45.8 | -   | 0.5  | -       | -            | 53.7  | -                                 |
| H1750       | -           | 47.0 | -   | 0.4  | -       | -            | 52.6  | -                                 |
| H1800       | -           | 44.5 | -   | 0.3  | -       | -            | 55.2  | -                                 |
| H1900       | -           | 44.5 | -   | 0.2  | -       | -            | 55.3  | -                                 |
| H2000       | -           | 44.5 | -   | 0.1  | -       | -            | 55.4  | -                                 |
| H2300       | -           | 44.9 | -   | 0.1  | -       | -            | 55.0  | -                                 |
| H2450       | -           | 45.0 | -   | 0.1  | -       | -            | 54.9  | -                                 |
| H2600       | -           | 45.1 | -   | 0.1  | -       | -            | 54.8  | -                                 |
| H3500       | -           | 8.0  | -   | 0.2  | -       | 20.0         | 71.8  | -                                 |
| H5G         | -           | -    | -   | -    | -       | 17.2         | 65.5  | 17.3                              |
| B750        | 0.2         | -    | 0.2 | 0.8  | 48.8    | -            | 50.0  | -                                 |
| B835        | 0.2         | -    | 0.2 | 0.9  | 48.5    | -            | 50.2  | -                                 |
| B900        | 0.2         | -    | 0.2 | 0.9  | 48.2    | -            | 50.5  | -                                 |
| B1450       | -           | 34.0 | -   | 0.3  | -       | -            | 65.7  | -                                 |
| B1640       | -           | 32.5 | -   | 0.3  | -       | -            | 67.2  | -                                 |
| B1750       | -           | 31.0 | -   | 0.2  | -       | -            | 68.8  | -                                 |
| B1800       | -           | 29.5 | -   | 0.4  | -       | -            | 70.1  | -                                 |
| B1900       | -           | 29.5 | -   | 0.3  | -       | -            | 70.2  | -                                 |
| B2000       | -           | 30.0 | -   | 0.2  | -       | -            | 69.8  | -                                 |
| B2300       | -           | 31.0 | -   | 0.1  | -       | -            | 68.9  | -                                 |
| B2450       | -           | 31.4 | -   | 0.1  | -       | -            | 68.5  | -                                 |
| B2600       | -           | 31.8 | -   | 0.1  | -       | -            | 68.1  | -                                 |
| B3500       | -           | 28.8 | -   | 0.1  | -       | -            | 71.1  | -                                 |
| B5G         | -           | -    | -   | -    | -       | 10.7         | 78.6  | 10.7                              |

## FCC SAR Test Report

### 3.3 SAR System Verification

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



The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The power meter PM1 measures the forward power at the location of the system check dipole connector. The signal generator is adjusted for the desired forward power (250 mW is used for 700 MHz to 3 GHz, 100 mW is used for 3.5 GHz to 6 GHz) at the dipole connector and the power meter PM2 is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter PM2.

After system check testing, the SAR result will be normalized to 1W forward input power and compared with the reference SAR value derived from validation dipole certificate report. The deviation of system check should be within 10 %.

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### 3.4 SAR Measurement Procedure

According to the SAR test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- Power reference measurement
- Area scan
- Zoom scan
- Power drift measurement

The SAR measurement procedures for each of test conditions are as follows:

- Make EUT to transmit maximum output power
- Measure conducted output power through RF cable
- Place the EUT in the specific position of phantom
- Perform SAR testing steps on the DASY system
- Record the SAR value

#### 3.4.1 Area & Zoom Scan Procedure

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. According to KDB 865664 D01, the resolution for Area and Zoom scan is specified in the table below.

| Items                                 | <= 2 GHz | 2-3 GHz  | 3-4 GHz  | 4-5 GHz  | 5-6 GHz  |
|---------------------------------------|----------|----------|----------|----------|----------|
| Area Scan<br>( $\Delta x, \Delta y$ ) | <= 15 mm | <= 12 mm | <= 12 mm | <= 10 mm | <= 10 mm |
| Zoom Scan<br>( $\Delta x, \Delta y$ ) | <= 8 mm  | <= 5 mm  | <= 5 mm  | <= 4 mm  | <= 4 mm  |
| Zoom Scan<br>( $\Delta z$ )           | <= 5 mm  | <= 5 mm  | <= 4 mm  | <= 3 mm  | <= 2 mm  |
| Zoom Scan<br>Volume                   | >= 30 mm | >= 30 mm | >= 28 mm | >= 25 mm | >= 22 mm |

#### Note:

When zoom scan is required and report SAR is <= 1.4 W/kg, the zoom scan resolution of  $\Delta x / \Delta y$  (2-3GHz: <= 8 mm, 3-4GHz: <= 7 mm, 4-6GHz: <= 5 mm) may be applied.

#### 3.4.2 Volume Scan Procedure

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

## FCC SAR Test Report

### 3.4.3 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

### 3.4.4 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

### 3.4.5 SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

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. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

## FCC SAR Test Report

### 4. SAR Measurement Evaluation

#### 4.1 EUT Configuration and Setting

When the handset is inserted into PadFone station, it could be used as a tablet PC which supports WWAN, WLAN, Bluetooth and wireless hotspot capabilities. Because of the SAR issue, this device has designed with a proximity sensor which can trigger/not trigger power reduction for GPRS/EDGE, WCDMA, and LTE on EUT Rear Face, Top Side, and Right Side orientations for SAR compliance. Others RF capabilities (WLAN and BT) have no power reduction. In addition, since SAR testing without power reduction on Right Side still complies with SAR criteria, proximity sensor triggered on Right Side will not be considered in this report. The power levels for all wireless technologies and the power reduction please refer to section 4.6.1 of this report.

According to the procedures noticed in KDB 616217 D04, the proximity sensor triggering distance is 11 mm for EUT Rear Face, and 9 mm for Top Side. The separation distance of 9 mm determined by the smallest triggering distance on Top Side is used to assess the tilt angle influence and the sensor does not release during  $\pm 45$  degree. Therefore, the smallest separation distance for tilt angle influence is 9 mm. The details can be found in technical document. The conservative triggering distances based on the separation distance for the sensor triggered / not triggered as EUT with power reduction at 0 mm, and EUT without power reduction at 11 mm for EUT Rear Face, and 8 mm for Top Side is used to test SAR. For curved and contoured back surface issue, we have discussed with FCC through KDB and test SAR according to the test plan submitted to FCC in this report.

The power reduction is depends on the proximity sensor input. For a steady SAR test, the power reduction was enabled/disabled manually by engineering software during SAR testing.

The EUT is a voice/data transmitter device that contains one WWAN transmitter (GSM / WCDMA / LTE), and two WWAN antennas for receiving diversity. Confirming the LTE transmitter follows 3GPP standards, is category 3, FDD-LTE band 2 (BW 5/10 MHz), FDD-LTE band 4 (BW 5/10 MHz), FDD-LTE band 5 (BW 5/10 MHz), FDD-LTE band 7 (BW 5/10 MHz), FDD-LTE band 17 (BW 5/10 MHz), supports QPSK / 16QAM modulations, and supports data transmission only. Tested per 3GPP 36.521 maximum transmit procedures for both QPSK / 16QAM.

**LTE Maximum Power Reduction in accordance with 3GPP 36.101:** Power Reduction in accordance to 3GPP is active all times during LTE operation.

| Modulation | Channel Bandwidth / RB Configurations |           | LTE MPR Setting (dB) |
|------------|---------------------------------------|-----------|----------------------|
|            | BW 5 MHz                              | BW 10 MHz |                      |
| QPSK       | > 8                                   | > 12      | 1                    |
| 16QAM      | $\leq 8$                              | $\leq 12$ | 1                    |
| 16QAM      | > 8                                   | > 12      | 2                    |

**Note:** MPR is according to the standard and implemented in the circuit (mandatory).

In addition, the device is compliant with A-MPR requirements defined in 36.101 section 6.2.4 that may be required to meet 3GPP Adjacent Channel Leakage Ratio ("ACLR") requirements. A-MPR was disabled for all FCC compliance testing.

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The simultaneous transmission possibilities are listed as below.

| Simultaneous TX Combination | Configuration                         | Head (Voice / VoIP) | Body Worn (Voice / VoIP) | Hotspot (Data) |
|-----------------------------|---------------------------------------|---------------------|--------------------------|----------------|
| 1                           | GSM850 (Voice / Data) + WLAN (Data)   | Yes                 | Yes                      | Yes            |
| 2                           | GSM1900 (Voice / Data) + WLAN (Data)  | Yes                 | Yes                      | Yes            |
| 3                           | WCDMA II (Voice / Data) + WLAN (Data) | Yes                 | Yes                      | Yes            |
| 4                           | WCDMA V (Voice / Data) + WLAN (Data)  | Yes                 | Yes                      | Yes            |
| 5                           | LTE 2 (Data) + WLAN (Data)            | Yes                 | Yes                      | Yes            |
| 6                           | LTE 4 (Data) + WLAN (Data)            | Yes                 | Yes                      | Yes            |
| 7                           | LTE 5 (Data) + WLAN (Data)            | Yes                 | Yes                      | Yes            |
| 8                           | LTE 7 (Data) + WLAN (Data)            | Yes                 | Yes                      | Yes            |
| 9                           | LTE 17 (Data) + WLAN (Data)           | Yes                 | Yes                      | Yes            |
| 10                          | GSM850 (Voice / Data) + BT (Data)     | No                  | Yes                      | No             |
| 11                          | GSM1900 (Voice / Data) + BT (Data)    | No                  | Yes                      | No             |
| 12                          | WCDMA II (Voice / Data) + BT (Data)   | No                  | Yes                      | No             |
| 13                          | WCDMA V (Voice / Data) + BT (Data)    | No                  | Yes                      | No             |
| 14                          | LTE 2 (Data) + BT (Data)              | No                  | Yes                      | No             |
| 15                          | LTE 4 (Data) + BT (Data)              | No                  | Yes                      | No             |
| 16                          | LTE 5 (Data) + BT (Data)              | No                  | Yes                      | No             |
| 17                          | LTE 7 (Data) + BT (Data)              | No                  | Yes                      | No             |
| 18                          | LTE 17 (Data) + BT (Data)             | No                  | Yes                      | No             |

## Note :

1. The WLAN and BT cannot transmit simultaneously.

For WWAN SAR testing, the EUT was linked and controlled by base station emulator (Agilent E5515C is used for GSM/WCDMA, and Anritsu MT8820C is used for LTE). Communication between the EUT and the emulator was established by air link. The distance between the EUT and the communicating antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during SAR testing.

For GSM850, the power control level is set to 5. For GPRS850 (GMSK, CS1), the power control level is set to 5. For EDGE850 (GMSK: MCS1, 8PSK:MCS9), the power control level is set to 8. For GSM1900, the power control level is set to 0. For GPRS1900 (GMSK, CS1), the power control level is set to 0. For EDGE1900 (GMSK: MCS1, 8PSK:MCS9), the power control level is set to 2.

For WCDMA, head and body SAR is tested under 12.2k RMC mode with power control set all up bits. SAR for AMR is not required since its power is less than 1/4 dB higher than RMC. SAR for HSDPA/HSUPA is not required since its power is less than 1/4 dB higher than RMC without HSDPA/HSUPA and SAR for 12.2 kbps RMC is less than 75% of the SAR limit (1.2 W/kg).

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For LTE, set the related parameters of operating band, channel bandwidth, uplink channel number, modulation type, and RB in base station simulator. When the EUT has registered and communicated to base station simulator, set the simulator to make EUT transmitting the maximum radiated power. The steps for system simulator (Anritsu MT8820C) setup are as below.

1. Press the “Std” button to select “LTE 22.20S” function
2. Choose the “Screen Select” item to “Fundamental Measurement”
3. Enter the “Common” item
4. Set the Operating Band
5. Set the Channel Bandwidth
6. Set the UL Channel & Frequency
7. Set the Modulation
8. Set the RB number and RB shift
9. Press “Start Call” button when EUT register to the system simulator
10. Set the TX-1 Max. Power to make the EUT transmit maximum output power

For WLAN SAR testing, the EUT has installed WLAN engineering testing software which can provide continuous transmitting RF signal. According to KDB 248227 D01, WLAN SAR should tested at the lowest data rate, and testing at higher data rate is not required when the maximum average output power is less than 1/4 dB higher than those measured at the lowest data rate. Since the WLAN power at lowest data rate has highest output power, WLAN SAR for this device was performed at the lowest data rate as set in 1 Mbps for 802.11b, 6 Mbps for 802.11a and V0 for 802.11ac. This RF signal utilized in SAR measurement has 98.2% duty cycle for 802.11b, 86% duty cycle for 802.11a, and 46.8% duty cycle for 802.11ac. The duty factor is 1.02 for 802.11b, 1.16 for 802.11a, and 2.14 for 802.11ac during WLAN SAR testing.

### **4.2 EUT Testing Position**

This EUT is a handset which can be combined into a PadFone station to be tablet PC. Since the EUT has two exposure configurations as handset and tablet, we evaluate SAR for handset and tablet mode separately.

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According to KDB 648474 D04, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

### 4.2.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2003 using the SAM phantom illustrated as below.

1. Define two imaginary lines on the handset
  - (a) 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 bottom of the handset.
  - (b) 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.
  - (c) 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 parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

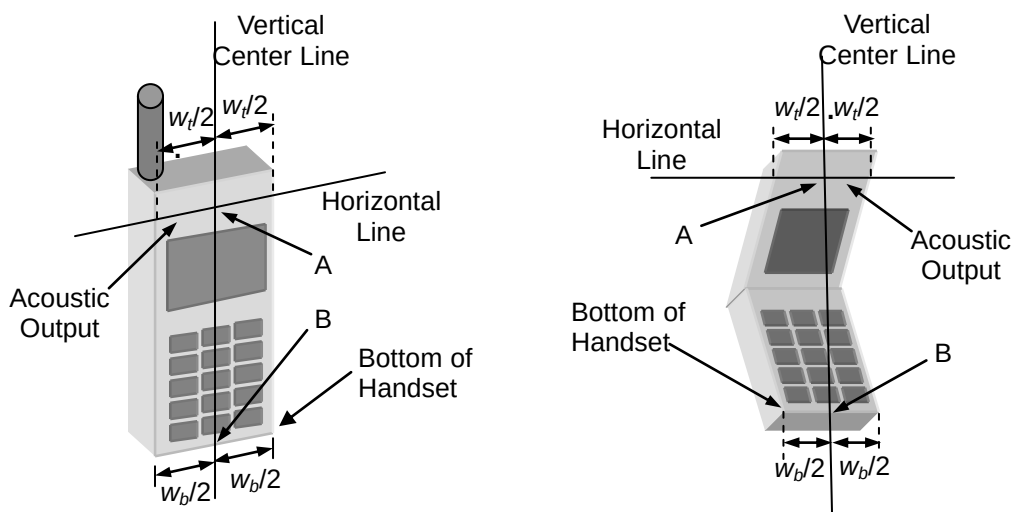


**Fig-4.1 Illustration for Handset Vertical and Horizontal Reference Lines**

## FCC SAR Test Report

### 2. Cheek Position

- 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 three 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.
- 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 the 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 (see Fig-4.2).

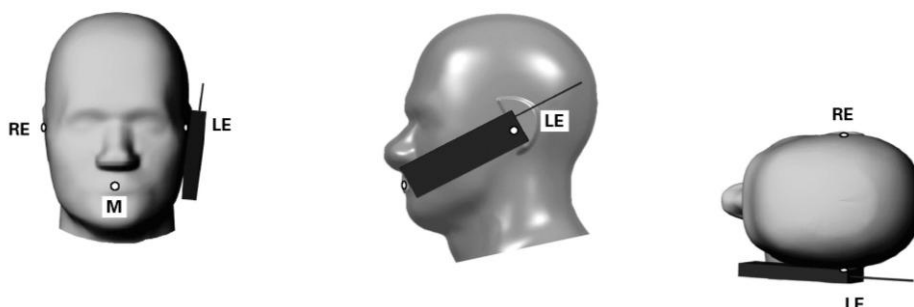


**Fig-4.2 Illustration for Cheek Position**

### 3. Tilted Position

- To position the device in the "cheek" position described above.
- While maintaining the device 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 contact with the ear is lost (see Fig-4.3).



**Fig-4.3 Illustration for Tilted Position**

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### 4.2.2 Body-Worn Accessory Exposure 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 447498 D01 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. 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 that body-worn accessory with a headset attached to the handset.

Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required.

A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance  $\leq 5 \text{ mm}$  to support compliance.

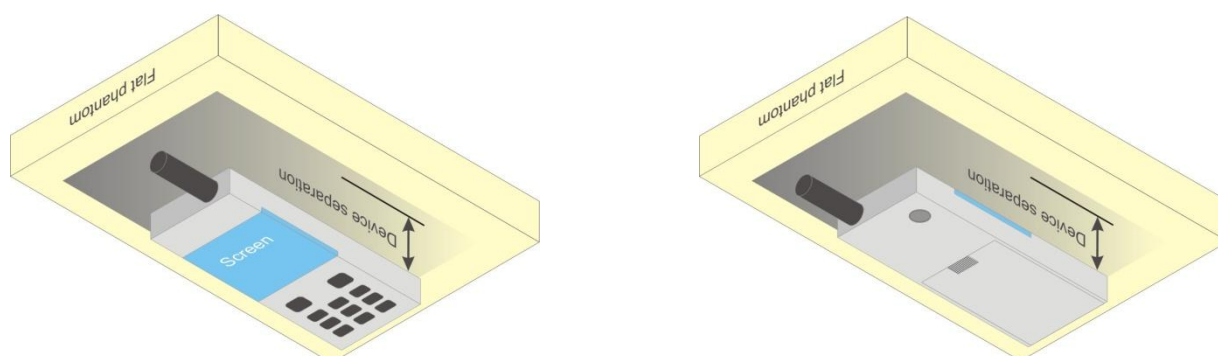
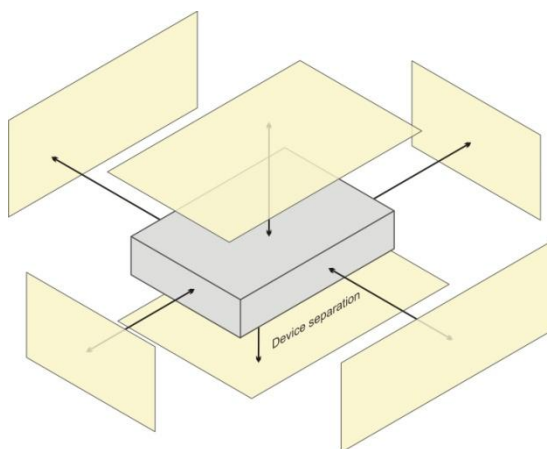


**Fig-4.4 Illustration for Body Worn Position**

## FCC SAR Test Report

### 4.2.3 Hotspot Mode Exposure conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225 D06. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation 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).



Based on the antenna location shown on section 4.1 of this report, the SAR testing required for hotspot mode is listed as below.

| Antenna   | Front Face | Rear Face | Left Side | Right Side | Top Side | Bottom Side |
|-----------|------------|-----------|-----------|------------|----------|-------------|
| WWAN      | V          | V         | V         | V          |          | V           |
| WLAN / BT | V          | V         | V         |            | V        |             |

### 4.2.4 SAR Test Exclusions for Handset Mode

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

$$\frac{\text{Max. Tune up Power}_{(\text{mW})}}{\text{Min. Test Separation Distance}_{(\text{mm})}} \times \sqrt{f_{(\text{GHz})}} \leq 3.0 \text{ for SAR-1g, } \leq 7.5 \text{ for SAR-10g}$$

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

| Mode | Max. Tune-up Power (dBm) | Max. Tune-up Power (mW) | Body-Worn            |                   |                      |
|------|--------------------------|-------------------------|----------------------|-------------------|----------------------|
|      |                          |                         | Ant. to Surface (mm) | Calculated Result | Require SAR Testing? |
| BT   | 10.5                     | 11                      | 10                   | 1.7               | No                   |

## FCC SAR Test Report

### 4.2.5 Body Exposure Conditions for Tablet PC Mode

According to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.

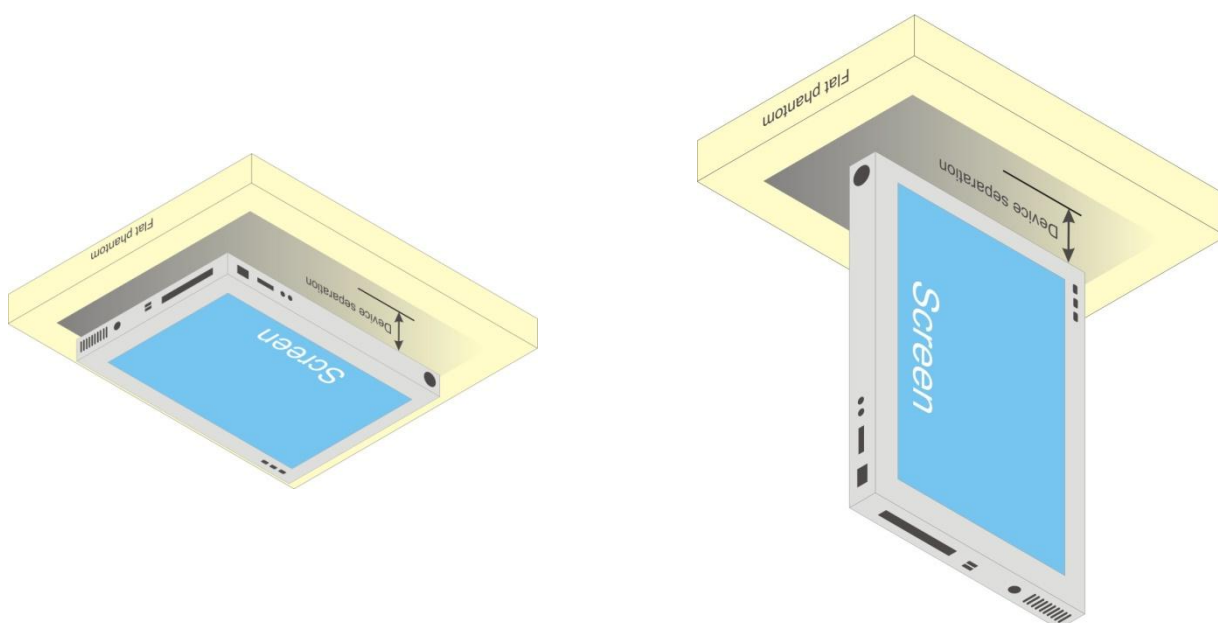


**Fig-4.5 Illustration for Tablet Setup**

# FCC SAR Test Report

A D T

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

- For the test separation distance  $\leq 50$  mm

$$\frac{\text{Max. Tune up Power}_{(\text{mW})}}{\text{Min. Test Separation Distance}_{(\text{mm})}} \times \sqrt{f_{(\text{GHz})}} \leq 3.0$$

When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

- For the test separation distance  $> 50$  mm, and the frequency at 100 MHz to 1500 MHz

$$\left[ (\text{Threshold at 50 mm in Step 1}) + (\text{Test Separation Distance} - 50 \text{ mm}) \times \left( \frac{f_{(\text{MHz})}}{150} \right) \right]_{(\text{mW})}$$

- For the test separation distance  $> 50$  mm, and the frequency at  $> 1500$  MHz to 6 GHz

$$[(\text{Threshold at 50 mm in Step 1}) + (\text{Test Separation Distance} - 50 \text{ mm}) \times 10]_{(\text{mW})}$$

| Mode      | Max. Tune-up Power (dBm) | Max. Tune-up Power (mW) | Rear Face            |                   |                      | Top Side             |                   |                      | Bottom Side          |                   |                      | Left Side            |                   |                      | Right Side           |                   |                      |
|-----------|--------------------------|-------------------------|----------------------|-------------------|----------------------|----------------------|-------------------|----------------------|----------------------|-------------------|----------------------|----------------------|-------------------|----------------------|----------------------|-------------------|----------------------|
|           |                          |                         | Ant. to Surface (mm) | Calculated Result | Require SAR Testing? | Ant. to Surface (mm) | Calculated Result | Require SAR Testing? | Ant. to Surface (mm) | Calculated Result | Require SAR Testing? | Ant. to Surface (mm) | Calculated Result | Require SAR Testing? | Ant. to Surface (mm) | Calculated Result | Require SAR Testing? |
| GSM 850   | 26.0                     | 398                     | 3.05                 | 73.3              | Yes                  | 6.49                 | 56.5              | Yes                  | 154.48               | 754 mW            | No                   | 174.51               | 868 mW            | No                   | 18.45                | 19.9              | Yes                  |
| GSM 1900  | 23.5                     | 224                     | 3.05                 | 61.9              | Yes                  | 6.49                 | 47.7              | Yes                  | 154.48               | 1153 mW           | No                   | 174.51               | 1354 mW           | No                   | 18.45                | 16.8              | Yes                  |
| WCDMA II  | 22.5                     | 178                     | 3.05                 | 49.2              | Yes                  | 6.49                 | 37.9              | Yes                  | 154.48               | 1153 mW           | No                   | 174.51               | 1354 mW           | No                   | 18.45                | 13.3              | Yes                  |
| WCDMA V   | 23.0                     | 200                     | 3.05                 | 36.8              | Yes                  | 6.49                 | 28.4              | Yes                  | 154.48               | 753 mW            | No                   | 174.51               | 866 mW            | No                   | 18.45                | 10                | Yes                  |
| LTE 2     | 22.6                     | 182                     | 3.05                 | 50.3              | Yes                  | 6.49                 | 38.7              | Yes                  | 154.48               | 1153 mW           | No                   | 174.51               | 1354 mW           | No                   | 18.45                | 13.6              | Yes                  |
| LTE 4     | 22.6                     | 182                     | 3.05                 | 48.2              | Yes                  | 6.49                 | 37.1              | Yes                  | 154.48               | 1158 mW           | No                   | 174.51               | 1358 mW           | No                   | 18.45                | 13.1              | Yes                  |
| LTE 5     | 22.4                     | 174                     | 3.05                 | 32                | Yes                  | 6.49                 | 24.7              | Yes                  | 154.48               | 753 mW            | No                   | 174.51               | 866 mW            | No                   | 18.45                | 8.7               | Yes                  |
| LTE 7     | 20.6                     | 115                     | 3.05                 | 19.4              | Yes                  | 6.49                 | 15                | Yes                  | 154.48               | 675 mW            | No                   | 174.51               | 770 mW            | No                   | 18.45                | 5.3               | Yes                  |
| LTE 17    | 22.4                     | 174                     | 3.05                 | 29.4              | Yes                  | 6.49                 | 22.7              | Yes                  | 154.48               | 675 mW            | No                   | 174.51               | 770 mW            | No                   | 18.45                | 8                 | Yes                  |
| WLAN 2.4G | 14.5                     | 28                      | 2.25                 | 8.8               | Yes                  | 5.25                 | 8.4               | Yes                  | 153.12               | 1127 mW           | No                   | 91.5                 | 511 mW            | No                   | 147.2                | 1068 mW           | No                   |
| WLAN 5.2G | 10.4                     | 11                      | 2.25                 | 5                 | Yes                  | 5.25                 | 4.8               | Yes                  | 153.12               | 1097 mW           | No                   | 91.5                 | 481 mW            | No                   | 147.2                | 1038 mW           | No                   |
| WLAN 5.3G | 10.0                     | 10                      | 2.25                 | 4.6               | Yes                  | 5.25                 | 4.4               | Yes                  | 153.12               | 1096 mW           | No                   | 91.5                 | 480 mW            | No                   | 147.2                | 1037 mW           | No                   |
| WLAN 5.6G | 12.0                     | 16                      | 2.25                 | 7.6               | Yes                  | 5.25                 | 7.3               | Yes                  | 153.12               | 1094 mW           | No                   | 91.5                 | 478 mW            | No                   | 147.2                | 1035 mW           | No                   |
| WLAN 5.8G | 12.1                     | 16                      | 2.25                 | 7.7               | Yes                  | 5.25                 | 7.4               | Yes                  | 153.12               | 1093 mW           | No                   | 91.5                 | 477 mW            | No                   | 147.2                | 1034 mW           | No                   |
| BT        | 10.5                     | 11                      | 2.25                 | 3.5               | Yes                  | 5.25                 | 3.3               | Yes                  | 153.12               | 1126 mW           | No                   | 91.5                 | 510 mW            | No                   | 147.2                | 1067 mW           | No                   |

**Note:** The maximum tune-up power shown in above table is maximum time-averaged power.

## 4.3 Tissue Verification

The measuring results for tissue simulating liquid are shown as below.

| Test Date     | Tissue Type | Frequency (MHz) | Liquid Temp. (°C) | Measured Conductivity ( $\sigma$ ) | Measured Permittivity ( $\epsilon_r$ ) | Target Conductivity ( $\sigma$ ) | Target Permittivity ( $\epsilon_r$ ) | Conductivity Deviation (%) | Permittivity Deviation (%) |
|---------------|-------------|-----------------|-------------------|------------------------------------|----------------------------------------|----------------------------------|--------------------------------------|----------------------------|----------------------------|
| Jan. 06, 2014 | Head        | 750             | 20.6              | 0.908                              | 40.492                                 | 0.89                             | 41.9                                 | 2.02                       | -3.36                      |
| Jan. 06, 2014 | Head        | 835             | 20.6              | 0.889                              | 42.897                                 | 0.90                             | 41.5                                 | -1.22                      | 3.37                       |
| Jan. 15, 2014 | Head        | 1750            | 20.3              | 1.358                              | 39.714                                 | 1.37                             | 40.1                                 | -0.88                      | -0.96                      |
| Jan. 06, 2014 | Head        | 1900            | 20.9              | 1.442                              | 39.194                                 | 1.40                             | 40.0                                 | 3.00                       | -2.01                      |
| Jan. 15, 2014 | Head        | 1900            | 20.3              | 1.415                              | 40.328                                 | 1.40                             | 40.0                                 | 1.07                       | 0.82                       |
| Feb. 18, 2014 | Head        | 1900            | 21.3              | 1.406                              | 39.596                                 | 1.40                             | 40.0                                 | 0.43                       | -1.01                      |
| Jan. 03, 2014 | Head        | 2450            | 20.9              | 1.782                              | 40.200                                 | 1.80                             | 39.2                                 | -1.00                      | 2.55                       |
| Jan. 03, 2014 | Head        | 2600            | 21.0              | 2.056                              | 37.589                                 | 1.96                             | 39.0                                 | 4.90                       | -3.62                      |
| Jan. 17, 2014 | Head        | 5200            | 21.3              | 4.842                              | 35.259                                 | 4.66                             | 36.0                                 | 3.91                       | -2.06                      |
| Jan. 17, 2014 | Head        | 5300            | 21.3              | 4.957                              | 35.073                                 | 4.76                             | 35.9                                 | 4.14                       | -2.30                      |
| Jan. 17, 2014 | Head        | 5600            | 21.3              | 5.285                              | 34.528                                 | 5.07                             | 35.5                                 | 4.24                       | -2.74                      |
| Jan. 17, 2014 | Head        | 5800            | 21.3              | 5.508                              | 34.184                                 | 5.27                             | 35.3                                 | 4.52                       | -3.16                      |
| Jan. 07, 2014 | Body        | 750             | 21.2              | 0.967                              | 55.240                                 | 0.96                             | 55.5                                 | 0.73                       | -0.47                      |
| Jan. 16, 2014 | Body        | 750             | 20.3              | 0.966                              | 55.259                                 | 0.96                             | 55.5                                 | 0.63                       | -0.43                      |
| Jan. 04, 2014 | Body        | 835             | 20.7              | 0.999                              | 56.864                                 | 0.97                             | 55.2                                 | 2.99                       | 3.01                       |
| Jan. 07, 2014 | Body        | 835             | 21.2              | 0.998                              | 56.679                                 | 0.97                             | 55.2                                 | 2.89                       | 2.68                       |
| Jan. 16, 2014 | Body        | 835             | 20.3              | 0.992                              | 55.471                                 | 0.97                             | 55.2                                 | 2.27                       | 0.49                       |
| Jan. 15, 2014 | Body        | 1750            | 21.5              | 1.487                              | 52.082                                 | 1.49                             | 53.4                                 | -0.20                      | -2.47                      |
| Jan. 03, 2014 | Body        | 1900            | 21.3              | 1.542                              | 53.199                                 | 1.52                             | 53.3                                 | 1.45                       | -0.19                      |
| Jan. 06, 2014 | Body        | 1900            | 20.7              | 1.552                              | 51.953                                 | 1.52                             | 53.3                                 | 2.11                       | -2.53                      |
| Jan. 06, 2014 | Body        | 1900            | 21.7              | 1.560                              | 53.444                                 | 1.52                             | 53.3                                 | 2.63                       | 0.27                       |
| Jan. 15, 2014 | Body        | 1900            | 21.5              | 1.542                              | 53.199                                 | 1.52                             | 53.3                                 | 1.45                       | -0.19                      |
| Feb. 20, 2014 | Body        | 1900            | 21.3              | 1.553                              | 51.888                                 | 1.52                             | 53.3                                 | 2.17                       | -2.65                      |
| Jan. 03, 2014 | Body        | 2450            | 21.1              | 1.964                              | 51.198                                 | 1.95                             | 52.7                                 | 0.72                       | -2.85                      |
| Jan. 15, 2014 | Body        | 2450            | 20.1              | 1.976                              | 51.413                                 | 1.95                             | 52.7                                 | 1.33                       | -2.44                      |
| Jan. 03, 2014 | Body        | 2600            | 21.1              | 2.185                              | 52.038                                 | 2.16                             | 52.5                                 | 1.16                       | -0.88                      |
| Jan. 04, 2014 | Body        | 2600            | 20.6              | 2.199                              | 52.350                                 | 2.16                             | 52.5                                 | 1.81                       | -0.29                      |
| Jan. 16, 2014 | Body        | 5200            | 20.7              | 5.194                              | 50.928                                 | 5.30                             | 49.0                                 | -2.00                      | 3.93                       |
| Jan. 22, 2014 | Body        | 5200            | 20.4              | 5.321                              | 47.346                                 | 5.30                             | 49.0                                 | 0.40                       | -3.38                      |
| Jan. 16, 2014 | Body        | 5300            | 20.7              | 5.356                              | 50.830                                 | 5.42                             | 48.9                                 | -1.18                      | 3.95                       |
| Jan. 16, 2014 | Body        | 5600            | 20.7              | 5.875                              | 50.255                                 | 5.77                             | 48.5                                 | 1.82                       | 3.62                       |
| Jan. 22, 2014 | Body        | 5600            | 20.4              | 5.889                              | 46.629                                 | 5.77                             | 48.5                                 | 2.06                       | -3.86                      |
| Jan. 16, 2014 | Body        | 5800            | 20.7              | 6.178                              | 49.756                                 | 6.00                             | 48.2                                 | 2.97                       | 3.23                       |
| Jan. 22, 2014 | Body        | 5800            | 20.4              | 6.176                              | 46.237                                 | 6.00                             | 48.2                                 | 2.93                       | -4.07                      |

### Note:

The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within  $\pm 5\%$  of the target values. Liquid temperature during the SAR testing must be within  $\pm 2^\circ\text{C}$ .

## 4.4 System Validation

The SAR measurement system was validated according to procedures in KDB 865664 D01 v01r01. The validation status in tabulated summary is as below.

| Test Date     | Probe S/N | Calibration Point |      | Measured Conductivity ( $\sigma$ ) | Measured Permittivity ( $\epsilon_r$ ) | Validation for CW |                 |                | Validation for Modulation |             |      |
|---------------|-----------|-------------------|------|------------------------------------|----------------------------------------|-------------------|-----------------|----------------|---------------------------|-------------|------|
|               |           |                   |      |                                    |                                        | Sensitivity Range | Probe Linearity | Probe Isotropy | Modulation Type           | Duty Factor | PAR  |
| Jan. 06, 2014 | 3801      | Head              | 750  | 0.908                              | 40.492                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jan. 06, 2014 | 3801      | Head              | 835  | 0.889                              | 42.897                                 | Pass              | Pass            | Pass           | GMSK                      | Pass        | N/A  |
| Jan. 15, 2014 | 3864      | Head              | 1750 | 1.358                              | 39.714                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jan. 06, 2014 | 3801      | Head              | 1900 | 1.442                              | 39.194                                 | Pass              | Pass            | Pass           | GMSK                      | Pass        | N/A  |
| Jan. 15, 2014 | 3864      | Head              | 1900 | 1.415                              | 40.328                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Feb. 18, 2014 | 3864      | Head              | 1900 | 1.406                              | 39.596                                 | Pass              | Pass            | Pass           | GMSK                      | Pass        | N/A  |
| Jan. 03, 2014 | 3650      | Head              | 2450 | 1.782                              | 40.200                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 03, 2014 | 3650      | Head              | 2600 | 2.056                              | 37.589                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jan. 17, 2014 | 3864      | Head              | 5200 | 4.842                              | 35.259                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 17, 2014 | 3801      | Head              | 5300 | 4.957                              | 35.073                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 17, 2014 | 3801      | Head              | 5600 | 5.285                              | 34.528                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 17, 2014 | 3801      | Head              | 5800 | 5.508                              | 34.184                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 07, 2014 | 3650      | Body              | 750  | 0.967                              | 55.240                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jan. 16, 2014 | 3864      | Body              | 750  | 0.966                              | 55.259                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jan. 04, 2014 | 3650      | Body              | 835  | 0.999                              | 56.864                                 | Pass              | Pass            | Pass           | GMSK                      | Pass        | N/A  |
| Jan. 07, 2014 | 3650      | Body              | 835  | 0.998                              | 56.679                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jan. 16, 2014 | 3864      | Body              | 835  | 0.992                              | 55.471                                 | Pass              | Pass            | Pass           | GMSK                      | Pass        | N/A  |
| Jan. 15, 2014 | 3864      | Body              | 1750 | 1.487                              | 52.082                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jan. 03, 2014 | 3650      | Body              | 1900 | 1.542                              | 53.199                                 | Pass              | Pass            | Pass           | GMSK                      | Pass        | N/A  |
| Jan. 06, 2014 | 3801      | Body              | 1900 | 1.552                              | 51.953                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jan. 06, 2014 | 3650      | Body              | 1900 | 1.560                              | 53.444                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jan. 15, 2014 | 3864      | Body              | 1900 | 1.542                              | 53.199                                 | Pass              | Pass            | Pass           | GMSK                      | Pass        | N/A  |
| Feb. 20, 2014 | 3864      | Body              | 1900 | 1.553                              | 51.888                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jan. 03, 2014 | 3650      | Body              | 2450 | 1.964                              | 51.198                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 15, 2014 | 3590      | Body              | 2450 | 1.976                              | 51.413                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 03, 2014 | 3650      | Body              | 2600 | 2.185                              | 52.038                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jan. 04, 2014 | 3650      | Body              | 2600 | 2.199                              | 52.350                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jan. 16, 2014 | 3864      | Body              | 5200 | 5.194                              | 50.928                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 22, 2014 | 3650      | Body              | 5200 | 5.321                              | 47.346                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 16, 2014 | 3864      | Body              | 5300 | 5.356                              | 50.830                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 16, 2014 | 3864      | Body              | 5600 | 5.875                              | 50.255                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 22, 2014 | 3650      | Body              | 5600 | 5.889                              | 46.629                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 16, 2014 | 3864      | Body              | 5800 | 6.178                              | 49.756                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Jan. 22, 2014 | 3650      | Body              | 5800 | 6.176                              | 46.237                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |

## 4.5 System Verification

The measuring result for system verification is tabulated as below.

| Test Date     | Mode | Frequency (MHz) | 1W Target SAR-1g (W/kg) | Measured SAR-1g (W/kg) | Normalized to 1W SAR-1g (W/kg) | Deviation (%) | Dipole S/N | Probe S/N | DAE S/N |
|---------------|------|-----------------|-------------------------|------------------------|--------------------------------|---------------|------------|-----------|---------|
| Jan. 06, 2014 | Head | 750             | 8.66                    | 2.15                   | 8.60                           | -0.69         | 1013       | 3801      | 579     |
| Jan. 06, 2014 | Head | 835             | 9.68                    | 2.31                   | 9.24                           | -4.55         | 4d121      | 3801      | 579     |
| Jan. 15, 2014 | Head | 1750            | 36.50                   | 8.71                   | 34.84                          | -4.55         | 1055       | 3864      | 1277    |
| Jan. 06, 2014 | Head | 1900            | 40.60                   | 9.50                   | 38.00                          | -6.40         | 5d036      | 3801      | 579     |
| Jan. 15, 2014 | Head | 1900            | 40.60                   | 9.67                   | 38.68                          | -4.73         | 5d036      | 3864      | 1277    |
| Feb. 18, 2014 | Head | 1900            | 40.00                   | 9.61                   | 38.44                          | -3.90         | 5d022      | 3864      | 1277    |
| Jan. 03, 2014 | Head | 2450            | 52.50                   | 12.30                  | 49.20                          | -6.29         | 737        | 3650      | 360     |
| Jan. 03, 2014 | Head | 2600            | 57.80                   | 14.50                  | 58.00                          | 0.35          | 1020       | 3650      | 360     |
| Jan. 17, 2014 | Head | 5200            | 79.20                   | 7.50                   | 75.00                          | -5.30         | 1018       | 3864      | 1277    |
| Jan. 17, 2014 | Head | 5300            | 82.60                   | 7.92                   | 79.20                          | -4.12         | 1018       | 3801      | 579     |
| Jan. 17, 2014 | Head | 5600            | 82.80                   | 7.64                   | 76.40                          | -7.73         | 1018       | 3801      | 579     |
| Jan. 17, 2014 | Head | 5800            | 79.50                   | 7.67                   | 76.70                          | -3.52         | 1018       | 3801      | 579     |
| Jan. 07, 2014 | Body | 750             | 8.81                    | 2.21                   | 8.84                           | 0.34          | 1013       | 3650      | 360     |
| Jan. 06, 2014 | Body | 750             | 8.81                    | 2.37                   | 9.48                           | 7.60          | 1013       | 3864      | 1277    |
| Jan. 04, 2014 | Body | 835             | 9.69                    | 2.32                   | 9.28                           | -4.23         | 4d121      | 3650      | 360     |
| Jan. 07, 2014 | Body | 835             | 9.69                    | 2.56                   | 10.24                          | 5.68          | 4d121      | 3650      | 360     |
| Jan. 16, 2014 | Body | 835             | 9.69                    | 2.61                   | 10.44                          | 7.74          | 4d121      | 3864      | 1277    |
| Jan. 15, 2014 | Body | 1750            | 36.90                   | 9.31                   | 37.24                          | 0.92          | 1055       | 3864      | 1277    |
| Jan. 03, 2014 | Body | 1900            | 41.00                   | 9.87                   | 39.48                          | -3.71         | 5d036      | 3650      | 360     |
| Jan. 06, 2014 | Body | 1900            | 41.00                   | 9.58                   | 38.32                          | -6.54         | 5d036      | 3801      | 579     |
| Jan. 06, 2014 | Body | 1900            | 41.00                   | 10.00                  | 40.00                          | -2.44         | 5d036      | 3650      | 360     |
| Jan. 15, 2014 | Body | 1900            | 41.00                   | 9.51                   | 38.04                          | -7.22         | 5d036      | 3864      | 1277    |
| Feb. 20, 2014 | Body | 1900            | 40.40                   | 9.48                   | 37.92                          | -6.14         | 5d022      | 3864      | 1277    |
| Jan. 03, 2014 | Body | 2450            | 49.60                   | 11.80                  | 47.20                          | -4.84         | 737        | 3650      | 360     |
| Jan. 15, 2014 | Body | 2450            | 49.60                   | 12.60                  | 50.40                          | 1.61          | 737        | 3590      | 861     |
| Jan. 03, 2014 | Body | 2600            | 55.80                   | 13.70                  | 54.80                          | -1.79         | 1020       | 3650      | 360     |
| Jan. 04, 2014 | Body | 2600            | 55.80                   | 12.90                  | 51.60                          | -7.53         | 1020       | 3650      | 360     |
| Jan. 16, 2014 | Body | 5200            | 74.90                   | 7.24                   | 72.40                          | -3.34         | 1018       | 3864      | 1277    |
| Jan. 22, 2014 | Body | 5200            | 74.90                   | 7.34                   | 73.40                          | -2.00         | 1018       | 3650      | 360     |
| Jan. 16, 2014 | Body | 5300            | 75.70                   | 7.96                   | 79.60                          | 5.15          | 1018       | 3864      | 1277    |
| Jan. 16, 2014 | Body | 5600            | 80.40                   | 8.51                   | 85.10                          | 5.85          | 1018       | 3864      | 1277    |
| Jan. 22, 2014 | Body | 5600            | 80.40                   | 7.40                   | 74.00                          | -7.96         | 1018       | 3650      | 360     |
| Jan. 16, 2014 | Body | 5800            | 74.90                   | 7.92                   | 79.20                          | 5.74          | 1018       | 3864      | 1277    |
| Jan. 22, 2014 | Body | 5800            | 74.90                   | 6.96                   | 69.60                          | -7.08         | 1018       | 3650      | 360     |

### Note:

Comparing to the reference SAR value provided by SPEAG, the validation data should be within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots can be referred to Appendix A of this report.

## 4.6 Maximum Output Power

### 4.6.1 Maximum Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

| Mode                     | GSM850<br>(without Power Reduction) | GSM850<br>(with Power Reduction) | Power Reduction<br>(dBm) |
|--------------------------|-------------------------------------|----------------------------------|--------------------------|
| GSM (GMSK, 1 Uplink)     | 32.0                                | 29.5                             | 2.5                      |
| GPRS 8 (GMSK, 1 Uplink)  | 32.0                                | 29.5                             | 2.5                      |
| GPRS 10 (GMSK, 2 Uplink) | 32.0                                | 29.5                             | 2.5                      |
| EDGE 8 (8PSK, 1 Uplink)  | 27.5                                | 27.5                             | 0.0                      |
| EDGE 10 (8PSK, 2 Uplink) | 28.0                                | 28.0                             | 0.0                      |

| Mode                     | GSM1900<br>(without Power Reduction) | GSM1900<br>(with Power Reduction) | Power Reduction<br>(dBm) |
|--------------------------|--------------------------------------|-----------------------------------|--------------------------|
| GSM (GMSK, 1 Uplink)     | 29.5                                 | 26.5                              | 3.0                      |
| GPRS 8 (GMSK, 1 Uplink)  | 29.5                                 | 26.5                              | 3.0                      |
| GPRS 10 (GMSK, 2 Uplink) | 29.5                                 | 26.5                              | 3.0                      |
| EDGE 8 (8PSK, 1 Uplink)  | 26.5                                 | 26.5                              | 0.0                      |
| EDGE 10 (8PSK, 2 Uplink) | 26.5                                 | 26.5                              | 0.0                      |

| Mode      | WCDMA Band II<br>(without Power Reduction) | WCDMA Band II<br>(with Power Reduction) | Power Reduction<br>(dBm) |
|-----------|--------------------------------------------|-----------------------------------------|--------------------------|
| RMC 12.2K | 22.5                                       | 20.0                                    | 2.5                      |

| Mode      | WCDMA Band V<br>(without Power Reduction) | WCDMA Band V<br>(with Power Reduction) | Power Reduction<br>(dBm) |
|-----------|-------------------------------------------|----------------------------------------|--------------------------|
| RMC 12.2K | 23.0                                      | 20.5                                   | 2.5                      |

| Mode | LTE 2<br>(without Power Reduction) | LTE 2<br>(with Power Reduction) | Power Reduction<br>(dBm) |
|------|------------------------------------|---------------------------------|--------------------------|
| QPSK | 22.6                               | 20.8                            | 1.8                      |

| Mode | LTE 4<br>(without Power Reduction) | LTE 4<br>(with Power Reduction) | Power Reduction<br>(dBm) |
|------|------------------------------------|---------------------------------|--------------------------|
| QPSK | 22.6                               | 19.6                            | 3.0                      |

| Mode | LTE 5<br>(without Power Reduction) | LTE 5<br>(with Power Reduction) | Power Reduction<br>(dBm) |
|------|------------------------------------|---------------------------------|--------------------------|
| QPSK | 22.4                               | 20.7                            | 1.7                      |

| Mode | LTE 7<br>(without Power Reduction) | LTE 7<br>(with Power Reduction) | Power Reduction<br>(dBm) |
|------|------------------------------------|---------------------------------|--------------------------|
| QPSK | 20.6                               | 11.8                            | 8.8                      |

| Mode | LTE 17<br>(without Power Reduction) | LTE 17<br>(with Power Reduction) | Power Reduction<br>(dBm) |
|------|-------------------------------------|----------------------------------|--------------------------|
| QPSK | 22.4                                | 21.6                             | 0.8                      |

## <WLAN Target Power on Handset Mode>

| Mode           | 2.4G WLAN | 5.2G WLAN | 5.3G WLAN | 5.6G WLAN | 5.8G WLAN |
|----------------|-----------|-----------|-----------|-----------|-----------|
| 802.11b        | 14.5      | N/A       | N/A       | N/A       | N/A       |
| 802.11g        | 14.0      | N/A       | N/A       | N/A       | N/A       |
| 802.11a        | N/A       | 15.5      | 15.1      | 15.5      | 15.5      |
| 802.11n HT20   | 13.5      | 15.5      | 15.1      | 15.5      | 15.5      |
| 802.11n HT40   | N/A       | 14.5      | 14.5      | 14.5      | 14.5      |
| 802.11ac VHT80 | N/A       | 13.0      | 13.5      | 13.0      | 13.0      |

## <WLAN Target Power on Tablet PC Mode>

| Mode           | 2.4G WLAN | 5.2G WLAN | 5.3G WLAN | 5.6G WLAN | 5.8G WLAN |
|----------------|-----------|-----------|-----------|-----------|-----------|
| 802.11b        | 14.5      | N/A       | N/A       | N/A       | N/A       |
| 802.11g        | 14.0      | N/A       | N/A       | N/A       | N/A       |
| 802.11a        | N/A       | 10.4      | 10.0      | 12.0      | 12.1      |
| 802.11n HT20   | 13.5      | 10.4      | 10.0      | 12.0      | 12.1      |
| 802.11n HT40   | N/A       | 10.4      | 9.5       | 12.0      | 12.0      |
| 802.11ac VHT80 | N/A       | 9.5       | 10.0      | 12.0      | 12.1      |

| Mode | Bluetooth |
|------|-----------|
| All  | 10.5      |

## 4.6.2 Measured Conducted Power Result

The measuring conducted average power (Unit: dBm) is shown as below.

| Band                                                        | GSM850 |       |              | GSM1900 |              |              |
|-------------------------------------------------------------|--------|-------|--------------|---------|--------------|--------------|
| Channel                                                     | 128    | 189   | 251          | 512     | 661          | 810          |
| Frequency (MHz)                                             | 824.2  | 836.4 | 848.8        | 1850.2  | 1880.0       | 1909.8       |
| <b>EUT without Power Reduction (P-Sensor NOT Triggered)</b> |        |       |              |         |              |              |
| <b>Maximum Burst-Averaged Output Power</b>                  |        |       |              |         |              |              |
| GSM (GMSK, 1 Uplink)                                        | 31.79  | 31.86 | 31.91        | 28.89   | 29.01        | 29.23        |
| GPRS 8 (GMSK, 1 Uplink)                                     | 31.81  | 31.88 | 31.93        | 28.95   | 29.07        | 29.29        |
| GPRS 10 (GMSK, 2 Uplink)                                    | 31.78  | 31.85 | 31.90        | 28.91   | 29.01        | 29.25        |
| EDGE 8 (8PSK, 1 Uplink)                                     | 27.25  | 27.32 | 27.37        | 25.77   | 25.89        | 26.11        |
| EDGE 10 (8PSK, 2 Uplink)                                    | 27.88  | 27.95 | 28.00        | 25.73   | 25.85        | 26.07        |
| <b>Maximum Frame-Averaged Output Power</b>                  |        |       |              |         |              |              |
| GSM (GMSK, 1 Uplink)                                        | 22.79  | 22.86 | 22.91        | 19.89   | 20.01        | 20.23        |
| GPRS 8 (GMSK, 1 Uplink)                                     | 22.81  | 22.88 | 22.93        | 19.95   | 20.07        | 20.29        |
| GPRS 10 (GMSK, 2 Uplink)                                    | 25.78  | 25.85 | <b>25.90</b> | 22.91   | 23.01        | <b>23.25</b> |
| EDGE 8 (8PSK, 1 Uplink)                                     | 18.25  | 18.32 | 18.37        | 16.77   | 16.89        | 17.11        |
| EDGE 10 (8PSK, 2 Uplink)                                    | 21.88  | 21.95 | 22.00        | 19.73   | 19.85        | 20.07        |
| <b>EUT with Power Reduction (P-Sensor Triggered)</b>        |        |       |              |         |              |              |
| <b>Maximum Burst-Averaged Output Power</b>                  |        |       |              |         |              |              |
| GSM (GMSK, 1 Uplink)                                        | 29.36  | 28.99 | 29.43        | 26.28   | 26.35        | 26.30        |
| GPRS 8 (GMSK, 1 Uplink)                                     | 29.11  | 28.93 | 29.34        | 26.24   | 26.32        | 26.28        |
| GPRS 10 (GMSK, 2 Uplink)                                    | 28.94  | 28.79 | 29.22        | 26.17   | 26.31        | 26.16        |
| EDGE 8 (8PSK, 1 Uplink)                                     | 27.35  | 27.42 | 27.47        | 26.20   | 26.04        | 25.97        |
| EDGE 10 (8PSK, 2 Uplink)                                    | 27.40  | 27.22 | 27.54        | 26.10   | 26.02        | 25.93        |
| <b>Maximum Frame-Averaged Output Power</b>                  |        |       |              |         |              |              |
| GSM (GMSK, 1 Uplink)                                        | 20.36  | 19.99 | 20.43        | 17.28   | 17.35        | 17.30        |
| GPRS 8 (GMSK, 1 Uplink)                                     | 20.11  | 19.93 | 20.34        | 17.24   | 17.32        | 17.28        |
| GPRS 10 (GMSK, 2 Uplink)                                    | 22.94  | 22.79 | <b>23.22</b> | 20.17   | <b>20.31</b> | 20.16        |
| EDGE 8 (8PSK, 1 Uplink)                                     | 18.35  | 18.42 | 18.47        | 17.20   | 17.04        | 16.97        |
| EDGE 10 (8PSK, 2 Uplink)                                    | 21.40  | 21.22 | 21.54        | 20.10   | 20.02        | 19.93        |

### Note:

- SAR testing was performed on the maximum frame-averaged power mode.
- The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:  
Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8)

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| Band                                                 | WCDMA Band II |        |        | WCDMA Band V |       |       | 3GPP<br>MPR<br>(dB) |
|------------------------------------------------------|---------------|--------|--------|--------------|-------|-------|---------------------|
| Channel                                              | 9262          | 9400   | 9538   | 4132         | 4182  | 4233  |                     |
| Frequency (MHz)                                      | 1852.4        | 1880.0 | 1907.6 | 826.4        | 836.4 | 846.6 |                     |
| EUT without Power Reduction (P-Sensor NOT Triggered) |               |        |        |              |       |       |                     |
| RMC 12.2K                                            | 22.31         | 22.28  | 22.32  | 22.33        | 22.63 | 22.81 | -                   |
| HSDPA Subtest-1                                      | 21.34         | 21.31  | 21.35  | 21.51        | 21.81 | 21.99 | 0                   |
| HSDPA Subtest-2                                      | 21.33         | 21.30  | 21.34  | 21.52        | 21.82 | 22.00 | 0                   |
| HSDPA Subtest-3                                      | 20.83         | 20.80  | 20.84  | 21.18        | 21.48 | 21.66 | 0.5                 |
| HSDPA Subtest-4                                      | 20.85         | 20.82  | 20.86  | 21.17        | 21.47 | 21.65 | 0.5                 |
| HSUPA Subtest-1                                      | 21.33         | 21.30  | 21.34  | 21.00        | 21.30 | 21.48 | 0                   |
| HSUPA Subtest-2                                      | 19.57         | 19.54  | 19.58  | 19.44        | 19.74 | 19.92 | 2                   |
| HSUPA Subtest-3                                      | 20.14         | 20.11  | 20.15  | 20.25        | 20.55 | 20.73 | 1                   |
| HSUPA Subtest-4                                      | 19.29         | 19.26  | 19.30  | 19.22        | 19.52 | 19.70 | 2                   |
| HSUPA Subtest-5                                      | 21.36         | 21.33  | 21.37  | 21.30        | 21.50 | 21.68 | 0                   |
| EUT with Power Reduction (P-Sensor Triggered)        |               |        |        |              |       |       |                     |
| RMC 12.2K                                            | 19.93         | 19.98  | 19.90  | 20.35        | 20.31 | 19.84 | -                   |
| HSDPA Subtest-1                                      | 19.09         | 19.14  | 19.06  | 19.25        | 19.21 | 18.74 | -                   |
| HSDPA Subtest-2                                      | 18.93         | 18.98  | 18.90  | 19.24        | 19.20 | 18.73 | -                   |
| HSDPA Subtest-3                                      | 18.91         | 18.96  | 18.88  | 19.22        | 19.18 | 18.71 | -                   |
| HSDPA Subtest-4                                      | 18.72         | 18.77  | 18.69  | 19.08        | 19.04 | 18.57 | -                   |
| HSUPA Subtest-1                                      | 18.53         | 18.58  | 18.50  | 18.61        | 18.57 | 18.10 | -                   |
| HSUPA Subtest-2                                      | 18.37         | 18.42  | 18.34  | 18.55        | 18.51 | 18.04 | -                   |
| HSUPA Subtest-3                                      | 18.35         | 18.40  | 18.32  | 18.29        | 18.25 | 17.78 | -                   |
| HSUPA Subtest-4                                      | 17.94         | 17.99  | 17.91  | 18.19        | 18.15 | 17.68 | -                   |
| HSUPA Subtest-5                                      | 17.55         | 17.60  | 17.52  | 18.00        | 17.96 | 17.49 | -                   |

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| Band / BW                                            | Modulation | RB Size | RB Offset | Low CH<br>18625         | Mid CH<br>18900         | High CH<br>19175        | 3GPP<br>MPR<br>(dB) |
|------------------------------------------------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|---------------------|
|                                                      |            |         |           | Frequency<br>1852.5 MHz | Frequency<br>1880.0 MHz | Frequency<br>1907.5 MHz |                     |
| EUT without Power Reduction (P-Sensor NOT Triggered) |            |         |           |                         |                         |                         |                     |
| 2 / 5M                                               | QPSK       | 1       | 0         | 22.25                   | 22.16                   | 22.36                   | 0                   |
|                                                      |            | 1       | 12        | 22.44                   | 22.15                   | <b>22.54</b>            | 0                   |
|                                                      |            | 1       | 24        | 22.14                   | 21.94                   | 22.28                   | 0                   |
|                                                      |            | 12      | 0         | 21.39                   | 21.25                   | 21.44                   | 1                   |
|                                                      |            | 12      | 6         | 21.45                   | 21.32                   | 21.42                   | 1                   |
|                                                      |            | 12      | 13        | 21.43                   | 21.22                   | 21.35                   | 1                   |
|                                                      |            | 25      | 0         | 21.41                   | 21.28                   | 21.40                   | 1                   |
|                                                      | 16QAM      | 1       | 0         | 21.21                   | 21.12                   | 21.32                   | 1                   |
|                                                      |            | 1       | 12        | 21.40                   | 21.11                   | <b>21.50</b>            | 1                   |
|                                                      |            | 1       | 24        | 21.10                   | 20.90                   | 21.24                   | 1                   |
|                                                      |            | 12      | 0         | 20.35                   | 20.21                   | 20.40                   | 2                   |
|                                                      |            | 12      | 6         | 20.41                   | 20.28                   | 20.38                   | 2                   |
|                                                      |            | 12      | 13        | 20.39                   | 20.18                   | 20.31                   | 2                   |
|                                                      |            | 25      | 0         | 20.37                   | 20.24                   | 20.36                   | 2                   |
| EUT with Power Reduction (P-Sensor Triggered)        |            |         |           |                         |                         |                         |                     |
| 2 / 5M                                               | QPSK       | 1       | 0         | 20.46                   | 20.43                   | 20.44                   | -                   |
|                                                      |            | 1       | 12        | <b>20.59</b>            | 20.46                   | 20.51                   | -                   |
|                                                      |            | 1       | 24        | 20.50                   | 20.38                   | 20.43                   | -                   |
|                                                      |            | 12      | 0         | 19.60                   | 19.51                   | 19.56                   | -                   |
|                                                      |            | 12      | 6         | 19.57                   | 19.48                   | 19.52                   | -                   |
|                                                      |            | 12      | 13        | 19.60                   | 19.45                   | 19.47                   | -                   |
|                                                      |            | 25      | 0         | 19.56                   | 19.45                   | 19.47                   | -                   |
|                                                      | 16QAM      | 1       | 0         | 19.36                   | 19.33                   | 19.34                   | -                   |
|                                                      |            | 1       | 12        | <b>19.49</b>            | 19.36                   | 19.41                   | -                   |
|                                                      |            | 1       | 24        | 19.40                   | 19.28                   | 19.33                   | -                   |
|                                                      |            | 12      | 0         | 18.50                   | 18.41                   | 18.46                   | -                   |
|                                                      |            | 12      | 6         | 18.47                   | 18.38                   | 18.42                   | -                   |
|                                                      |            | 12      | 13        | 18.50                   | 18.35                   | 18.37                   | -                   |
|                                                      |            | 25      | 0         | 18.46                   | 18.35                   | 18.37                   | -                   |

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| Band / BW                                            | Modulation | RB Size | RB Offset | Low CH<br>18650         | Mid CH<br>18900         | High CH<br>19150        | 3GPP<br>MPR<br>(dB) |
|------------------------------------------------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|---------------------|
|                                                      |            |         |           | Frequency<br>1855.0 MHz | Frequency<br>1880.0 MHz | Frequency<br>1905.0 MHz |                     |
| EUT without Power Reduction (P-Sensor NOT Triggered) |            |         |           |                         |                         |                         |                     |
| 2 / 10M                                              | QPSK       | 1       | 0         | 22.27                   | 22.18                   | 22.38                   | 0                   |
|                                                      |            | 1       | 24        | 22.46                   | 22.17                   | <b>22.56</b>            | 0                   |
|                                                      |            | 1       | 49        | 22.16                   | 21.96                   | 22.30                   | 0                   |
|                                                      |            | 25      | 0         | 21.41                   | 21.27                   | 21.46                   | 1                   |
|                                                      |            | 25      | 12        | 21.47                   | 21.34                   | 21.44                   | 1                   |
|                                                      |            | 25      | 25        | 21.45                   | 21.24                   | 21.37                   | 1                   |
|                                                      |            | 50      | 0         | 21.43                   | 21.30                   | 21.42                   | 1                   |
|                                                      | 16QAM      | 1       | 0         | 21.24                   | 21.15                   | 21.35                   | 1                   |
|                                                      |            | 1       | 24        | 21.43                   | 21.14                   | <b>21.53</b>            | 1                   |
|                                                      |            | 1       | 49        | 21.13                   | 20.93                   | 21.27                   | 1                   |
|                                                      |            | 25      | 0         | 20.38                   | 20.24                   | 20.43                   | 2                   |
|                                                      |            | 25      | 12        | 20.44                   | 20.31                   | 20.41                   | 2                   |
|                                                      |            | 25      | 25        | 20.42                   | 20.21                   | 20.34                   | 2                   |
|                                                      |            | 50      | 0         | 20.40                   | 20.27                   | 20.39                   | 2                   |
| EUT with Power Reduction (P-Sensor Triggered)        |            |         |           |                         |                         |                         |                     |
| 2 / 10M                                              | QPSK       | 1       | 0         | 20.58                   | 20.55                   | 20.56                   | -                   |
|                                                      |            | 1       | 24        | <b>20.71</b>            | 20.58                   | 20.63                   | -                   |
|                                                      |            | 1       | 49        | 20.62                   | 20.50                   | 20.55                   | -                   |
|                                                      |            | 25      | 0         | 19.72                   | 19.63                   | 19.68                   | -                   |
|                                                      |            | 25      | 12        | 19.69                   | 19.60                   | 19.64                   | -                   |
|                                                      |            | 25      | 25        | 19.72                   | 19.57                   | 19.59                   | -                   |
|                                                      |            | 50      | 0         | 19.68                   | 19.57                   | 19.59                   | -                   |
|                                                      | 16QAM      | 1       | 0         | 19.48                   | 19.45                   | 19.46                   | -                   |
|                                                      |            | 1       | 24        | <b>19.61</b>            | 19.48                   | 19.53                   | -                   |
|                                                      |            | 1       | 49        | 19.52                   | 19.40                   | 19.45                   | -                   |
|                                                      |            | 25      | 0         | 18.62                   | 18.53                   | 18.58                   | -                   |
|                                                      |            | 25      | 12        | 18.59                   | 18.50                   | 18.54                   | -                   |
|                                                      |            | 25      | 25        | 18.62                   | 18.47                   | 18.49                   | -                   |
|                                                      |            | 50      | 0         | 18.58                   | 18.47                   | 18.49                   | -                   |

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| Band / BW                                            | Modulation | RB Size | RB Offset | Low CH<br>19975         | Mid CH<br>20175         | High CH<br>20375        | 3GPP<br>MPR<br>(dB) |
|------------------------------------------------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|---------------------|
|                                                      |            |         |           | Frequency<br>1712.5 MHz | Frequency<br>1732.5 MHz | Frequency<br>1752.5 MHz |                     |
| EUT without Power Reduction (P-Sensor NOT Triggered) |            |         |           |                         |                         |                         |                     |
| 4 / 5M                                               | QPSK       | 1       | 0         | 22.21                   | 22.26                   | 22.34                   | 0                   |
|                                                      |            | 1       | 12        | 22.08                   | 22.41                   | <b>22.51</b>            | 0                   |
|                                                      |            | 1       | 24        | 22.08                   | 22.16                   | 22.33                   | 0                   |
|                                                      |            | 12      | 0         | 21.21                   | 21.30                   | 21.43                   | 1                   |
|                                                      |            | 12      | 6         | 21.20                   | 21.28                   | 21.47                   | 1                   |
|                                                      |            | 12      | 13        | 21.21                   | 21.26                   | 21.47                   | 1                   |
|                                                      |            | 25      | 0         | 21.27                   | 21.29                   | 21.42                   | 1                   |
|                                                      | 16QAM      | 1       | 0         | 21.17                   | 21.22                   | 21.30                   | 1                   |
|                                                      |            | 1       | 12        | 21.04                   | 21.37                   | <b>21.47</b>            | 1                   |
|                                                      |            | 1       | 24        | 21.04                   | 21.12                   | 21.29                   | 1                   |
|                                                      |            | 12      | 0         | 20.17                   | 20.26                   | 20.39                   | 2                   |
|                                                      |            | 12      | 6         | 20.16                   | 20.24                   | 20.43                   | 2                   |
|                                                      |            | 12      | 13        | 20.17                   | 20.22                   | 20.43                   | 2                   |
|                                                      |            | 25      | 0         | 20.23                   | 20.25                   | 20.38                   | 2                   |
| EUT with Power Reduction (P-Sensor Triggered)        |            |         |           |                         |                         |                         |                     |
| 4 / 5M                                               | QPSK       | 1       | 0         | 19.13                   | 19.31                   | 19.34                   | -                   |
|                                                      |            | 1       | 12        | 19.23                   | 19.27                   | 19.43                   | -                   |
|                                                      |            | 1       | 24        | 19.15                   | 19.18                   | <b>19.46</b>            | -                   |
|                                                      |            | 12      | 0         | 18.17                   | 18.31                   | 18.40                   | -                   |
|                                                      |            | 12      | 6         | 18.18                   | 18.33                   | 18.34                   | -                   |
|                                                      |            | 12      | 13        | 18.13                   | 18.30                   | 18.43                   | -                   |
|                                                      |            | 25      | 0         | 18.16                   | 18.35                   | 18.36                   | -                   |
|                                                      | 16QAM      | 1       | 0         | 18.03                   | 18.21                   | 18.24                   | -                   |
|                                                      |            | 1       | 12        | 18.13                   | 18.17                   | 18.33                   | -                   |
|                                                      |            | 1       | 24        | 18.05                   | 18.08                   | <b>18.36</b>            | -                   |
|                                                      |            | 12      | 0         | 17.07                   | 17.21                   | 17.30                   | -                   |
|                                                      |            | 12      | 6         | 17.08                   | 17.23                   | 17.24                   | -                   |
|                                                      |            | 12      | 13        | 17.03                   | 17.20                   | 17.33                   | -                   |
|                                                      |            | 25      | 0         | 17.06                   | 17.25                   | 17.26                   | -                   |

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| Band / BW                                            | Modulation | RB Size | RB Offset | Low CH<br>20000         | Mid CH<br>20175         | High CH<br>20350        | 3GPP<br>MPR<br>(dB) |
|------------------------------------------------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|---------------------|
|                                                      |            |         |           | Frequency<br>1715.0 MHz | Frequency<br>1732.5 MHz | Frequency<br>1750.0 MHz |                     |
| EUT without Power Reduction (P-Sensor NOT Triggered) |            |         |           |                         |                         |                         |                     |
| 4 / 10M                                              | QPSK       | 1       | 0         | 22.23                   | 22.28                   | 22.36                   | 0                   |
|                                                      |            | 1       | 24        | 22.10                   | 22.43                   | <b>22.53</b>            | 0                   |
|                                                      |            | 1       | 49        | 22.10                   | 22.18                   | 22.35                   | 0                   |
|                                                      |            | 25      | 0         | 21.23                   | 21.32                   | 21.45                   | 1                   |
|                                                      |            | 25      | 12        | 21.22                   | 21.30                   | 21.49                   | 1                   |
|                                                      |            | 25      | 25        | 21.23                   | 21.28                   | 21.49                   | 1                   |
|                                                      |            | 50      | 0         | 21.29                   | 21.31                   | 21.44                   | 1                   |
|                                                      | 16QAM      | 1       | 0         | 21.20                   | 21.25                   | 21.33                   | 1                   |
|                                                      |            | 1       | 24        | 21.07                   | 21.40                   | <b>21.50</b>            | 1                   |
|                                                      |            | 1       | 49        | 21.07                   | 21.15                   | 21.32                   | 1                   |
|                                                      |            | 25      | 0         | 20.20                   | 20.29                   | 20.42                   | 2                   |
|                                                      |            | 25      | 12        | 20.19                   | 20.27                   | 20.46                   | 2                   |
|                                                      |            | 25      | 25        | 20.20                   | 20.25                   | 20.46                   | 2                   |
|                                                      |            | 50      | 0         | 20.26                   | 20.28                   | 20.41                   | 2                   |
| EUT with Power Reduction (P-Sensor Triggered)        |            |         |           |                         |                         |                         |                     |
| 4 / 10M                                              | QPSK       | 1       | 0         | 19.26                   | 19.44                   | 19.47                   | -                   |
|                                                      |            | 1       | 24        | 19.36                   | 19.40                   | 19.56                   | -                   |
|                                                      |            | 1       | 49        | 19.28                   | 19.31                   | <b>19.59</b>            | -                   |
|                                                      |            | 25      | 0         | 18.30                   | 18.44                   | 18.53                   | -                   |
|                                                      |            | 25      | 12        | 18.31                   | 18.46                   | 18.47                   | -                   |
|                                                      |            | 25      | 25        | 18.26                   | 18.43                   | 18.56                   | -                   |
|                                                      |            | 50      | 0         | 18.29                   | 18.48                   | 18.49                   | -                   |
|                                                      | 16QAM      | 1       | 0         | 18.16                   | 18.34                   | 18.37                   | -                   |
|                                                      |            | 1       | 24        | 18.26                   | 18.30                   | 18.46                   | -                   |
|                                                      |            | 1       | 49        | 18.18                   | 18.21                   | <b>18.49</b>            | -                   |
|                                                      |            | 25      | 0         | 17.20                   | 17.34                   | 17.43                   | -                   |
|                                                      |            | 25      | 12        | 17.21                   | 17.36                   | 17.37                   | -                   |
|                                                      |            | 25      | 25        | 17.16                   | 17.33                   | 17.46                   | -                   |
|                                                      |            | 50      | 0         | 17.19                   | 17.38                   | 17.39                   | -                   |

# FCC SAR Test Report

A D T

| Band / BW                                            | Modulation | RB Size | RB Offset | Low CH<br>20425        | Mid CH<br>20525        | High CH<br>20625       | 3GPP<br>MPR<br>(dB) |
|------------------------------------------------------|------------|---------|-----------|------------------------|------------------------|------------------------|---------------------|
|                                                      |            |         |           | Frequency<br>826.5 MHz | Frequency<br>836.5 MHz | Frequency<br>846.5 MHz |                     |
| EUT without Power Reduction (P-Sensor NOT Triggered) |            |         |           |                        |                        |                        |                     |
| 5 / 5M                                               | QPSK       | 1       | 0         | 22.20                  | 21.86                  | 22.07                  | 0                   |
|                                                      |            | 1       | 12        | <b>22.25</b>           | 22.09                  | 22.24                  | 0                   |
|                                                      |            | 1       | 24        | 21.87                  | 22.08                  | 21.98                  | 0                   |
|                                                      |            | 12      | 0         | 21.23                  | 20.98                  | 21.16                  | 1                   |
|                                                      |            | 12      | 6         | 21.12                  | 20.95                  | 21.21                  | 1                   |
|                                                      |            | 12      | 13        | 21.03                  | 21.00                  | 20.99                  | 1                   |
|                                                      |            | 25      | 0         | 21.11                  | 20.97                  | 21.13                  | 1                   |
|                                                      | 16QAM      | 1       | 0         | 21.22                  | 20.88                  | 21.09                  | 1                   |
|                                                      |            | 1       | 12        | <b>21.27</b>           | 21.11                  | 21.26                  | 1                   |
|                                                      |            | 1       | 24        | 20.89                  | 21.10                  | 21.00                  | 1                   |
|                                                      |            | 12      | 0         | 20.25                  | 20.00                  | 20.18                  | 2                   |
|                                                      |            | 12      | 6         | 20.14                  | 19.97                  | 20.23                  | 2                   |
|                                                      |            | 12      | 13        | 20.05                  | 20.02                  | 20.01                  | 2                   |
|                                                      |            | 25      | 0         | 20.13                  | 19.99                  | 20.15                  | 2                   |
| EUT with Power Reduction (P-Sensor Triggered)        |            |         |           |                        |                        |                        |                     |
| 5 / 5M                                               | QPSK       | 1       | 0         | <b>20.53</b>           | 20.37                  | 20.31                  | -                   |
|                                                      |            | 1       | 12        | 20.52                  | 20.49                  | 20.43                  | -                   |
|                                                      |            | 1       | 24        | 20.50                  | 20.31                  | 20.30                  | -                   |
|                                                      |            | 12      | 0         | 19.51                  | 19.44                  | 19.31                  | -                   |
|                                                      |            | 12      | 6         | 19.49                  | 19.44                  | 19.29                  | -                   |
|                                                      |            | 12      | 13        | 19.50                  | 19.41                  | 19.36                  | -                   |
|                                                      |            | 25      | 0         | 19.49                  | 19.47                  | 19.34                  | -                   |
|                                                      | 16QAM      | 1       | 0         | <b>19.49</b>           | 19.33                  | 19.27                  | -                   |
|                                                      |            | 1       | 12        | 19.48                  | 19.45                  | 19.39                  | -                   |
|                                                      |            | 1       | 24        | 19.46                  | 19.27                  | 19.26                  | -                   |
|                                                      |            | 12      | 0         | 18.47                  | 18.40                  | 18.27                  | -                   |
|                                                      |            | 12      | 6         | 18.45                  | 18.40                  | 18.25                  | -                   |
|                                                      |            | 12      | 13        | 18.46                  | 18.37                  | 18.32                  | -                   |
|                                                      |            | 25      | 0         | 18.45                  | 18.43                  | 18.30                  | -                   |

# FCC SAR Test Report

A D T

| Band / BW                                            | Modulation | RB Size | RB Offset | Low CH<br>20450        | Mid CH<br>20525        | High CH<br>20600       | 3GPP<br>MPR<br>(dB) |
|------------------------------------------------------|------------|---------|-----------|------------------------|------------------------|------------------------|---------------------|
|                                                      |            |         |           | Frequency<br>829.0 MHz | Frequency<br>836.5 MHz | Frequency<br>844.0 MHz |                     |
| EUT without Power Reduction (P-Sensor NOT Triggered) |            |         |           |                        |                        |                        |                     |
| 5 / 10M                                              | QPSK       | 1       | 0         | 22.26                  | 21.92                  | 22.13                  | 0                   |
|                                                      |            | 1       | 24        | <b>22.31</b>           | 22.15                  | 22.30                  | 0                   |
|                                                      |            | 1       | 49        | 21.93                  | 22.14                  | 22.04                  | 0                   |
|                                                      |            | 25      | 0         | 21.29                  | 21.04                  | 21.22                  | 1                   |
|                                                      |            | 25      | 12        | 21.18                  | 21.01                  | 21.27                  | 1                   |
|                                                      |            | 25      | 25        | 21.09                  | 21.06                  | 21.05                  | 1                   |
|                                                      |            | 50      | 0         | 21.17                  | 21.03                  | 21.19                  | 1                   |
|                                                      | 16QAM      | 1       | 0         | 21.23                  | 20.89                  | 21.10                  | 1                   |
|                                                      |            | 1       | 24        | <b>21.28</b>           | 21.12                  | 21.27                  | 1                   |
|                                                      |            | 1       | 49        | 20.90                  | 21.11                  | 21.01                  | 1                   |
|                                                      |            | 25      | 0         | 20.26                  | 20.01                  | 20.19                  | 2                   |
|                                                      |            | 25      | 12        | 20.15                  | 19.98                  | 20.24                  | 2                   |
|                                                      |            | 25      | 25        | 20.06                  | 20.03                  | 20.02                  | 2                   |
|                                                      |            | 50      | 0         | 20.14                  | 20.00                  | 20.16                  | 2                   |
| EUT with Power Reduction (P-Sensor Triggered)        |            |         |           |                        |                        |                        |                     |
| 5 / 10M                                              | QPSK       | 1       | 0         | <b>20.64</b>           | 20.48                  | 20.42                  | -                   |
|                                                      |            | 1       | 24        | 20.63                  | 20.60                  | 20.54                  | -                   |
|                                                      |            | 1       | 49        | 20.61                  | 20.42                  | 20.41                  | -                   |
|                                                      |            | 25      | 0         | 19.62                  | 19.55                  | 19.42                  | -                   |
|                                                      |            | 25      | 12        | 19.60                  | 19.55                  | 19.40                  | -                   |
|                                                      |            | 25      | 25        | 19.61                  | 19.52                  | 19.47                  | -                   |
|                                                      |            | 50      | 0         | 19.60                  | 19.58                  | 19.45                  | -                   |
|                                                      | 16QAM      | 1       | 0         | <b>19.60</b>           | 19.44                  | 19.38                  | -                   |
|                                                      |            | 1       | 24        | 19.59                  | 19.56                  | 19.50                  | -                   |
|                                                      |            | 1       | 49        | 19.57                  | 19.38                  | 19.37                  | -                   |
|                                                      |            | 25      | 0         | 18.58                  | 18.51                  | 18.38                  | -                   |
|                                                      |            | 25      | 12        | 18.56                  | 18.51                  | 18.36                  | -                   |
|                                                      |            | 25      | 25        | 18.57                  | 18.48                  | 18.43                  | -                   |
|                                                      |            | 50      | 0         | 18.56                  | 18.54                  | 18.41                  | -                   |

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| Band / BW                                            | Modulation | RB Size | RB Offset | Low CH<br>20775         | Mid CH<br>21100         | High CH<br>21425        | 3GPP<br>MPR<br>(dB) |
|------------------------------------------------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|---------------------|
|                                                      |            |         |           | Frequency<br>2502.5 MHz | Frequency<br>2535.0 MHz | Frequency<br>2567.5 MHz |                     |
| EUT without Power Reduction (P-Sensor NOT Triggered) |            |         |           |                         |                         |                         |                     |
| 7 / 5M                                               | QPSK       | 1       | 0         | 20.32                   | 20.01                   | 20.04                   | 0                   |
|                                                      |            | 1       | 12        | <b>20.40</b>            | 20.09                   | 20.22                   | 0                   |
|                                                      |            | 1       | 24        | 20.29                   | 19.90                   | 20.20                   | 0                   |
|                                                      |            | 12      | 0         | 19.42                   | 19.19                   | 19.22                   | 1                   |
|                                                      |            | 12      | 6         | 19.49                   | 19.17                   | 19.24                   | 1                   |
|                                                      |            | 12      | 13        | 19.40                   | 19.12                   | 19.25                   | 1                   |
|                                                      |            | 25      | 0         | 19.44                   | 19.14                   | 19.25                   | 1                   |
|                                                      | 16QAM      | 1       | 0         | 19.31                   | 19.00                   | 19.03                   | 1                   |
|                                                      |            | 1       | 12        | <b>19.39</b>            | 19.08                   | 19.21                   | 1                   |
|                                                      |            | 1       | 24        | 19.28                   | 18.89                   | 19.19                   | 1                   |
|                                                      |            | 12      | 0         | 18.41                   | 18.18                   | 18.21                   | 2                   |
|                                                      |            | 12      | 6         | 18.48                   | 18.16                   | 18.23                   | 2                   |
|                                                      |            | 12      | 13        | 18.39                   | 18.11                   | 18.24                   | 2                   |
|                                                      |            | 25      | 0         | 18.43                   | 18.13                   | 18.24                   | 2                   |
| EUT with Power Reduction (P-Sensor Triggered)        |            |         |           |                         |                         |                         |                     |
| 7 / 5M                                               | QPSK       | 1       | 0         | <b>11.60</b>            | 11.26                   | 11.00                   | -                   |
|                                                      |            | 1       | 12        | 11.57                   | 11.51                   | 11.43                   | -                   |
|                                                      |            | 1       | 24        | 11.56                   | 11.47                   | 11.39                   | -                   |
|                                                      |            | 12      | 0         | 11.17                   | 11.01                   | 10.93                   | -                   |
|                                                      |            | 12      | 6         | 11.24                   | 11.38                   | 10.89                   | -                   |
|                                                      |            | 12      | 13        | 11.29                   | 11.02                   | 10.97                   | -                   |
|                                                      |            | 25      | 0         | 11.02                   | 10.96                   | 10.85                   | -                   |
|                                                      | 16QAM      | 1       | 0         | <b>10.50</b>            | 10.16                   | 9.90                    | -                   |
|                                                      |            | 1       | 12        | 10.47                   | 10.41                   | 10.33                   | -                   |
|                                                      |            | 1       | 24        | 10.46                   | 10.37                   | 10.29                   | -                   |
|                                                      |            | 12      | 0         | 10.07                   | 9.91                    | 9.83                    | -                   |
|                                                      |            | 12      | 6         | 10.14                   | 10.28                   | 9.79                    | -                   |
|                                                      |            | 12      | 13        | 10.19                   | 9.92                    | 9.87                    | -                   |
|                                                      |            | 25      | 0         | 9.92                    | 9.86                    | 9.75                    | -                   |

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A D T

| Band / BW                                            | Modulation | RB Size | RB Offset | Low CH<br>20800         | Mid CH<br>21100         | High CH<br>21400        | 3GPP<br>MPR<br>(dB) |
|------------------------------------------------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|---------------------|
|                                                      |            |         |           | Frequency<br>2505.0 MHz | Frequency<br>2535.0 MHz | Frequency<br>2565.0 MHz |                     |
| EUT without Power Reduction (P-Sensor NOT Triggered) |            |         |           |                         |                         |                         |                     |
| 7 / 10M                                              | QPSK       | 1       | 0         | 20.44                   | 20.13                   | 20.16                   | 0                   |
|                                                      |            | 1       | 24        | <b>20.52</b>            | 20.21                   | 20.34                   | 0                   |
|                                                      |            | 1       | 49        | 20.41                   | 20.02                   | 20.32                   | 0                   |
|                                                      |            | 25      | 0         | 19.54                   | 19.31                   | 19.34                   | 1                   |
|                                                      |            | 25      | 12        | 19.58                   | 19.29                   | 19.36                   | 1                   |
|                                                      |            | 25      | 25        | 19.52                   | 19.24                   | 19.37                   | 1                   |
|                                                      |            | 50      | 0         | 19.56                   | 19.26                   | 19.37                   | 1                   |
|                                                      | 16QAM      | 1       | 0         | 19.43                   | 19.12                   | 19.15                   | 1                   |
|                                                      |            | 1       | 24        | <b>19.51</b>            | 19.20                   | 19.33                   | 1                   |
|                                                      |            | 1       | 49        | 19.40                   | 19.01                   | 19.31                   | 1                   |
|                                                      |            | 25      | 0         | 18.53                   | 18.30                   | 18.33                   | 2                   |
|                                                      |            | 25      | 12        | 18.60                   | 18.28                   | 18.35                   | 2                   |
|                                                      |            | 25      | 25        | 18.51                   | 18.23                   | 18.36                   | 2                   |
|                                                      |            | 50      | 0         | 18.55                   | 18.25                   | 18.36                   | 2                   |
| EUT with Power Reduction (P-Sensor Triggered)        |            |         |           |                         |                         |                         |                     |
| 7 / 10M                                              | QPSK       | 1       | 0         | <b>11.72</b>            | 11.38                   | 11.12                   | -                   |
|                                                      |            | 1       | 24        | 11.69                   | 11.63                   | 11.55                   | -                   |
|                                                      |            | 1       | 49        | 11.68                   | 11.59                   | 11.51                   | -                   |
|                                                      |            | 25      | 0         | 10.29                   | 10.13                   | 10.05                   | -                   |
|                                                      |            | 25      | 12        | 10.36                   | 10.50                   | 10.01                   | -                   |
|                                                      |            | 25      | 25        | 10.41                   | 10.14                   | 10.09                   | -                   |
|                                                      |            | 50      | 0         | 10.14                   | 10.08                   | 9.97                    | -                   |
|                                                      | 16QAM      | 1       | 0         | <b>10.62</b>            | 10.28                   | 10.02                   | -                   |
|                                                      |            | 1       | 24        | 10.59                   | 10.53                   | 10.45                   | -                   |
|                                                      |            | 1       | 49        | 10.58                   | 10.49                   | 10.41                   | -                   |
|                                                      |            | 25      | 0         | 10.19                   | 10.03                   | 9.95                    | -                   |
|                                                      |            | 25      | 12        | 10.26                   | 10.40                   | 9.91                    | -                   |
|                                                      |            | 25      | 25        | 10.31                   | 10.04                   | 9.99                    | -                   |
|                                                      |            | 50      | 0         | 10.04                   | 9.98                    | 9.87                    | -                   |

# FCC SAR Test Report

A D T

| Band / BW                                            | Modulation | RB Size | RB Offset | Low CH<br>23755        | Mid CH<br>23790        | High CH<br>23825       | 3GPP<br>MPR<br>(dB) |
|------------------------------------------------------|------------|---------|-----------|------------------------|------------------------|------------------------|---------------------|
|                                                      |            |         |           | Frequency<br>706.5 MHz | Frequency<br>710.0 MHz | Frequency<br>713.5 MHz |                     |
| EUT without Power Reduction (P-Sensor NOT Triggered) |            |         |           |                        |                        |                        |                     |
| 17 / 5M                                              | QPSK       | 1       | 0         | 22.02                  | 21.98                  | 21.97                  | 0                   |
|                                                      |            | 1       | 12        | <b>22.28</b>           | 22.25                  | 22.24                  | 0                   |
|                                                      |            | 1       | 24        | 22.06                  | 21.91                  | 21.89                  | 0                   |
|                                                      |            | 12      | 0         | 21.14                  | 21.22                  | 21.23                  | 1                   |
|                                                      |            | 12      | 6         | 21.24                  | 21.21                  | 21.22                  | 1                   |
|                                                      |            | 12      | 13        | 21.25                  | 21.19                  | 21.16                  | 1                   |
|                                                      |            | 25      | 0         | 21.27                  | 21.20                  | 21.13                  | 1                   |
|                                                      | 16QAM      | 1       | 0         | 20.99                  | 20.95                  | 20.94                  | 1                   |
|                                                      |            | 1       | 12        | <b>21.25</b>           | 21.22                  | 21.21                  | 1                   |
|                                                      |            | 1       | 24        | 21.03                  | 20.88                  | 20.86                  | 1                   |
|                                                      |            | 12      | 0         | 20.11                  | 20.19                  | 20.20                  | 2                   |
|                                                      |            | 12      | 6         | 20.21                  | 20.18                  | 20.19                  | 2                   |
|                                                      |            | 12      | 13        | 20.22                  | 20.16                  | 20.13                  | 2                   |
|                                                      |            | 25      | 0         | 20.24                  | 20.17                  | 20.10                  | 2                   |
| EUT with Power Reduction (P-Sensor Triggered)        |            |         |           |                        |                        |                        |                     |
| 17 / 5M                                              | QPSK       | 1       | 0         | 21.08                  | 21.09                  | 21.07                  | -                   |
|                                                      |            | 1       | 12        | 21.31                  | <b>21.40</b>           | 21.30                  | -                   |
|                                                      |            | 1       | 24        | 21.18                  | 21.20                  | 21.17                  | -                   |
|                                                      |            | 12      | 0         | 20.32                  | 20.33                  | 20.27                  | -                   |
|                                                      |            | 12      | 6         | 20.34                  | 20.35                  | 20.33                  | -                   |
|                                                      |            | 12      | 13        | 20.37                  | 20.38                  | 20.24                  | -                   |
|                                                      |            | 25      | 0         | 20.34                  | 20.37                  | 20.30                  | -                   |
|                                                      | 16QAM      | 1       | 0         | 20.06                  | 20.07                  | 20.05                  | -                   |
|                                                      |            | 1       | 12        | 20.29                  | <b>20.38</b>           | 20.28                  | -                   |
|                                                      |            | 1       | 24        | 20.16                  | 20.18                  | 20.15                  | -                   |
|                                                      |            | 12      | 0         | 19.30                  | 19.31                  | 19.25                  | -                   |
|                                                      |            | 12      | 6         | 19.32                  | 19.33                  | 19.31                  | -                   |
|                                                      |            | 12      | 13        | 19.35                  | 19.36                  | 19.22                  | -                   |
|                                                      |            | 25      | 0         | 19.32                  | 19.35                  | 19.28                  | -                   |

# FCC SAR Test Report

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| Band / BW                                            | Modulation | RB Size | RB Offset | Low CH<br>23780        | Mid CH<br>23790        | High CH<br>23800       | 3GPP<br>MPR<br>(dB) |
|------------------------------------------------------|------------|---------|-----------|------------------------|------------------------|------------------------|---------------------|
|                                                      |            |         |           | Frequency<br>709.0 MHz | Frequency<br>710.0 MHz | Frequency<br>711.0 MHz |                     |
| EUT without Power Reduction (P-Sensor NOT Triggered) |            |         |           |                        |                        |                        |                     |
| 17 / 10M                                             | QPSK       | 1       | 0         | 22.06                  | 22.02                  | 22.01                  | 0                   |
|                                                      |            | 1       | 24        | <b>22.32</b>           | 22.29                  | 22.28                  | 0                   |
|                                                      |            | 1       | 49        | 22.10                  | 21.95                  | 21.93                  | 0                   |
|                                                      |            | 25      | 0         | 21.18                  | 21.26                  | 21.27                  | 1                   |
|                                                      |            | 25      | 12        | 21.28                  | 21.25                  | 21.26                  | 1                   |
|                                                      |            | 25      | 25        | 21.29                  | 21.23                  | 21.20                  | 1                   |
|                                                      |            | 50      | 0         | 21.31                  | 21.24                  | 21.17                  | 1                   |
|                                                      | 16QAM      | 1       | 0         | 21.01                  | 20.97                  | 20.96                  | 1                   |
|                                                      |            | 1       | 24        | <b>21.27</b>           | 21.24                  | 21.23                  | 1                   |
|                                                      |            | 1       | 49        | 21.05                  | 20.90                  | 20.88                  | 1                   |
|                                                      |            | 25      | 0         | 20.13                  | 20.21                  | 20.22                  | 2                   |
|                                                      |            | 25      | 12        | 20.23                  | 20.20                  | 20.21                  | 2                   |
|                                                      |            | 25      | 25        | 20.24                  | 20.18                  | 20.15                  | 2                   |
|                                                      |            | 50      | 0         | 20.26                  | 20.19                  | 20.12                  | 2                   |
| EUT with Power Reduction (P-Sensor Triggered)        |            |         |           |                        |                        |                        |                     |
| 17 / 10M                                             | QPSK       | 1       | 0         | 21.22                  | 21.23                  | 21.21                  | -                   |
|                                                      |            | 1       | 24        | 21.45                  | <b>21.54</b>           | 21.44                  | -                   |
|                                                      |            | 1       | 49        | 21.32                  | 21.34                  | 21.31                  | -                   |
|                                                      |            | 25      | 0         | 20.46                  | 20.47                  | 20.41                  | -                   |
|                                                      |            | 25      | 12        | 20.48                  | 20.49                  | 20.47                  | -                   |
|                                                      |            | 25      | 25        | 20.51                  | 20.52                  | 20.38                  | -                   |
|                                                      |            | 50      | 0         | 20.48                  | 20.51                  | 20.44                  | -                   |
|                                                      | 16QAM      | 1       | 0         | 20.20                  | 20.21                  | 20.19                  | -                   |
|                                                      |            | 1       | 24        | 20.43                  | <b>20.52</b>           | 20.42                  | -                   |
|                                                      |            | 1       | 49        | 20.30                  | 20.32                  | 20.29                  | -                   |
|                                                      |            | 25      | 0         | 19.44                  | 19.45                  | 19.39                  | -                   |
|                                                      |            | 25      | 12        | 19.46                  | 19.47                  | 19.45                  | -                   |
|                                                      |            | 25      | 25        | 19.49                  | 19.50                  | 19.36                  | -                   |
|                                                      |            | 50      | 0         | 19.46                  | 19.49                  | 19.42                  | -                   |

# FCC SAR Test Report

A D T

## <Handset Mode, WLAN 2.4G>

| Mode                      | 802.11b        |          |           |
|---------------------------|----------------|----------|-----------|
| Channel / Frequency (MHz) | 1 (2412)       | 6 (2437) | 11 (2462) |
| Average Power             | 14.41          | 13.61    | 13.46     |
| Mode                      | 802.11g        |          |           |
| Channel / Frequency (MHz) | 1 (2412)       | 6 (2437) | 11 (2462) |
| Average Power             | 13.29          | 14.00    | 12.22     |
| Mode                      | 802.11n (HT20) |          |           |
| Channel / Frequency (MHz) | 1 (2412)       | 6 (2437) | 11 (2462) |
| Average Power             | 12.47          | 13.48    | 12.13     |

## <Handset Mode, WLAN 5.2G>

| Mode                      | 802.11a          |           |           |           |
|---------------------------|------------------|-----------|-----------|-----------|
| Channel / Frequency (MHz) | 36 (5180)        | 40 (5200) | 44 (5220) | 48 (5240) |
| Average Power             | 15.16            | 14.74     | 15.08     | 15.25     |
| Mode                      | 802.11n (HT20)   |           |           |           |
| Channel / Frequency (MHz) | 36 (5180)        | 40 (5200) | 44 (5220) | 48 (5240) |
| Average Power             | 15.29            | 14.74     | 15.33     | 15.27     |
| Mode                      | 802.11n (HT40)   |           |           |           |
| Channel / Frequency (MHz) | 38 (5190)        |           | 46 (5230) |           |
| Average Power             | 14.10            |           | 14.22     |           |
| Mode                      | 802.11ac (VHT80) |           |           |           |
| Channel / Frequency (MHz) | 42 (5210)        |           |           |           |
| Average Power             | 12.94            |           |           |           |

## <Handset Mode, WLAN 5.3G>

| Mode                      | 802.11a          |           |           |           |
|---------------------------|------------------|-----------|-----------|-----------|
| Channel / Frequency (MHz) | 52 (5260)        | 56 (5280) | 60 (5300) | 64 (5320) |
| Average Power             | 15.09            | 14.84     | 15.08     | 14.93     |
| Mode                      | 802.11n (HT20)   |           |           |           |
| Channel / Frequency (MHz) | 52 (5260)        | 56 (5280) | 60 (5300) | 64 (5320) |
| Average Power             | 14.94            | 14.87     | 15.04     | 14.95     |
| Mode                      | 802.11n (HT40)   |           |           |           |
| Channel / Frequency (MHz) | 54 (5270)        |           | 62 (5310) |           |
| Average Power             | 14.04            |           | 14.09     |           |
| Mode                      | 802.11ac (VHT80) |           |           |           |
| Channel / Frequency (MHz) | 58 (5290)        |           |           |           |
| Average Power             | 13.15            |           |           |           |

## <Handset Mode, WLAN 5.6G>

| Mode                      | 802.11a          |            |            |            |            |            |            |            |
|---------------------------|------------------|------------|------------|------------|------------|------------|------------|------------|
| Channel / Frequency (MHz) | 100 (5500)       | 104 (5520) | 108 (5540) | 112 (5560) | 116 (5580) | 132 (5660) | 136 (5680) | 140 (5700) |
| Average Power             | 15.16            | 14.92      | 14.82      | 14.91      | 15.31      | 15.10      | 15.23      | 15.32      |
| Mode                      | 802.11n (HT20)   |            |            |            |            |            |            |            |
| Channel / Frequency (MHz) | 100 (5500)       | 104 (5520) | 108 (5540) | 112 (5560) | 116 (5580) | 132 (5660) | 136 (5680) | 140 (5700) |
| Average Power             | 15.19            | 15.03      | 14.90      | 15.01      | 15.21      | 15.18      | 15.23      | 15.43      |
| Mode                      | 802.11n (HT40)   |            |            |            |            |            |            |            |
| Channel / Frequency (MHz) | 102 (5510)       |            |            |            | 134 (5670) |            |            |            |
| Average Power             | 14.23            |            |            |            | 14.27      |            |            |            |
| Mode                      | 802.11ac (VHT80) |            |            |            |            |            |            |            |
| Channel / Frequency (MHz) | 106 (5530)       |            |            |            |            |            |            |            |
| Average Power             | 12.90            |            |            |            |            |            |            |            |

## <Handset Mode, WLAN 5.8G>

| Mode                      | 802.11a          |            |            |            |
|---------------------------|------------------|------------|------------|------------|
| Channel / Frequency (MHz) | 149 (5745)       | 153 (5765) | 157 (5785) | 161 (5805) |
| Average Power             | 14.75            | 15.19      | 15.24      | 15.33      |
| Mode                      | 802.11n (HT20)   |            |            |            |
| Channel / Frequency (MHz) | 149 (5745)       | 153 (5765) | 157 (5785) | 161 (5805) |
| Average Power             | 15.08            | 15.18      | 15.27      | 15.33      |
| Mode                      | 802.11n (HT40)   |            |            |            |
| Channel / Frequency (MHz) | 151 (5755)       |            | 159 (5795) |            |
| Average Power             | 13.99            |            | 14.17      |            |
| Mode                      | 802.11ac (VHT80) |            |            |            |
| Channel / Frequency (MHz) | 155 (5775)       |            |            |            |
| Average Power             | 12.95            |            |            |            |

## <Tablet PC Mode, WLAN 2.4G>

| Mode                      | 802.11b        |          |           |
|---------------------------|----------------|----------|-----------|
| Channel / Frequency (MHz) | 1 (2412)       | 6 (2437) | 11 (2462) |
| Average Power             | 14.41          | 13.61    | 13.46     |
| Mode                      | 802.11g        |          |           |
| Channel / Frequency (MHz) | 1 (2412)       | 6 (2437) | 11 (2462) |
| Average Power             | 13.29          | 14.00    | 12.22     |
| Mode                      | 802.11n (HT20) |          |           |
| Channel / Frequency (MHz) | 1 (2412)       | 6 (2437) | 11 (2462) |
| Average Power             | 12.47          | 13.48    | 12.13     |

## <Tablet PC Mode, WLAN 5.2G>

| Mode                      | 802.11a          |           |           |           |
|---------------------------|------------------|-----------|-----------|-----------|
| Channel / Frequency (MHz) | 36 (5180)        | 40 (5200) | 44 (5220) | 48 (5240) |
| Average Power             | 9.72             | 9.51      | 10.10     | 10.34     |
| Mode                      | 802.11n (HT20)   |           |           |           |
| Channel / Frequency (MHz) | 36 (5180)        | 40 (5200) | 44 (5220) | 48 (5240) |
| Average Power             | 9.91             | 9.63      | 10.01     | 10.20     |
| Mode                      | 802.11n (HT40)   |           |           |           |
| Channel / Frequency (MHz) | 38 (5190)        |           | 46 (5230) |           |
| Average Power             | 9.76             |           | 10.15     |           |
| Mode                      | 802.11ac (VHT80) |           |           |           |
| Channel / Frequency (MHz) | 42 (5210)        |           |           |           |
| Average Power             | 9.33             |           |           |           |

## <Tablet PC Mode, WLAN 5.3G>

| Mode                      | 802.11a          |           |           |           |
|---------------------------|------------------|-----------|-----------|-----------|
| Channel / Frequency (MHz) | 52 (5260)        | 56 (5280) | 60 (5300) | 64 (5320) |
| Average Power             | 9.56             | 9.47      | 9.49      | 9.12      |
| Mode                      | 802.11n (HT20)   |           |           |           |
| Channel / Frequency (MHz) | 52 (5260)        | 56 (5280) | 60 (5300) | 64 (5320) |
| Average Power             | 9.49             | 9.50      | 9.53      | 9.09      |
| Mode                      | 802.11n (HT40)   |           |           |           |
| Channel / Frequency (MHz) | 54 (5270)        |           | 62 (5310) |           |
| Average Power             | 9.43             |           | 9.32      |           |
| Mode                      | 802.11ac (VHT80) |           |           |           |
| Channel / Frequency (MHz) | 58 (5290)        |           |           |           |
| Average Power             | 9.97             |           |           |           |

## <Tablet PC Mode, WLAN 5.6G>

| Mode                      | 802.11a          |            |            |            |            |            |            |            |
|---------------------------|------------------|------------|------------|------------|------------|------------|------------|------------|
| Channel / Frequency (MHz) | 100 (5500)       | 104 (5520) | 108 (5540) | 112 (5560) | 116 (5580) | 132 (5660) | 136 (5680) | 140 (5700) |
| Average Power             | 11.43            | 11.29      | 11.33      | 11.40      | 11.59      | 11.55      | 11.56      | 11.97      |
| Mode                      | 802.11n (HT20)   |            |            |            |            |            |            |            |
| Channel / Frequency (MHz) | 100 (5500)       | 104 (5520) | 108 (5540) | 112 (5560) | 116 (5580) | 132 (5660) | 136 (5680) | 140 (5700) |
| Average Power             | 11.40            | 11.47      | 11.35      | 11.46      | 11.54      | 11.52      | 11.68      | 11.88      |
| Mode                      | 802.11n (HT40)   |            |            |            |            |            |            |            |
| Channel / Frequency (MHz) | 102 (5510)       |            |            |            | 134 (5670) |            |            |            |
| Average Power             | 11.35            |            |            |            | 11.71      |            |            |            |
| Mode                      | 802.11ac (VHT80) |            |            |            |            |            |            |            |
| Channel / Frequency (MHz) | 106 (5530)       |            |            |            |            |            |            |            |
| Average Power             | 11.77            |            |            |            |            |            |            |            |

## <Tablet PC Mode, WLAN 5.8G>

| Mode                      | 802.11a          |            |            |            |
|---------------------------|------------------|------------|------------|------------|
| Channel / Frequency (MHz) | 149 (5745)       | 153 (5765) | 157 (5785) | 161 (5805) |
| Average Power             | 11.58            | 11.79      | 11.93      | 12.08      |
| Mode                      | 802.11n (HT20)   |            |            |            |
| Channel / Frequency (MHz) | 149 (5745)       | 153 (5765) | 157 (5785) | 161 (5805) |
| Average Power             | 11.71            | 11.87      | 11.95      | 12.01      |
| Mode                      | 802.11n (HT40)   |            |            |            |
| Channel / Frequency (MHz) | 151 (5755)       |            | 159 (5795) |            |
| Average Power             | 11.76            |            | 11.95      |            |
| Mode                      | 802.11ac (VHT80) |            |            |            |
| Channel / Frequency (MHz) | 155 (5775)       |            |            |            |
| Average Power             | 12.03            |            |            |            |

| Mode                      | Bluetooth |           |           |
|---------------------------|-----------|-----------|-----------|
| Channel / Frequency (MHz) | 0 (2402)  | 39 (2441) | 78 (2480) |
| Average Power             | 10.33     | 10.14     | 10.03     |

## 4.7 SAR Testing Results

### 4.7.1 SAR Results for Head (for Handset Mode)

| Plot No. | Band     | Mode     | Test Position | Ch.  | EUT Config. | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------|----------|---------------|------|-------------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| 01       | GSM850   | GPRS10   | Right Cheek   | 251  | 1           | 32.0                     | 31.90                          | 1.02           | -0.01            | 0.284                  | 0.29                 |
|          | GSM850   | GPRS10   | Right Tilted  | 251  | 1           | 32.0                     | 31.90                          | 1.02           | -0.01            | 0.18                   | 0.18                 |
|          | GSM850   | GPRS10   | Left Cheek    | 251  | 1           | 32.0                     | 31.90                          | 1.02           | 0.09             | 0.242                  | 0.25                 |
|          | GSM850   | GPRS10   | Left Tilted   | 251  | 1           | 32.0                     | 31.90                          | 1.02           | -0.02            | 0.182                  | 0.19                 |
|          | GSM850   | GPRS10   | Right Cheek   | 251  | 2           | 32.0                     | 31.90                          | 1.02           | -0.03            | 0.282                  | 0.29                 |
|          | GSM1900  | GPRS10   | Right Cheek   | 810  | 1           | 29.5                     | 29.25                          | 1.06           | 0.19             | 0.241                  | 0.26                 |
|          | GSM1900  | GPRS10   | Right Tilted  | 810  | 1           | 29.5                     | 29.25                          | 1.06           | 0.09             | 0.173                  | 0.18                 |
|          | GSM1900  | GPRS10   | Left Cheek    | 810  | 1           | 29.5                     | 29.25                          | 1.06           | 0.02             | 0.439                  | 0.47                 |
|          | GSM1900  | GPRS10   | Left Tilted   | 810  | 1           | 29.5                     | 29.25                          | 1.06           | 0.04             | 0.102                  | 0.11                 |
| 02       | GSM1900  | GPRS10   | Left Cheek    | 810  | 2           | 29.5                     | 29.25                          | 1.06           | 0.05             | 0.577                  | 0.61                 |
|          | WCDMA II | RMC12.2K | Right Cheek   | 9538 | 1           | 22.5                     | 22.32                          | 1.04           | 0.12             | 0.298                  | 0.31                 |
|          | WCDMA II | RMC12.2K | Right Tilted  | 9538 | 1           | 22.5                     | 22.32                          | 1.04           | 0.09             | 0.183                  | 0.19                 |
| 03       | WCDMA II | RMC12.2K | Left Cheek    | 9538 | 1           | 22.5                     | 22.32                          | 1.04           | 0.07             | 0.514                  | 0.54                 |
|          | WCDMA II | RMC12.2K | Left Tilted   | 9538 | 1           | 22.5                     | 22.32                          | 1.04           | 0.00             | 0.127                  | 0.13                 |
|          | WCDMA II | RMC12.2K | Left Cheek    | 9538 | 2           | 22.5                     | 22.32                          | 1.04           | 0.06             | 0.511                  | 0.53                 |
| 04       | WCDMA V  | RMC12.2K | Right Cheek   | 4233 | 1           | 23.0                     | 22.81                          | 1.04           | 0.10             | 0.169                  | 0.18                 |
|          | WCDMA V  | RMC12.2K | Right Tilted  | 4233 | 1           | 23.0                     | 22.81                          | 1.04           | -0.08            | 0.098                  | 0.10                 |
|          | WCDMA V  | RMC12.2K | Left Cheek    | 4233 | 1           | 23.0                     | 22.81                          | 1.04           | 0.16             | 0.141                  | 0.15                 |
|          | WCDMA V  | RMC12.2K | Left Tilted   | 4233 | 1           | 23.0                     | 22.81                          | 1.04           | 0.02             | 0.097                  | 0.10                 |
|          | WCDMA V  | RMC12.2K | Right Cheek   | 4233 | 2           | 23.0                     | 22.81                          | 1.04           | 0.12             | 0.163                  | 0.17                 |

#### Note:

- SAR is performed on the highest power channel. When the reported SAR value of highest power channel is  $\leq 0.8$  W/kg, SAR testing for optional channel is not required.
- Since GPRS/EDGE of this device supports VOIP capability through 3<sup>rd</sup> party apps software, we have evaluated data mode for head SAR.

# FCC SAR Test Report

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| Plot No. | Band   | Mode    | Test Position | Ch.   | EUT Config. | RB# | RB Offset | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|--------|---------|---------------|-------|-------------|-----|-----------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| 05       | LTE 2  | QPSK10M | Right Cheek   | 19150 | 1           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | -0.02            | 0.218                  | 0.22                 |
|          | LTE 2  | QPSK10M | Right Tilted  | 19150 | 1           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | -0.04            | 0.192                  | 0.19                 |
|          | LTE 2  | QPSK10M | Left Cheek    | 19150 | 1           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | 0.03             | 0.572                  | 0.58                 |
|          | LTE 2  | QPSK10M | Left Tilted   | 19150 | 1           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | -0.11            | 0.167                  | 0.17                 |
|          | LTE 2  | QPSK10M | Right Cheek   | 18650 | 1           | 25  | 12        | 21.6                     | 21.47                          | 1.03           | 0.07             | 0.174                  | 0.18                 |
|          | LTE 2  | QPSK10M | Right Tilted  | 18650 | 1           | 25  | 12        | 21.6                     | 21.47                          | 1.03           | -0.04            | 0.118                  | 0.12                 |
|          | LTE 2  | QPSK10M | Left Cheek    | 18650 | 1           | 25  | 12        | 21.6                     | 21.47                          | 1.03           | -0.03            | 0.546                  | 0.56                 |
|          | LTE 2  | QPSK10M | Left Tilted   | 18650 | 1           | 25  | 12        | 21.6                     | 21.47                          | 1.03           | -0.11            | 0.201                  | 0.21                 |
| 06       | LTE 2  | QPSK10M | Left Cheek    | 19150 | 2           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | -0.07            | 0.569                  | 0.57                 |
|          | LTE 4  | QPSK10M | Right Cheek   | 20350 | 1           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | -0.15            | 0.295                  | 0.30                 |
|          | LTE 4  | QPSK10M | Right Tilted  | 20350 | 1           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | -0.13            | 0.193                  | 0.20                 |
|          | LTE 4  | QPSK10M | Left Cheek    | 20350 | 1           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | 0.07             | 0.52                   | 0.53                 |
|          | LTE 4  | QPSK10M | Left Tilted   | 20350 | 1           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | -0.10            | 0.225                  | 0.23                 |
|          | LTE 4  | QPSK10M | Right Cheek   | 20350 | 1           | 25  | 12        | 21.6                     | 21.49                          | 1.03           | -0.16            | 0.249                  | 0.26                 |
|          | LTE 4  | QPSK10M | Right Tilted  | 20350 | 1           | 25  | 12        | 21.6                     | 21.49                          | 1.03           | 0.03             | 0.153                  | 0.16                 |
|          | LTE 4  | QPSK10M | Left Cheek    | 20350 | 1           | 25  | 12        | 21.6                     | 21.49                          | 1.03           | -0.09            | 0.422                  | 0.43                 |
| 07       | LTE 4  | QPSK10M | Left Tilted   | 20350 | 1           | 25  | 12        | 21.6                     | 21.49                          | 1.03           | -0.06            | 0.18                   | 0.18                 |
|          | LTE 4  | QPSK10M | Left Cheek    | 20350 | 2           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | 0.08             | 0.516                  | 0.52                 |
|          | LTE 5  | QPSK10M | Right Cheek   | 20450 | 1           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | 0.01             | 0.171                  | 0.17                 |
|          | LTE 5  | QPSK10M | Right Tilted  | 20450 | 1           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | 0.08             | 0.121                  | 0.12                 |
|          | LTE 5  | QPSK10M | Left Cheek    | 20450 | 1           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | 0.16             | 0.14                   | 0.14                 |
|          | LTE 5  | QPSK10M | Left Tilted   | 20450 | 1           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | 0.06             | 0.112                  | 0.11                 |
|          | LTE 5  | QPSK10M | Right Cheek   | 20450 | 1           | 25  | 0         | 21.4                     | 21.29                          | 1.03           | 0.06             | 0.14                   | 0.14                 |
|          | LTE 5  | QPSK10M | Right Tilted  | 20450 | 1           | 25  | 0         | 21.4                     | 21.29                          | 1.03           | 0.11             | 0.094                  | 0.10                 |
| 08       | LTE 5  | QPSK10M | Left Cheek    | 20450 | 1           | 25  | 0         | 21.4                     | 21.29                          | 1.03           | 0.10             | 0.109                  | 0.11                 |
|          | LTE 5  | QPSK10M | Left Tilted   | 20450 | 1           | 25  | 0         | 21.4                     | 21.29                          | 1.03           | 0.10             | 0.091                  | 0.09                 |
|          | LTE 5  | QPSK10M | Right Cheek   | 20450 | 2           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | 0.10             | 0.152                  | 0.16                 |
|          | LTE 7  | QPSK10M | Right Cheek   | 20800 | 1           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | -0.08            | 0.101                  | 0.10                 |
|          | LTE 7  | QPSK10M | Right Tilted  | 20800 | 1           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | 0.06             | 0.088                  | 0.09                 |
|          | LTE 7  | QPSK10M | Left Cheek    | 20800 | 1           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | -0.03            | 0.03                   | 0.03                 |
|          | LTE 7  | QPSK10M | Left Tilted   | 20800 | 1           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | -0.07            | 0.013                  | 0.01                 |
|          | LTE 7  | QPSK10M | Right Cheek   | 20800 | 1           | 25  | 12        | 19.6                     | 19.58                          | 1.00           | -0.04            | 0.051                  | 0.05                 |
| 09       | LTE 7  | QPSK10M | Right Tilted  | 20800 | 1           | 25  | 12        | 19.6                     | 19.58                          | 1.00           | -0.01            | 0.043                  | 0.04                 |
|          | LTE 7  | QPSK10M | Left Cheek    | 20800 | 1           | 25  | 12        | 19.6                     | 19.58                          | 1.00           | -0.05            | 0.07                   | 0.07                 |
|          | LTE 7  | QPSK10M | Left Tilted   | 20800 | 1           | 25  | 12        | 19.6                     | 19.58                          | 1.00           | -0.02            | 0.023                  | 0.02                 |
|          | LTE 7  | QPSK10M | Right Cheek   | 20800 | 2           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | -0.07            | 0.094                  | 0.10                 |
|          | LTE 17 | QPSK10M | Right Cheek   | 23780 | 1           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | -0.01            | 0.156                  | 0.16                 |
|          | LTE 17 | QPSK10M | Right Tilted  | 23780 | 1           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | -0.01            | 0.109                  | 0.11                 |
|          | LTE 17 | QPSK10M | Left Cheek    | 23780 | 1           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | -0.08            | 0.153                  | 0.16                 |
|          | LTE 17 | QPSK10M | Left Tilted   | 23780 | 1           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | 0.06             | 0.111                  | 0.11                 |
|          | LTE 17 | QPSK10M | Right Cheek   | 23780 | 1           | 25  | 25        | 21.4                     | 21.29                          | 1.03           | 0.19             | 0.127                  | 0.13                 |
|          | LTE 17 | QPSK10M | Right Tilted  | 23780 | 1           | 25  | 25        | 21.4                     | 21.29                          | 1.03           | -0.01            | 0.09                   | 0.09                 |
|          | LTE 17 | QPSK10M | Left Cheek    | 23780 | 1           | 25  | 25        | 21.4                     | 21.29                          | 1.03           | 0.02             | 0.126                  | 0.13                 |
|          | LTE 17 | QPSK10M | Left Tilted   | 23780 | 1           | 25  | 25        | 21.4                     | 21.29                          | 1.03           | -0.01            | 0.091                  | 0.09                 |
|          | LTE 17 | QPSK10M | Right Cheek   | 23780 | 2           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | 0.15             | 0.103                  | 0.10                 |

## Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

# FCC SAR Test Report

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| Plot No. | Band     | Mode | Test Position | Ch. | EUT Config. | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------|------|---------------|-----|-------------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| 10       | 802.11b  | -    | Right Cheek   | 1   | 1           | 14.5                     | 14.41                          | 1.02           | -0.02            | 0.567                  | <b>0.58</b>          |
|          | 802.11b  | -    | Right Tilted  | 1   | 1           | 14.5                     | 14.41                          | 1.02           | -0.01            | 0.292                  | 0.30                 |
|          | 802.11b  | -    | Left Cheek    | 1   | 1           | 14.5                     | 14.41                          | 1.02           | 0.08             | 0.199                  | 0.20                 |
|          | 802.11b  | -    | Left Tilted   | 1   | 1           | 14.5                     | 14.41                          | 1.02           | -0.05            | 0.143                  | 0.15                 |
|          | 802.11b  | -    | Right Cheek   | 1   | 2           | 14.5                     | 14.41                          | 1.02           | -0.07            | 0.539                  | 0.55                 |
| 11       | 802.11a  | -    | Right Cheek   | 48  | 1           | 15.5                     | 15.25                          | 1.06           | 0.06             | 0.808                  | <b>0.86</b>          |
|          | 802.11a  | -    | Right Tilted  | 48  | 1           | 15.5                     | 15.25                          | 1.06           | 0.10             | 0.645                  | 0.68                 |
|          | 802.11a  | -    | Left Cheek    | 48  | 1           | 15.5                     | 15.25                          | 1.06           | 0.01             | 0.438                  | 0.46                 |
|          | 802.11a  | -    | Left Tilted   | 48  | 1           | 15.5                     | 15.25                          | 1.06           | 0.03             | 0.428                  | 0.45                 |
|          | 802.11a  | -    | Right Cheek   | 36  | 1           | 15.5                     | 15.16                          | 1.08           | -0.05            | 0.727                  | 0.79                 |
|          | 802.11ac | VH80 | Right Cheek   | 42  | 1           | 13.0                     | 12.94                          | 1.01           | 0.03             | 0.229                  | 0.23                 |
|          | 802.11a  | -    | Right Cheek   | 48  | 2           | 15.5                     | 15.25                          | 1.06           | 0.04             | 0.6                    | 0.64                 |
|          | 802.11a  | -    | Right Cheek   | 48  | 1           | 15.5                     | 15.25                          | 1.06           | 0.02             | 0.8                    | 0.85                 |
| 12       | 802.11a  | -    | Right Cheek   | 52  | 1           | 15.1                     | 15.09                          | 1.00           | 0.19             | 0.975                  | <b>0.98</b>          |
|          | 802.11a  | -    | Right Tilted  | 52  | 1           | 15.1                     | 15.09                          | 1.00           | 0.06             | 0.563                  | 0.56                 |
|          | 802.11a  | -    | Left Cheek    | 52  | 1           | 15.1                     | 15.09                          | 1.00           | 0.05             | 0.321                  | 0.32                 |
|          | 802.11a  | -    | Left Tilted   | 52  | 1           | 15.1                     | 15.09                          | 1.00           | 0.07             | 0.324                  | 0.32                 |
|          | 802.11ac | VH80 | Right Cheek   | 58  | 1           | 13.5                     | 13.15                          | 1.08           | 0.16             | 0.37                   | 0.40                 |
|          | 802.11a  | -    | Right Cheek   | 52  | 2           | 15.1                     | 15.09                          | 1.00           | 0.02             | 0.591                  | 0.59                 |
|          | 802.11a  | -    | Right Cheek   | 52  | 1           | 15.1                     | 15.09                          | 1.00           | 0.10             | 0.966                  | 0.97                 |
| 13       | 802.11a  | -    | Right Cheek   | 140 | 1           | 15.5                     | 15.32                          | 1.04           | 0.03             | 0.621                  | <b>0.65</b>          |
|          | 802.11a  | -    | Right Tilted  | 140 | 1           | 15.5                     | 15.32                          | 1.04           | 0.15             | 0.537                  | 0.56                 |
|          | 802.11a  | -    | Left Cheek    | 140 | 1           | 15.5                     | 15.32                          | 1.04           | 0.00             | 0.455                  | 0.47                 |
|          | 802.11a  | -    | Left Tilted   | 140 | 1           | 15.5                     | 15.32                          | 1.04           | 0.00             | 0.43                   | 0.45                 |
|          | 802.11ac | VH80 | Right Cheek   | 106 | 1           | 13.0                     | 12.90                          | 1.02           | -0.01            | 0.23                   | 0.24                 |
|          | 802.11a  | -    | Right Cheek   | 140 | 2           | 15.5                     | 15.32                          | 1.04           | 0.02             | 0.266                  | 0.28                 |
| 14       | 802.11a  | -    | Right Cheek   | 161 | 1           | 15.5                     | 15.33                          | 1.04           | -0.10            | 0.608                  | <b>0.63</b>          |
|          | 802.11a  | -    | Right Tilted  | 161 | 1           | 15.5                     | 15.33                          | 1.04           | 0.12             | 0.543                  | 0.56                 |
|          | 802.11a  | -    | Left Cheek    | 161 | 1           | 15.5                     | 15.33                          | 1.04           | 0.15             | 0.406                  | 0.42                 |
|          | 802.11a  | -    | Left Tilted   | 161 | 1           | 15.5                     | 15.33                          | 1.04           | 0.19             | 0.377                  | 0.39                 |
|          | 802.11ac | VH80 | Right Cheek   | 155 | 1           | 13.0                     | 12.95                          | 1.01           | 0.05             | 0.178                  | 0.18                 |
|          | 802.11a  | -    | Right Cheek   | 161 | 2           | 15.5                     | 15.33                          | 1.04           | 0.07             | 0.34                   | 0.35                 |

## Note:

1. According to KDB 248227, when the extrapolated maximum peak SAR for the maximum output power channel is  $\leq 1.6$  W/kg and the 1g averaged SAR is  $\leq 0.8$  W/kg, WLAN SAR testing for other channels is not required.
2. SAR testing for 802.11g/n is not required when its maximum power is less than 1/4 dB higher than 802.11b.
3. SAR testing for 802.11n is not required when its maximum power is less than 1/4 dB higher than 802.11a.
4. According to April 2013 TCB Workshop, 802.11ac SAR testing is not required when its maximum power is less than 1/4 dB higher than 802.11a. 802.11ac SAR is required for the highest 802.11a configuration in each 5 GHz band and each exposure condition.

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## 4.7.2 SAR Results for Body-Worn (for Handset Mode, Separation Distance is 1.0 cm Gap)

| Plot No. | Band     | Mode     | Test Position | Ch.  | EUT Config. | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------|----------|---------------|------|-------------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
|          | GSM850   | GPRS10   | Front Face    | 251  | 1           | 32.0                     | 31.90                          | 1.02           | -0.11            | 0.312                  | 0.32                 |
| 15       | GSM850   | GPRS10   | Rear Face     | 251  | 1           | 32.0                     | 31.90                          | 1.02           | -0.11            | 0.653                  | 0.67                 |
|          | GSM850   | GPRS10   | Rear Face     | 251  | 2           | 32.0                     | 31.90                          | 1.02           | -0.04            | 0.451                  | 0.46                 |
|          | GSM1900  | GPRS10   | Front Face    | 810  | 1           | 29.5                     | 29.25                          | 1.06           | 0.03             | 0.62                   | 0.66                 |
|          | GSM1900  | GPRS10   | Rear Face     | 810  | 1           | 29.5                     | 29.25                          | 1.06           | 0.00             | 0.755                  | 0.80                 |
| 16       | GSM1900  | GPRS10   | Rear Face     | 512  | 1           | 29.5                     | 28.91                          | 1.15           | -0.10            | 1.03                   | 1.18                 |
|          | GSM1900  | GPRS10   | Rear Face     | 661  | 1           | 29.5                     | 29.01                          | 1.12           | -0.04            | 0.864                  | 0.97                 |
|          | GSM1900  | GPRS10   | Rear Face     | 512  | 2           | 29.5                     | 28.91                          | 1.15           | -0.12            | 0.693                  | 0.79                 |
|          | GSM1900  | GPRS10   | Rear Face     | 512  | 1           | 29.5                     | 28.91                          | 1.15           | -0.06            | 1                      | 1.15                 |
|          | WCDMA II | RMC12.2K | Front Face    | 9538 | 1           | 22.5                     | 22.32                          | 1.04           | 0.02             | 0.633                  | 0.66                 |
| 17       | WCDMA II | RMC12.2K | Rear Face     | 9538 | 1           | 22.5                     | 22.32                          | 1.04           | -0.18            | 0.634                  | 0.66                 |
|          | WCDMA II | RMC12.2K | Rear Face     | 9538 | 2           | 22.5                     | 22.32                          | 1.04           | -0.08            | 0.628                  | 0.65                 |
|          | WCDMA V  | RMC12.2K | Front Face    | 4233 | 1           | 23.0                     | 22.81                          | 1.04           | -0.12            | 0.194                  | 0.20                 |
| 18       | WCDMA V  | RMC12.2K | Rear Face     | 4233 | 1           | 23.0                     | 22.81                          | 1.04           | -0.06            | 0.298                  | 0.31                 |
|          | WCDMA V  | RMC12.2K | Rear Face     | 4233 | 2           | 23.0                     | 22.81                          | 1.04           | -0.03            | 0.291                  | 0.30                 |

### Note:

- SAR is performed on the highest power channel. When the reported SAR value of highest power channel is  $\leq 0.8$  W/kg, SAR testing for optional channel is not required.

| Plot No. | Band   | Mode    | Test Position | Ch.   | EUT Config. | RB# | RB Offset | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|--------|---------|---------------|-------|-------------|-----|-----------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
|          | LTE 2  | QPSK10M | Front Face    | 19150 | 1           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | 0.05             | 0.519                  | 0.52                 |
| 19       | LTE 2  | QPSK10M | Rear Face     | 19150 | 1           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | 0.17             | 0.588                  | 0.59                 |
|          | LTE 2  | QPSK10M | Front Face    | 18650 | 1           | 25  | 12        | 21.6                     | 21.47                          | 1.03           | -0.04            | 0.569                  | 0.59                 |
|          | LTE 2  | QPSK10M | Rear Face     | 18650 | 1           | 25  | 12        | 21.6                     | 21.47                          | 1.03           | -0.09            | 0.57                   | 0.59                 |
|          | LTE 2  | QPSK10M | Rear Face     | 19150 | 2           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | 0.03             | 0.579                  | 0.58                 |
|          | LTE 4  | QPSK10M | Front Face    | 20350 | 1           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | -0.04            | 0.469                  | 0.48                 |
| 20       | LTE 4  | QPSK10M | Rear Face     | 20350 | 1           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | -0.08            | 0.62                   | 0.63                 |
|          | LTE 4  | QPSK10M | Front Face    | 20350 | 1           | 25  | 12        | 21.6                     | 21.49                          | 1.03           | 0.03             | 0.378                  | 0.39                 |
|          | LTE 4  | QPSK10M | Rear Face     | 20350 | 1           | 25  | 12        | 21.6                     | 21.49                          | 1.03           | -0.07            | 0.488                  | 0.50                 |
|          | LTE 4  | QPSK10M | Rear Face     | 20350 | 2           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | -0.03            | 0.598                  | 0.61                 |
|          | LTE 5  | QPSK10M | Front Face    | 20450 | 1           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | -0.17            | 0.147                  | 0.15                 |
| 21       | LTE 5  | QPSK10M | Rear Face     | 20450 | 1           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | 0.00             | 0.244                  | 0.25                 |
|          | LTE 5  | QPSK10M | Front Face    | 20450 | 1           | 25  | 0         | 21.4                     | 21.29                          | 1.03           | -0.05            | 0.115                  | 0.12                 |
|          | LTE 5  | QPSK10M | Rear Face     | 20450 | 1           | 25  | 0         | 21.4                     | 21.29                          | 1.03           | 0.00             | 0.195                  | 0.20                 |
|          | LTE 5  | QPSK10M | Rear Face     | 20450 | 2           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | -0.06            | 0.211                  | 0.22                 |
|          | LTE 7  | QPSK10M | Front Face    | 20800 | 1           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | -0.09            | 0.123                  | 0.13                 |
| 22       | LTE 7  | QPSK10M | Rear Face     | 20800 | 1           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | 0.07             | 0.244                  | 0.25                 |
|          | LTE 7  | QPSK10M | Front Face    | 20800 | 1           | 25  | 12        | 19.6                     | 19.58                          | 1.00           | -0.01            | 0.113                  | 0.11                 |
|          | LTE 7  | QPSK10M | Rear Face     | 20800 | 1           | 25  | 12        | 19.6                     | 19.58                          | 1.00           | 0.08             | 0.225                  | 0.23                 |
|          | LTE 7  | QPSK10M | Rear Face     | 20800 | 2           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | -0.03            | 0.24                   | 0.24                 |
|          | LTE 17 | QPSK10M | Front Face    | 23780 | 1           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | -0.04            | 0.153                  | 0.16                 |
| 23       | LTE 17 | QPSK10M | Rear Face     | 23780 | 1           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | -0.04            | 0.343                  | 0.35                 |
|          | LTE 17 | QPSK10M | Front Face    | 23780 | 1           | 25  | 25        | 21.4                     | 21.29                          | 1.03           | -0.08            | 0.151                  | 0.15                 |
|          | LTE 17 | QPSK10M | Rear Face     | 23780 | 1           | 25  | 25        | 21.4                     | 21.29                          | 1.03           | -0.05            | 0.279                  | 0.29                 |
|          | LTE 17 | QPSK10M | Rear Face     | 23780 | 2           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | -0.17            | 0.262                  | 0.27                 |

### Note:

- According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
- According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.

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- According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
- According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
- According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

| Plot No. | Band     | Mode | Test Position | Ch. | EUT Config. | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------|------|---------------|-----|-------------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| 24       | 802.11b  | -    | Front Face    | 1   | 1           | 14.5                     | 14.41                          | 1.02           | 0.09             | 0.069                  | 0.07                 |
|          | 802.11b  | -    | Rear Face     | 1   | 1           | 14.5                     | 14.41                          | 1.02           | 0.10             | 0.041                  | 0.04                 |
|          | 802.11b  | -    | Front Face    | 1   | 2           | 14.5                     | 14.41                          | 1.02           | 0.08             | 0.063                  | 0.06                 |
|          | 802.11a  | -    | Front Face    | 48  | 1           | 15.5                     | 15.25                          | 1.06           | -0.12            | 0.153                  | 0.16                 |
| 25       | 802.11a  | -    | Rear Face     | 48  | 1           | 15.5                     | 15.25                          | 1.06           | -0.05            | 0.474                  | 0.50                 |
|          | 802.11ac | VH80 | Rear Face     | 42  | 1           | 13.0                     | 12.94                          | 1.01           | -0.03            | 0.153                  | 0.16                 |
|          | 802.11a  | -    | Rear Face     | 48  | 2           | 15.5                     | 15.25                          | 1.06           | 0.02             | 0.46                   | 0.49                 |
|          | 802.11a  | -    | Front Face    | 52  | 1           | 15.1                     | 15.09                          | 1.00           | -0.02            | 0.161                  | 0.16                 |
| 26       | 802.11a  | -    | Rear Face     | 52  | 1           | 15.1                     | 15.09                          | 1.00           | 0.12             | 0.5                    | 0.50                 |
|          | 802.11ac | VH80 | Rear Face     | 58  | 1           | 13.5                     | 13.15                          | 1.08           | -0.03            | 0.189                  | 0.20                 |
|          | 802.11a  | -    | Rear Face     | 52  | 2           | 15.1                     | 15.09                          | 1.00           | -0.10            | 0.494                  | 0.50                 |
|          | 802.11a  | -    | Front Face    | 140 | 1           | 15.5                     | 15.32                          | 1.04           | -0.13            | 0.087                  | 0.09                 |
| 27       | 802.11a  | -    | Rear Face     | 140 | 1           | 15.5                     | 15.32                          | 1.04           | -0.03            | 0.354                  | 0.37                 |
|          | 802.11ac | VH80 | Rear Face     | 106 | 1           | 13.0                     | 12.90                          | 1.02           | -0.07            | 0.135                  | 0.14                 |
|          | 802.11a  | -    | Rear Face     | 140 | 2           | 15.5                     | 15.32                          | 1.04           | 0.00             | 0.275                  | 0.29                 |
|          | 802.11a  | -    | Front Face    | 161 | 1           | 15.5                     | 15.33                          | 1.04           | 0.00             | 0.118                  | 0.12                 |
| 28       | 802.11a  | -    | Rear Face     | 161 | 1           | 15.5                     | 15.33                          | 1.04           | 0.09             | 0.364                  | 0.38                 |
|          | 802.11ac | VH80 | Rear Face     | 155 | 1           | 13.0                     | 12.95                          | 1.01           | 0.10             | 0.118                  | 0.12                 |
|          | 802.11a  | -    | Rear Face     | 161 | 2           | 15.5                     | 15.33                          | 1.04           | 0.00             | 0.231                  | 0.24                 |

## Note:

- According to KDB 248227, when the extrapolated maximum peak SAR for the maximum output power channel is  $\leq 1.6$  W/kg and the 1g averaged SAR is  $\leq 0.8$  W/kg, WLAN SAR testing for other channels is not required.
- SAR testing for 802.11g/n is not required when its maximum power is less than 1/4 dB higher than 802.11b.
- SAR testing for 802.11n is not required when its maximum power is less than 1/4 dB higher than 802.11a.
- According to April 2013 TCB Workshop, 802.11ac SAR testing is not required when its maximum power is less than 1/4 dB higher than 802.11a. 802.11ac SAR is required for the highest 802.11a configuration in each 5 GHz band and each exposure condition.

## 4.7.3 SAR Results for Hotspot (for Handset Mode, Separation Distance is 1.0 cm Gap)

| Plot No. | Band     | Mode     | Test Position | Ch.  | EUT Config. | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------|----------|---------------|------|-------------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| 15       | GSM850   | GPRS10   | Front Face    | 251  | 1           | 32.0                     | 31.90                          | 1.02           | -0.11            | 0.312                  | 0.32                 |
|          | GSM850   | GPRS10   | Rear Face     | 251  | 1           | 32.0                     | 31.90                          | 1.02           | -0.11            | 0.653                  | 0.67                 |
|          | GSM850   | GPRS10   | Left Side     | 251  | 1           | 32.0                     | 31.90                          | 1.02           | -0.14            | 0.235                  | 0.24                 |
|          | GSM850   | GPRS10   | Right Side    | 251  | 1           | 32.0                     | 31.90                          | 1.02           | -0.07            | 0.395                  | 0.40                 |
|          | GSM850   | GPRS10   | Bottom Side   | 251  | 1           | 32.0                     | 31.90                          | 1.02           | -0.04            | 0.109                  | 0.11                 |
|          | GSM850   | GPRS10   | Rear Face     | 251  | 2           | 32.0                     | 31.90                          | 1.02           | -0.04            | 0.451                  | 0.46                 |
|          | GSM1900  | GPRS10   | Front Face    | 810  | 1           | 29.5                     | 29.25                          | 1.06           | 0.03             | 0.62                   | 0.66                 |
|          | GSM1900  | GPRS10   | Rear Face     | 810  | 1           | 29.5                     | 29.25                          | 1.06           | 0.00             | 0.755                  | 0.80                 |
|          | GSM1900  | GPRS10   | Left Side     | 810  | 1           | 29.5                     | 29.25                          | 1.06           | -0.03            | 0.482                  | 0.51                 |
|          | GSM1900  | GPRS10   | Right Side    | 810  | 1           | 29.5                     | 29.25                          | 1.06           | -0.01            | 0.061                  | 0.06                 |
|          | GSM1900  | GPRS10   | Bottom Side   | 810  | 1           | 29.5                     | 29.25                          | 1.06           | -0.06            | 0.379                  | 0.40                 |
|          | GSM1900  | GPRS10   | Rear Face     | 512  | 1           | 29.5                     | 28.91                          | 1.15           | -0.10            | 1.03                   | 1.18                 |
| 16       | GSM1900  | GPRS10   | Rear Face     | 661  | 1           | 29.5                     | 29.01                          | 1.12           | -0.04            | 0.864                  | 0.97                 |
|          | GSM1900  | GPRS10   | Rear Face     | 512  | 2           | 29.5                     | 28.91                          | 1.15           | -0.12            | 0.693                  | 0.79                 |
|          | GSM1900  | GPRS10   | Rear Face     | 512  | 1           | 29.5                     | 28.91                          | 1.15           | -0.10            | 1                      | 1.15                 |
|          | WCDMA II | RMC12.2K | Front Face    | 9538 | 1           | 22.5                     | 22.32                          | 1.04           | 0.02             | 0.633                  | 0.66                 |
|          | WCDMA II | RMC12.2K | Rear Face     | 9538 | 1           | 22.5                     | 22.32                          | 1.04           | -0.18            | 0.634                  | 0.66                 |
|          | WCDMA II | RMC12.2K | Left Side     | 9538 | 1           | 22.5                     | 22.32                          | 1.04           | 0.11             | 0.492                  | 0.51                 |
|          | WCDMA II | RMC12.2K | Right Side    | 9538 | 1           | 22.5                     | 22.32                          | 1.04           | -0.01            | 0.1                    | 0.10                 |
|          | WCDMA II | RMC12.2K | Bottom Side   | 9538 | 1           | 22.5                     | 22.32                          | 1.04           | 0.00             | 0.403                  | 0.42                 |
|          | WCDMA II | RMC12.2K | Rear Face     | 9538 | 2           | 22.5                     | 22.32                          | 1.04           | -0.08            | 0.628                  | 0.65                 |
|          | WCDMA V  | RMC12.2K | Front Face    | 4233 | 1           | 23.0                     | 22.81                          | 1.04           | -0.12            | 0.194                  | 0.20                 |
|          | WCDMA V  | RMC12.2K | Rear Face     | 4233 | 1           | 23.0                     | 22.81                          | 1.04           | -0.06            | 0.298                  | 0.31                 |
|          | WCDMA V  | RMC12.2K | Left Side     | 4233 | 1           | 23.0                     | 22.81                          | 1.04           | 0.04             | 0.159                  | 0.17                 |
| 18       | WCDMA V  | RMC12.2K | Right Side    | 4233 | 1           | 23.0                     | 22.81                          | 1.04           | -0.04            | 0.276                  | 0.29                 |
|          | WCDMA V  | RMC12.2K | Bottom Side   | 4233 | 1           | 23.0                     | 22.81                          | 1.04           | 0.07             | 0.057                  | 0.06                 |
|          | WCDMA V  | RMC12.2K | Rear Face     | 4233 | 2           | 23.0                     | 22.81                          | 1.04           | -0.03            | 0.291                  | 0.30                 |
|          | WCDMA V  | RMC12.2K | Rear Face     | 4233 | 2           | 23.0                     | 22.81                          | 1.04           | -0.03            | 0.291                  | 0.30                 |

### Note:

- SAR is performed on the highest power channel. When the reported SAR value of highest power channel is  $\leq 0.8$  W/kg, SAR testing for optional channel is not required.

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| Plot No. | Band  | Mode    | Test Position | Ch.   | EUT Config. | RB# | RB Offset | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|-------|---------|---------------|-------|-------------|-----|-----------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| 19       | LTE 2 | QPSK10M | Front Face    | 19150 | 1           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | 0.05             | 0.519                  | 0.52                 |
|          | LTE 2 | QPSK10M | Rear Face     | 19150 | 1           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | 0.17             | 0.588                  | 0.59                 |
|          | LTE 2 | QPSK10M | Left Side     | 19150 | 1           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | -0.07            | 0.467                  | 0.47                 |
|          | LTE 2 | QPSK10M | Right Side    | 19150 | 1           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | -0.08            | 0.102                  | 0.10                 |
|          | LTE 2 | QPSK10M | Bottom Side   | 19150 | 1           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | -0.02            | 0.367                  | 0.37                 |
|          | LTE 2 | QPSK10M | Front Face    | 18650 | 1           | 25  | 12        | 21.6                     | 21.47                          | 1.03           | -0.04            | 0.569                  | 0.59                 |
|          | LTE 2 | QPSK10M | Rear Face     | 18650 | 1           | 25  | 12        | 21.6                     | 21.47                          | 1.03           | -0.09            | 0.57                   | 0.59                 |
|          | LTE 2 | QPSK10M | Left Side     | 18650 | 1           | 25  | 12        | 21.6                     | 21.47                          | 1.03           | -0.07            | 0.454                  | 0.47                 |
|          | LTE 2 | QPSK10M | Right Side    | 18650 | 1           | 25  | 12        | 21.6                     | 21.47                          | 1.03           | -0.03            | 0.161                  | 0.17                 |
|          | LTE 2 | QPSK10M | Bottom Side   | 18650 | 1           | 25  | 12        | 21.6                     | 21.47                          | 1.03           | 0.00             | 0.33                   | 0.34                 |
| 20       | LTE 2 | QPSK10M | Rear Face     | 19150 | 2           | 1   | 24        | 22.6                     | 22.56                          | 1.01           | 0.03             | 0.579                  | 0.58                 |
|          | LTE 4 | QPSK10M | Front Face    | 20350 | 1           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | -0.04            | 0.469                  | 0.48                 |
|          | LTE 4 | QPSK10M | Rear Face     | 20350 | 1           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | -0.08            | 0.62                   | 0.63                 |
|          | LTE 4 | QPSK10M | Left Side     | 20350 | 1           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | -0.08            | 0.325                  | 0.33                 |
|          | LTE 4 | QPSK10M | Right Side    | 20350 | 1           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | -0.12            | 0.101                  | 0.10                 |
|          | LTE 4 | QPSK10M | Bottom Side   | 20350 | 1           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | -0.07            | 0.278                  | 0.28                 |
|          | LTE 4 | QPSK10M | Front Face    | 20350 | 1           | 25  | 12        | 21.6                     | 21.49                          | 1.03           | 0.03             | 0.378                  | 0.39                 |
|          | LTE 4 | QPSK10M | Rear Face     | 20350 | 1           | 25  | 12        | 21.6                     | 21.49                          | 1.03           | -0.07            | 0.488                  | 0.50                 |
|          | LTE 4 | QPSK10M | Left Side     | 20350 | 1           | 25  | 12        | 21.6                     | 21.49                          | 1.03           | -0.03            | 0.264                  | 0.27                 |
|          | LTE 4 | QPSK10M | Right Side    | 20350 | 1           | 25  | 12        | 21.6                     | 21.49                          | 1.03           | 0.10             | 0.083                  | 0.09                 |
| 21       | LTE 4 | QPSK10M | Bottom Side   | 20350 | 1           | 25  | 12        | 21.6                     | 21.49                          | 1.03           | -0.05            | 0.221                  | 0.23                 |
|          | LTE 4 | QPSK10M | Rear Face     | 20350 | 2           | 1   | 24        | 22.6                     | 22.53                          | 1.02           | -0.03            | 0.598                  | 0.61                 |
|          | LTE 5 | QPSK10M | Front Face    | 20450 | 1           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | -0.17            | 0.147                  | 0.15                 |
|          | LTE 5 | QPSK10M | Rear Face     | 20450 | 1           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | 0.00             | 0.244                  | 0.25                 |
|          | LTE 5 | QPSK10M | Left Side     | 20450 | 1           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | -0.07            | 0.132                  | 0.13                 |
|          | LTE 5 | QPSK10M | Right Side    | 20450 | 1           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | -0.05            | 0.226                  | 0.23                 |
|          | LTE 5 | QPSK10M | Bottom Side   | 20450 | 1           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | -0.04            | 0.04                   | 0.04                 |
|          | LTE 5 | QPSK10M | Front Face    | 20450 | 1           | 25  | 0         | 21.4                     | 21.29                          | 1.03           | -0.05            | 0.115                  | 0.12                 |
|          | LTE 5 | QPSK10M | Rear Face     | 20450 | 1           | 25  | 0         | 21.4                     | 21.29                          | 1.03           | 0.00             | 0.195                  | 0.20                 |
|          | LTE 5 | QPSK10M | Left Side     | 20450 | 1           | 25  | 0         | 21.4                     | 21.29                          | 1.03           | -0.06            | 0.113                  | 0.12                 |
|          | LTE 5 | QPSK10M | Right Side    | 20450 | 1           | 25  | 0         | 21.4                     | 21.29                          | 1.03           | -0.06            | 0.183                  | 0.19                 |
|          | LTE 5 | QPSK10M | Bottom Side   | 20450 | 1           | 25  | 0         | 21.4                     | 21.29                          | 1.03           | -0.07            | 0.033                  | 0.03                 |
|          | LTE 5 | QPSK10M | Rear Face     | 20450 | 2           | 1   | 24        | 22.4                     | 22.31                          | 1.02           | -0.06            | 0.211                  | 0.22                 |

## Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

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| Plot No. | Band   | Mode    | Test Position | Ch.   | EUT Config. | RB# | RB Offset | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|--------|---------|---------------|-------|-------------|-----|-----------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| 22       | LTE 7  | QPSK10M | Front Face    | 20800 | 1           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | -0.09            | 0.123                  | 0.13                 |
|          | LTE 7  | QPSK10M | Rear Face     | 20800 | 1           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | 0.07             | 0.244                  | 0.25                 |
|          | LTE 7  | QPSK10M | Left Side     | 20800 | 1           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | 0.18             | 0.222                  | 0.23                 |
|          | LTE 7  | QPSK10M | Right Side    | 20800 | 1           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | 0.03             | 0.012                  | 0.01                 |
|          | LTE 7  | QPSK10M | Bottom Side   | 20800 | 1           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | 0.05             | 0.1                    | 0.10                 |
|          | LTE 7  | QPSK10M | Front Face    | 20800 | 1           | 25  | 12        | 19.6                     | 19.58                          | 1.00           | -0.01            | 0.113                  | 0.11                 |
|          | LTE 7  | QPSK10M | Rear Face     | 20800 | 1           | 25  | 12        | 19.6                     | 19.58                          | 1.00           | 0.08             | 0.225                  | 0.23                 |
|          | LTE 7  | QPSK10M | Left Side     | 20800 | 1           | 25  | 12        | 19.6                     | 19.58                          | 1.00           | 0.03             | 0.177                  | 0.18                 |
|          | LTE 7  | QPSK10M | Right Side    | 20800 | 1           | 25  | 12        | 19.6                     | 19.58                          | 1.00           | -0.07            | 0.00898                | 0.01                 |
|          | LTE 7  | QPSK10M | Bottom Side   | 20800 | 1           | 25  | 12        | 19.6                     | 19.58                          | 1.00           | 0.08             | 0.089                  | 0.09                 |
|          | LTE 7  | QPSK10M | Rear Face     | 20800 | 2           | 1   | 24        | 20.6                     | 20.52                          | 1.02           | -0.03            | 0.24                   | 0.24                 |
| 23       | LTE 17 | QPSK10M | Front Face    | 23780 | 1           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | -0.04            | 0.153                  | 0.16                 |
|          | LTE 17 | QPSK10M | Rear Face     | 23780 | 1           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | -0.04            | 0.343                  | 0.35                 |
|          | LTE 17 | QPSK10M | Left Side     | 23780 | 1           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | -0.04            | 0.221                  | 0.23                 |
|          | LTE 17 | QPSK10M | Right Side    | 23780 | 1           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | -0.03            | 0.206                  | 0.21                 |
|          | LTE 17 | QPSK10M | Bottom Side   | 23780 | 1           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | -0.10            | 0.021                  | 0.02                 |
|          | LTE 17 | QPSK10M | Front Face    | 23780 | 1           | 25  | 25        | 21.4                     | 21.29                          | 1.03           | -0.08            | 0.151                  | 0.15                 |
|          | LTE 17 | QPSK10M | Rear Face     | 23780 | 1           | 25  | 25        | 21.4                     | 21.29                          | 1.03           | -0.05            | 0.279                  | 0.29                 |
|          | LTE 17 | QPSK10M | Left Side     | 23780 | 1           | 25  | 25        | 21.4                     | 21.29                          | 1.03           | -0.05            | 0.18                   | 0.18                 |
|          | LTE 17 | QPSK10M | Right Side    | 23780 | 1           | 25  | 25        | 21.4                     | 21.29                          | 1.03           | -0.01            | 0.169                  | 0.17                 |
|          | LTE 17 | QPSK10M | Bottom Side   | 23780 | 1           | 25  | 25        | 21.4                     | 21.29                          | 1.03           | -0.19            | 0.021                  | 0.02                 |
|          | LTE 17 | QPSK10M | Rear Face     | 23780 | 2           | 1   | 24        | 22.4                     | 22.32                          | 1.02           | -0.17            | 0.262                  | 0.27                 |

## Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

| Plot No. | Band    | Test Position | Ch. | EUT Config. | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|---------|---------------|-----|-------------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| 24       | 802.11b | Front Face    | 1   | 1           | 14.5                     | 14.41                          | 1.02           | 0.13             | 0.069                  | 0.07                 |
|          | 802.11b | Rear Face     | 1   | 1           | 14.5                     | 14.41                          | 1.02           | 0.10             | 0.041                  | 0.04                 |
|          | 802.11b | Left Side     | 1   | 1           | 14.5                     | 14.41                          | 1.02           | 0.07             | 0.00764                | 0.01                 |
|          | 802.11b | Top Side      | 1   | 1           | 14.5                     | 14.41                          | 1.02           | 0.13             | 0.045                  | 0.05                 |
|          | 802.11b | Front Face    | 1   | 2           | 14.5                     | 14.41                          | 1.02           | 0.08             | 0.063                  | 0.06                 |

## Note:

1. According to KDB 248227, when the extrapolated maximum peak SAR for the maximum output power channel is  $\leq 1.6$  W/kg and the 1g averaged SAR is  $\leq 0.8$  W/kg, WLAN SAR testing for other channels is not required.
2. SAR testing for 802.11g/n is not required when its maximum power is less than 1/4 dB higher than 802.11b.
3. WLAN 5G does not support wireless hotspot mode.

## 4.7.4 SAR Results for Body (for Tablet PC Mode)

| Plot No. | Band     | Mode     | Test Position | Separation Distance (cm) | Ch.  | EUT Config. | Power Reduction | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------|----------|---------------|--------------------------|------|-------------|-----------------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
|          | GSM850   | GPRS10   | Rear Face     | 0                        | 251  | 1           | w/              | 29.5                     | 29.22                          | 1.07           | 0.04             | 0.438                  | 0.47                 |
|          | GSM850   | GPRS10   | Rear Face     | 1.1                      | 251  | 1           | w/o             | 32.0                     | 31.90                          | 1.02           | 0.03             | 0.318                  | 0.33                 |
|          | GSM850   | GPRS10   | Top Side      | 0                        | 251  | 1           | w/              | 29.5                     | 29.22                          | 1.07           | -0.03            | 0.583                  | 0.62                 |
| 29       | GSM850   | GPRS10   | Top Side      | 0.8                      | 251  | 1           | w/o             | 32.0                     | 31.90                          | 1.02           | -0.12            | 0.733                  | 0.75                 |
|          | GSM850   | GPRS10   | Right Side    | 0                        | 251  | 1           | w/o             | 32.0                     | 31.90                          | 1.02           | -0.01            | 0.166                  | 0.17                 |
|          | GSM850   | GPRS10   | Top Side      | 0.8                      | 128  | 1           | w/o             | 32.0                     | 31.78                          | 1.05           | -0.07            | 0.577                  | 0.61                 |
|          | GSM850   | GPRS10   | Top Side      | 0.8                      | 189  | 1           | w/o             | 32.0                     | 31.85                          | 1.04           | 0.09             | 0.683                  | 0.71                 |
|          | GSM850   | GPRS10   | Top Side      | 0.8                      | 251  | 2           | w/o             | 32.0                     | 31.90                          | 1.02           | -0.06            | 0.545                  | 0.56                 |
|          | GSM1900  | GPRS10   | Rear Face     | 0                        | 661  | 1           | w/              | 26.5                     | 26.31                          | 1.04           | 0.03             | 0.319                  | 0.33                 |
|          | GSM1900  | GPRS10   | Rear Face     | 1.1                      | 810  | 1           | w/o             | 29.5                     | 29.25                          | 1.06           | 0.07             | 0.168                  | 0.18                 |
|          | GSM1900  | GPRS10   | Top Side      | 0                        | 661  | 1           | w/              | 26.5                     | 26.31                          | 1.04           | 0.08             | 0.55                   | 0.57                 |
| 30       | GSM1900  | GPRS10   | Top Side      | 0.8                      | 810  | 1           | w/o             | 29.5                     | 29.25                          | 1.06           | -0.03            | 0.559                  | 0.59                 |
|          | GSM1900  | GPRS10   | Right Side    | 0                        | 810  | 1           | w/o             | 29.5                     | 29.25                          | 1.06           | -0.08            | 0.443                  | 0.47                 |
|          | GSM1900  | GPRS10   | Top Side      | 0.8                      | 810  | 2           | w/o             | 29.5                     | 29.25                          | 1.06           | -0.04            | 0.552                  | 0.58                 |
|          | WCDMA II | RMC12.2K | Rear Face     | 0                        | 9400 | 1           | w/              | 20.0                     | 19.98                          | 1.00           | -0.08            | 0.364                  | 0.37                 |
|          | WCDMA II | RMC12.2K | Rear Face     | 1.1                      | 9538 | 1           | w/o             | 22.5                     | 22.32                          | 1.04           | -0.18            | 0.135                  | 0.14                 |
| 31       | WCDMA II | RMC12.2K | Top Side      | 0                        | 9400 | 1           | w/              | 20.0                     | 19.98                          | 1.00           | 0.18             | 0.568                  | 0.57                 |
|          | WCDMA II | RMC12.2K | Top Side      | 0.8                      | 9538 | 1           | w/o             | 22.5                     | 22.32                          | 1.04           | 0.04             | 0.345                  | 0.36                 |
|          | WCDMA II | RMC12.2K | Right Side    | 0                        | 9538 | 1           | w/o             | 22.5                     | 22.32                          | 1.04           | -0.03            | 0.33                   | 0.34                 |
|          | WCDMA II | RMC12.2K | Top Side      | 0                        | 9400 | 2           | w/              | 20.0                     | 19.98                          | 1.00           | 0.10             | 0.561                  | 0.56                 |
|          | WCDMA V  | RMC12.2K | Rear Face     | 0                        | 4132 | 1           | w/              | 20.5                     | 20.35                          | 1.04           | 0.17             | 0.247                  | 0.26                 |
|          | WCDMA V  | RMC12.2K | Rear Face     | 1.1                      | 4233 | 1           | w/o             | 23.0                     | 22.81                          | 1.04           | -0.07            | 0.165                  | 0.17                 |
| 32       | WCDMA V  | RMC12.2K | Top Side      | 0                        | 4132 | 1           | w/              | 20.5                     | 20.35                          | 1.04           | 0.06             | 0.453                  | 0.47                 |
|          | WCDMA V  | RMC12.2K | Top Side      | 0.8                      | 4233 | 1           | w/o             | 23.0                     | 22.81                          | 1.04           | -0.11            | 0.321                  | 0.34                 |
|          | WCDMA V  | RMC12.2K | Right Side    | 0                        | 4233 | 1           | w/o             | 23.0                     | 22.81                          | 1.04           | -0.07            | 0.083                  | 0.09                 |
|          | WCDMA V  | RMC12.2K | Top Side      | 0                        | 4132 | 2           | w/              | 20.5                     | 20.35                          | 1.04           | -0.05            | 0.368                  | 0.38                 |

### Note:

- SAR is performed on the highest power channel. When the reported SAR value of highest power channel is <= 0.8 W/kg, SAR testing for optional channel is not required.

| Plot No. | Band  | Mode    | Test Position | Separation Distance (cm) | Ch.   | EUT Config. | Power Reduction | RB Offset | RB# | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|-------|---------|---------------|--------------------------|-------|-------------|-----------------|-----------|-----|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
|          | LTE 2 | QPSK10M | Rear Face     | 0                        | 18650 | 1           | w/              | 1         | 24  | 20.8                     | 20.71                          | 1.02           | -0.02            | 0.35                   | 0.36                 |
|          | LTE 2 | QPSK10M | Rear Face     | 1.1                      | 19150 | 1           | w/o             | 1         | 24  | 22.6                     | 22.56                          | 1.01           | -0.15            | 0.128                  | 0.13                 |
|          | LTE 2 | QPSK10M | Top Side      | 0                        | 18650 | 1           | w/              | 1         | 24  | 20.8                     | 20.71                          | 1.02           | -0.01            | 0.601                  | 0.61                 |
|          | LTE 2 | QPSK10M | Top Side      | 0.8                      | 19150 | 1           | w/o             | 1         | 24  | 22.6                     | 22.56                          | 1.01           | 0.19             | 0.316                  | 0.32                 |
|          | LTE 2 | QPSK10M | Right Side    | 0                        | 19150 | 1           | w/o             | 1         | 24  | 22.6                     | 22.56                          | 1.01           | -0.01            | 0.242                  | 0.24                 |
|          | LTE 2 | QPSK10M | Rear Face     | 0                        | 18650 | 1           | w/              | 25        | 0   | 19.8                     | 19.72                          | 1.02           | 0.02             | 0.341                  | 0.35                 |
|          | LTE 2 | QPSK10M | Rear Face     | 1.1                      | 18650 | 1           | w/o             | 25        | 12  | 21.6                     | 21.47                          | 1.03           | -0.18            | 0.139                  | 0.14                 |
|          | LTE 2 | QPSK10M | Top Side      | 0                        | 18650 | 1           | w/              | 25        | 0   | 19.8                     | 19.72                          | 1.02           | 0.15             | 0.493                  | 0.50                 |
|          | LTE 2 | QPSK10M | Top Side      | 0.8                      | 18650 | 1           | w/o             | 25        | 12  | 21.6                     | 21.47                          | 1.03           | 0.03             | 0.296                  | 0.30                 |
|          | LTE 2 | QPSK10M | Right Side    | 0                        | 18650 | 1           | w/o             | 25        | 12  | 21.6                     | 21.47                          | 1.03           | -0.10            | 0.353                  | 0.36                 |
| 33       | LTE 2 | QPSK10M | Top Side      | 0                        | 18650 | 2           | w/              | 1         | 24  | 20.8                     | 20.71                          | 1.02           | -0.06            | 0.751                  | 0.77                 |

### Note:

- According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
- According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.



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- According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
- According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
- According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

| Plot No. | Band   | Mode    | Test Position | Separation Distance (cm) | Ch.   | EUT Config. | Power Reduction | RB Offset | RB# | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|--------|---------|---------------|--------------------------|-------|-------------|-----------------|-----------|-----|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| 34       | LTE 4  | QPSK10M | Rear Face     | 0                        | 20350 | 1           | w/              | 1         | 49  | 19.6                     | 19.59                          | 1.00           | 0.02             | 0.528                  | 0.53                 |
|          | LTE 4  | QPSK10M | Rear Face     | 1.1                      | 20350 | 1           | w/o             | 1         | 24  | 22.6                     | 22.53                          | 1.02           | 0.01             | 0.194                  | 0.20                 |
|          | LTE 4  | QPSK10M | Top Side      | 0                        | 20350 | 1           | w/              | 1         | 49  | 19.6                     | 19.59                          | 1.00           | 0.08             | 0.66                   | 0.66                 |
|          | LTE 4  | QPSK10M | Top Side      | 0.8                      | 20350 | 1           | w/o             | 1         | 24  | 22.6                     | 22.53                          | 1.02           | -0.09            | 0.332                  | 0.34                 |
|          | LTE 4  | QPSK10M | Right Side    | 0                        | 20350 | 1           | w/o             | 1         | 24  | 22.6                     | 22.53                          | 1.02           | -0.02            | 0.4                    | 0.41                 |
|          | LTE 4  | QPSK10M | Rear Face     | 0                        | 20350 | 1           | w/              | 25        | 25  | 18.6                     | 18.56                          | 1.01           | -0.01            | 0.43                   | 0.43                 |
|          | LTE 4  | QPSK10M | Rear Face     | 1.1                      | 20350 | 1           | w/o             | 25        | 12  | 21.6                     | 21.49                          | 1.03           | 0.00             | 0.172                  | 0.18                 |
|          | LTE 4  | QPSK10M | Top Side      | 0                        | 20350 | 1           | w/              | 25        | 25  | 18.6                     | 18.56                          | 1.01           | -0.07            | 0.537                  | 0.54                 |
|          | LTE 4  | QPSK10M | Top Side      | 0.8                      | 20350 | 1           | w/o             | 25        | 12  | 21.6                     | 21.49                          | 1.03           | -0.01            | 0.273                  | 0.28                 |
|          | LTE 4  | QPSK10M | Right Side    | 0                        | 20350 | 1           | w/o             | 25        | 12  | 21.6                     | 21.49                          | 1.03           | 0.16             | 0.338                  | 0.35                 |
| 35       | LTE 4  | QPSK10M | Top Side      | 0                        | 20350 | 2           | w/              | 1         | 49  | 19.6                     | 19.59                          | 1.00           | -0.03            | 0.653                  | 0.65                 |
|          | LTE 5  | QPSK10M | Rear Face     | 0                        | 20450 | 1           | w/              | 1         | 0   | 20.7                     | 20.64                          | 1.01           | 0.10             | 0.255                  | 0.26                 |
|          | LTE 5  | QPSK10M | Rear Face     | 1.1                      | 20450 | 1           | w/o             | 1         | 24  | 22.4                     | 22.31                          | 1.02           | -0.03            | 0.121                  | 0.12                 |
|          | LTE 5  | QPSK10M | Top Side      | 0                        | 20450 | 1           | w/              | 1         | 0   | 20.7                     | 20.64                          | 1.01           | 0.02             | 0.514                  | 0.52                 |
|          | LTE 5  | QPSK10M | Top Side      | 0.8                      | 20450 | 1           | w/o             | 1         | 24  | 22.4                     | 22.31                          | 1.02           | -0.10            | 0.206                  | 0.21                 |
|          | LTE 5  | QPSK10M | Right Side    | 0                        | 20450 | 1           | w/o             | 1         | 24  | 22.4                     | 22.31                          | 1.02           | 0.01             | 0.067                  | 0.07                 |
|          | LTE 5  | QPSK10M | Rear Face     | 0                        | 20450 | 1           | w/              | 25        | 0   | 19.7                     | 19.62                          | 1.02           | 0.13             | 0.207                  | 0.21                 |
|          | LTE 5  | QPSK10M | Rear Face     | 1.1                      | 20450 | 1           | w/o             | 25        | 0   | 21.4                     | 21.29                          | 1.03           | 0.01             | 0.12                   | 0.12                 |
|          | LTE 5  | QPSK10M | Top Side      | 0                        | 20450 | 1           | w/              | 25        | 0   | 19.7                     | 19.62                          | 1.02           | 0.00             | 0.354                  | 0.36                 |
|          | LTE 5  | QPSK10M | Top Side      | 0.8                      | 20450 | 1           | w/o             | 25        | 0   | 21.4                     | 21.29                          | 1.03           | 0.04             | 0.185                  | 0.19                 |
| 36       | LTE 5  | QPSK10M | Right Side    | 0                        | 20450 | 1           | w/o             | 25        | 0   | 21.4                     | 21.29                          | 1.03           | 0.14             | 0.061                  | 0.06                 |
|          | LTE 5  | QPSK10M | Top Side      | 0                        | 20450 | 2           | w/              | 1         | 0   | 20.7                     | 20.64                          | 1.01           | -0.02            | 0.339                  | 0.34                 |
|          | LTE 7  | QPSK10M | Rear Face     | 0                        | 20800 | 1           | w/              | 1         | 0   | 11.8                     | 11.72                          | 1.02           | 0.01             | 0.048                  | 0.05                 |
|          | LTE 7  | QPSK10M | Rear Face     | 1.1                      | 20800 | 1           | w/o             | 1         | 24  | 20.6                     | 20.52                          | 1.02           | -0.01            | 0.115                  | 0.12                 |
|          | LTE 7  | QPSK10M | Top Side      | 0                        | 20800 | 1           | w/              | 1         | 0   | 11.8                     | 11.72                          | 1.02           | -0.10            | 0.428                  | 0.44                 |
|          | LTE 7  | QPSK10M | Top Side      | 0.8                      | 20800 | 1           | w/o             | 1         | 24  | 20.6                     | 20.52                          | 1.02           | 0.00             | 0.829                  | 0.84                 |
|          | LTE 7  | QPSK10M | Right Side    | 0                        | 20800 | 1           | w/o             | 1         | 24  | 20.6                     | 20.52                          | 1.02           | -0.10            | 0.127                  | 0.13                 |
|          | LTE 7  | QPSK10M | Top Side      | 0.8                      | 21100 | 1           | w/o             | 1         | 24  | 20.6                     | 20.21                          | 1.09           | 0.15             | 0.434                  | 0.47                 |
|          | LTE 7  | QPSK10M | Top Side      | 0.8                      | 21400 | 1           | w/o             | 1         | 24  | 20.6                     | 20.34                          | 1.06           | -0.32            | 0.45                   | 0.48                 |
|          | LTE 7  | QPSK10M | Rear Face     | 0                        | 21100 | 1           | w/              | 25        | 12  | 10.8                     | 10.50                          | 1.07           | -0.04            | 0.045                  | 0.05                 |
| 37       | LTE 7  | QPSK10M | Rear Face     | 1.1                      | 20800 | 1           | w/o             | 25        | 12  | 19.6                     | 19.58                          | 1.00           | -0.05            | 0.115                  | 0.12                 |
|          | LTE 7  | QPSK10M | Top Side      | 0                        | 21100 | 1           | w/              | 25        | 12  | 10.8                     | 10.50                          | 1.07           | 0.05             | 0.446                  | 0.48                 |
|          | LTE 7  | QPSK10M | Top Side      | 0.8                      | 20800 | 1           | w/o             | 25        | 12  | 19.6                     | 19.58                          | 1.00           | -0.01            | 0.645                  | 0.65                 |
|          | LTE 7  | QPSK10M | Right Side    | 0                        | 20800 | 1           | w/o             | 25        | 12  | 19.6                     | 19.58                          | 1.00           | -0.16            | 0.11                   | 0.11                 |
|          | LTE 7  | QPSK10M | Top Side      | 0.8                      | 20800 | 1           | w/o             | 50        | 0   | 19.6                     | 19.56                          | 1.01           | 0.06             | 0.625                  | 0.63                 |
|          | LTE 7  | QPSK10M | Top Side      | 0.8                      | 20800 | 1           | w/o             | 1         | 24  | 20.6                     | 20.52                          | 1.02           | 0.08             | 0.815                  | 0.83                 |
|          | LTE 7  | QPSK10M | Top Side      | 0.8                      | 20800 | 2           | w/o             | 1         | 24  | 20.6                     | 20.52                          | 1.02           | 0.17             | 0.544                  | 0.55                 |
|          | LTE 17 | QPSK10M | Rear Face     | 0                        | 23790 | 1           | w/              | 1         | 24  | 21.6                     | 21.54                          | 1.01           | -0.13            | 0.25                   | 0.25                 |
|          | LTE 17 | QPSK10M | Rear Face     | 1.1                      | 23780 | 1           | w/o             | 1         | 24  | 22.4                     | 22.32                          | 1.02           | 0.07             | 0.244                  | 0.25                 |
|          | LTE 17 | QPSK10M | Top Side      | 0                        | 23790 | 1           | w/              | 1         | 24  | 21.6                     | 21.54                          | 1.01           | 0.12             | 0.282                  | 0.29                 |
|          | LTE 17 | QPSK10M | Top Side      | 0.8                      | 23780 | 1           | w/o             | 1         | 24  | 22.4                     | 22.32                          | 1.02           | -0.09            | 0.256                  | 0.26                 |
|          | LTE 17 | QPSK10M | Right Side    | 0                        | 23780 | 1           | w/o             | 1         | 24  | 22.4                     | 22.32                          | 1.02           | -0.04            | 0.234                  | 0.24                 |
|          | LTE 17 | QPSK10M | Rear Face     | 0                        | 23790 | 1           | w/              | 25        | 25  | 20.6                     | 20.52                          | 1.02           | 0.02             | 0.174                  | 0.18                 |
|          | LTE 17 | QPSK10M | Rear Face     | 1.1                      | 23780 | 1           | w/o             | 25        | 25  | 21.4                     | 21.29                          | 1.03           | 0.04             | 0.184                  | 0.19                 |
|          | LTE 17 | QPSK10M | Top Side      | 0                        | 23790 | 1           | w/              | 25        | 25  | 20.6                     | 20.52                          | 1.02           | 0.01             | 0.198                  | 0.20                 |
|          | LTE 17 | QPSK10M | Top Side      | 0.8                      | 23780 | 1           | w/o             | 25        | 25  | 21.4                     | 21.29                          | 1.03           | 0.10             | 0.195                  | 0.20                 |
|          | LTE 17 | QPSK10M | Right Side    | 0                        | 23780 | 1           | w/o             | 25        | 25  | 21.4                     | 21.29                          | 1.03           | 0.14             | 0.126                  | 0.13                 |
|          | LTE 17 | QPSK10M | Top Side      | 0                        | 23790 | 2           | w/              | 1         | 24  | 21.6                     | 21.54                          | 1.01           | 0.11             | 0.156                  | 0.16                 |

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## Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

| Plot No. | Band     | Mode | Test Position | Separation Distance (cm) | Ch. | EUT Config. | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------|------|---------------|--------------------------|-----|-------------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| 38       | 802.11b  | -    | Rear Face     | 0                        | 1   | 1           | 14.5                     | 14.41                          | 1.02           | -0.07            | 0.488                  | 0.50                 |
|          | 802.11b  | -    | Top Side      | 0                        | 1   | 1           | 14.5                     | 14.41                          | 1.02           | 0.04             | 0.155                  | 0.16                 |
|          | 802.11b  | -    | Rear Face     | 0                        | 1   | 2           | 14.5                     | 14.41                          | 1.02           | 0.10             | 0.378                  | 0.39                 |
| 39       | 802.11a  | -    | Rear Face     | 0                        | 48  | 1           | 10.4                     | 10.34                          | 1.01           | -0.03            | 0.778                  | 0.79                 |
|          | 802.11a  | -    | Top Side      | 0                        | 48  | 1           | 10.4                     | 10.34                          | 1.01           | 0.00             | 0.637                  | 0.65                 |
|          | 802.11ac | VH80 | Rear Face     | 0                        | 42  | 1           | 9.5                      | 9.33                           | 1.04           | 0.00             | 0.53                   | 0.55                 |
|          | 802.11a  | -    | Rear Face     | 0                        | 48  | 2           | 10.4                     | 10.34                          | 1.01           | 0.03             | 0.74                   | 0.75                 |
| 40       | 802.11a  | -    | Rear Face     | 0                        | 52  | 1           | 10.0                     | 9.56                           | 1.11           | 0.00             | 0.952                  | 1.05                 |
|          | 802.11a  | -    | Top Side      | 0                        | 52  | 1           | 10.0                     | 9.56                           | 1.11           | -0.05            | 0.091                  | 0.10                 |
|          | 802.11ac | VH80 | Rear Face     | 0                        | 58  | 1           | 10.0                     | 9.97                           | 1.01           | 0.00             | 0.948                  | 0.95                 |
|          | 802.11a  | -    | Rear Face     | 0                        | 52  | 1           | 10.0                     | 9.56                           | 1.11           | 0.00             | 0.938                  | 1.04                 |
|          | 802.11a  | -    | Rear Face     | 0                        | 52  | 2           | 10.0                     | 9.56                           | 1.11           | 0.10             | 0.645                  | 0.71                 |
|          | 802.11a  | -    | Rear Face     | 0                        | 140 | 1           | 12.0                     | 11.97                          | 1.01           | 0.00             | 0.879                  | 0.89                 |
|          | 802.11a  | -    | Top Side      | 0                        | 140 | 1           | 12.0                     | 11.97                          | 1.01           | -0.09            | 0.124                  | 0.12                 |
|          | 802.11a  | -    | Rear Face     | 0                        | 100 | 1           | 12.0                     | 11.43                          | 1.14           | 0.03             | 0.799                  | 0.91                 |
| 41       | 802.11a  | -    | Rear Face     | 0                        | 116 | 1           | 12.0                     | 11.59                          | 1.10           | 0.06             | 0.929                  | 1.02                 |
|          | 802.11ac | VH80 | Rear Face     | 0                        | 106 | 1           | 12.0                     | 11.77                          | 1.05           | 0.03             | 0.774                  | 0.82                 |
|          | 802.11a  | -    | Rear Face     | 0                        | 116 | 1           | 12.0                     | 11.59                          | 1.10           | -0.02            | 0.92                   | 1.01                 |
|          | 802.11a  | -    | Rear Face     | 0                        | 116 | 2           | 12.0                     | 11.59                          | 1.10           | 0.07             | 0.886                  | 0.97                 |
|          | 802.11a  | -    | Rear Face     | 0                        | 100 | 2           | 12.0                     | 11.43                          | 1.14           | 0.09             | 0.784                  | 0.89                 |
|          | 802.11a  | -    | Rear Face     | 0                        | 140 | 2           | 12.0                     | 11.97                          | 1.01           | 0.08             | 0.719                  | 0.72                 |
|          | 802.11a  | -    | Rear Face     | 0                        | 161 | 1           | 12.1                     | 12.08                          | 1.00           | 0.01             | 0.92                   | 0.92                 |
|          | 802.11a  | -    | Top Side      | 0                        | 161 | 1           | 12.1                     | 12.08                          | 1.00           | 0.10             | 0.112                  | 0.11                 |
| 42       | 802.11a  | -    | Rear Face     | 0                        | 153 | 1           | 12.1                     | 11.79                          | 1.07           | 0.00             | 0.866                  | 0.93                 |
|          | 802.11ac | VH80 | Rear Face     | 0                        | 155 | 1           | 12.1                     | 12.03                          | 1.02           | 0.00             | 0.537                  | 0.55                 |
|          | 802.11a  | -    | Rear Face     | 0                        | 161 | 1           | 12.1                     | 12.08                          | 1.00           | 0.00             | 0.911                  | 0.91                 |
|          | 802.11a  | -    | Rear Face     | 0                        | 153 | 2           | 12.1                     | 11.79                          | 1.07           | 0.05             | 0.796                  | 0.85                 |
| 43       | BT       | -    | Rear Face     | 0                        | 0   | 1           | 10.5                     | 10.33                          | 1.04           | -0.07            | 0.057                  | 0.06                 |
|          | BT       | -    | Top Side      | 0                        | 0   | 1           | 10.5                     | 10.33                          | 1.04           | -0.05            | 0.016                  | 0.02                 |
|          | BT       | -    | Rear Face     | 0                        | 0   | 2           | 10.5                     | 10.33                          | 1.04           | N/A              | N/A                    | N/A                  |

## Note:

1. According to KDB 248227, when the extrapolated maximum peak SAR for the maximum output power channel is  $\leq 1.6$  W/kg and the 1g averaged SAR is  $\leq 0.8$  W/kg, WLAN SAR testing for other channels is not required.
2. SAR testing for 802.11g/n is not required when its maximum power is less than 1/4 dB higher than 802.11b.
3. SAR testing for 802.11n is not required when its maximum power is less than 1/4 dB higher than 802.11a.
4. According to April 2013 TCB Workshop, 802.11ac SAR testing is not required when its maximum power is less than 1/4 dB higher than 802.11a. 802.11ac SAR is required for the highest 802.11a configuration in each 5 GHz band and each exposure condition.
5. The "N/A" means there is no SAR value or the SAR is too low to be measured.

## 4.7.5 SAR Measurement Variability

According to KDB 865664 D01 v01r01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are  $\leq 1.45$  W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is  $\leq 1.10$ , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is  $< 0.80$  W/kg, repeated measurement is not required.
2. When the highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$ , or when the original or repeated measurement is  $\geq 1.45$  W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ , and the original, first or second repeated measurement is  $\geq 1.5$  W/kg, perform a third repeated measurement.

| Band    | Mode    | Test Position | Ch.   | Original Measured SAR-1g (W/kg) | 1st Repeated SAR-1g (W/kg) | L/S Ratio | 2nd Repeated SAR-1g (W/kg) | L/S Ratio | 3rd Repeated SAR-1g (W/kg) | L/S Ratio |
|---------|---------|---------------|-------|---------------------------------|----------------------------|-----------|----------------------------|-----------|----------------------------|-----------|
| 802.11a | -       | Right Cheek   | 48    | 0.808                           | 0.8                        | 1.01      | N/A                        | N/A       | N/A                        | N/A       |
| 802.11a | -       | Right Cheek   | 52    | 0.975                           | 0.966                      | 1.01      | N/A                        | N/A       | N/A                        | N/A       |
| GSM1900 | GPRS10  | Rear Face     | 512   | 1.03                            | 1                          | 1.03      | N/A                        | N/A       | N/A                        | N/A       |
| LTE 7   | QPSK10M | Top Side      | 20800 | 0.829                           | 0.815                      | 1.02      | N/A                        | N/A       | N/A                        | N/A       |
| 802.11a | -       | Rear Face     | 52    | 0.952                           | 0.938                      | 1.01      | N/A                        | N/A       | N/A                        | N/A       |
| 802.11a | -       | Rear Face     | 116   | 0.929                           | 0.92                       | 1.01      | N/A                        | N/A       | N/A                        | N/A       |
| 802.11a | -       | Rear Face     | 161   | 0.92                            | 0.911                      | 1.01      | N/A                        | N/A       | N/A                        | N/A       |

## 4.7.6 Simultaneous Multi-band Transmission Evaluation

### <Estimated SAR Calculation>

According to KDB 447498 D01, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR was estimated according to following formula to result in substantially conservative SAR values of  $\leq 0.4$  W/kg to determine simultaneous transmission SAR test exclusion.

$$\text{Estimated SAR} = \frac{\text{Max. Tune up Power}_{(\text{mW})}}{\text{Min. Test Separation Distance}_{(\text{mm})}} \times \frac{\sqrt{f_{(\text{GHz})}}}{7.5}$$

If the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is used for estimated SAR calculation. When the test separation distance is  $> 50$  mm, the 0.4 W/kg is used for SAR-1g.

| Mode / Band | Frequency (GHz) | Max. Tune-up Power (dBm) | Test Position | Separation Distance (cm) | Estimated SAR (W/kg) |
|-------------|-----------------|--------------------------|---------------|--------------------------|----------------------|
| BT (DSS)    | 2.48            | 10.5                     | Handset, Body | 1.0                      | 0.24                 |

### Note:

1. The separation distance is determined from the outer housing of the EUT to the user.
2. When standalone SAR testing is not required, an estimated SAR can be applied to determine simultaneous transmission SAR test exclusion.

## <SAR Summation Analysis>

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

## <EUT Configuration: Handset>

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis            |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|------------------------------|
| 1   | GSM850<br>+<br>WLAN (DTS)   | Head                  | Right Cheek      | 0.29         | 0.63         | 0.92             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.18         | 0.56         | 0.74             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.25         | 0.42         | 0.67             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.19         | 0.39         | 0.58             | Σ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.32         | 0.12         | 0.44             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.67         | 0.38         | 1.05             | Σ SAR < 1.6,<br>Not required |
|     |                             | Hotspot               | Front Face       | 0.32         | 0.07         | 0.39             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.67         | 0.04         | 0.71             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | 0.24         | 0.01         | 0.25             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.40         | -            | 0.40             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | -            | 0.05         | 0.05             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | 0.11         | -            | 0.11             | Σ SAR < 1.6,<br>Not required |
| 2   | GSM850<br>+<br>WLAN (NII)   | Head                  | Right Cheek      | 0.29         | 0.98         | 1.27             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.18         | 0.68         | 0.86             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.25         | 0.47         | 0.72             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.19         | 0.45         | 0.64             | Σ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.32         | 0.16         | 0.48             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.67         | 0.50         | 1.17             | Σ SAR < 1.6,<br>Not required |
| 3   | GSM850<br>+<br>BT (DSS)     | Body-Worn             | Front Face       | 0.32         | 0.24         | 0.56             | Σ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.67         | 0.24         | 0.91             | Σ SAR < 1.6,<br>Not required |

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| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 4   | GSM1900<br>+<br>WLAN (DTS)  | Head                  | Right Cheek      | 0.26         | 0.63         | 0.89             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.18         | 0.56         | 0.74             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.61         | 0.42         | 1.03             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.11         | 0.39         | 0.50             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.66         | 0.12         | 0.78             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 1.18         | 0.38         | 1.56             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Hotspot               | Front Face       | 0.66         | 0.07         | 0.73             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 1.18         | 0.04         | 1.22             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | 0.51         | 0.01         | 0.52             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.06         | -            | 0.06             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | -            | 0.05         | 0.05             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | 0.40         | -            | 0.40             | $\Sigma$ SAR < 1.6,<br>Not required |
| 5   | GSM1900<br>+<br>WLAN (NII)  | Head                  | Right Cheek      | 0.26         | 0.98         | 1.24             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.18         | 0.68         | 0.86             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.61         | 0.47         | 1.08             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.11         | 0.45         | 0.56             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.66         | 0.16         | 0.82             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 1.18         | 0.50         | <b>1.68</b>      | <b>Analyzed<br/>as below</b>        |
| 6   | GSM1900<br>+<br>BT (DSS)    | Body-Worn             | Front Face       | 0.66         | 0.24         | 0.90             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 1.18         | 0.24         | 1.42             | $\Sigma$ SAR < 1.6,<br>Not required |

# FCC SAR Test Report

A D T

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 7   | WCDMA II<br>+<br>WLAN (DTS) | Head                  | Right Cheek      | 0.31         | 0.63         | 0.94             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.19         | 0.56         | 0.75             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.54         | 0.42         | 0.96             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.13         | 0.39         | 0.52             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.66         | 0.12         | 0.78             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.66         | 0.38         | 1.04             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Hotspot               | Front Face       | 0.66         | 0.07         | 0.73             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.66         | 0.04         | 0.70             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | 0.51         | 0.01         | 0.52             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.10         | -            | 0.10             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | -            | 0.05         | 0.05             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | 0.42         | -            | 0.42             | $\Sigma$ SAR < 1.6,<br>Not required |
| 8   | WCDMA II<br>+<br>WLAN (NII) | Head                  | Right Cheek      | 0.31         | 0.98         | 1.29             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.19         | 0.68         | 0.87             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.54         | 0.47         | 1.01             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.13         | 0.45         | 0.58             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.66         | 0.16         | 0.82             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.66         | 0.50         | 1.16             | $\Sigma$ SAR < 1.6,<br>Not required |
| 9   | WCDMA II<br>+<br>BT (DSS)   | Body-Worn             | Front Face       | 0.66         | 0.24         | 0.90             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.66         | 0.24         | 0.90             | $\Sigma$ SAR < 1.6,<br>Not required |

# FCC SAR Test Report

A D T

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 10  | WCDMA V<br>+<br>WLAN (DTS)  | Head                  | Right Cheek      | 0.18         | 0.63         | 0.81             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.10         | 0.56         | 0.66             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.15         | 0.42         | 0.57             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.10         | 0.39         | 0.49             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.20         | 0.12         | 0.32             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.31         | 0.38         | 0.69             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Hotspot               | Front Face       | 0.20         | 0.07         | 0.27             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.31         | 0.04         | 0.35             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | 0.17         | 0.01         | 0.18             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.29         | -            | 0.29             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | -            | 0.05         | 0.05             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | 0.06         | -            | 0.06             | $\Sigma$ SAR < 1.6,<br>Not required |
| 11  | WCDMA V<br>+<br>WLAN (NII)  | Head                  | Right Cheek      | 0.18         | 0.98         | 1.16             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.10         | 0.68         | 0.78             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.15         | 0.47         | 0.62             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.10         | 0.45         | 0.55             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.20         | 0.16         | 0.36             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.31         | 0.50         | 0.81             | $\Sigma$ SAR < 1.6,<br>Not required |
| 12  | WCDMA V<br>+<br>BT (DSS)    | Body-Worn             | Front Face       | 0.20         | 0.24         | 0.44             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.31         | 0.24         | 0.55             | $\Sigma$ SAR < 1.6,<br>Not required |

# FCC SAR Test Report

A D T

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 13  | LTE 2<br>+<br>WLAN (DTS)    | Head                  | Right Cheek      | 0.22         | 0.63         | 0.85             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.19         | 0.56         | 0.75             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.58         | 0.42         | 1.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.21         | 0.39         | 0.60             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.59         | 0.12         | 0.71             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.59         | 0.38         | 0.97             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Hotspot               | Front Face       | 0.59         | 0.07         | 0.66             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.59         | 0.04         | 0.63             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | 0.47         | 0.01         | 0.48             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.17         | -            | 0.17             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | -            | 0.05         | 0.05             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | 0.37         | -            | 0.37             | $\Sigma$ SAR < 1.6,<br>Not required |
| 14  | LTE 2<br>+<br>WLAN (NII)    | Head                  | Right Cheek      | 0.22         | 0.98         | 1.20             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.19         | 0.68         | 0.87             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.58         | 0.47         | 1.05             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.21         | 0.45         | 0.66             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.59         | 0.16         | 0.75             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.59         | 0.50         | 1.09             | $\Sigma$ SAR < 1.6,<br>Not required |
| 15  | LTE 2<br>+<br>BT (DSS)      | Body-Worn             | Front Face       | 0.59         | 0.24         | 0.83             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.59         | 0.24         | 0.83             | $\Sigma$ SAR < 1.6,<br>Not required |

# FCC SAR Test Report

A D T

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 16  | LTE 4<br>+<br>WLAN (DTS)    | Head                  | Right Cheek      | 0.30         | 0.63         | 0.93             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.20         | 0.56         | 0.76             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.53         | 0.42         | 0.95             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.23         | 0.39         | 0.62             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.48         | 0.12         | 0.60             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.63         | 0.38         | 1.01             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Hotspot               | Front Face       | 0.48         | 0.07         | 0.55             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.63         | 0.04         | 0.67             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | 0.33         | 0.01         | 0.34             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.10         | -            | 0.10             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | -            | 0.05         | 0.05             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | 0.28         | -            | 0.28             | $\Sigma$ SAR < 1.6,<br>Not required |
| 17  | LTE 4<br>+<br>WLAN (NII)    | Head                  | Right Cheek      | 0.30         | 0.98         | 1.28             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.20         | 0.68         | 0.88             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.53         | 0.47         | 1.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.23         | 0.45         | 0.68             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.48         | 0.16         | 0.64             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.63         | 0.50         | 1.13             | $\Sigma$ SAR < 1.6,<br>Not required |
| 18  | LTE 4<br>+<br>BT (DSS)      | Body-Worn             | Front Face       | 0.48         | 0.24         | 0.72             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.63         | 0.24         | 0.87             | $\Sigma$ SAR < 1.6,<br>Not required |

# FCC SAR Test Report

A D T

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 19  | LTE 5<br>+<br>WLAN (DTS)    | Head                  | Right Cheek      | 0.17         | 0.63         | 0.80             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.12         | 0.56         | 0.68             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.14         | 0.42         | 0.56             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.11         | 0.39         | 0.50             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.15         | 0.12         | 0.27             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.25         | 0.38         | 0.63             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Hotspot               | Front Face       | 0.15         | 0.07         | 0.22             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.25         | 0.04         | 0.29             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | 0.13         | 0.01         | 0.14             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.23         | -            | 0.23             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | -            | 0.05         | 0.05             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | 0.04         | -            | 0.04             | $\Sigma$ SAR < 1.6,<br>Not required |
| 20  | LTE 5<br>+<br>WLAN (NII)    | Head                  | Right Cheek      | 0.17         | 0.98         | 1.15             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.12         | 0.68         | 0.80             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.14         | 0.47         | 0.61             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.11         | 0.45         | 0.56             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.15         | 0.16         | 0.31             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.25         | 0.50         | 0.75             | $\Sigma$ SAR < 1.6,<br>Not required |
| 21  | LTE 5<br>+<br>BT (DSS)      | Body-Worn             | Front Face       | 0.15         | 0.24         | 0.39             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.25         | 0.24         | 0.49             | $\Sigma$ SAR < 1.6,<br>Not required |

# FCC SAR Test Report

A D T

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 22  | LTE 7<br>+<br>WLAN (DTS)    | Head                  | Right Cheek      | 0.10         | 0.63         | 0.73             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.09         | 0.56         | 0.65             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.07         | 0.42         | 0.49             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.02         | 0.39         | 0.41             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.13         | 0.12         | 0.25             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.25         | 0.38         | 0.63             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Hotspot               | Front Face       | 0.13         | 0.07         | 0.20             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.25         | 0.04         | 0.29             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | 0.23         | 0.01         | 0.24             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.01         | -            | 0.01             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | -            | 0.05         | 0.05             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | 0.10         | -            | 0.10             | $\Sigma$ SAR < 1.6,<br>Not required |
| 23  | LTE 7<br>+<br>WLAN (NII)    | Head                  | Right Cheek      | 0.10         | 0.98         | 1.08             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.09         | 0.68         | 0.77             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.07         | 0.47         | 0.54             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.02         | 0.45         | 0.47             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.13         | 0.16         | 0.29             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.25         | 0.50         | 0.75             | $\Sigma$ SAR < 1.6,<br>Not required |
| 24  | LTE 7<br>+<br>BT (DSS)      | Body-Worn             | Front Face       | 0.13         | 0.24         | 0.37             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.25         | 0.24         | 0.49             | $\Sigma$ SAR < 1.6,<br>Not required |

# FCC SAR Test Report

A D T

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 25  | LTE 17<br>+<br>WLAN (DTS)   | Head                  | Right Cheek      | 0.16         | 0.63         | 0.79             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.11         | 0.56         | 0.67             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.16         | 0.42         | 0.58             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.11         | 0.39         | 0.50             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.16         | 0.12         | 0.28             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.35         | 0.38         | 0.73             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Hotspot               | Front Face       | 0.16         | 0.07         | 0.23             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.35         | 0.04         | 0.39             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | 0.23         | 0.01         | 0.24             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.21         | -            | 0.21             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | -            | 0.05         | 0.05             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | 0.02         | -            | 0.02             | $\Sigma$ SAR < 1.6,<br>Not required |
| 26  | LTE 17<br>+<br>WLAN (NII)   | Head                  | Right Cheek      | 0.16         | 0.98         | 1.14             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Tilted     | 0.11         | 0.68         | 0.79             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Cheek       | 0.16         | 0.47         | 0.63             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Tilted      | 0.11         | 0.45         | 0.56             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             | Body-Worn             | Front Face       | 0.16         | 0.16         | 0.32             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.35         | 0.50         | 0.85             | $\Sigma$ SAR < 1.6,<br>Not required |
| 27  | LTE 17<br>+<br>BT (DSS)     | Body-Worn             | Front Face       | 0.16         | 0.24         | 0.40             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Rear Face        | 0.35         | 0.24         | 0.59             | $\Sigma$ SAR < 1.6,<br>Not required |

# FCC SAR Test Report

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## <EUT Configuration: Tablet PC>

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 28  | GSM850<br>+<br>WLAN (DTS)   | Body                  | Rear Face        | 0.47         | 0.93         | 1.40             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.75         | 0.16         | 0.91             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.17         | -            | 0.17             | $\Sigma$ SAR < 1.6,<br>Not required |
| 29  | GSM850<br>+<br>WLAN (NII)   | Body                  | Rear Face        | 0.47         | 1.05         | 1.52             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.75         | 0.65         | 1.40             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.17         | -            | 0.17             | $\Sigma$ SAR < 1.6,<br>Not required |
| 30  | GSM850<br>+<br>BT (DSS)     | Body                  | Rear Face        | 0.47         | 0.06         | 0.53             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.75         | 0.02         | 0.77             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.17         | -            | 0.17             | $\Sigma$ SAR < 1.6,<br>Not required |

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 31  | GSM1900<br>+<br>WLAN (DTS)  | Body                  | Rear Face        | 0.33         | 0.93         | 1.26             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.59         | 0.16         | 0.75             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.47         | -            | 0.47             | $\Sigma$ SAR < 1.6,<br>Not required |
| 32  | GSM1900<br>+<br>WLAN (NII)  | Body                  | Rear Face        | 0.33         | 1.05         | 1.38             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.59         | 0.65         | 1.24             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.47         | -            | 0.47             | $\Sigma$ SAR < 1.6,<br>Not required |
| 33  | GSM1900<br>+<br>BT (DSS)    | Body                  | Rear Face        | 0.33         | 0.06         | 0.39             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.59         | 0.02         | 0.61             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.47         | -            | 0.47             | $\Sigma$ SAR < 1.6,<br>Not required |

# FCC SAR Test Report

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| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 34  | WCDMA II<br>+<br>WLAN (DTS) | Body                  | Rear Face        | 0.37         | 0.93         | 1.30             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.57         | 0.16         | 0.73             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.34         | -            | 0.34             | $\Sigma$ SAR < 1.6,<br>Not required |
| 35  | WCDMA II<br>+<br>WLAN (NII) | Body                  | Rear Face        | 0.37         | 1.05         | 1.42             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.57         | 0.65         | 1.22             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.34         | -            | 0.34             | $\Sigma$ SAR < 1.6,<br>Not required |
| 36  | WCDMA II<br>+<br>BT (DSS)   | Body                  | Rear Face        | 0.37         | 0.06         | 0.43             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.57         | 0.02         | 0.59             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.34         | -            | 0.34             | $\Sigma$ SAR < 1.6,<br>Not required |

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 37  | WCDMA V<br>+<br>WLAN (DTS)  | Body                  | Rear Face        | 0.26         | 0.93         | 1.19             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.47         | 0.16         | 0.63             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.09         | -            | 0.09             | $\Sigma$ SAR < 1.6,<br>Not required |
| 38  | WCDMA V<br>+<br>WLAN (NII)  | Body                  | Rear Face        | 0.26         | 1.05         | 1.31             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.47         | 0.65         | 1.12             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.09         | -            | 0.09             | $\Sigma$ SAR < 1.6,<br>Not required |
| 39  | WCDMA V<br>+<br>BT (DSS)    | Body                  | Rear Face        | 0.26         | 0.06         | 0.32             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.47         | 0.02         | 0.49             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.09         | -            | 0.09             | $\Sigma$ SAR < 1.6,<br>Not required |

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| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 40  | LTE 2<br>+<br>WLAN (DTS)    | Body                  | Rear Face        | 0.36         | 0.93         | 1.29             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.77         | 0.16         | 0.93             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.36         | -            | 0.36             | $\Sigma$ SAR < 1.6,<br>Not required |
| 41  | LTE 2<br>+<br>WLAN (NII)    | Body                  | Rear Face        | 0.36         | 1.05         | 1.41             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.77         | 0.65         | 1.42             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.36         | -            | 0.36             | $\Sigma$ SAR < 1.6,<br>Not required |
| 42  | LTE 2<br>+<br>BT (DSS)      | Body                  | Rear Face        | 0.36         | 0.06         | 0.42             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.77         | 0.02         | 0.79             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.36         | -            | 0.36             | $\Sigma$ SAR < 1.6,<br>Not required |

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 43  | LTE 4<br>+<br>WLAN (DTS)    | Body                  | Rear Face        | 0.53         | 0.93         | 1.46             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.66         | 0.16         | 0.82             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.41         | -            | 0.41             | $\Sigma$ SAR < 1.6,<br>Not required |
| 44  | LTE 4<br>+<br>WLAN (NII)    | Body                  | Rear Face        | 0.53         | 1.05         | 1.58             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.66         | 0.65         | 1.31             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.41         | -            | 0.41             | $\Sigma$ SAR < 1.6,<br>Not required |
| 45  | LTE 4<br>+<br>BT (DSS)      | Body                  | Rear Face        | 0.53         | 0.06         | 0.59             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.66         | 0.02         | 0.68             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.41         | -            | 0.41             | $\Sigma$ SAR < 1.6,<br>Not required |

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| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 46  | LTE 5<br>+<br>WLAN (DTS)    | Body                  | Rear Face        | 0.26         | 0.93         | 1.19             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.52         | 0.16         | 0.68             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.07         | -            | 0.07             | $\Sigma$ SAR < 1.6,<br>Not required |
| 47  | LTE 5<br>+<br>WLAN (NII)    | Body                  | Rear Face        | 0.26         | 1.05         | 1.31             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.52         | 0.65         | 1.17             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.07         | -            | 0.07             | $\Sigma$ SAR < 1.6,<br>Not required |
| 48  | LTE 5<br>+<br>BT (DSS)      | Body                  | Rear Face        | 0.26         | 0.06         | 0.32             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.52         | 0.02         | 0.54             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.07         | -            | 0.07             | $\Sigma$ SAR < 1.6,<br>Not required |

| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 49  | LTE 7<br>+<br>WLAN (DTS)    | Body                  | Rear Face        | 0.12         | 0.93         | 1.05             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.84         | 0.16         | 1.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.13         | -            | 0.13             | $\Sigma$ SAR < 1.6,<br>Not required |
| 50  | LTE 7<br>+<br>WLAN (NII)    | Body                  | Rear Face        | 0.12         | 1.05         | 1.17             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.84         | 0.65         | 1.49             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.13         | -            | 0.13             | $\Sigma$ SAR < 1.6,<br>Not required |
| 51  | LTE 7<br>+<br>BT (DSS)      | Body                  | Rear Face        | 0.12         | 0.06         | 0.18             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.84         | 0.02         | 0.86             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.13         | -            | 0.13             | $\Sigma$ SAR < 1.6,<br>Not required |

# FCC SAR Test Report

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| No. | Conditions<br>(SAR1 + SAR2) | Exposure<br>Condition | Test<br>Position | Max.<br>SAR1 | Max.<br>SAR2 | SAR<br>Summation | SPLSR<br>Analysis                   |
|-----|-----------------------------|-----------------------|------------------|--------------|--------------|------------------|-------------------------------------|
| 52  | LTE 17<br>+<br>WLAN (DTS)   | Body                  | Rear Face        | 0.25         | 0.93         | 1.18             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.29         | 0.16         | 0.45             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.24         | -            | 0.24             | $\Sigma$ SAR < 1.6,<br>Not required |
| 53  | LTE 17<br>+<br>WLAN (NII)   | Body                  | Rear Face        | 0.25         | 1.05         | 1.30             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.29         | 0.65         | 0.94             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.24         | -            | 0.24             | $\Sigma$ SAR < 1.6,<br>Not required |
| 54  | LTE 17<br>+<br>BT (DSS)     | Body                  | Rear Face        | 0.25         | 0.06         | 0.31             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Top Side         | 0.29         | 0.02         | 0.31             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Bottom Side      | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Left Side        | -            | -            | 0.00             | $\Sigma$ SAR < 1.6,<br>Not required |
|     |                             |                       | Right Side       | 0.24         | -            | 0.24             | $\Sigma$ SAR < 1.6,<br>Not required |

## FCC SAR Test Report

### <SAR to Peak Location Separation Ratio Analysis>

The simultaneous transmitting antennas in each operating mode and exposure condition combination are considered one pair at a time to determine the SPLSR. When SAR is measured for both antennas in the pair, the peak location separation distance is computed by the following formula.

$$\text{Peak Location Separation Distance} = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

Where  $(x_1, y_1, z_1)$  and  $(x_2, y_2, z_2)$  are the coordinates of the extrapolated peak SAR locations in the area or zoom scans.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna. Due to curvatures on the SAM phantom, when SAR is estimated for one of the antennas in an antenna pair, the measured peak SAR location will be translated onto the test device to determine the peak location separation for the antenna pair.

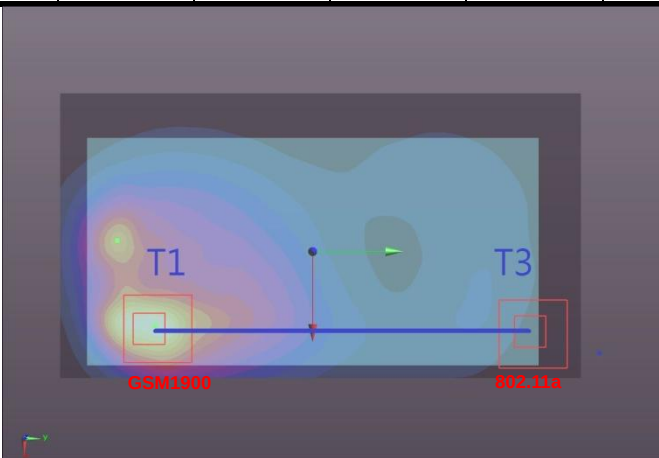
The SPLSR is determined by the following formula.

$$\text{SPLSR} = \frac{(\text{SAR}_1 + \text{SAR}_2)^{1.5}}{R_i}$$

Where  $\text{SAR}_1$  and  $\text{SAR}_2$  are the highest reported or estimated SAR for each antenna in the pair, and  $R_i$  is the separation distance between the peak SAR locations for the antenna pair in mm.

When the SPLSR is  $\leq 0.04$ , the simultaneous transmission SAR is not required. Otherwise, the enlarged zoom scan and volume scan post-processing procedures will be performed.

| Conditions    | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates |       |       | Peak Location Separation Distance ( $R_i$ , mm) | SPLSR | Simultaneous Transmission SAR Test |
|---------------|--------------------|---------------|------------------|-------------|-------|-------|-------------------------------------------------|-------|------------------------------------|
|               |                    |               |                  | x           | y     | z     |                                                 |       |                                    |
| GSM1900 Ch512 | Body               | Rear Face     | 1.18             | 2.35        | -5.48 | -0.32 | 123.3                                           | 0.018 | SPLSR < 0.04, Not required         |
| 802.11a Ch52  |                    |               | 0.50             | 2.55        | 6.85  | -0.26 |                                                 |       |                                    |

Test Engineer : Morrison Huang, and Rory Cheng

## 5. Calibration of Test Equipment

| Equipment                    | Manufacturer | Model          | SN         | Cal. Date     | Cal. Interval |
|------------------------------|--------------|----------------|------------|---------------|---------------|
| System Validation Kit        | SPEAG        | D750V3         | 1013       | Apr. 25, 2013 | Annual        |
| System Validation Kit        | SPEAG        | D835V2         | 4d121      | Apr. 25, 2013 | Annual        |
| System Validation Kit        | SPEAG        | D1750V2        | 1055       | Aug. 27, 2013 | Annual        |
| System Validation Kit        | SPEAG        | D1900V2        | 5d022      | Jul. 29, 2013 | Annual        |
| System Validation Kit        | SPEAG        | D1900V2        | 5d036      | Jan. 21, 2013 | Annual        |
| System Validation Kit        | SPEAG        | D2450V2        | 737        | Jan. 21, 2013 | Annual        |
| System Validation Kit        | SPEAG        | D2600V2        | 1020       | Jan. 18, 2013 | Annual        |
| System Validation Kit        | SPEAG        | D5GHzV2        | 1018       | Jul. 24, 2013 | Annual        |
| Dosimetric E-Field Probe     | SPEAG        | EX3DV4         | 3590       | Feb. 20, 2013 | Annual        |
| Dosimetric E-Field Probe     | SPEAG        | EX3DV4         | 3650       | Apr. 30, 2013 | Annual        |
| Dosimetric E-Field Probe     | SPEAG        | EX3DV4         | 3801       | Jun. 20, 2013 | Annual        |
| Dosimetric E-Field Probe     | SPEAG        | EX3DV4         | 3864       | Jul. 31, 2013 | Annual        |
| Data Acquisition Electronics | SPEAG        | DAE3           | 360        | Jan. 30, 2013 | Annual        |
| Data Acquisition Electronics | SPEAG        | DAE3           | 579        | Apr. 24, 2013 | Annual        |
| Data Acquisition Electronics | SPEAG        | DAE4           | 861        | Mar. 19, 2013 | Annual        |
| Data Acquisition Electronics | SPEAG        | DAE4           | 1277       | Jul. 26, 2013 | Annual        |
| SAM Phantom                  | SPEAG        | QD000P40CD     | TP-1127    | N/A           | N/A           |
| SAM Phantom                  | SPEAG        | QD000P40CD     | TP-1496    | N/A           | N/A           |
| SAM Phantom                  | SPEAG        | QD000P40CD     | TP-1652    | N/A           | N/A           |
| SAM Phantom                  | SPEAG        | QD000P40CD     | TP-1653    | N/A           | N/A           |
| SAM Phantom                  | SPEAG        | QD000P40CD     | TP-1654    | N/A           | N/A           |
| ELI Phantom                  | SPEAG        | QDOVA001B      | TP-1043    | N/A           | N/A           |
| ELI Phantom                  | SPEAG        | QDOVA002AA     | 1204       | N/A           | N/A           |
| ELI Phantom                  | SPEAG        | QDOVA002AA     | 1206       | N/A           | N/A           |
| Radio Communication Tester   | Agilent      | E5515C         | MY50266630 | Oct. 02, 2013 | Biennial      |
| Radio Communication Analyzer | Anritsu      | MT8820C        | 6201010285 | Aug. 06, 2013 | Biennial      |
| ENA Series Network Analyzer  | Agilent      | E5071C         | MY46214281 | Jun. 10, 2013 | Annual        |
| MXG Analog Signal Generator  | Agilent      | N5181A         | MY50143868 | Jun. 06, 2013 | Annual        |
| Power Meter                  | Anritsu      | ML2495A        | 1218009    | Jun. 11, 2013 | Annual        |
| Power Sensor                 | Anritsu      | MA2411B        | 1207252    | Jun. 11, 2013 | Annual        |
| EXA Spectrum Analyzer        | Agilent      | N9010A         | MY52100136 | Jun. 26, 2013 | Annual        |
| Dielectric Probe Kit         | Agilent      | 85070D         | E2-020018  | May 13, 2013  | Annual        |
| Thermometer                  | YFE          | YF-160A        | 110600361  | Feb. 20, 2013 | Annual        |
| Directional Coupler          | Woken        | 0110A05602O-10 | 11122702   | Apr. 18, 2013 | Annual        |
| Power Amplifier              | AR           | 5S1G4          | 0339656    | Apr. 18, 2013 | Annual        |
| Power Amplifier              | Mini-Circuit | ZVE-8G         | 001000422  | Apr. 18, 2013 | Annual        |
| Attenuator                   | Woken        | 00800A1G01L-03 | N/A        | Apr. 18, 2013 | Annual        |

## 6. Measurement Uncertainty

| Error Description                    | Uncertainty Value (±%) | Probability Distribution | Divisor | Ci (1g) | Standard Uncertainty (1g) | Vi |
|--------------------------------------|------------------------|--------------------------|---------|---------|---------------------------|----|
| <b>Measurement System</b>            |                        |                          |         |         |                           |    |
| Probe Calibration                    | 6.0                    | Normal                   | 1       | 1       | ± 6.0 %                   | ∞  |
| Axial Isotropy                       | 4.7                    | Rectangular              | √3      | 0.7     | ± 1.9 %                   | ∞  |
| Hemispherical Isotropy               | 9.6                    | Rectangular              | √3      | 0.7     | ± 3.9 %                   | ∞  |
| Boundary Effects                     | 1.0                    | Rectangular              | √3      | 1       | ± 0.6 %                   | ∞  |
| Linearity                            | 4.7                    | Rectangular              | √3      | 1       | ± 2.7 %                   | ∞  |
| System Detection Limits              | 1.0                    | Rectangular              | √3      | 1       | ± 0.6 %                   | ∞  |
| Readout Electronics                  | 0.6                    | Normal                   | 1       | 1       | ± 0.6 %                   | ∞  |
| Response Time                        | 0.0                    | Rectangular              | √3      | 1       | ± 0.0 %                   | ∞  |
| Integration Time                     | 1.7                    | Rectangular              | √3      | 1       | ± 1.0 %                   | ∞  |
| RF Ambient Noise                     | 3.0                    | Rectangular              | √3      | 1       | ± 1.7 %                   | ∞  |
| RF Ambient Reflections               | 3.0                    | Rectangular              | √3      | 1       | ± 1.7 %                   | ∞  |
| Probe Positioner                     | 0.5                    | Rectangular              | √3      | 1       | ± 0.3 %                   | ∞  |
| Probe Positioning                    | 2.9                    | Rectangular              | √3      | 1       | ± 1.7 %                   | ∞  |
| Max. SAR Eval.                       | 2.3                    | Rectangular              | √3      | 1       | ± 1.3 %                   | ∞  |
| <b>Test Sample Related</b>           |                        |                          |         |         |                           |    |
| Device Positioning                   | 3.9                    | Normal                   | 1       | 1       | ± 3.9 %                   | 31 |
| Device Holder                        | 2.7                    | Normal                   | 1       | 1       | ± 2.7 %                   | 19 |
| Power Drift                          | 5.0                    | Rectangular              | √3      | 1       | ± 2.9 %                   | ∞  |
| <b>Phantom and Setup</b>             |                        |                          |         |         |                           |    |
| Phantom Uncertainty                  | 4.0                    | Rectangular              | √3      | 1       | ± 2.3 %                   | ∞  |
| Liquid Conductivity (Target)         | 5.0                    | Rectangular              | √3      | 0.64    | ± 1.8 %                   | ∞  |
| Liquid Conductivity (Meas.)          | 5.0                    | Normal                   | 1       | 0.64    | ± 3.2 %                   | 29 |
| Liquid Permittivity (Target)         | 5.0                    | Rectangular              | √3      | 0.6     | ± 1.7 %                   | ∞  |
| Liquid Permittivity (Meas.)          | 5.0                    | Normal                   | 1       | 0.6     | ± 3.0 %                   | 29 |
| <b>Combined Standard Uncertainty</b> |                        |                          |         |         | ± 11.7 %                  |    |
| <b>Expanded Uncertainty (K=2)</b>    |                        |                          |         |         | ± 23.4 %                  |    |

Uncertainty budget for frequency range 300 MHz to 3 GHz

# FCC SAR Test Report

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| Error Description                    | Uncertainty Value (±%) | Probability Distribution | Divisor | Ci (1g) | Standard Uncertainty (1g) | Vi |
|--------------------------------------|------------------------|--------------------------|---------|---------|---------------------------|----|
| <b>Measurement System</b>            |                        |                          |         |         |                           |    |
| Probe Calibration                    | 6.55                   | Normal                   | 1       | 1       | ± 6.55 %                  | ∞  |
| Axial Isotropy                       | 4.7                    | Rectangular              | √3      | 0.7     | ± 1.9 %                   | ∞  |
| Hemispherical Isotropy               | 9.6                    | Rectangular              | √3      | 0.7     | ± 3.9 %                   | ∞  |
| Boundary Effects                     | 2.0                    | Rectangular              | √3      | 1       | ± 1.2 %                   | ∞  |
| Linearity                            | 4.7                    | Rectangular              | √3      | 1       | ± 2.7 %                   | ∞  |
| System Detection Limits              | 1.0                    | Rectangular              | √3      | 1       | ± 0.6 %                   | ∞  |
| Readout Electronics                  | 0.3                    | Normal                   | 1       | 1       | ± 0.3 %                   | ∞  |
| Response Time                        | 0.8                    | Rectangular              | √3      | 1       | ± 0.5 %                   | ∞  |
| Integration Time                     | 2.6                    | Rectangular              | √3      | 1       | ± 1.5 %                   | ∞  |
| RF Ambient Noise                     | 3.0                    | Rectangular              | √3      | 1       | ± 1.7 %                   | ∞  |
| RF Ambient Reflections               | 3.0                    | Rectangular              | √3      | 1       | ± 1.7 %                   | ∞  |
| Probe Positioner                     | 0.8                    | Rectangular              | √3      | 1       | ± 0.5 %                   | ∞  |
| Probe Positioning                    | 9.9                    | Rectangular              | √3      | 1       | ± 5.7 %                   | ∞  |
| Max. SAR Eval.                       | 4.0                    | Rectangular              | √3      | 1       | ± 2.3 %                   | ∞  |
| <b>Test Sample Related</b>           |                        |                          |         |         |                           |    |
| Device Positioning                   | 3.9                    | Normal                   | 1       | 1       | ± 3.9 %                   | 31 |
| Device Holder                        | 2.7                    | Normal                   | 1       | 1       | ± 2.7 %                   | 19 |
| Power Drift                          | 5.0                    | Rectangular              | √3      | 1       | ± 2.9 %                   | ∞  |
| <b>Phantom and Setup</b>             |                        |                          |         |         |                           |    |
| Phantom Uncertainty                  | 4.0                    | Rectangular              | √3      | 1       | ± 2.3 %                   | ∞  |
| Liquid Conductivity (Target)         | 5.0                    | Rectangular              | √3      | 0.64    | ± 1.8 %                   | ∞  |
| Liquid Conductivity (Meas.)          | 5.0                    | Normal                   | 1       | 0.64    | ± 3.2 %                   | 30 |
| Liquid Permittivity (Target)         | 5.0                    | Rectangular              | √3      | 0.6     | ± 1.7 %                   | ∞  |
| Liquid Permittivity (Meas.)          | 5.0                    | Normal                   | 1       | 0.6     | ± 3.0 %                   | 30 |
| <b>Combined Standard Uncertainty</b> |                        |                          |         |         | ± 13.4 %                  |    |
| <b>Expanded Uncertainty (K=2)</b>    |                        |                          |         |         | ± 26.8 %                  |    |

Uncertainty budget for frequency range 3 GHz to 6 GHz

## FCC SAR Test Report

### 7. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

The road map of all our labs can be found in our web site also.

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### Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

**System Check\_H750\_140106****DUT: Dipole 750 MHz; Type: D750V3; SN: 1013**

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: H750\_0106 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.908$  S/m;  $\epsilon_r = 40.492$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.3 °C; Liquid Temperature : 20.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(9.39, 9.39, 9.39); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.63 W/kg

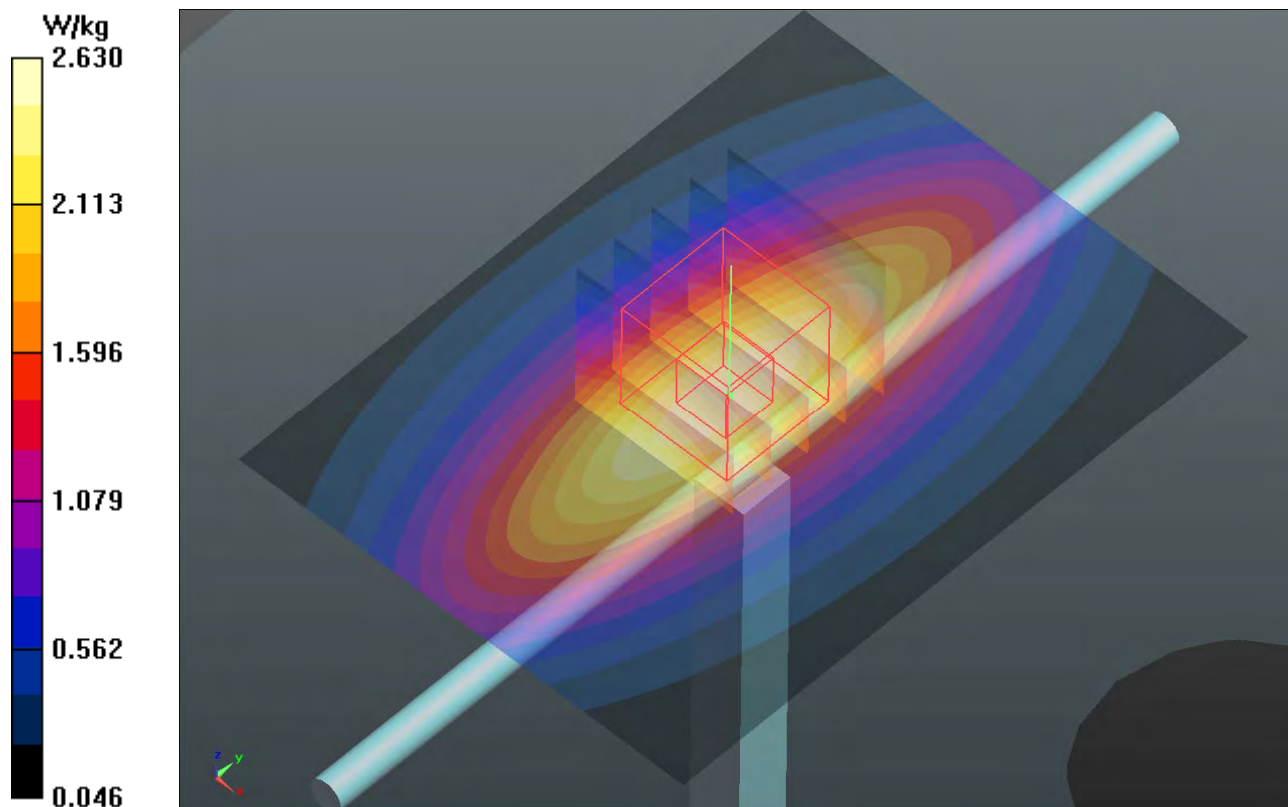
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.628 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.19 W/kg

**SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.43 W/kg**

Maximum value of SAR (measured) = 2.72 W/kg



**System Check\_H835\_140106****DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: H835\_0106 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.889$  S/m;  $\epsilon_r = 42.897$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.3 °C; Liquid Temperature : 20.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(9, 9, 9); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.83 W/kg

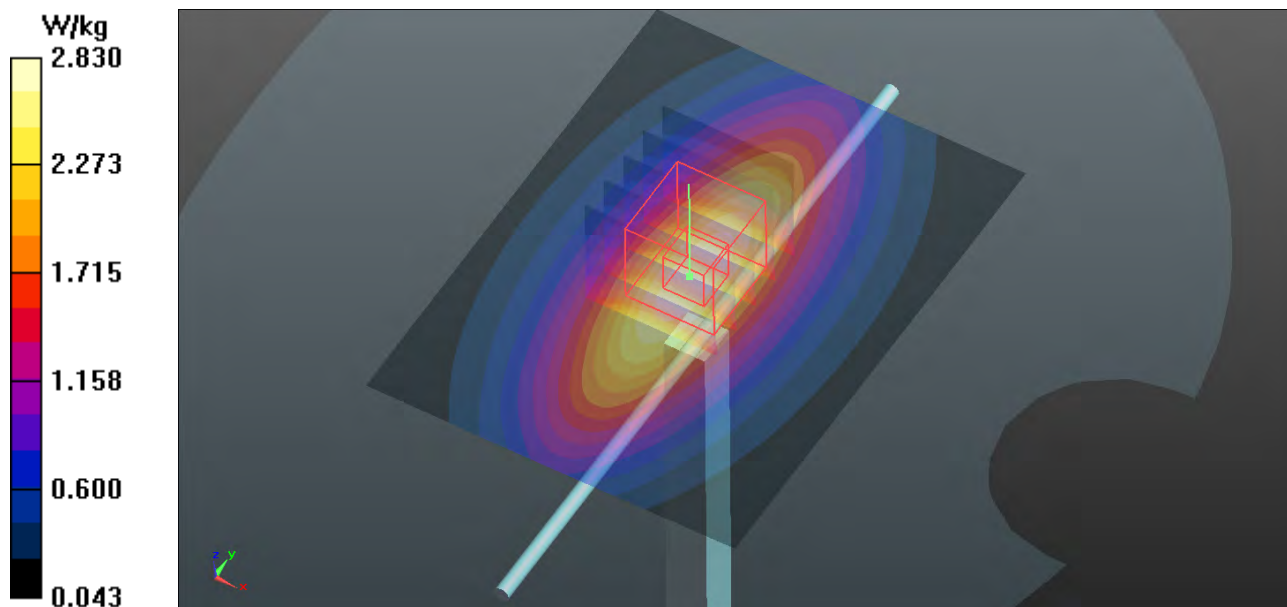
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 57.622 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 3.47 W/kg

**SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.51 W/kg**

Maximum value of SAR (measured) = 2.94 W/kg



## System Check\_H1750\_140115

**DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: H1750\_0115 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.358$  S/m;  $\epsilon_r = 39.714$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.49, 8.49, 8.49); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.0 W/kg

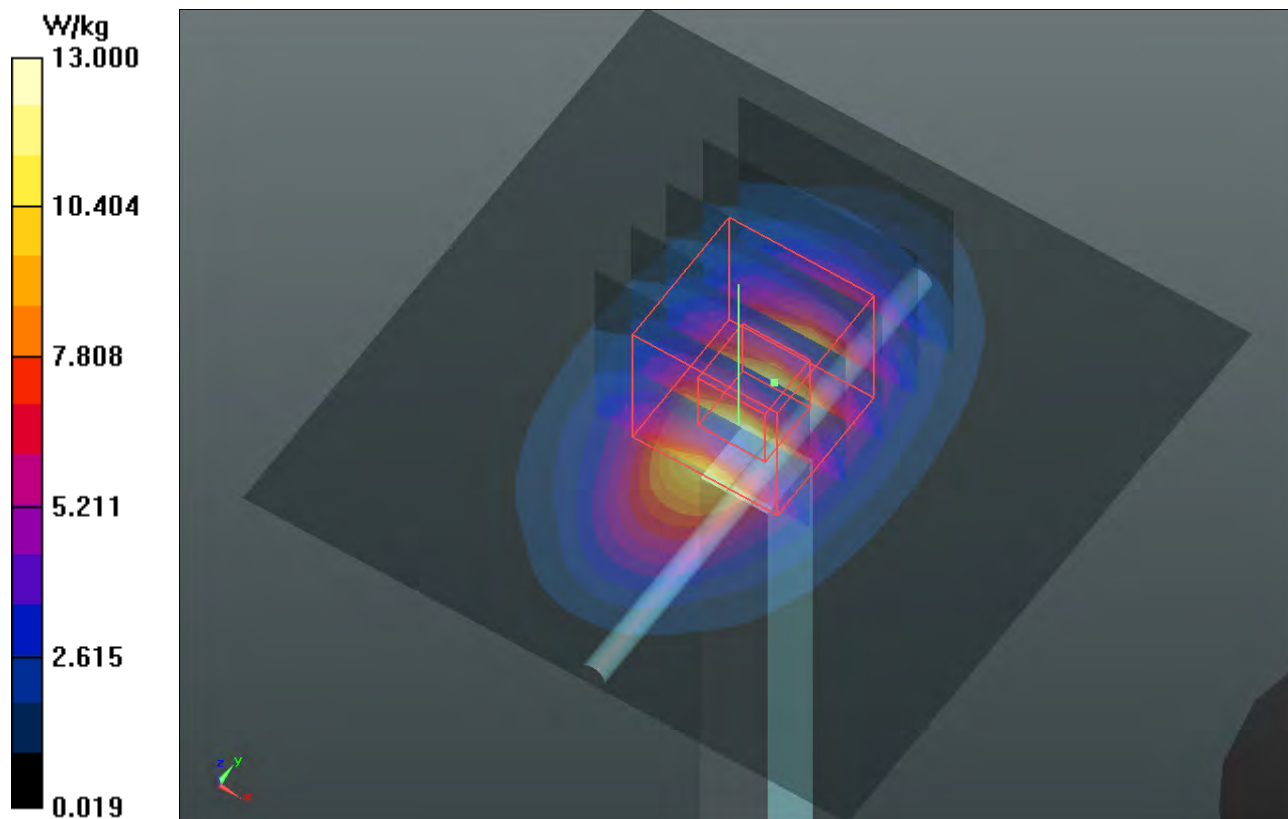
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 97.937 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 15.8 W/kg

**SAR(1 g) = 8.71 W/kg; SAR(10 g) = 4.62 W/kg**

Maximum value of SAR (measured) = 12.4 W/kg



## System Check\_H1900\_140106

**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: H1900\_0106 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.442$  S/m;  $\epsilon_r = 39.194$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.5 °C; Liquid Temperature : 20.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(7.67, 7.67, 7.67); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.8 W/kg

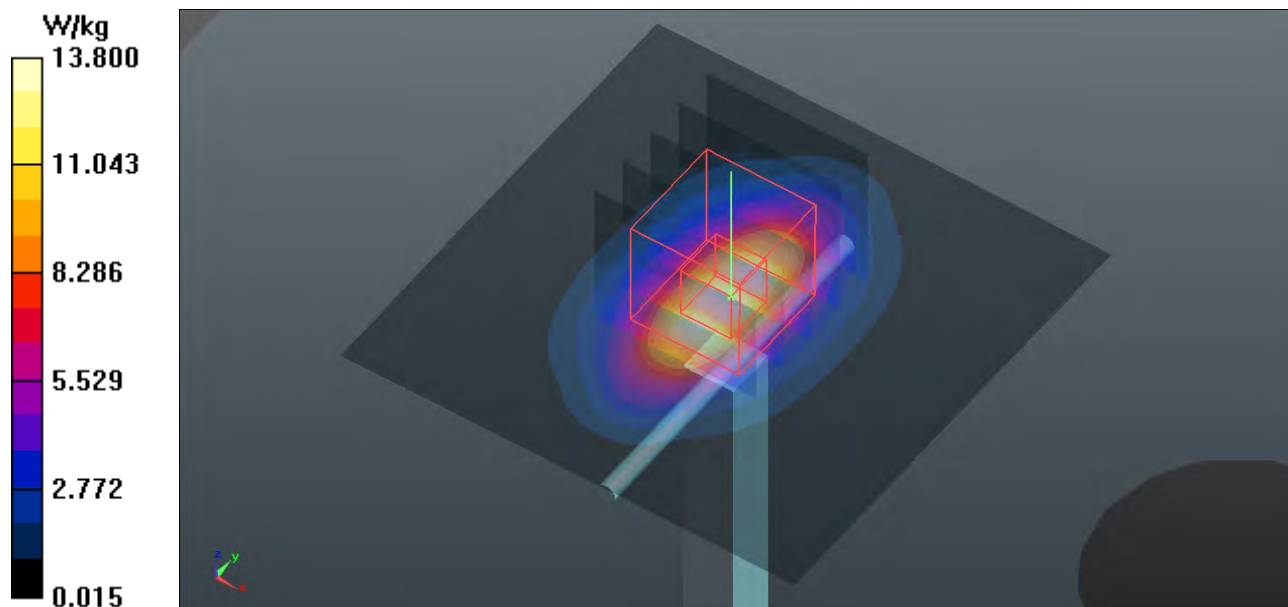
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 99.695 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.8 W/kg

**SAR(1 g) = 9.5 W/kg; SAR(10 g) = 4.85 W/kg**

Maximum value of SAR (measured) = 13.9 W/kg



**System Check\_H1900\_140115****DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: H1900\_0115 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.415$  S/m;  $\epsilon_r = 40.328$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.2, 8.2, 8.2); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.7 W/kg

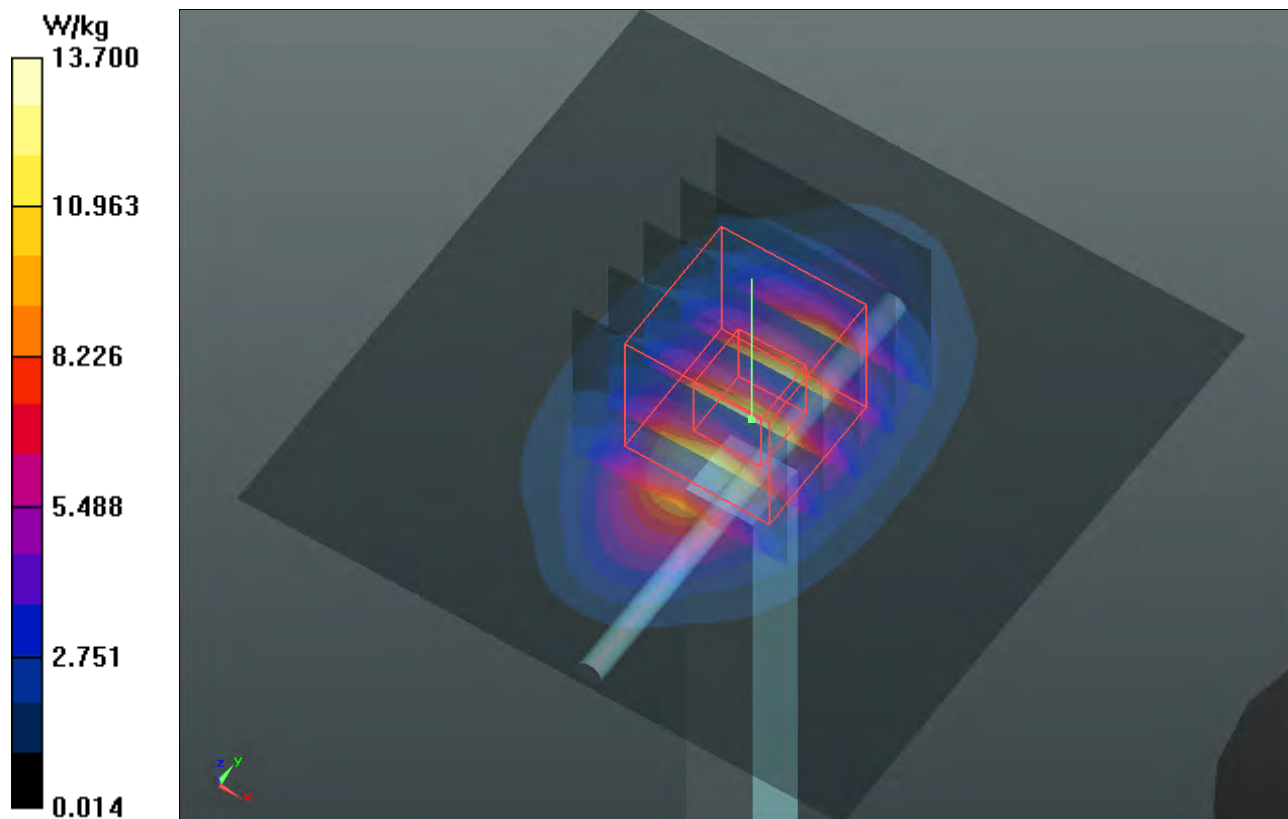
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 99.757 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 18.7 W/kg

**SAR(1 g) = 9.67 W/kg; SAR(10 g) = 4.86 W/kg**

Maximum value of SAR (measured) = 14.2 W/kg



## System Check\_H2450\_140103

**DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H2450\_0103 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.782$  S/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.7 °C; Liquid Temperature : 20.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.99, 6.99, 6.99); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 18.3 W/kg

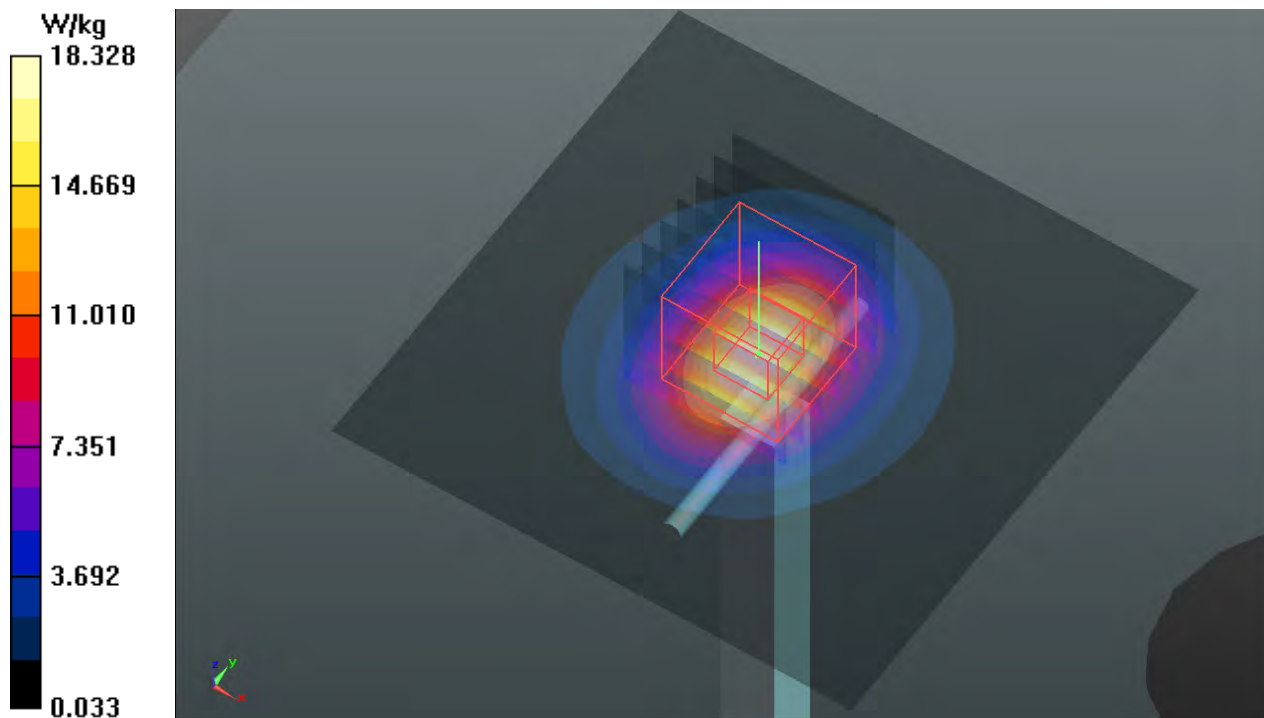
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.1 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 24.3 W/kg

**SAR(1 g) = 12.3 W/kg; SAR(10 g) = 6.06 W/kg**

Maximum value of SAR (measured) = 18.3 W/kg



## System Check\_H2600\_140103

**DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: H2600\_0103 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.056$  S/m;  $\epsilon_r = 37.589$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.8 °C; Liquid Temperature : 21.0 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.85, 6.85, 6.85); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 21.8 W/kg

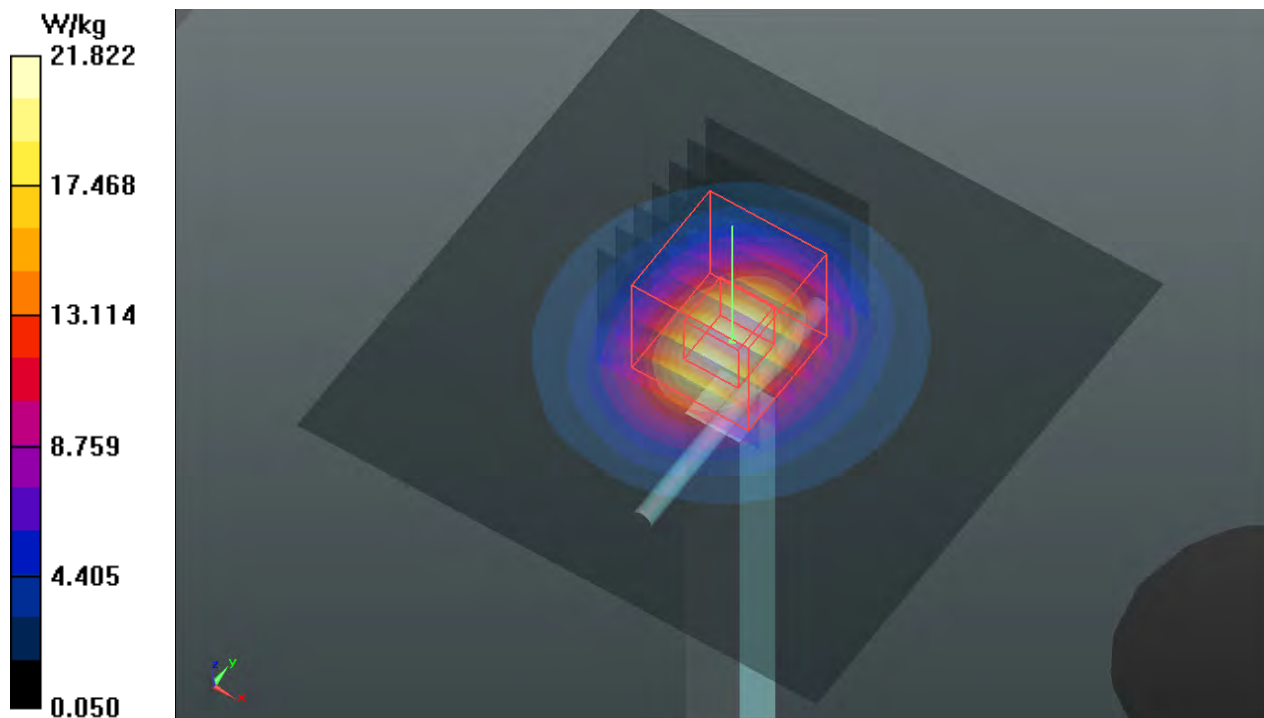
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 104.4 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 29.7 W/kg

**SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.93 W/kg**

Maximum value of SAR (measured) = 22.0 W/kg



**System Check\_H5200\_140117****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: H5G\_0117 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.842$  S/m;  $\epsilon_r = 35.259$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(5.33, 5.33, 5.33); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.6 W/kg

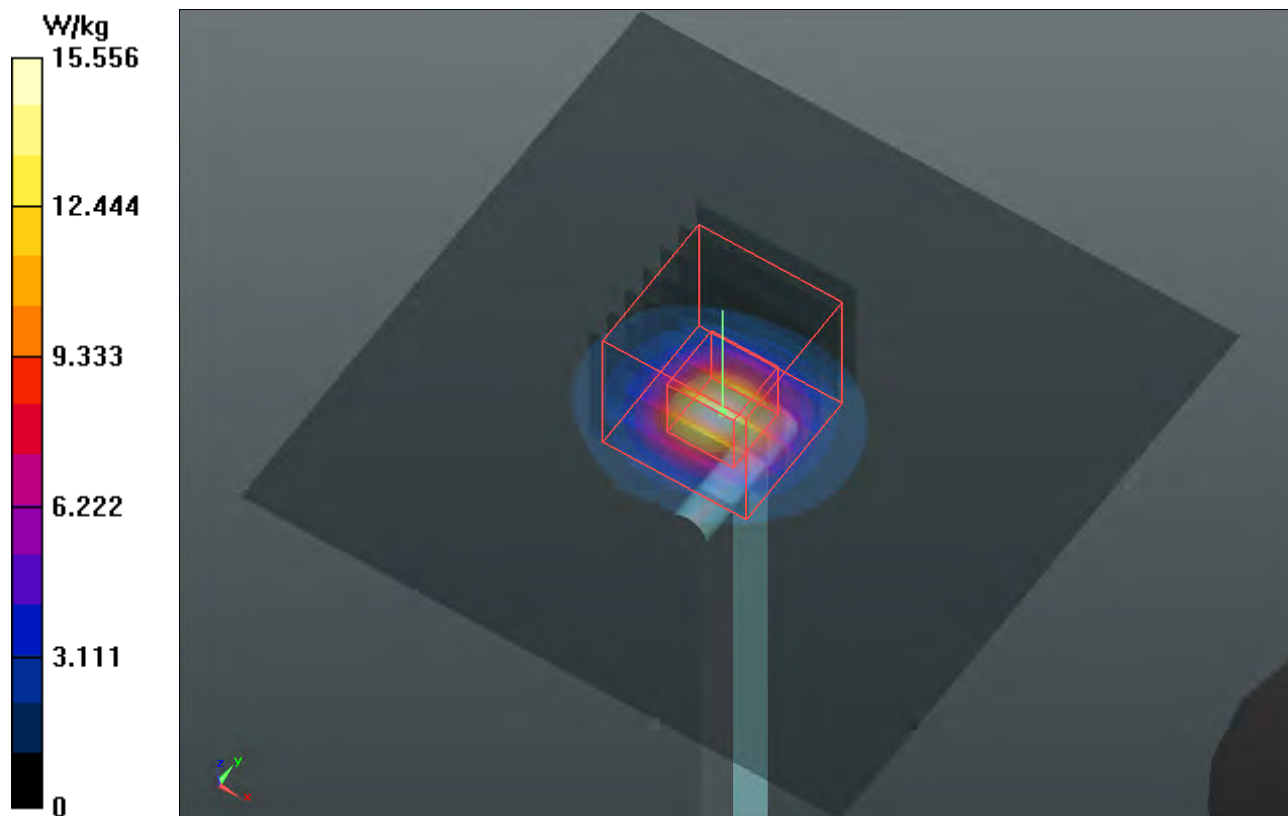
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.582 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 33.2 W/kg

**SAR(1 g) = 7.5 W/kg; SAR(10 g) = 2.12 W/kg**

Maximum value of SAR (measured) = 15.8 W/kg



**System Check\_H5300\_140117****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: H5G\_0117 Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.957$  S/m;  $\epsilon_r = 35.073$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(4.69, 4.69, 4.69); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 17.4 W/kg

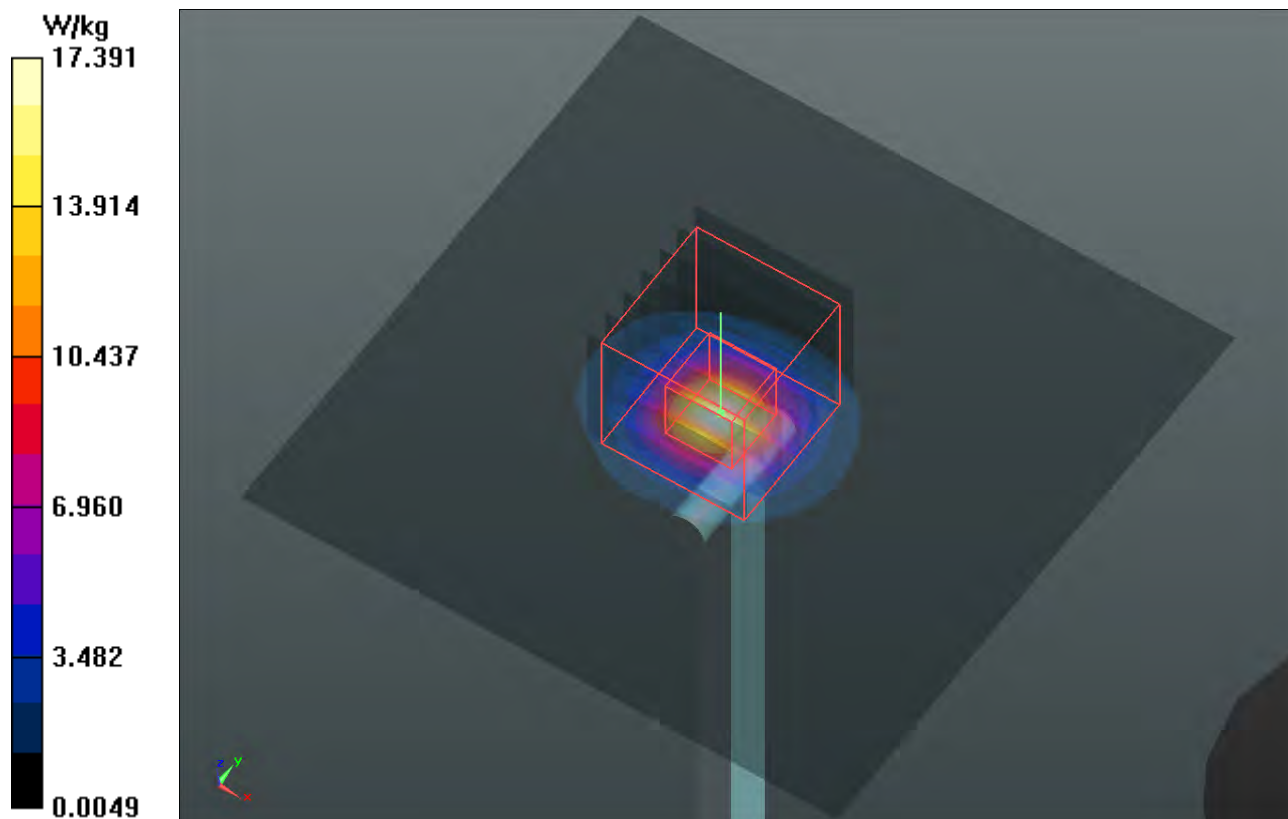
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.897 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 35.4 W/kg

**SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.23 W/kg**

Maximum value of SAR (measured) = 16.7 W/kg



**System Check\_H5600\_140117****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: H5G\_0117 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.285$  S/m;  $\epsilon_r = 34.528$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(4.69, 4.69, 4.69); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.6 W/kg

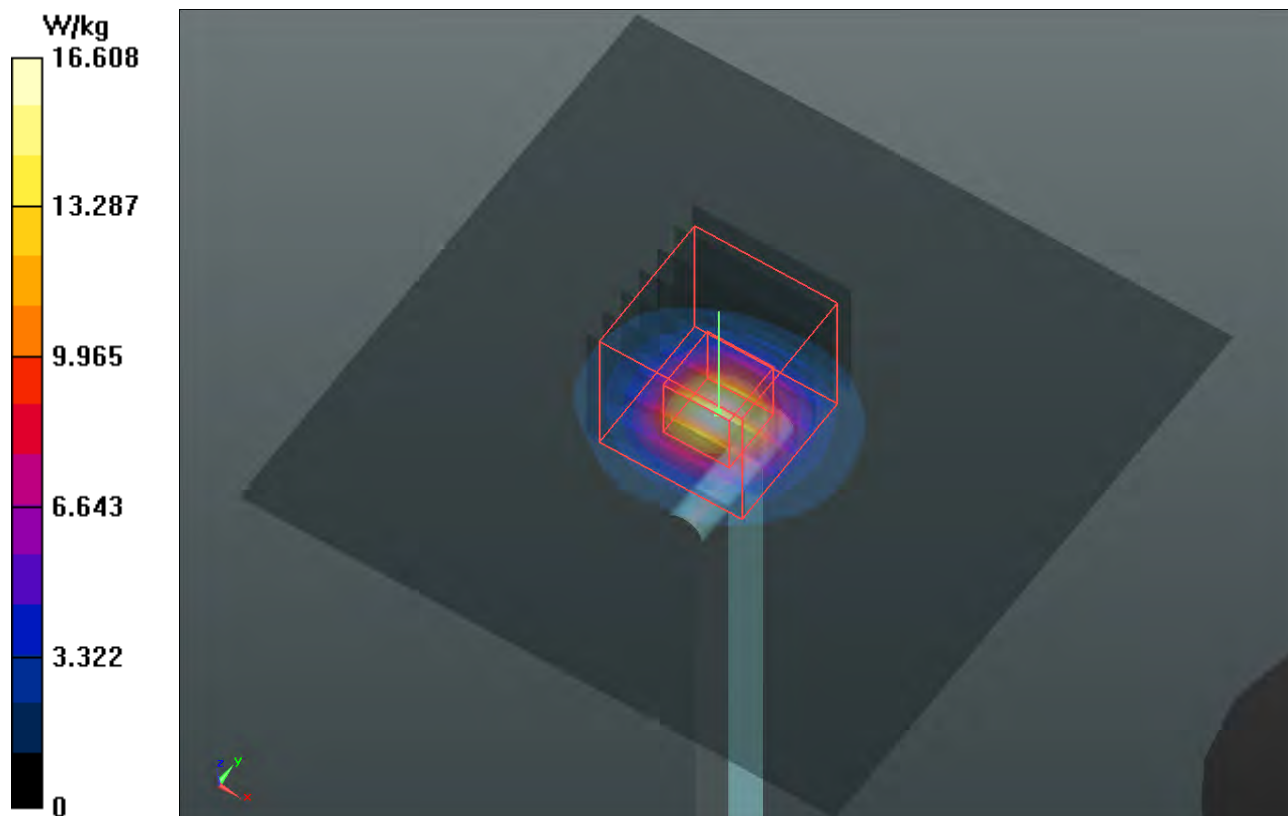
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.387 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 34.5 W/kg

**SAR(1 g) = 7.64 W/kg; SAR(10 g) = 2.17 W/kg**

Maximum value of SAR (measured) = 15.9 W/kg



**System Check\_H5800\_140117****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: H5G\_0117 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.508$  S/m;  $\epsilon_r = 34.184$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(4.69, 4.69, 4.69); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.2 W/kg

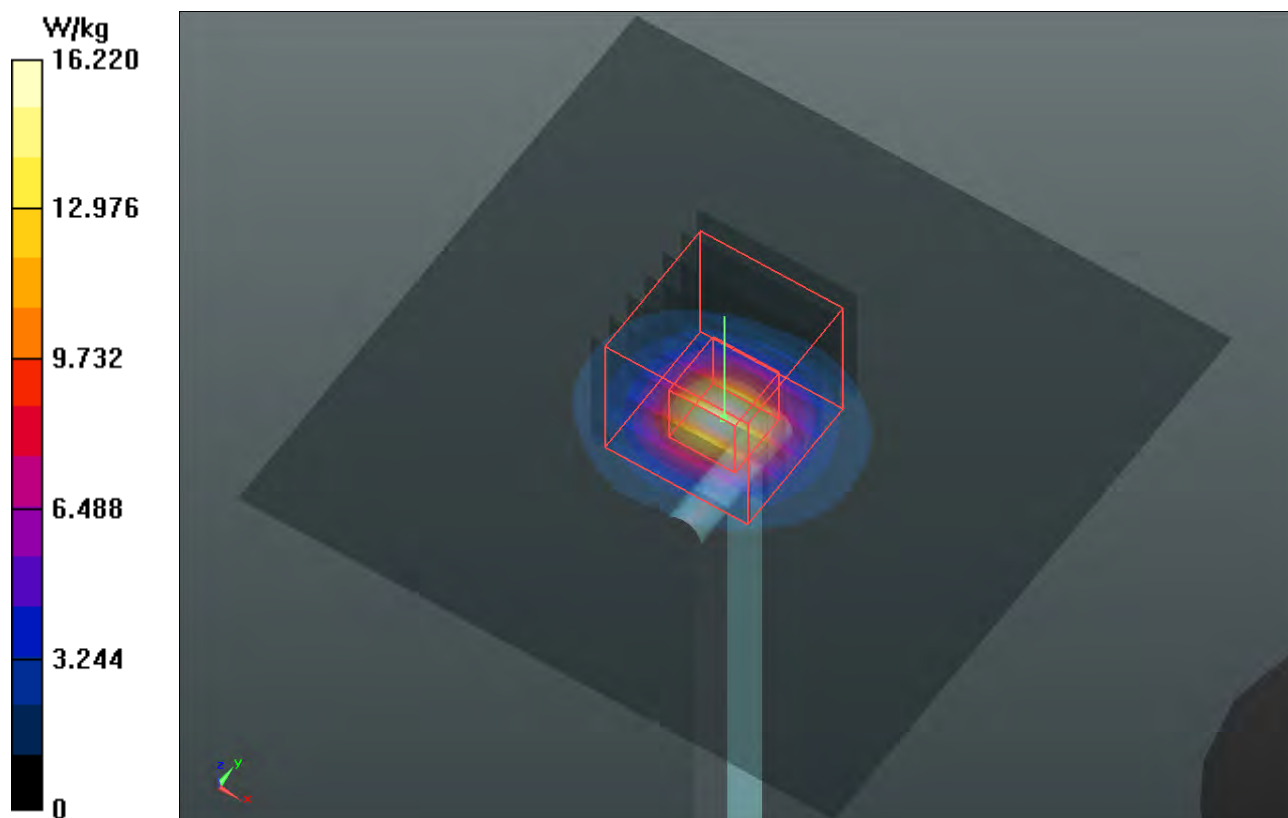
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.825 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 35.7 W/kg

**SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.16 W/kg**

Maximum value of SAR (measured) = 16.3 W/kg



## System Check\_B750\_140107

**DUT: Dipole 750 MHz; Type: D750V3; SN: 1013**

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: B750\_0107 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.967$  S/m;  $\epsilon_r = 55.24$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C; Liquid Temperature : 21.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.51, 9.51, 9.51); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 2.76 W/kg

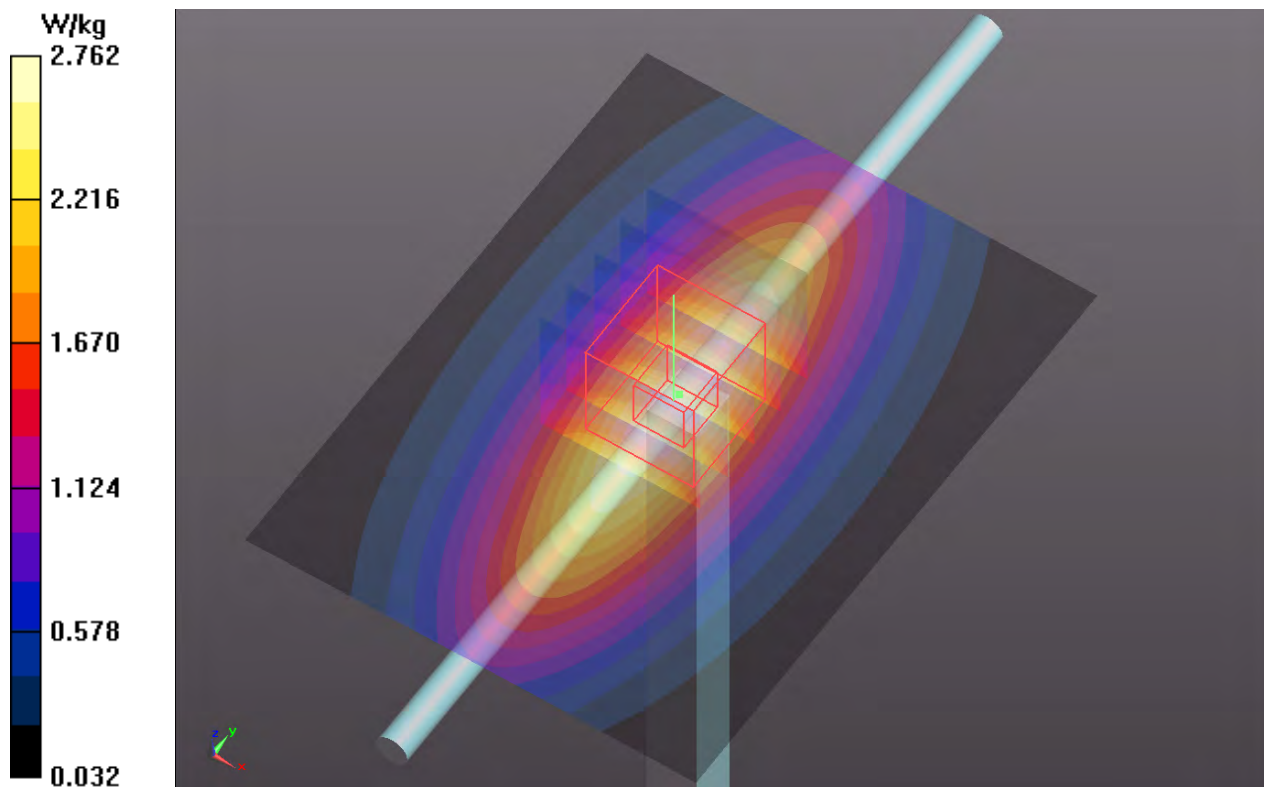
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 54.319 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.22 W/kg

**SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.48 W/kg**

Maximum value of SAR (measured) = 2.77 W/kg



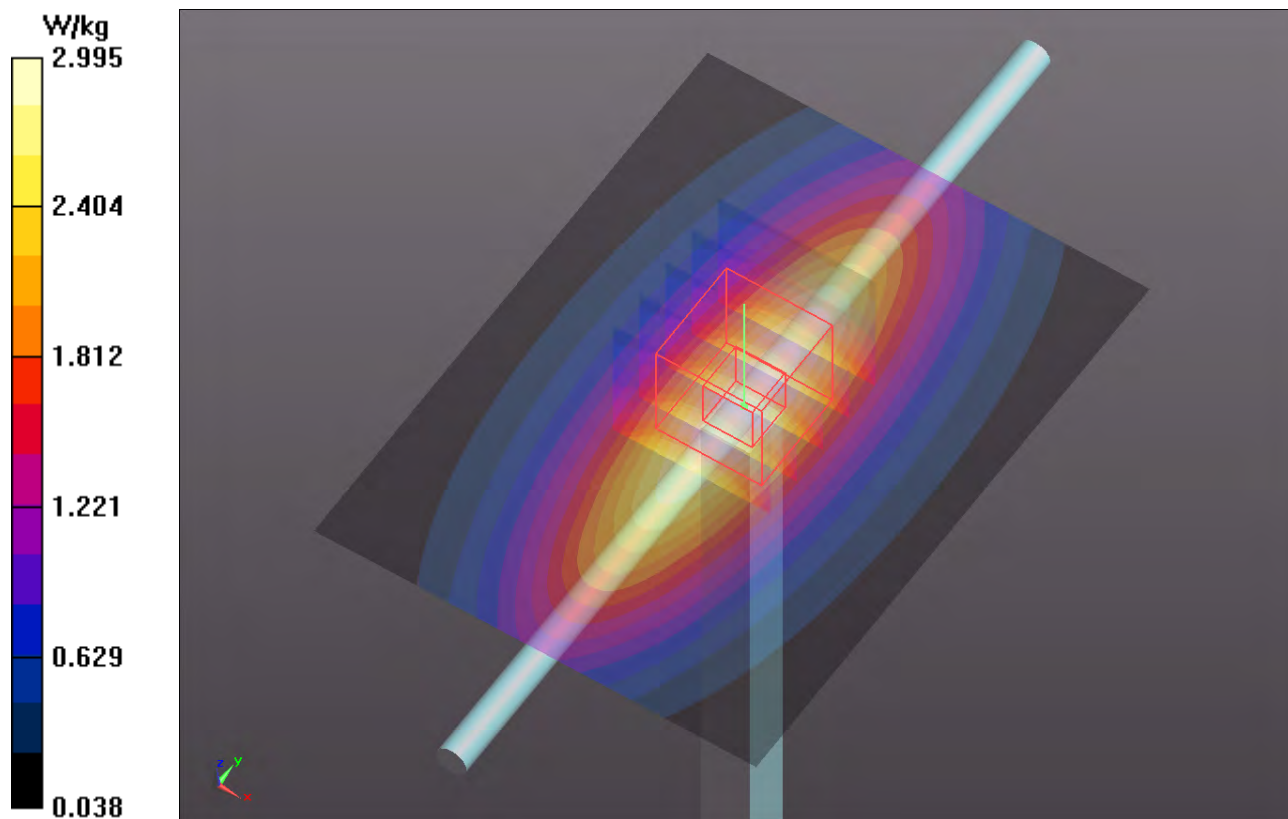
**System Check\_B750\_140116****DUT: Dipole 750 MHz; Type: D750V3; SN: 1013**

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: B750\_0116 Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.966 \text{ S/m}$ ;  $\epsilon_r = 55.259$ ;  $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature :  $21.2 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $20.3 \text{ }^\circ\text{C}$ 

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.15, 10.15, 10.15); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $2.99 \text{ W/kg}$ **Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $57.102 \text{ V/m}$ ; Power Drift =  $-0.04 \text{ dB}$ Peak SAR (extrapolated) =  $3.43 \text{ W/kg}$ **SAR(1 g) =  $2.37 \text{ W/kg}$ ; SAR(10 g) =  $1.62 \text{ W/kg}$** Maximum value of SAR (measured) =  $2.99 \text{ W/kg}$ 

## System Check\_B835\_140104

**DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: B835\_0104 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.999$  S/m;  $\epsilon_r = 56.864$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.97 W/kg

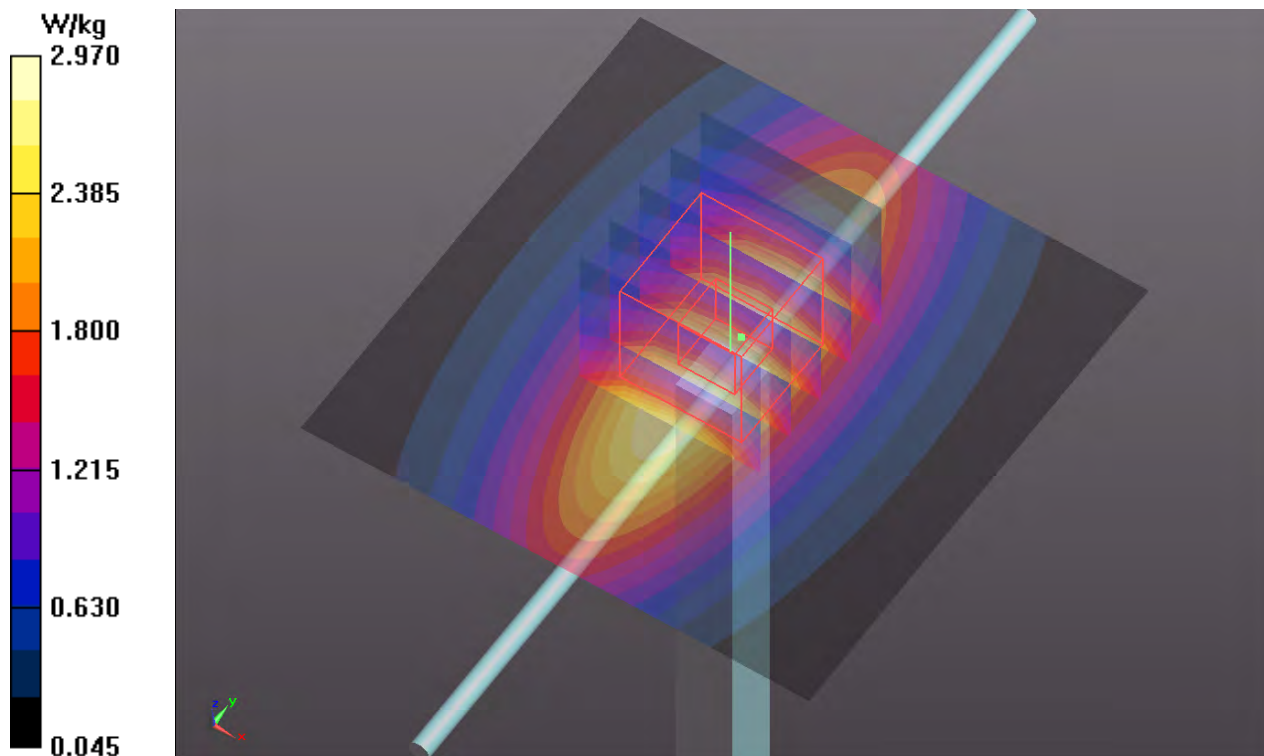
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 51.997 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.51 W/kg

**SAR(1 g) = 2.32 W/kg; SAR(10 g) = 1.52 W/kg**

Maximum value of SAR (measured) = 2.95 W/kg



## System Check\_B835\_140107

**DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: B835\_0107 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.998$  S/m;  $\epsilon_r = 56.679$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C; Liquid Temperature : 21.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.32 W/kg

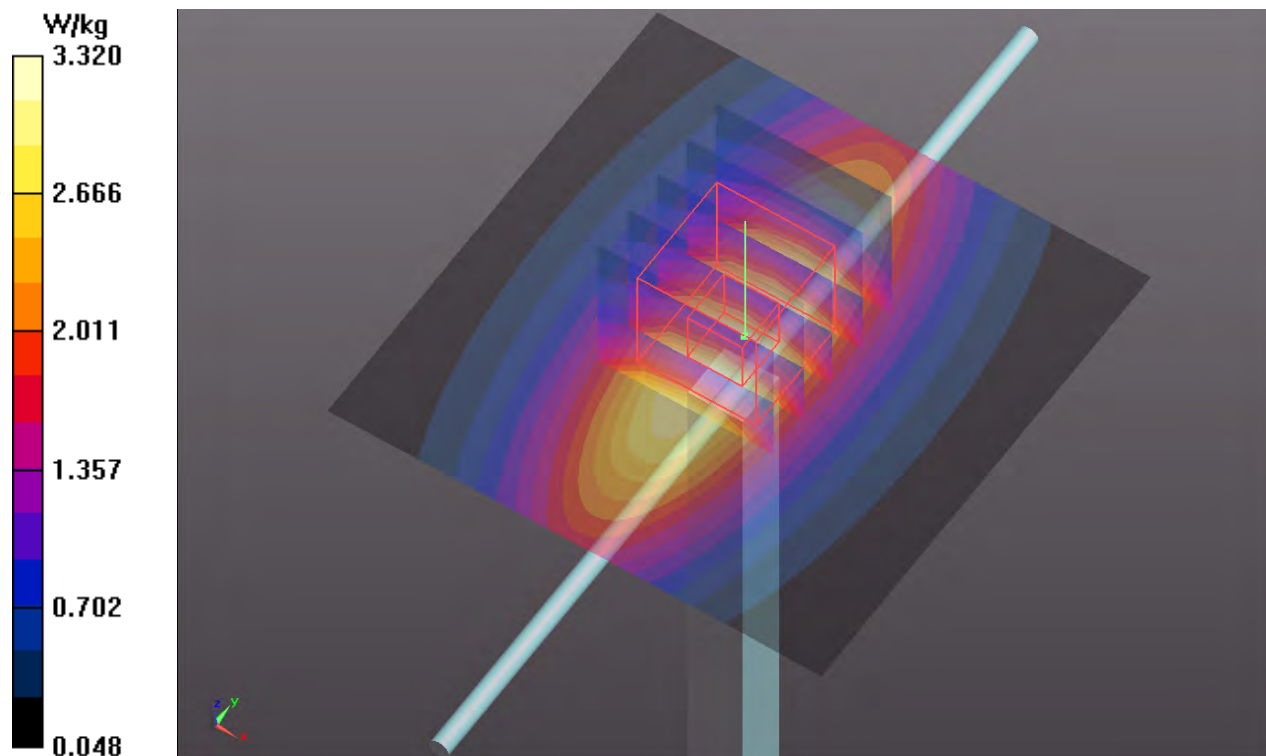
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 55.280 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.86 W/kg

**SAR(1 g) = 2.56 W/kg; SAR(10 g) = 1.68 W/kg**

Maximum value of SAR (measured) = 3.24 W/kg



**System Check\_B835\_140116****DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: B835\_0116 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.992$  S/m;  $\epsilon_r = 55.471$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.14, 10.14, 10.14); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.33 W/kg

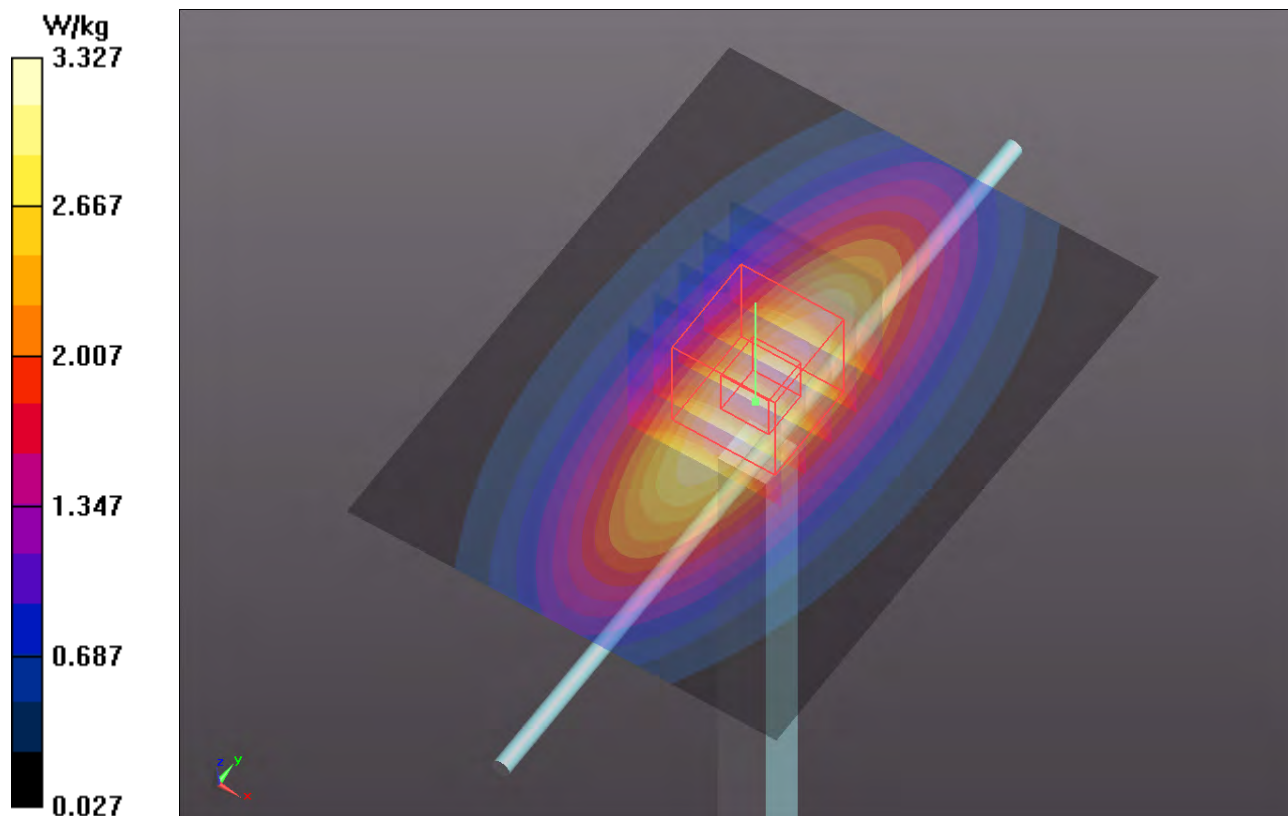
**Configuration/Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 59.148 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.89 W/kg

**SAR(1 g) = 2.61 W/kg; SAR(10 g) = 1.74 W/kg**

Maximum value of SAR (measured) = 3.33 W/kg



**System Check\_B1750\_140115****DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: B1750\_0115 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.487$  S/m;  $\epsilon_r = 52.082$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.1, 8.1, 8.1); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.1 W/kg

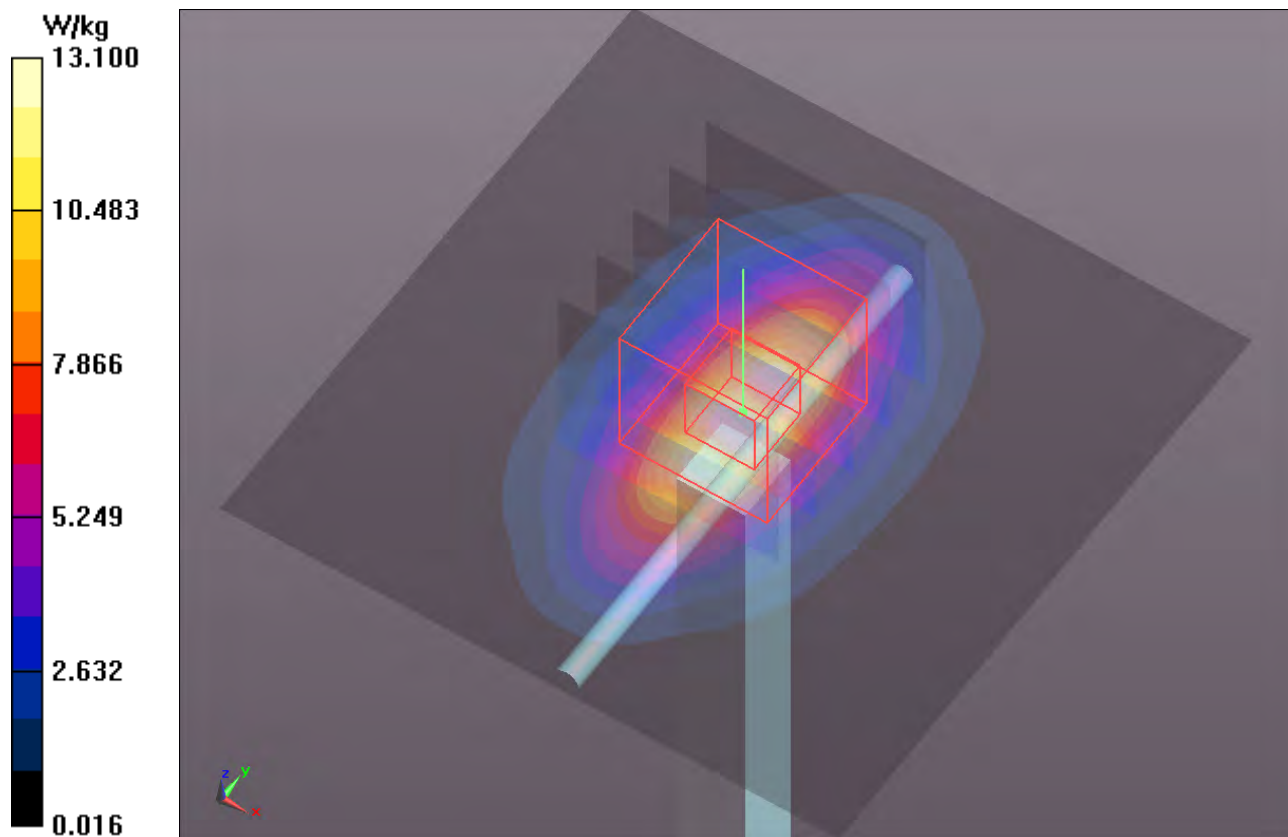
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.471 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 16.2 W/kg

**SAR(1 g) = 9.31 W/kg; SAR(10 g) = 5.02 W/kg**

Maximum value of SAR (measured) = 13.1 W/kg



## System Check\_B1900\_140103

**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: B1900\_0103 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.542$  S/m;  $\epsilon_r = 53.199$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.5 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.39, 7.39, 7.39); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 14.5 W/kg

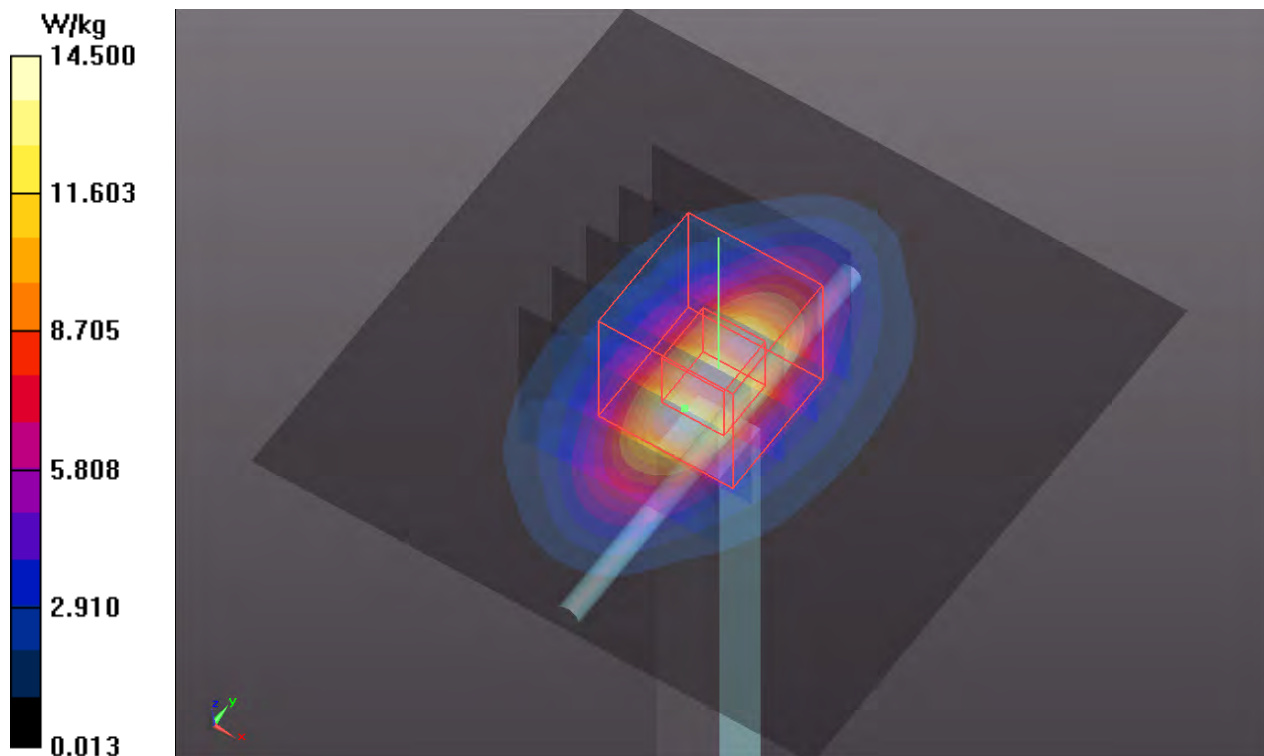
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 98.005 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 17.8 W/kg

**SAR(1 g) = 9.87 W/kg; SAR(10 g) = 5.12 W/kg**

Maximum value of SAR (measured) = 14.0 W/kg



**System Check\_B1900\_140106****DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: B1900\_0106 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.552$  S/m;  $\epsilon_r = 51.953$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(7.23, 7.23, 7.23); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.7 W/kg

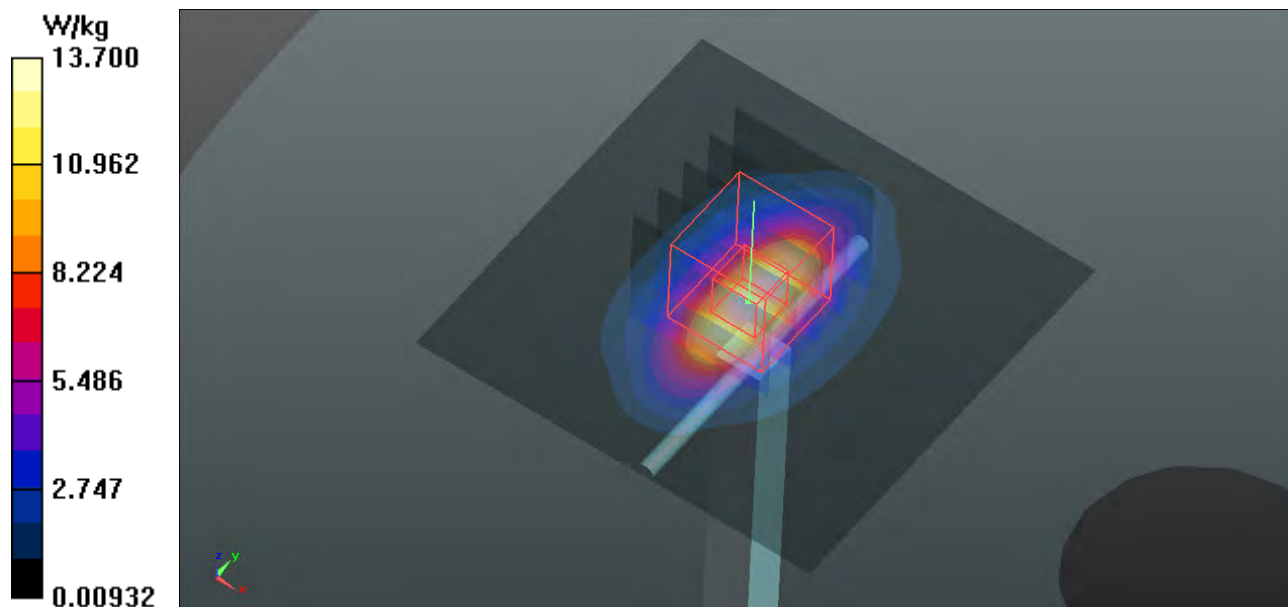
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.888 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 17.0 W/kg

**SAR(1 g) = 9.58 W/kg; SAR(10 g) = 4.97 W/kg**

Maximum value of SAR (measured) = 13.7 W/kg



## System Check\_B1900\_140106

**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: B1900\_0106 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.56$  S/m;  $\epsilon_r = 53.444$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.39, 7.39, 7.39); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 14.8 W/kg

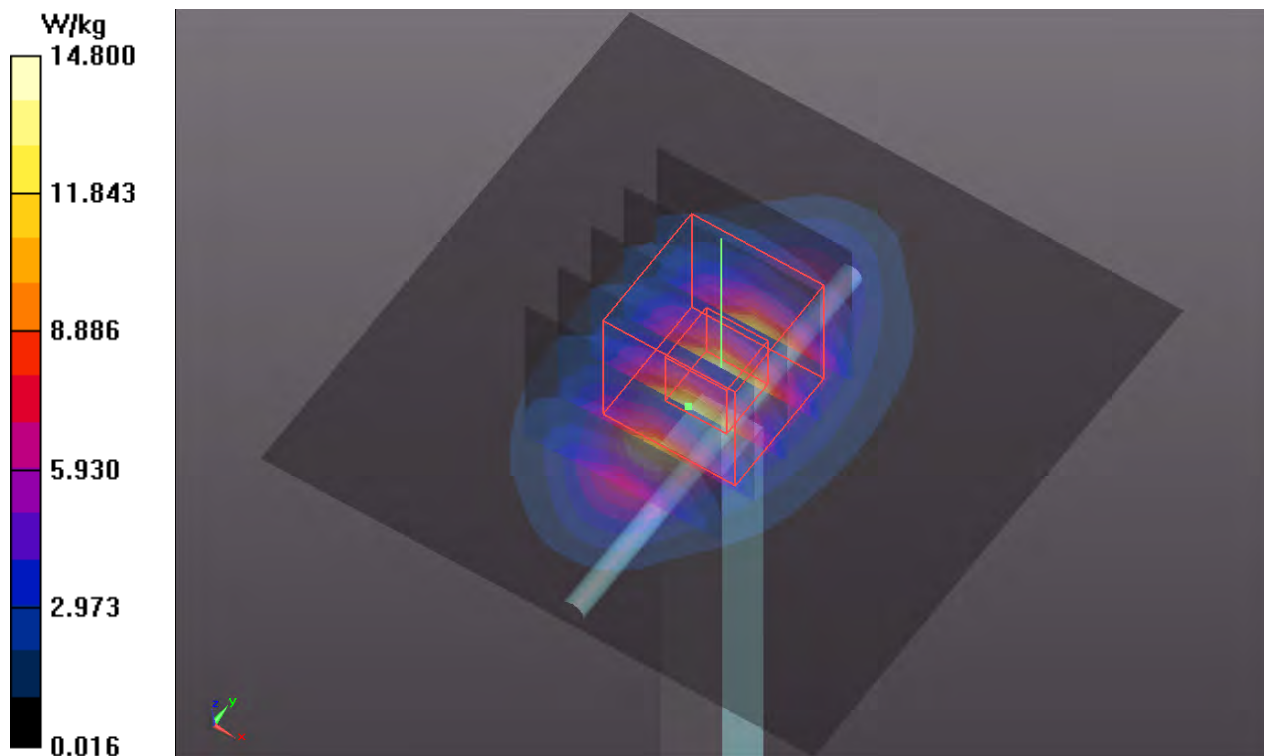
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 97.932 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 18.1 W/kg

**SAR(1 g) = 10 W/kg; SAR(10 g) = 5.21 W/kg**

Maximum value of SAR (measured) = 14.2 W/kg



**System Check\_B1900\_140115****DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: B1900\_0115 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.542$  S/m;  $\epsilon_r = 53.199$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(7.87, 7.87, 7.87); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.6 W/kg

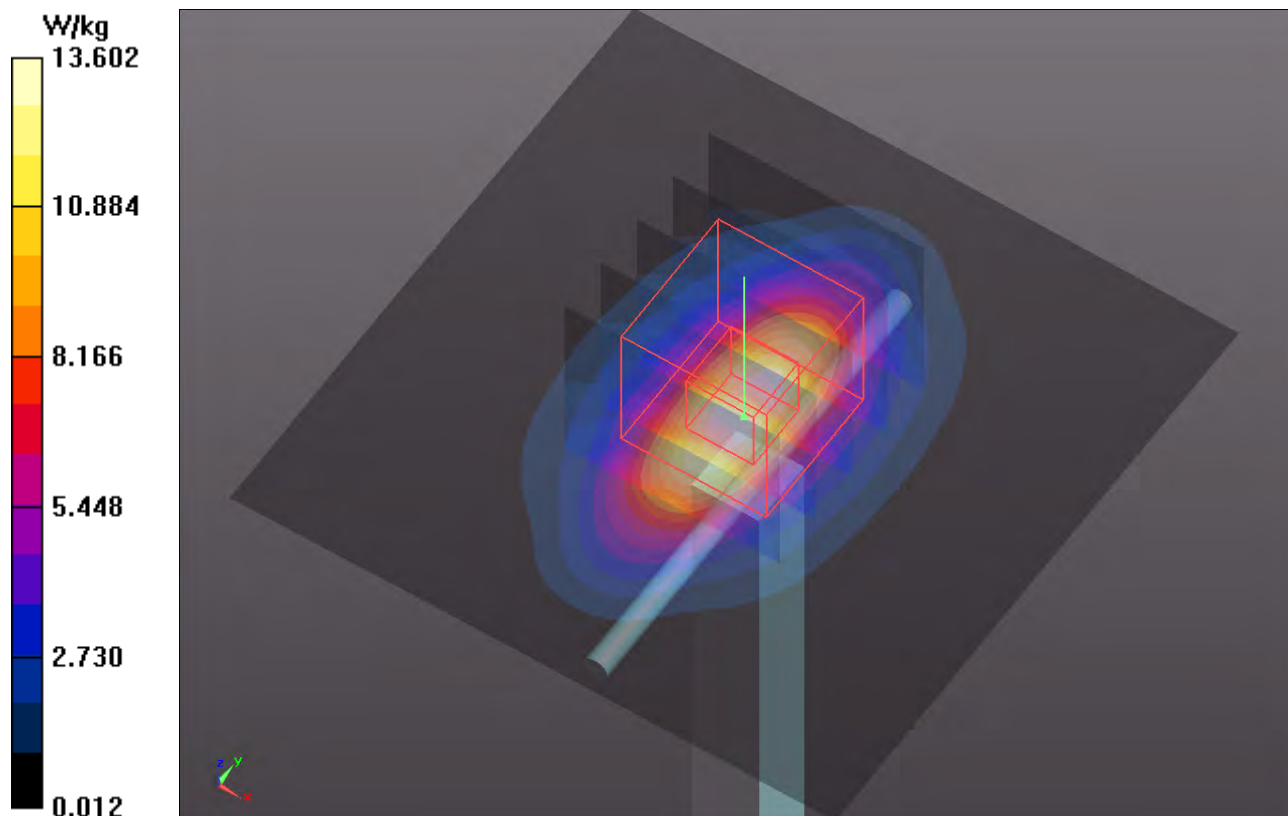
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.691 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 17.1 W/kg

**SAR(1 g) = 9.51 W/kg; SAR(10 g) = 4.93 W/kg**

Maximum value of SAR (measured) = 13.6 W/kg



## System Check\_B2450\_140103

**DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: B2450\_0103 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.964$  S/m;  $\epsilon_r = 51.198$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.09, 7.09, 7.09); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 18.4 W/kg

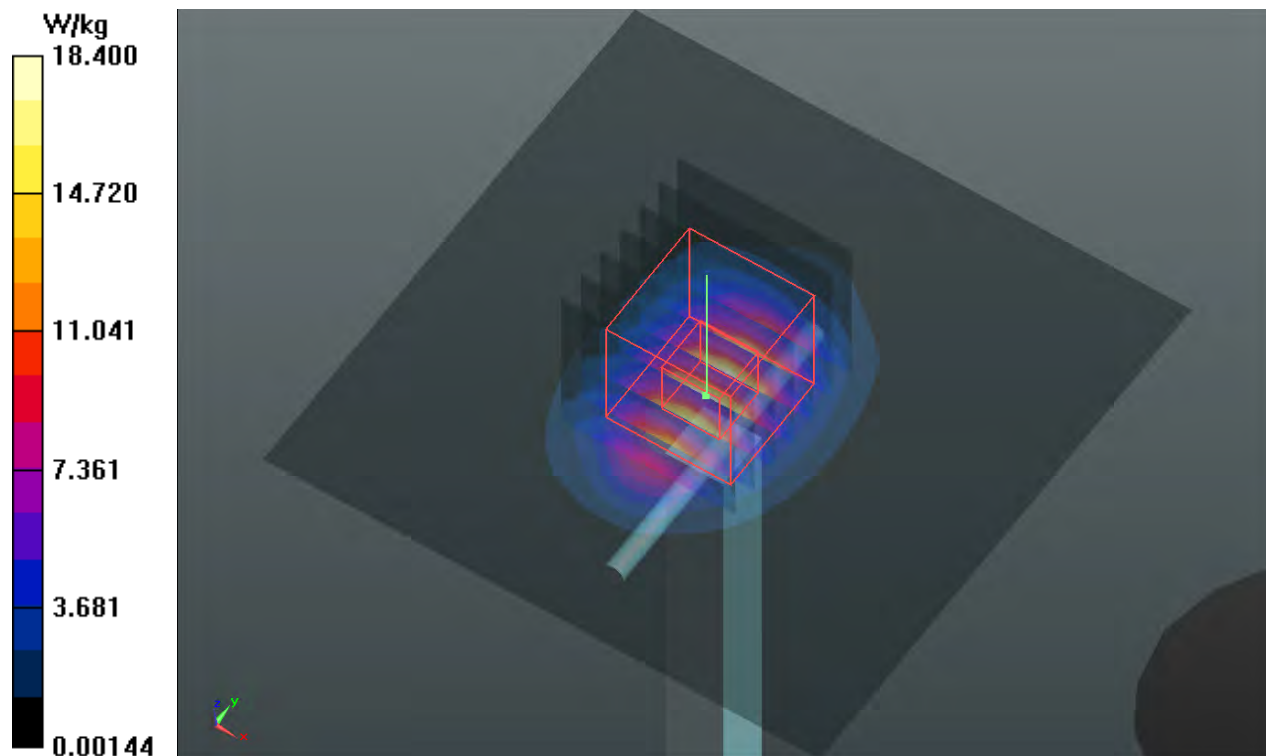
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 96.062 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 24.8 W/kg

**SAR(1 g) = 11.8 W/kg; SAR(10 g) = 5.47 W/kg**

Maximum value of SAR (measured) = 18.2 W/kg



**System Check\_B2450\_140115****DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: B2450\_0115 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.976$  S/m;  $\epsilon_r = 51.413$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.8°C; Liquid Temperature : 20.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(8.08, 8.08, 8.08); Calibrated: 2013/02/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2013/03/19
- Phantom: ELI v4.0\_Right; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 19.4 W/kg

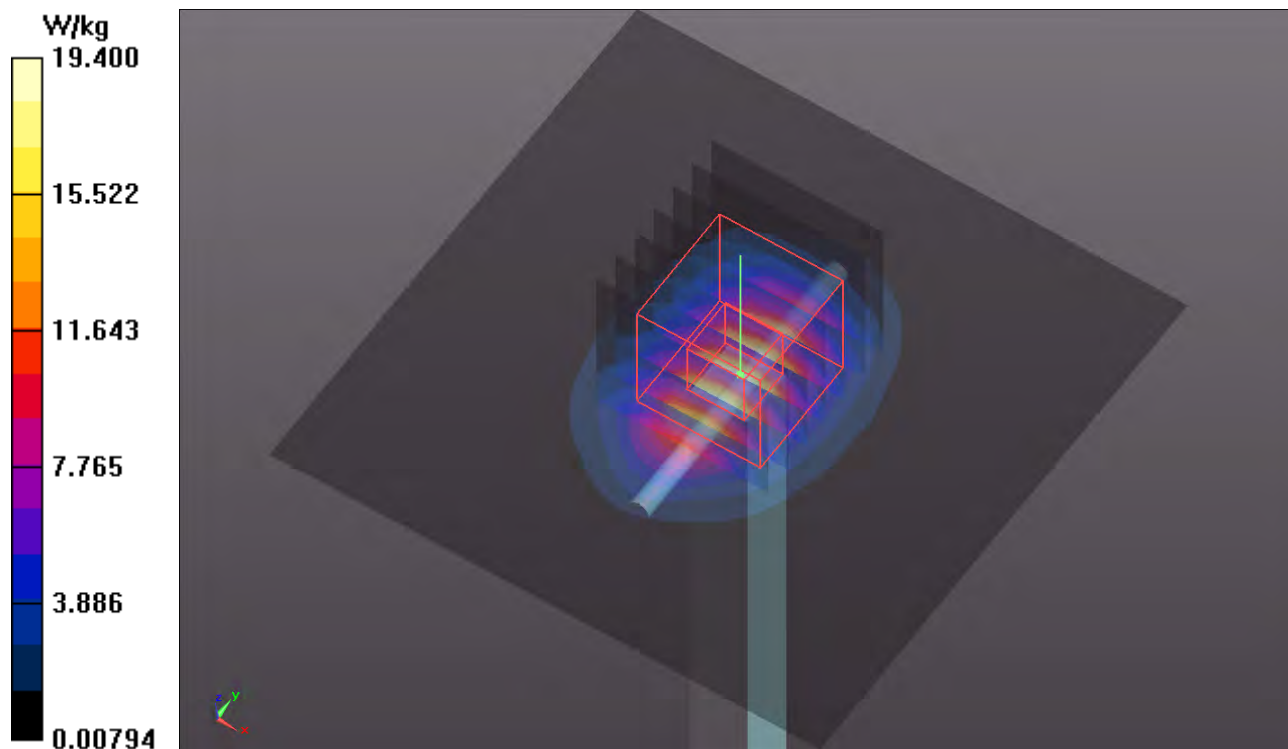
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.2 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 26.9 W/kg

**SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.72 W/kg**

Maximum value of SAR (measured) = 19.6 W/kg



## System Check\_B2600\_140103

**DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: B2600\_0103 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.185$  S/m;  $\epsilon_r = 52.038$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.91, 6.91, 6.91); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 21.8 W/kg

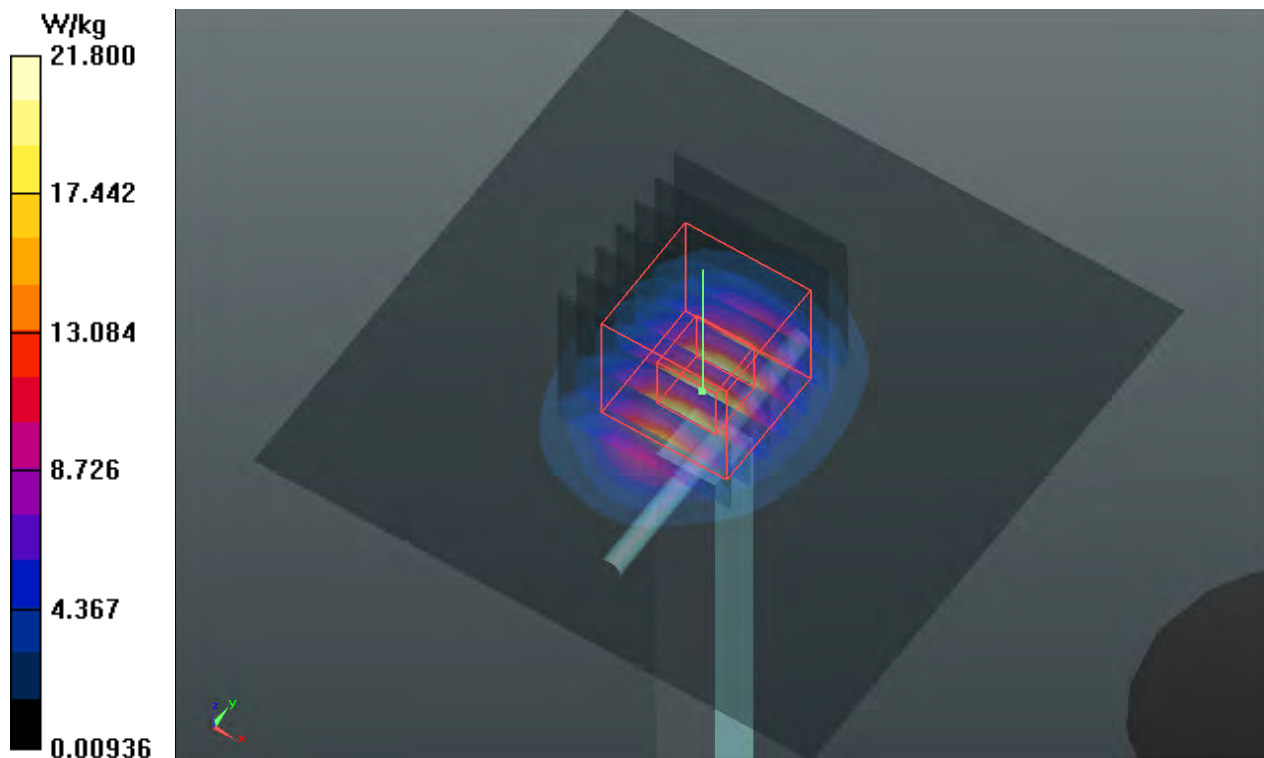
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.482 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 29.7 W/kg

**SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.05 W/kg**

Maximum value of SAR (measured) = 21.4 W/kg



## System Check\_B2600\_140104

**DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: B2600\_0104 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.199$  S/m;  $\epsilon_r = 52.35$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 20.9 °C; Liquid Temperature : 20.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.91, 6.91, 6.91); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 20.2 W/kg

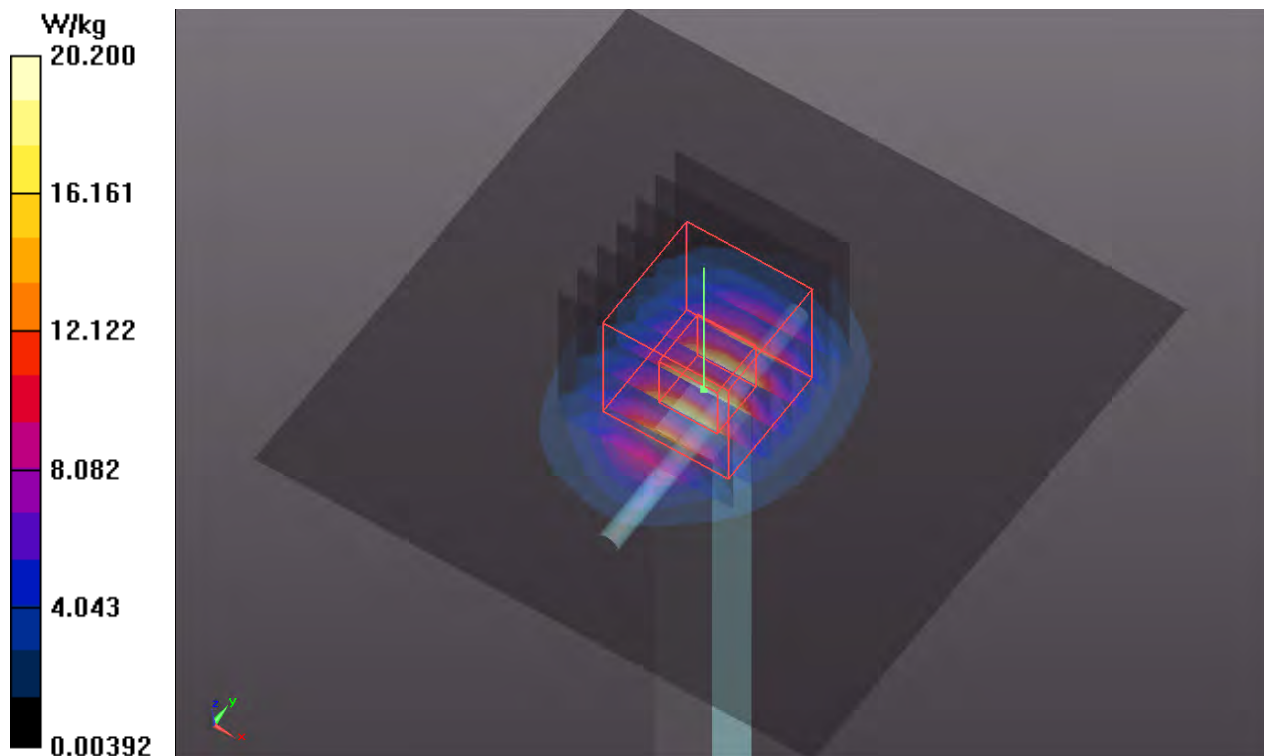
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.452 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 28.4 W/kg

**SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.69 W/kg**

Maximum value of SAR (measured) = 20.4 W/kg



**System Check\_B5200\_140116****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: B5G\_0116 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.194$  S/m;  $\epsilon_r = 50.928$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 14.9 W/kg

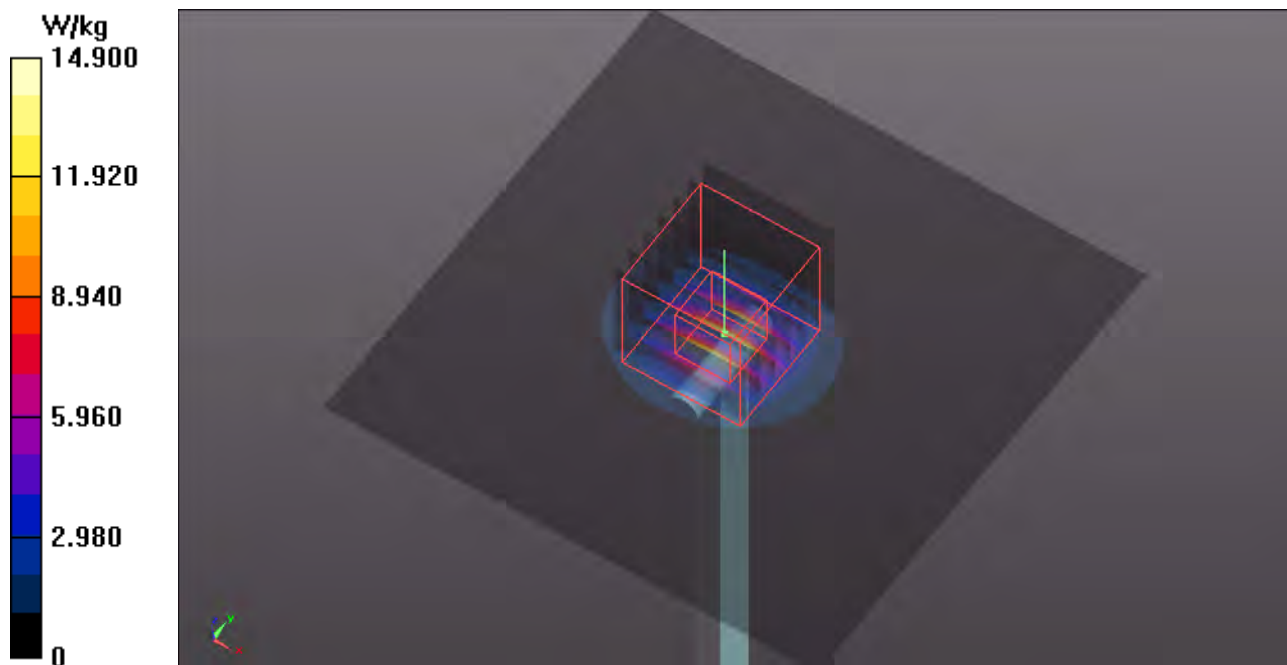
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 55.799 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 30.5 W/kg

**SAR(1 g) = 7.24 W/kg; SAR(10 g) = 2.04 W/kg**

Maximum value of SAR (measured) = 15.0 W/kg



**System Check\_B5200\_140122****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: B5G\_0122 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.321$  S/m;  $\epsilon_r = 47.346$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 20.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(4.51, 4.51, 4.51); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.6 W/kg

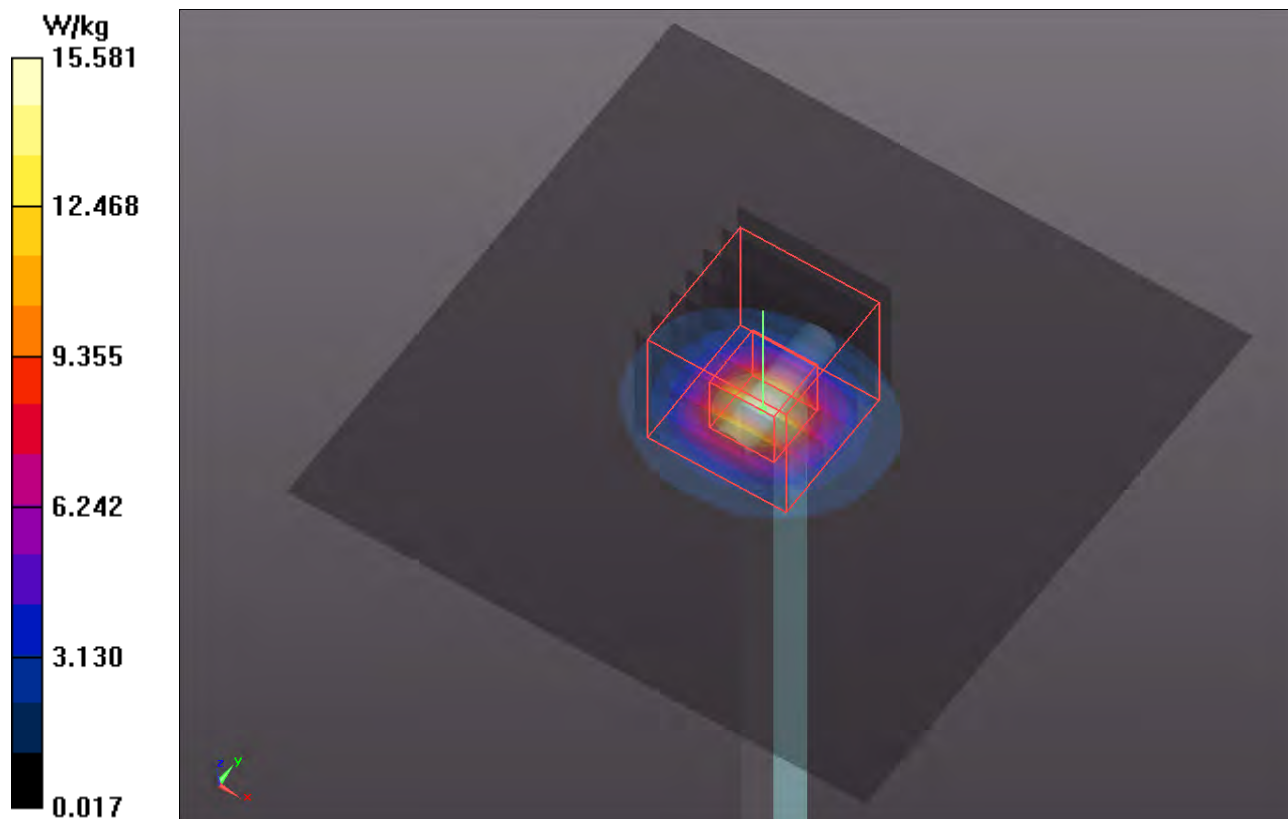
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.607 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 28.7 W/kg

**SAR(1 g) = 7.34 W/kg; SAR(10 g) = 2.09 W/kg**

Maximum value of SAR (measured) = 15.1 W/kg



**System Check\_B5300\_140116****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: B5G\_0116 Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.356$  S/m;  $\epsilon_r = 50.83$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(4.01, 4.01, 4.01); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.8 W/kg

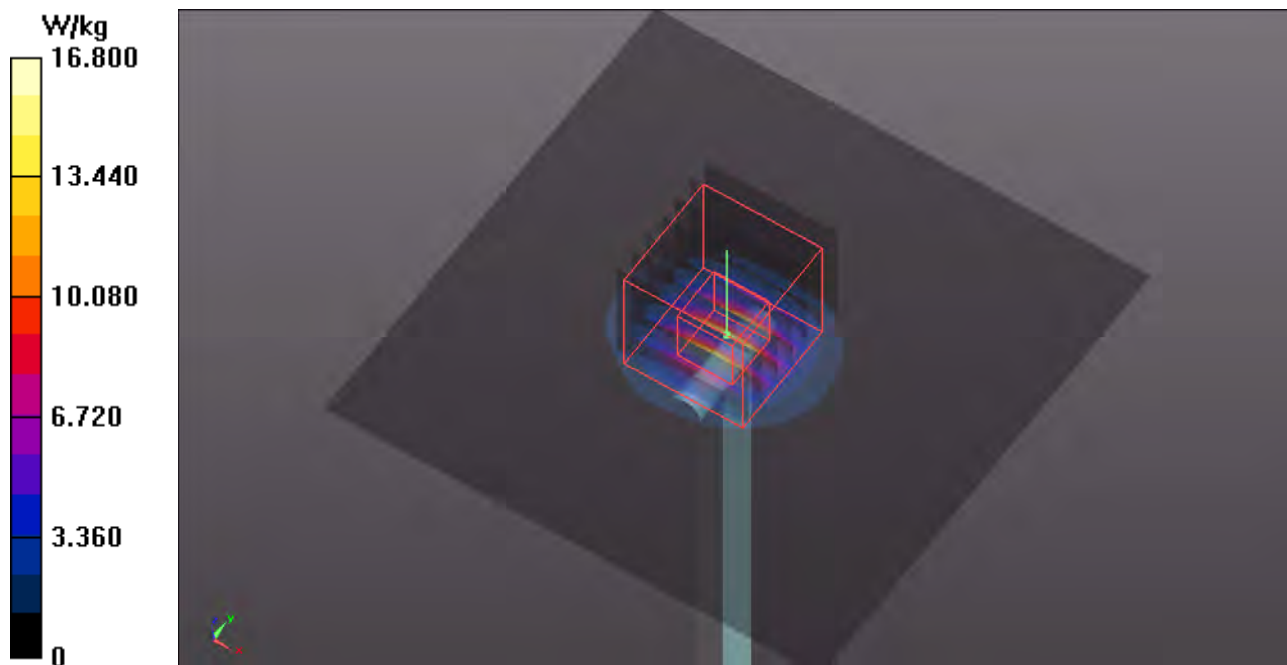
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 59.067 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 33.9 W/kg

**SAR(1 g) = 7.96 W/kg; SAR(10 g) = 2.22 W/kg**

Maximum value of SAR (measured) = 16.7 W/kg



**System Check\_B5600\_140116****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: B5G\_0116 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.875$  S/m;  $\epsilon_r = 50.255$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(3.69, 3.69, 3.69); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.6 W/kg

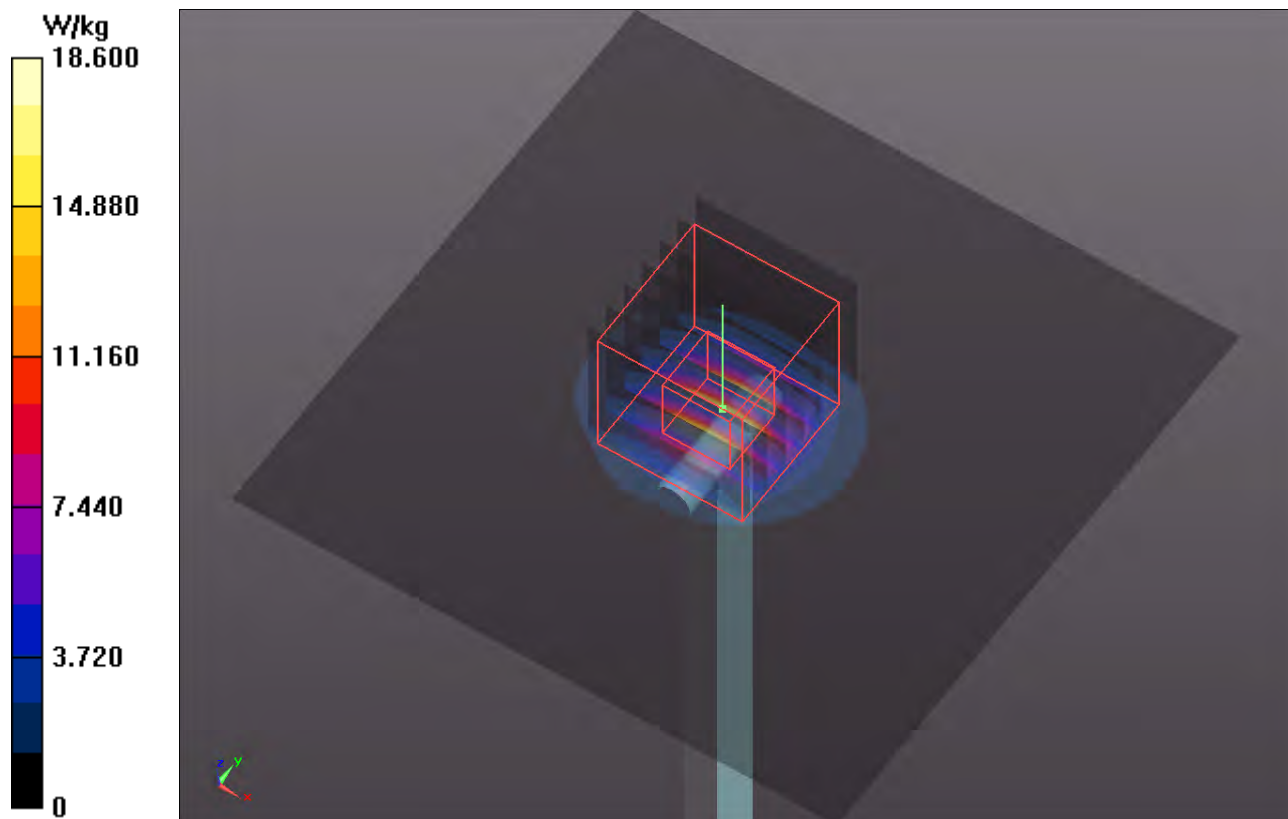
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 60.912 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 34.8 W/kg

**SAR(1 g) = 8.51 W/kg; SAR(10 g) = 2.41 W/kg**

Maximum value of SAR (measured) = 17.8 W/kg



**System Check\_B5600\_140122****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: B5G\_0122 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.889$  S/m;  $\epsilon_r = 46.629$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 20.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(4, 4, 4); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.7 W/kg

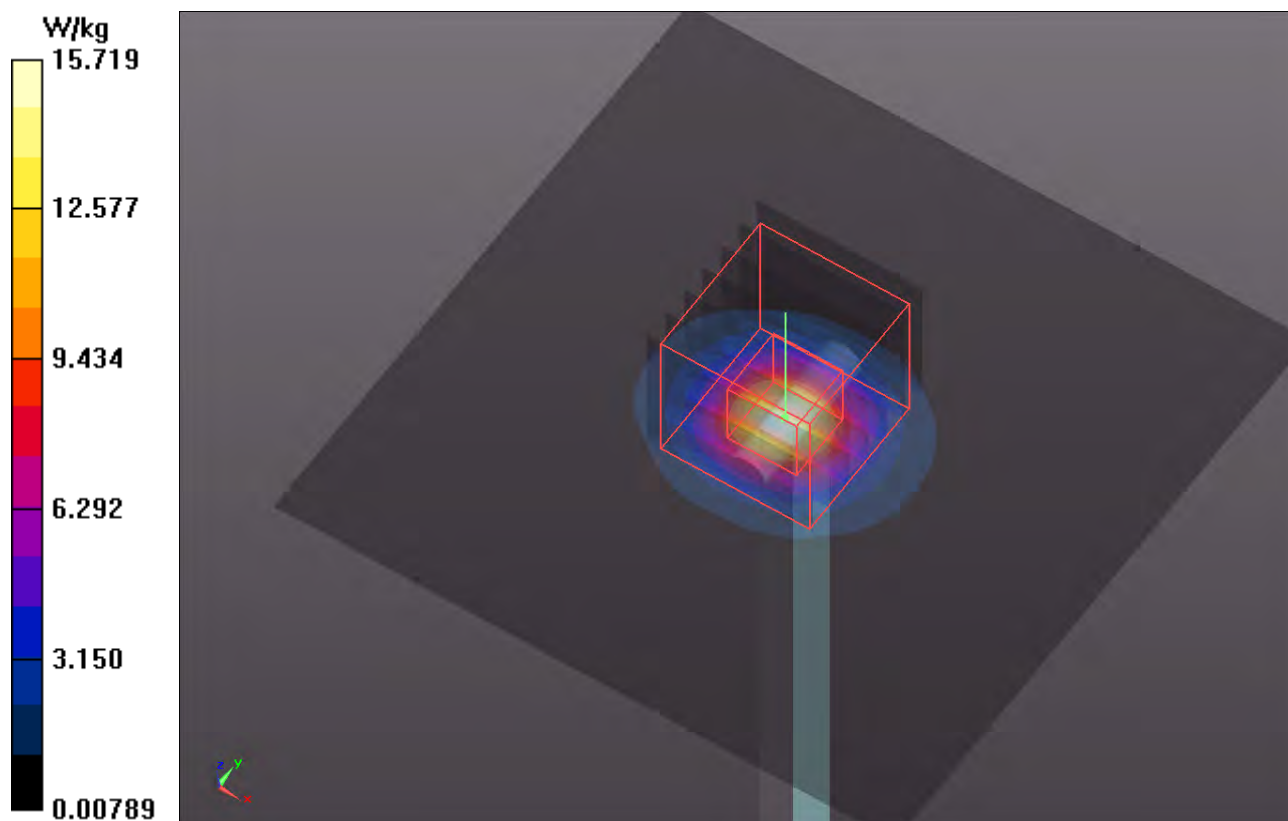
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.036 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 31.9 W/kg

**SAR(1 g) = 7.4 W/kg; SAR(10 g) = 2.1 W/kg**

Maximum value of SAR (measured) = 15.7 W/kg



**System Check\_B5800\_140116****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: B5G\_0116 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.178$  S/m;  $\epsilon_r = 49.756$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(3.93, 3.93, 3.93); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 17.8 W/kg

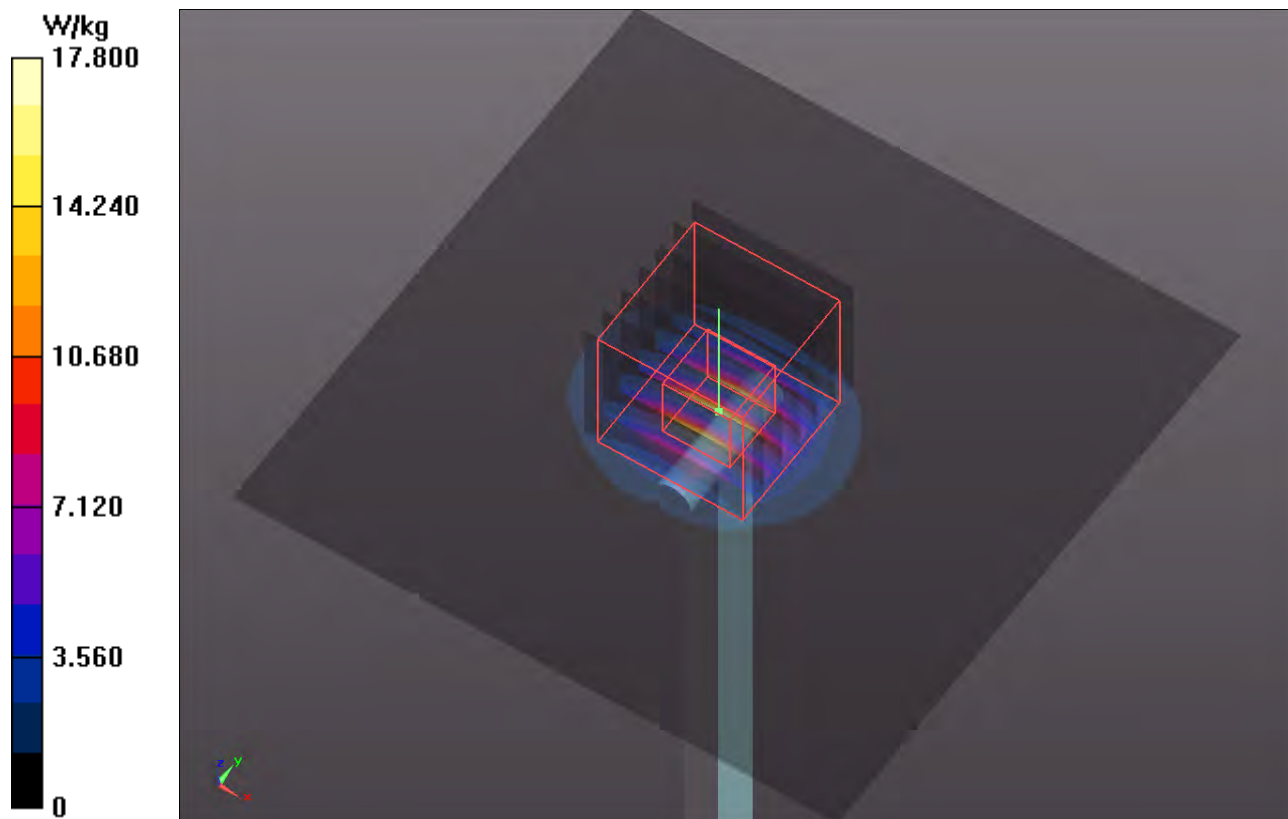
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.732 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 33.9 W/kg

**SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.24 W/kg**

Maximum value of SAR (measured) = 17.1 W/kg



**System Check\_B5800\_140122****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: B5G\_0122 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.176$  S/m;  $\epsilon_r = 46.237$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 20.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(4.21, 4.21, 4.21); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 14.8 W/kg

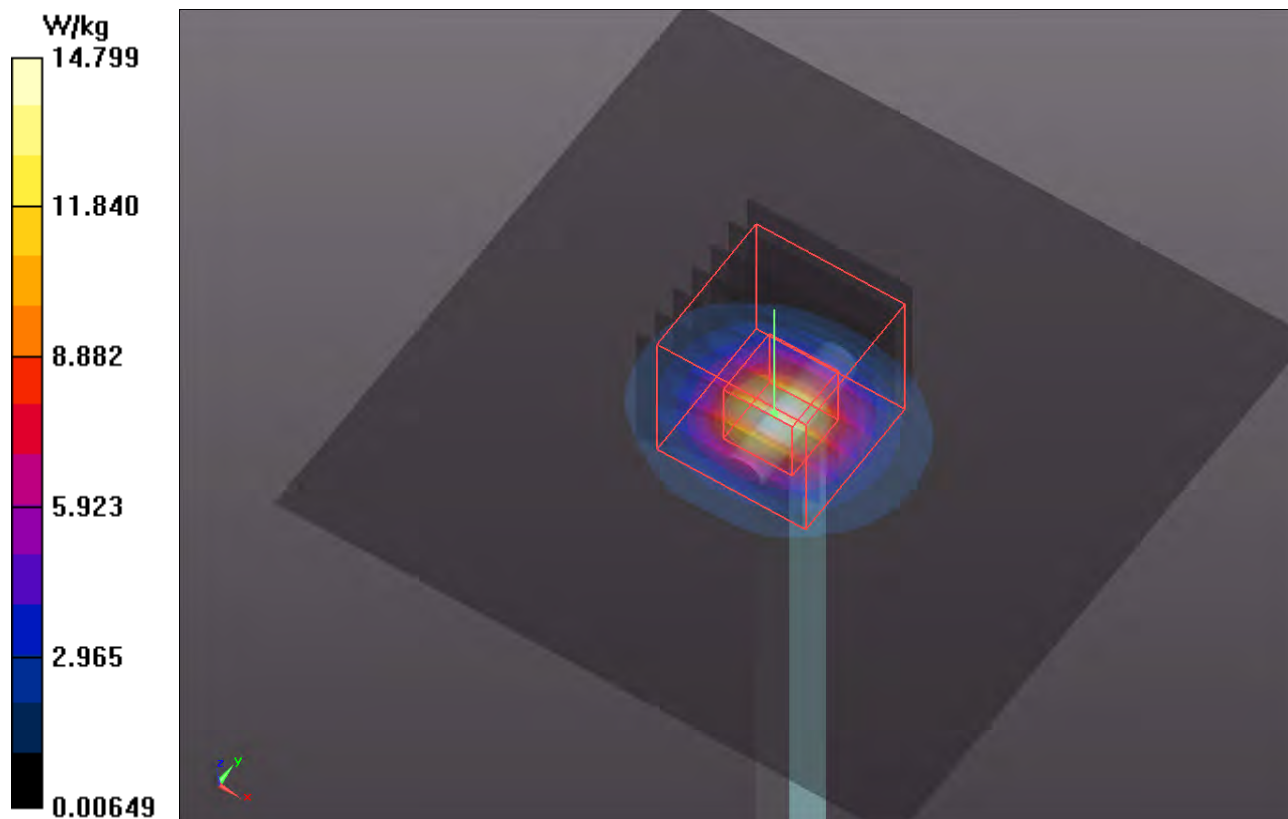
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 53.775 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 29.1 W/kg

**SAR(1 g) = 6.96 W/kg; SAR(10 g) = 1.98 W/kg**

Maximum value of SAR (measured) = 14.7 W/kg





### Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

**P01 GSM850\_GPRS10\_Right Cheek\_Ch251\_Handset****DUT: 131213C05**

Communication System: GPRS10; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: H835\_0106 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.903$  S/m;  $\epsilon_r = 42.727$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.3 °C; Liquid Temperature : 20.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3801; ConvF(9, 9, 9); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.338 W/kg

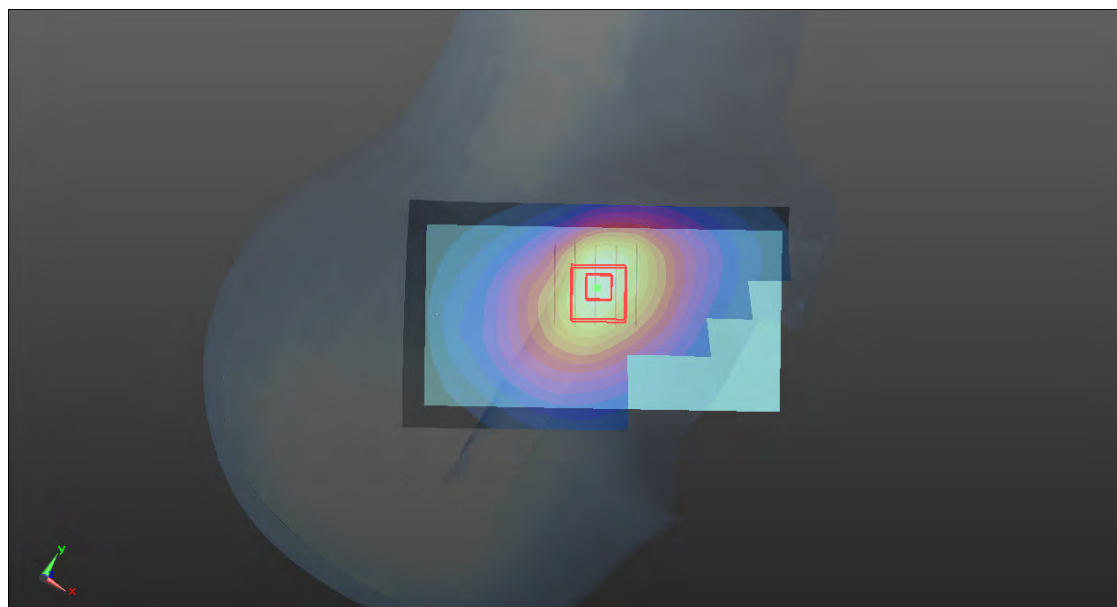
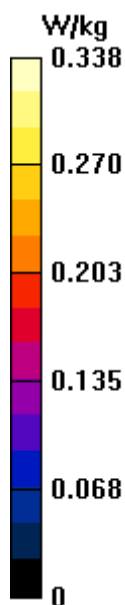
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.463 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.374 W/kg

**SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.213 W/kg**

Maximum value of SAR (measured) = 0.329 W/kg



**P02 GSM1900\_GPRS10\_Left Cheek\_Ch810\_Handset\_EUT2****DUT: 131213C05**

Communication System: GPRS10; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: H1900\_0218 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.419$  S/m;  $\epsilon_r = 39.565$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.8 °C; Liquid Temperature : 21.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(8.2, 8.2, 8.2); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.755 W/kg

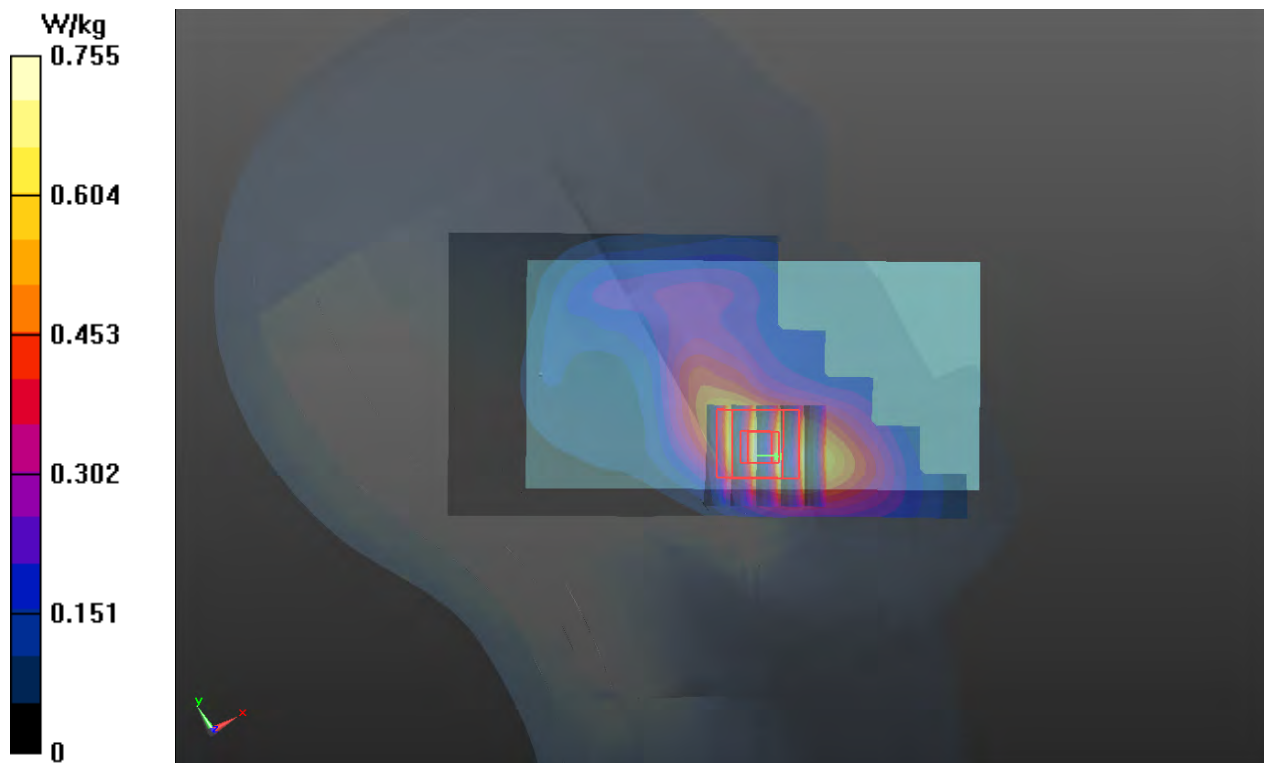
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.070 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.881 W/kg

**SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.365 W/kg**

Maximum value of SAR (measured) = 0.731 W/kg



**P03 WCDMA II\_RMC12.2k\_Left Cheek\_Ch9538\_Handset****DUT: 131213C05**

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: H1900\_0106 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.45$  S/m;  $\epsilon_r = 39.163$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.5 °C; Liquid Temperature : 20.9 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3801; ConvF(7.67, 7.67, 7.67); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.685 W/kg

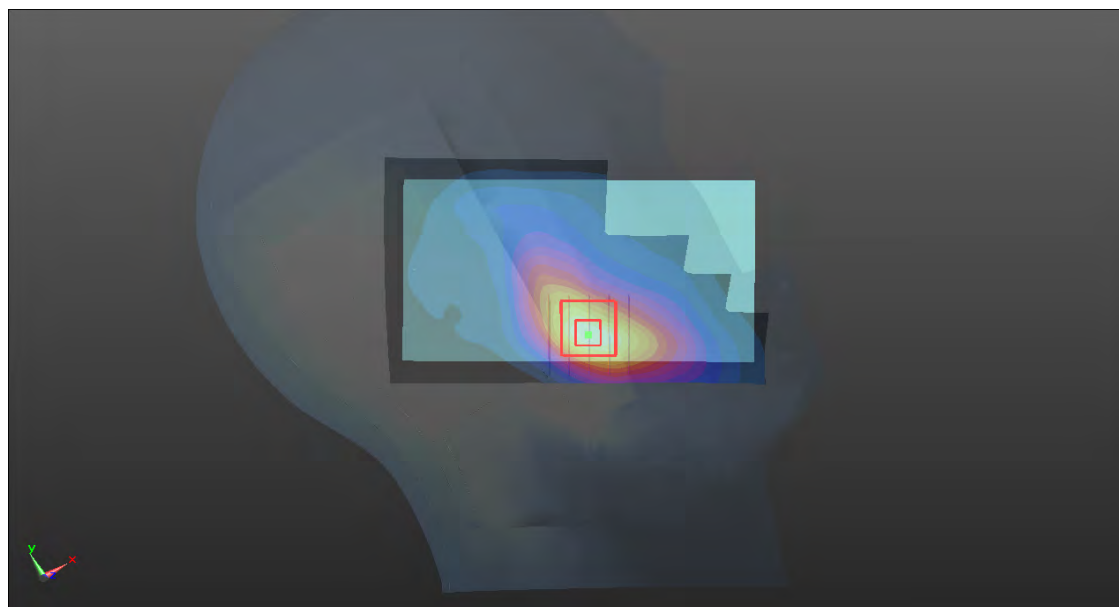
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.736 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.785 W/kg

**SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.321 W/kg**

Maximum value of SAR (measured) = 0.659 W/kg



**P04 WCDMA V\_RMC12.2k\_Right Cheek\_Ch4233\_Handset****DUT: 131213C05**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: H835\_0106 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.901$  S/m;  $\epsilon_r = 42.752$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 21.3 °C; Liquid Temperature : 20.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3801; ConvF(9, 9, 9); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.197 W/kg

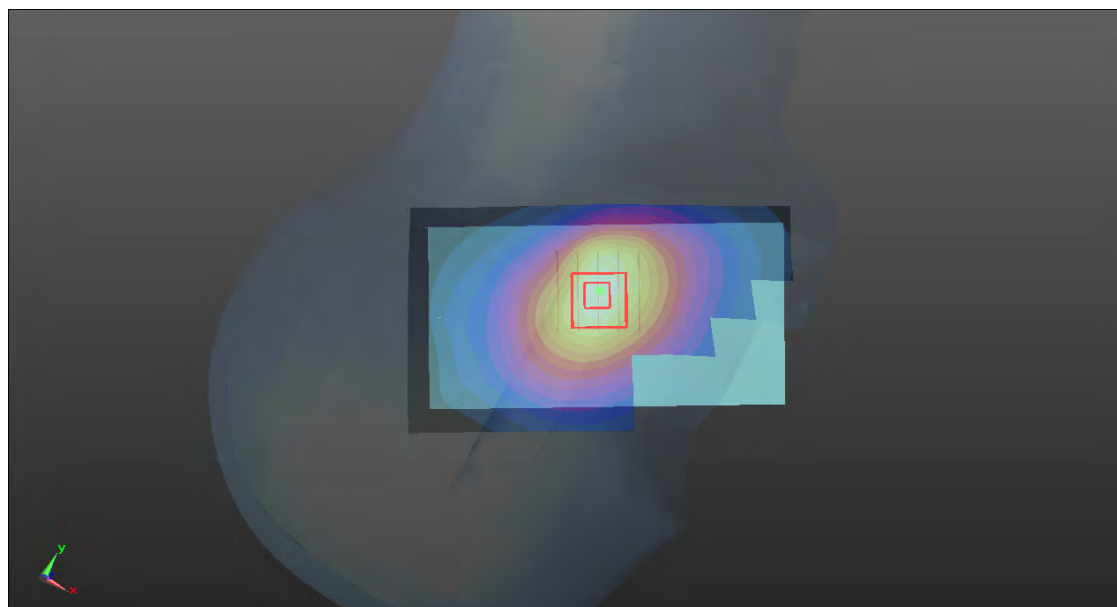
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.605 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.214 W/kg

**SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.127 W/kg**

Maximum value of SAR (measured) = 0.196 W/kg



**P05 LTE 2\_QPSK\_10M\_Left Cheek\_Ch19150\_Handset\_1RB\_OS24****DUT: 131213C05**

Communication System: LTE 2; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: H1900\_0115 Medium parameters used:  $f = 1905$  MHz;  $\sigma = 1.422$  S/m;  $\epsilon_r = 40.308$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(8.2, 8.2, 8.2); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.751 W/kg

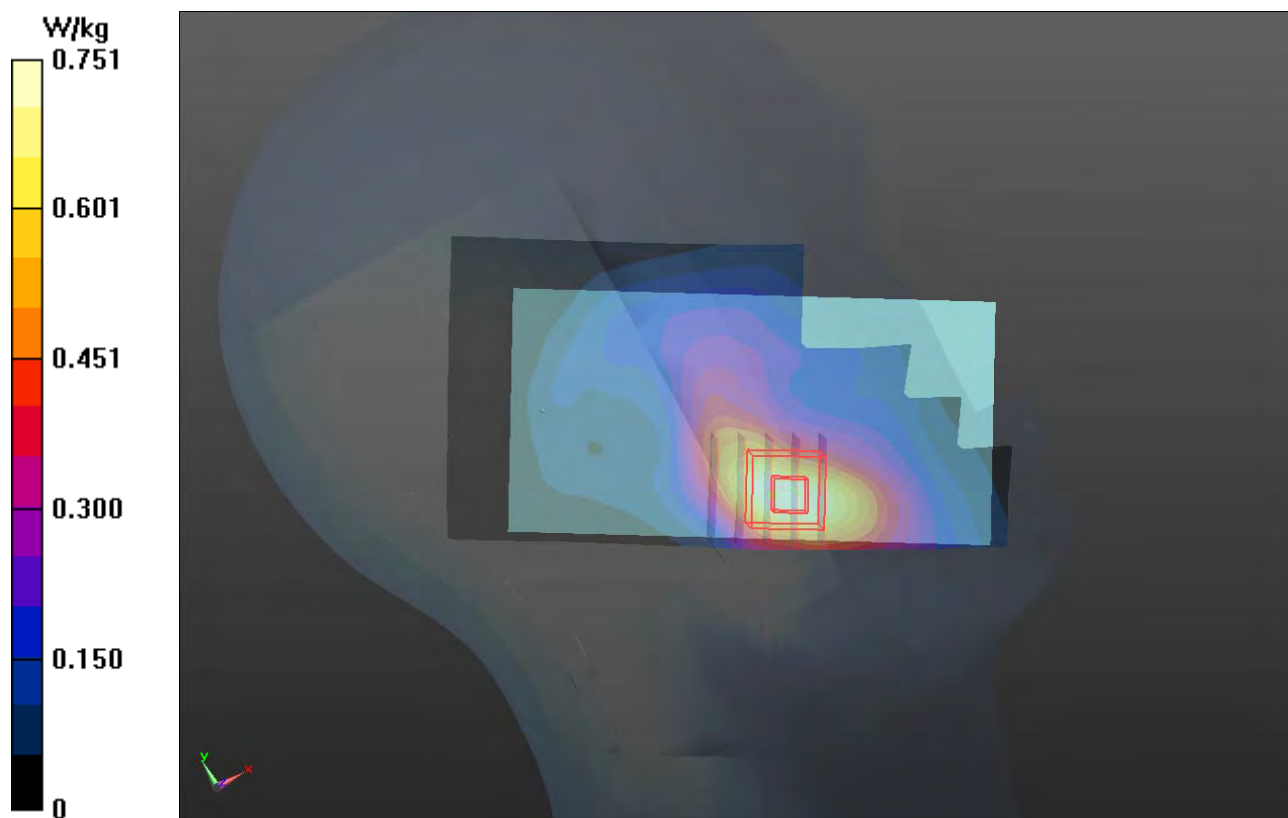
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.983 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.892 W/kg

**SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.355 W/kg**

Maximum value of SAR (measured) = 0.730 W/kg



**P06 LTE 4\_QPSK\_10M\_Left Cheek\_Ch20350\_Handset\_1RB\_OS24****DUT: 131213C05**

Communication System: LTE 4; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: H1750\_0115 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.358$  S/m;  $\epsilon_r = 39.714$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(8.49, 8.49, 8.49); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.675 W/kg

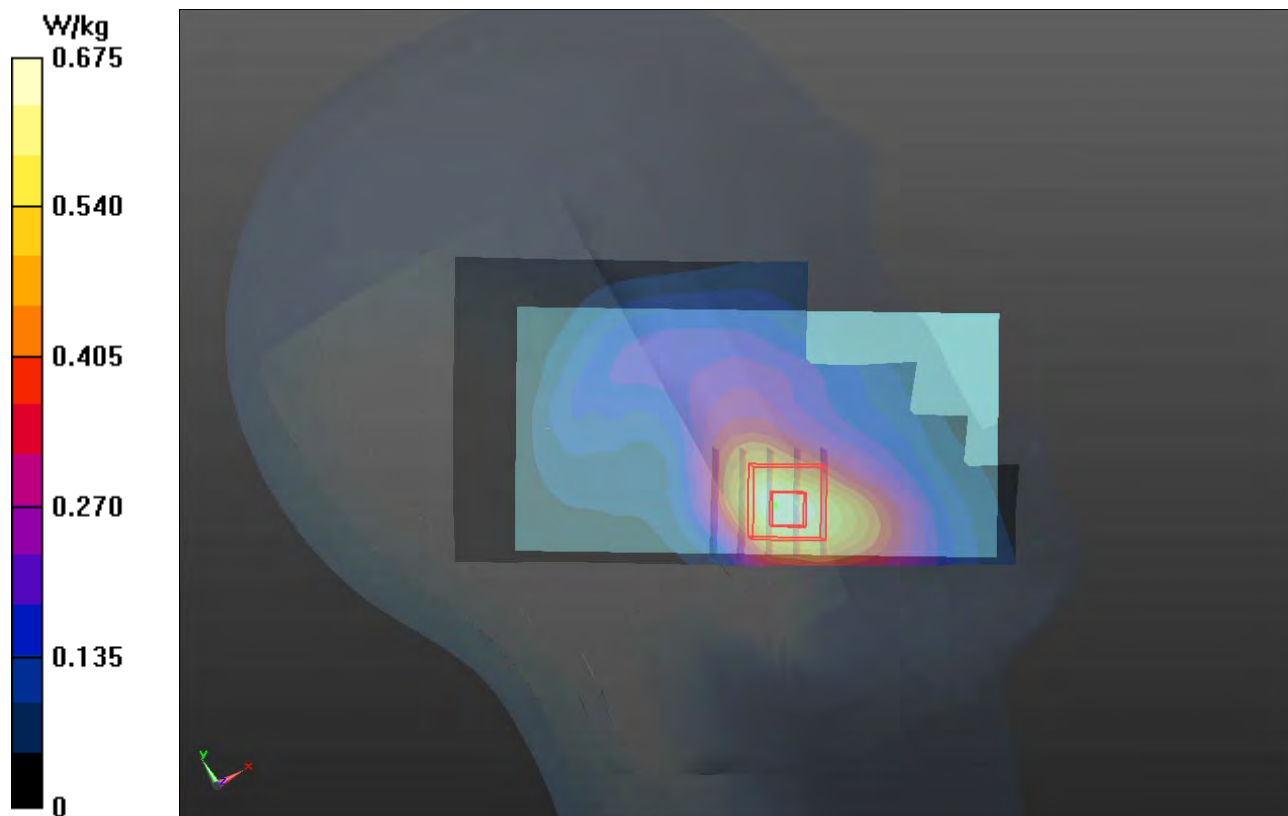
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.497 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.768 W/kg

**SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.339 W/kg**

Maximum value of SAR (measured) = 0.635 W/kg



**P07 LTE 5\_QPSK\_10M\_Right Cheek\_Ch20450\_Handset\_1RB\_OS24****DUT: 131213C05**

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: H835\_0106 Medium parameters used:  $f = 829$  MHz;  $\sigma = 0.882$  S/m;  $\epsilon_r = 42.964$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 21.3 °C; Liquid Temperature : 20.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3801; ConvF(9, 9, 9); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.201 W/kg

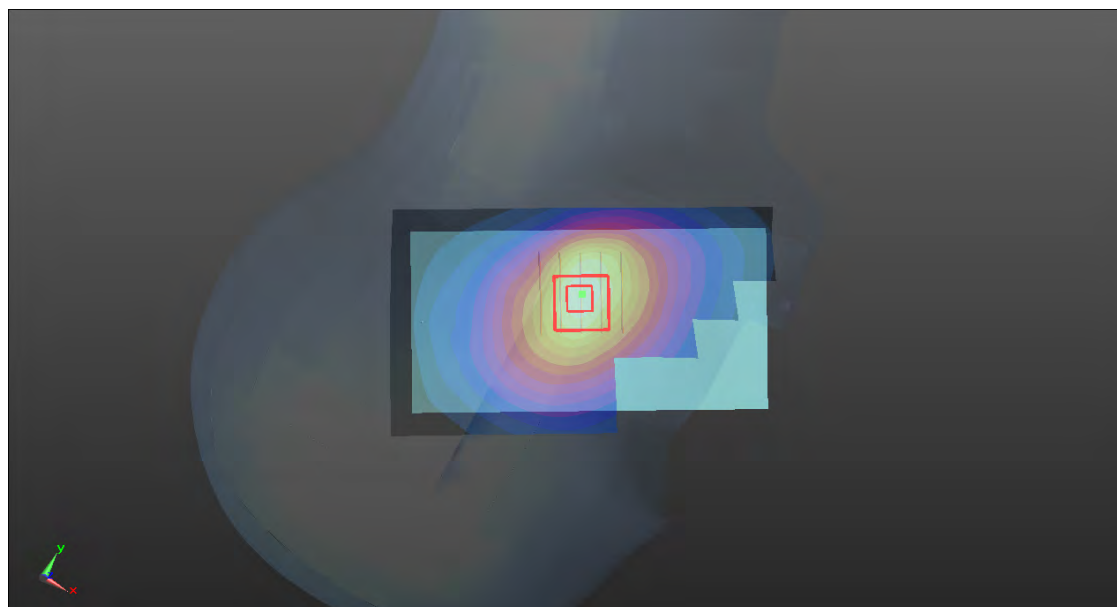
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.707 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.218 W/kg

**SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.129 W/kg**

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



**P08 LTE 7\_QPSK\_10M\_Right Cheek\_Ch20800\_Handset\_1RB\_OS24****DUT: 131213C05**

Communication System: LTE; Frequency: 2505 MHz; Duty Cycle: 1:1

Medium: H2600\_0103 Medium parameters used:  $f = 2505$  MHz;  $\sigma = 1.946$  S/m;  $\epsilon_r = 37.948$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.85, 6.85, 6.85); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.148 W/kg

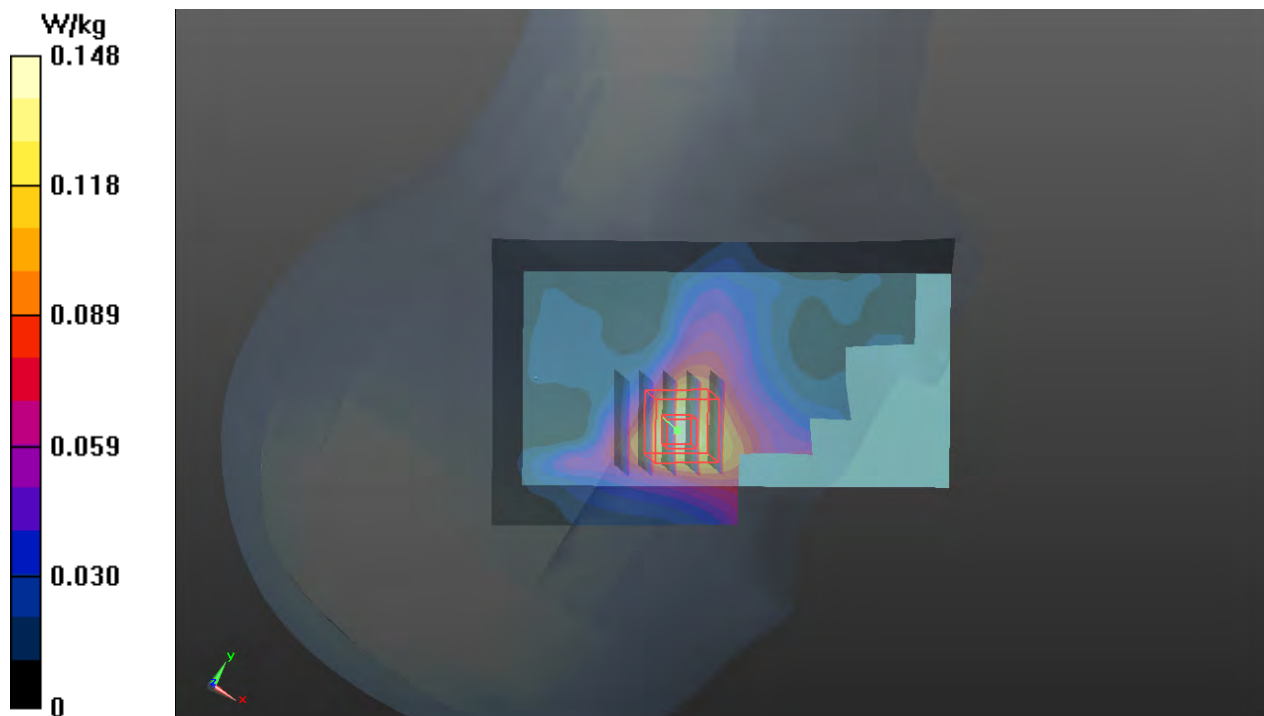
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.529 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.183 W/kg

**SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.056 W/kg**

Maximum value of SAR (measured) = 0.137 W/kg



**P09 LTE 17\_QPSK\_10M\_Right Cheek\_Ch23780\_Handset\_1RB\_OS24****DUT: 131213C05**

Communication System: LTE; Frequency: 709 MHz; Duty Cycle: 1:1

Medium: H750\_0106 Medium parameters used:  $f = 709$  MHz;  $\sigma = 0.873$  S/m;  $\epsilon_r = 41.028$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.3 °C; Liquid Temperature : 20.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3801; ConvF(9.39, 9.39, 9.39); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.172 W/kg

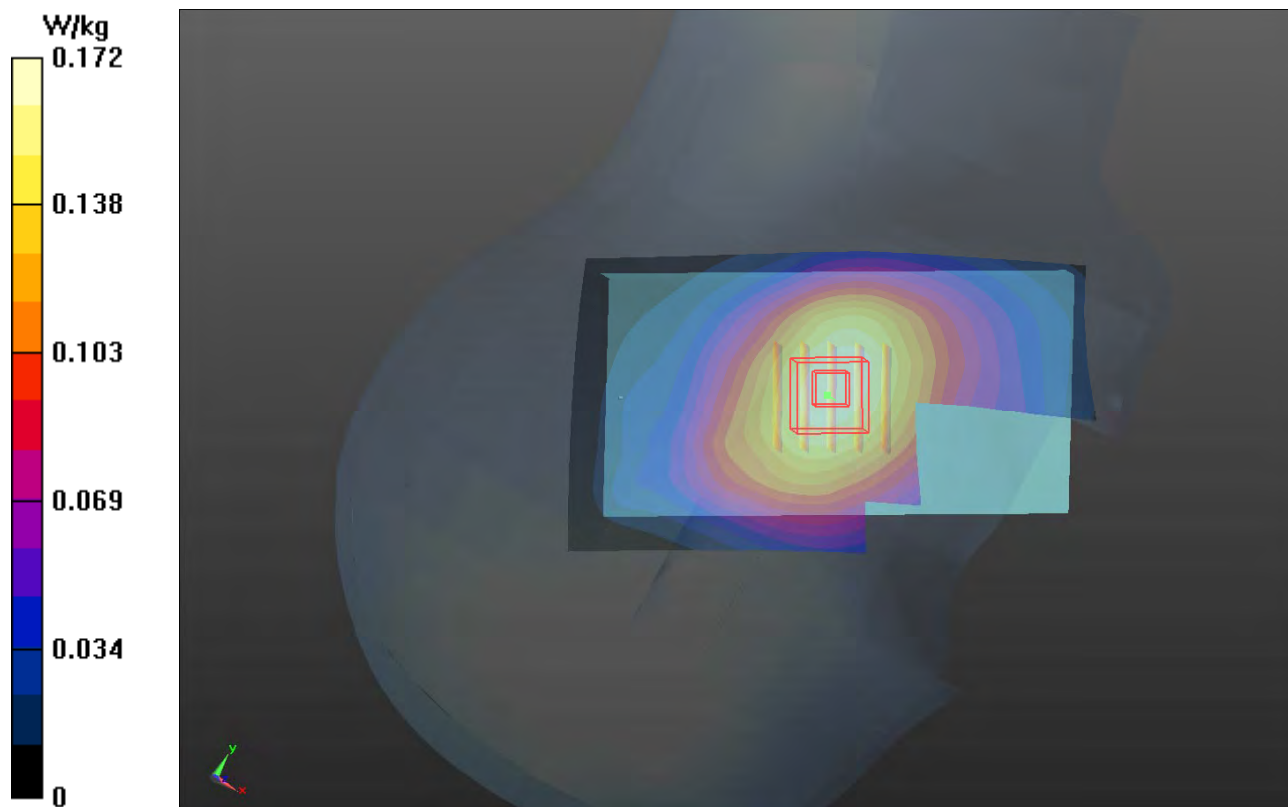
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.350 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.185 W/kg

**SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.126 W/kg**

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



**P10 802.11b\_Right Cheek\_Ch1\_Handset****DUT: 131213C05**

Communication System: WLAN\_2.4G; Frequency: 2412 MHz; Duty Cycle: 1:1.02

Medium: H2450\_0103 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.729$  S/m;  $\epsilon_r = 40.353$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.7 °C; Liquid Temperature : 20.9 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3650; ConvF(6.99, 6.99, 6.99); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.970 W/kg

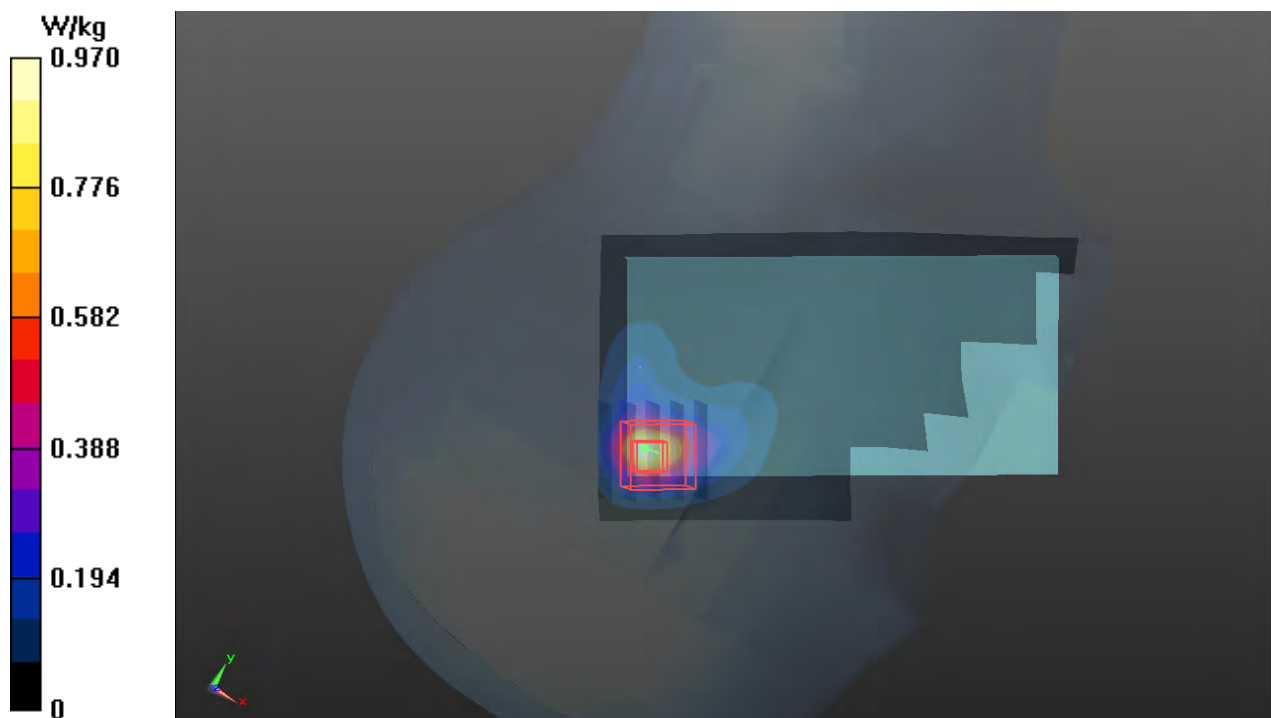
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.486 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.232 W/kg**

Maximum value of SAR (measured) = 0.834 W/kg



**P11 802.11a\_Right Cheek\_Ch48\_Handset****DUT: 131213C05**

Communication System: WLAN\_5G; Frequency: 5240 MHz; Duty Cycle: 1:1.16

Medium: H5G\_0117 Medium parameters used:  $f = 5240$  MHz;  $\sigma = 4.885$  S/m;  $\epsilon_r = 35.172$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(5.33, 5.33, 5.33); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (101x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.47 W/kg

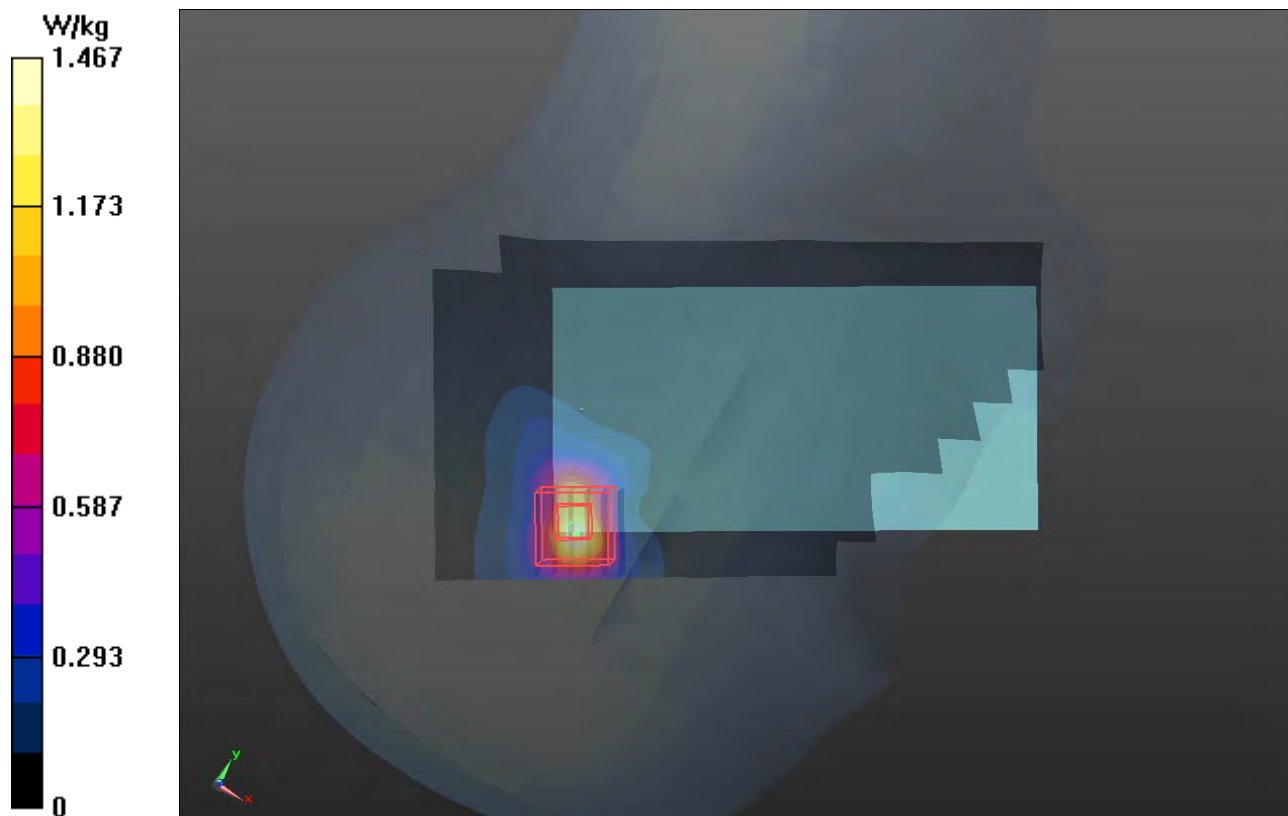
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 3.720 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.30 W/kg

**SAR(1 g) = 0.808 W/kg; SAR(10 g) = 0.270 W/kg**

Maximum value of SAR (measured) = 1.55 W/kg



**P12 802.11a\_Right Cheek\_Ch52\_Handset****DUT: 131213C05**

Communication System: WLAN\_5G; Frequency: 5260 MHz; Duty Cycle: 1:1.16

Medium: H5G\_0117 Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.906$  S/m;  $\epsilon_r = 35.137$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3801; ConvF(4.69, 4.69, 4.69); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (91x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.74 W/kg

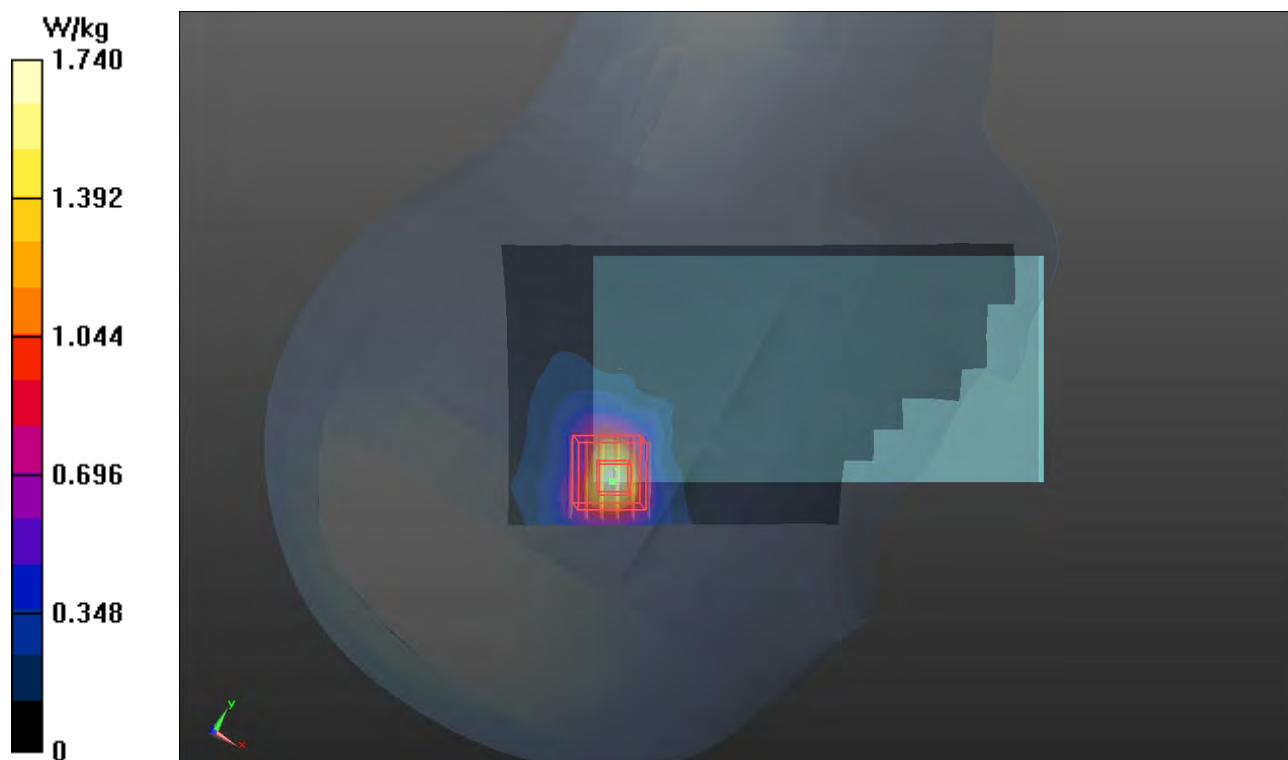
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.268 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 3.99 W/kg

**SAR(1 g) = 0.975 W/kg; SAR(10 g) = 0.334 W/kg**

Maximum value of SAR (measured) = 1.83 W/kg



**P13 802.11a\_Right Cheek\_Ch140\_Handset****DUT: 131213C05**

Communication System: WLAN\_5G; Frequency: 5700 MHz; Duty Cycle: 1:1.16

Medium: H5G\_0117 Medium parameters used:  $f = 5700$  MHz;  $\sigma = 5.395$  S/m;  $\epsilon_r = 34.356$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3801; ConvF(4.34, 4.34, 4.34); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (91x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.11 W/kg

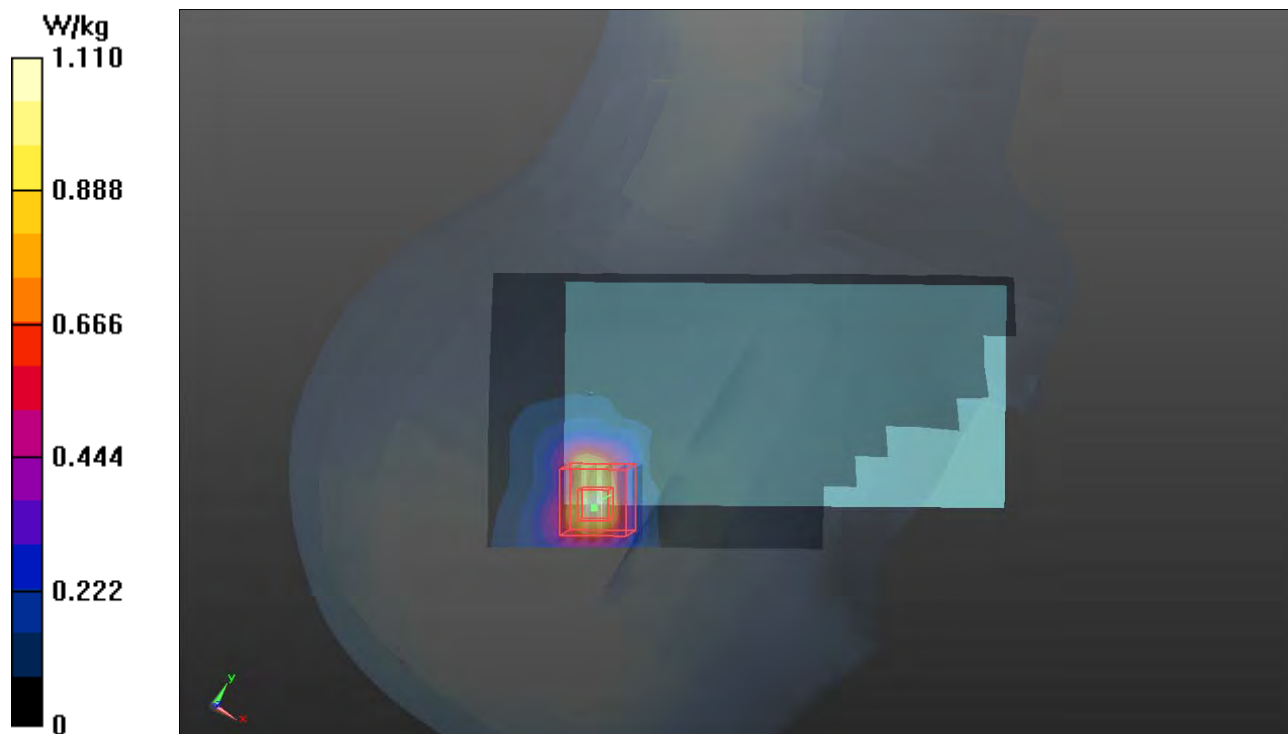
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 4.592 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.60 W/kg

**SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.206 W/kg**

Maximum value of SAR (measured) = 1.20 W/kg



**P14 802.11a\_Right Cheek\_Ch161\_Moblie****DUT: 131213C05**

Communication System: WLAN\_5G; Frequency: 5805 MHz; Duty Cycle: 1:1.16

Medium: H5G\_0117 Medium parameters used:  $f = 5805$  MHz;  $\sigma = 5.432$  S/m;  $\epsilon_r = 34.26$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3801; ConvF(4.34, 4.34, 4.34); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (101x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

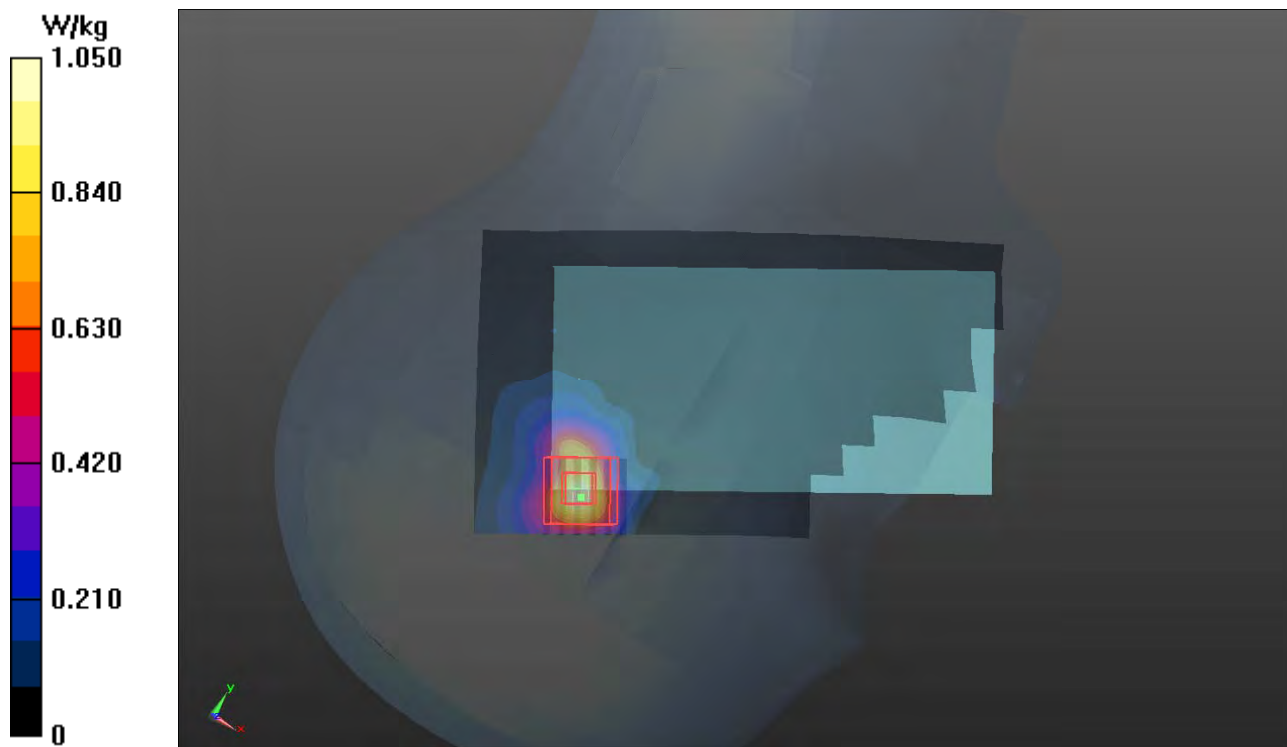
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.123 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.66 W/kg

**SAR(1 g) = 0.608 W/kg; SAR(10 g) = 0.201 W/kg**

Maximum value of SAR (measured) = 1.22 W/kg



**P15 GSM850\_GPRS10\_Rear Face\_1cm\_Ch251\_Handset****DUT: 131213C05**

Communication System: GPRS10; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: B835\_0116 Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.005$  S/m;  $\epsilon_r = 55.256$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(10.14, 10.14, 10.14); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (51x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

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

Reference Value = 25.009 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.653 W/kg; SAR(10 g) = 0.358 W/kg**

Maximum value of SAR (measured) = 0.844 W/kg

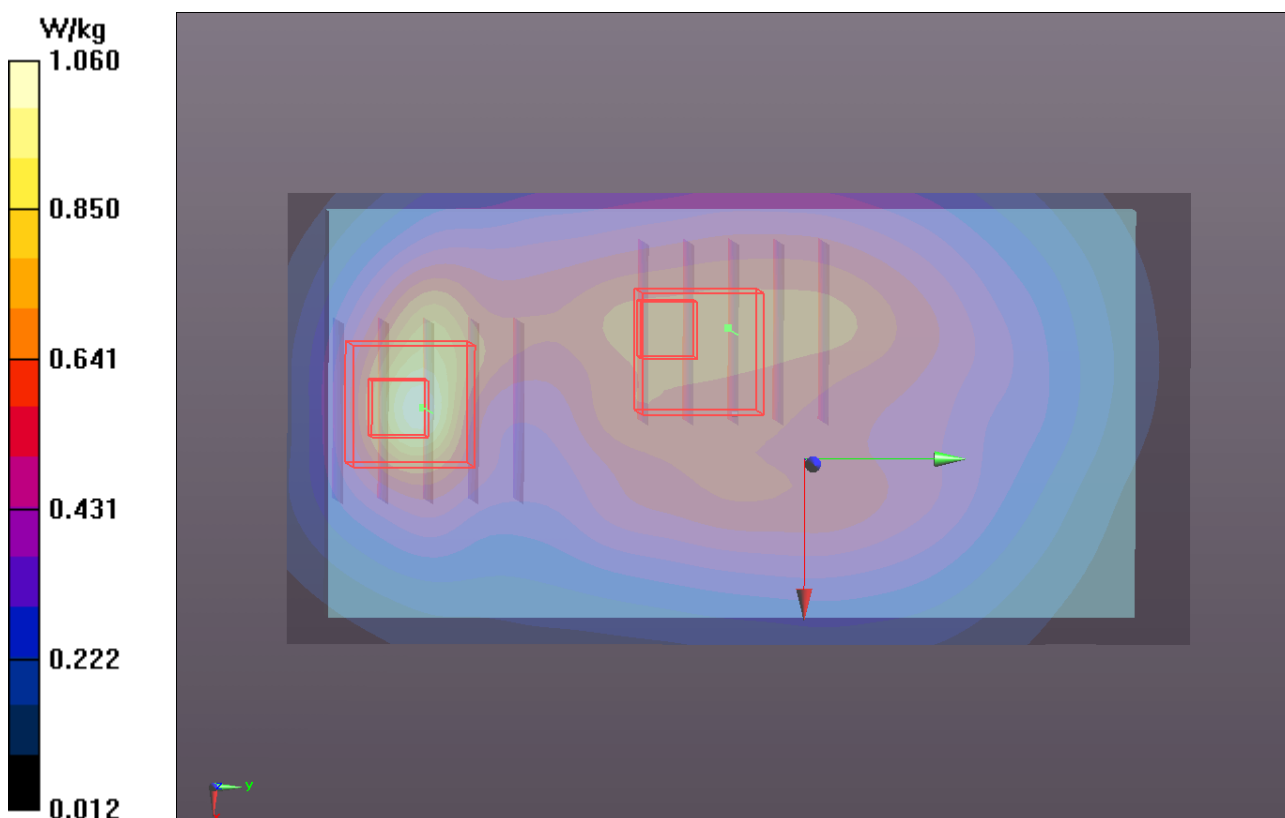
**- Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.009 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.738 W/kg

**SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.435 W/kg**

Maximum value of SAR (measured) = 0.652 W/kg



**P16 GSM1900\_GPRS 10\_Rear Face\_1cm\_Ch512\_Handset****DUT: 131213C05**

Communication System: GPRS10; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium: B1900\_0115 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.482$  S/m;  $\epsilon_r = 53.347$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.5 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(7.87, 7.87, 7.87); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.41 W/kg

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

Reference Value = 13.445 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.79 W/kg

**SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.571 W/kg**

Maximum value of SAR (measured) = 1.37 W/kg

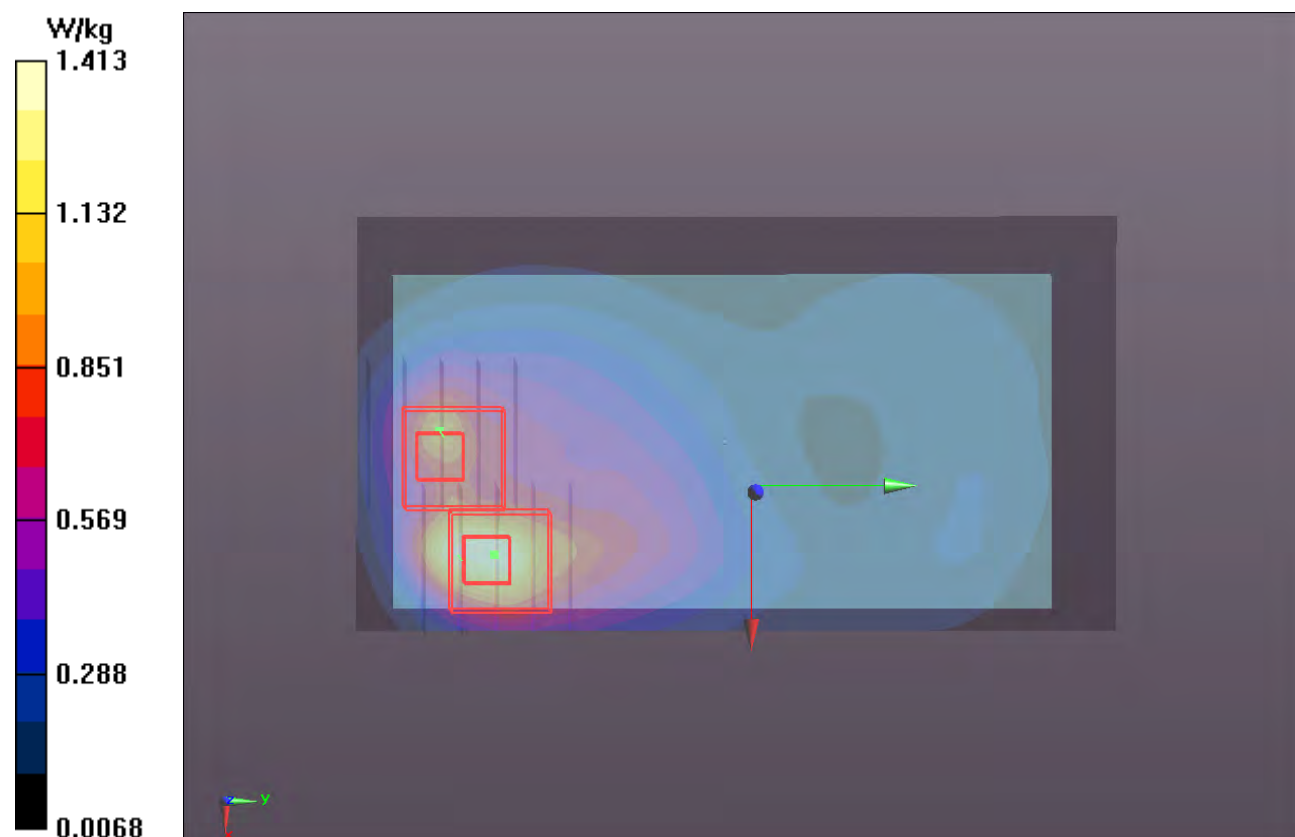
**- Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.445 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.24 W/kg

**SAR(1 g) = 0.816 W/kg; SAR(10 g) = 0.372 W/kg**

Maximum value of SAR (measured) = 0.988 W/kg



**P17 WCDMA II\_Rear Face\_1cm\_Ch9538\_Handset****DUT: 131213C05**

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: B1900\_0106 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.562$  S/m;  $\epsilon_r = 51.935$ ;  $\rho =$

$1000 \text{ kg/m}^3$

Ambient Temperature :  $21.2^\circ\text{C}$ ; Liquid Temperature :  $20.7^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3801; ConvF(7.23, 7.23, 7.23); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (61x101x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) =  $0.819 \text{ W/kg}$

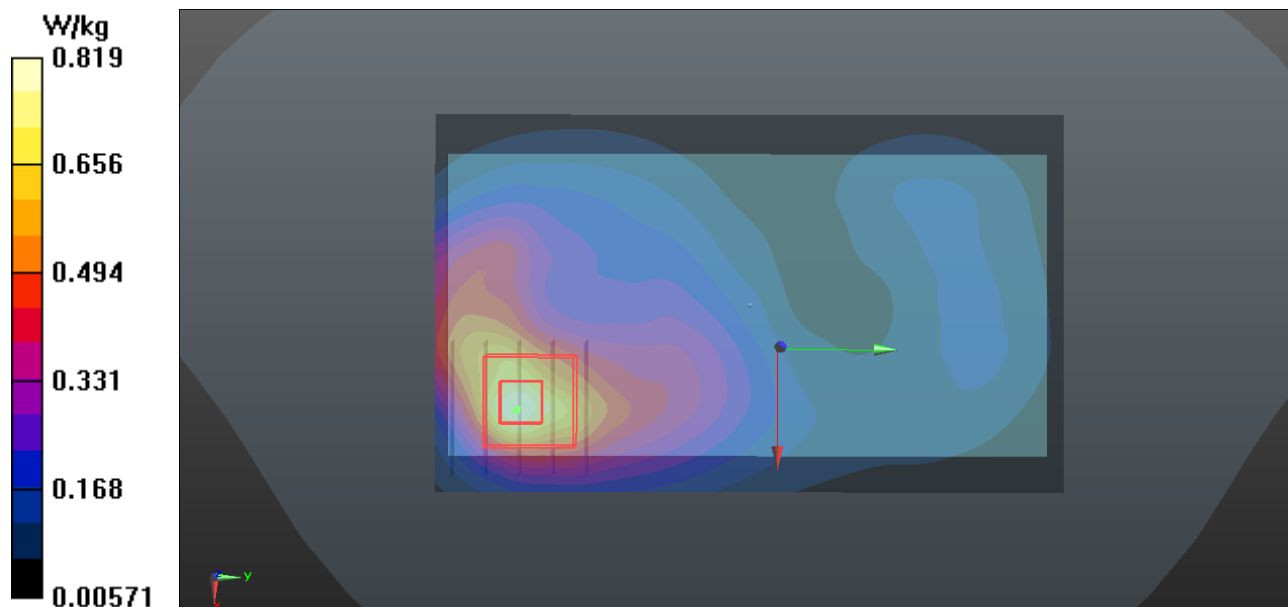
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $9.837 \text{ V/m}$ ; Power Drift =  $-0.18 \text{ dB}$

Peak SAR (extrapolated) =  $1.14 \text{ W/kg}$

**SAR(1 g) =  $0.634 \text{ W/kg}$ ; SAR(10 g) =  $0.339 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.864 \text{ W/kg}$



**P18 WCDMA V\_Rear Face\_1cm\_Ch4233\_Handset****DUT: 131213C05**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B835\_0104 Medium parameters used:  $f = 847$  MHz;  $\sigma = 1.012$  S/m;  $\epsilon_r = 56.736$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.404 W/kg

- **Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.166 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.401 W/kg

**SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.230 W/kg**

Maximum value of SAR (measured) = 0.344 W/kg

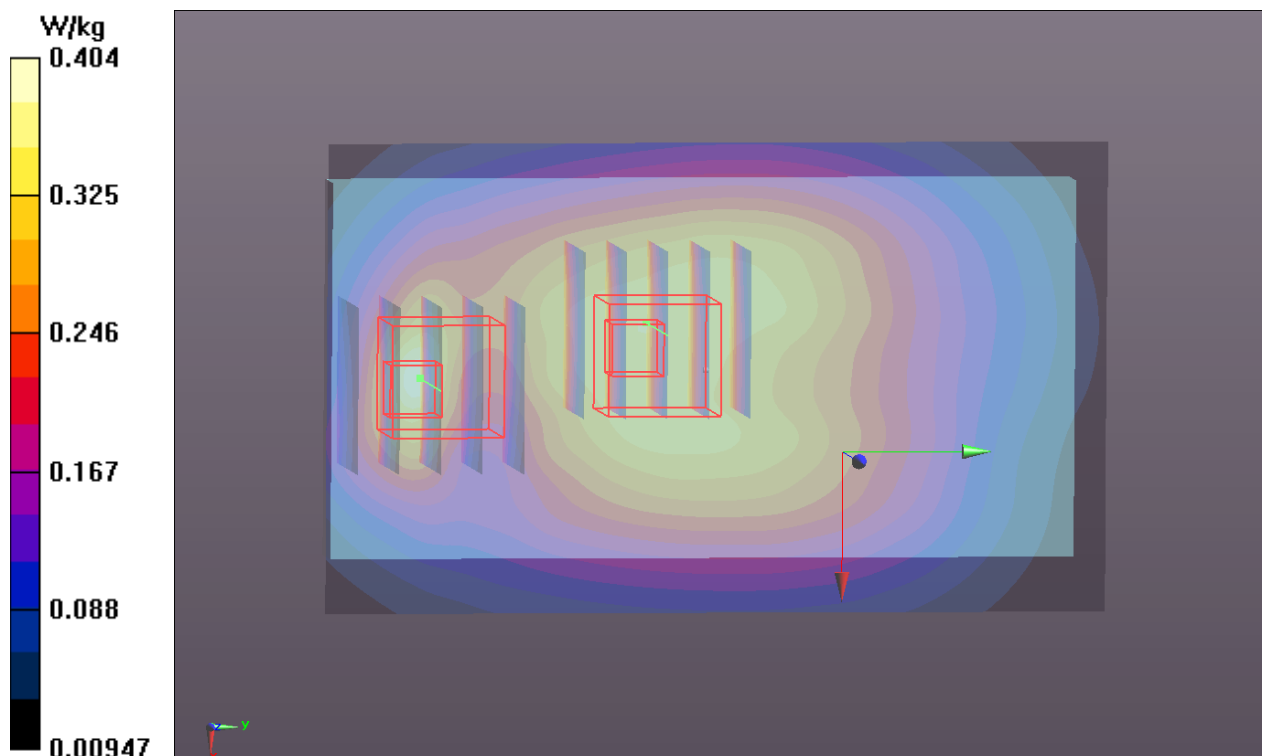
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.166 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.476 W/kg

**SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.160 W/kg**

Maximum value of SAR (measured) = 0.373 W/kg



**P19 LTE 2\_QPSK\_10M\_Rear Face\_1cm\_Ch19150\_Handset\_1RB\_OS24****DUT: 131213C05**

Communication System: LTE; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: B1900\_0115 Medium parameters used:  $f = 1905$  MHz;  $\sigma = 1.549$  S/m;  $\epsilon_r = 53.191$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.5 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(7.87, 7.87, 7.87); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.698 W/kg

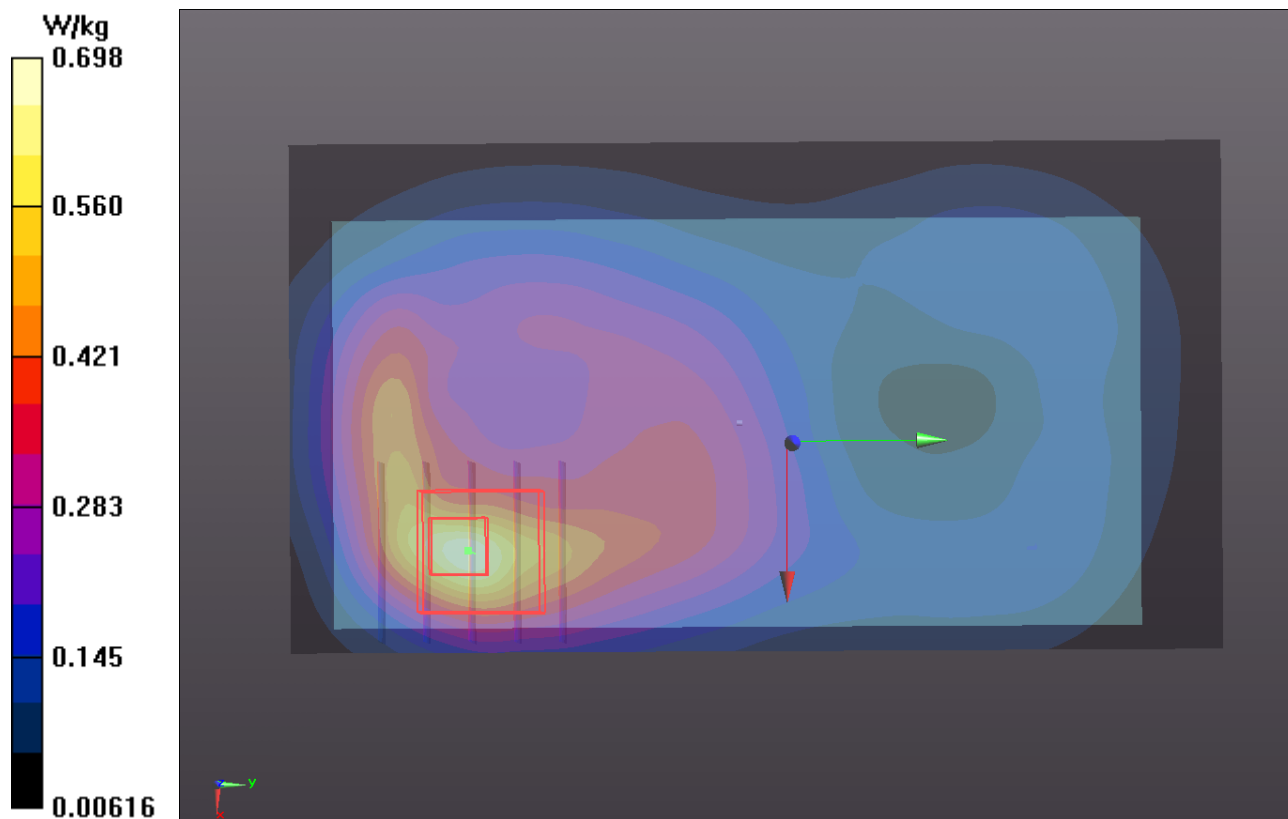
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.274 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.997 W/kg

**SAR(1 g) = 0.588 W/kg; SAR(10 g) = 0.327 W/kg**

Maximum value of SAR (measured) = 0.781 W/kg



**P20 LTE 4\_QPSK\_10M\_Rear Face\_1cm\_Ch20350\_Handset\_1RB\_OS24****DUT: 131213C05**

Communication System: LTE 4; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: B1750\_0115 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.487$  S/m;  $\epsilon_r = 52.082$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.5 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(8.1, 8.1, 8.1); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.851 W/kg

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

Reference Value = 8.890 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.999 W/kg

**SAR(1 g) = 0.620 W/kg; SAR(10 g) = 0.381 W/kg**

Maximum value of SAR (measured) = 0.789 W/kg

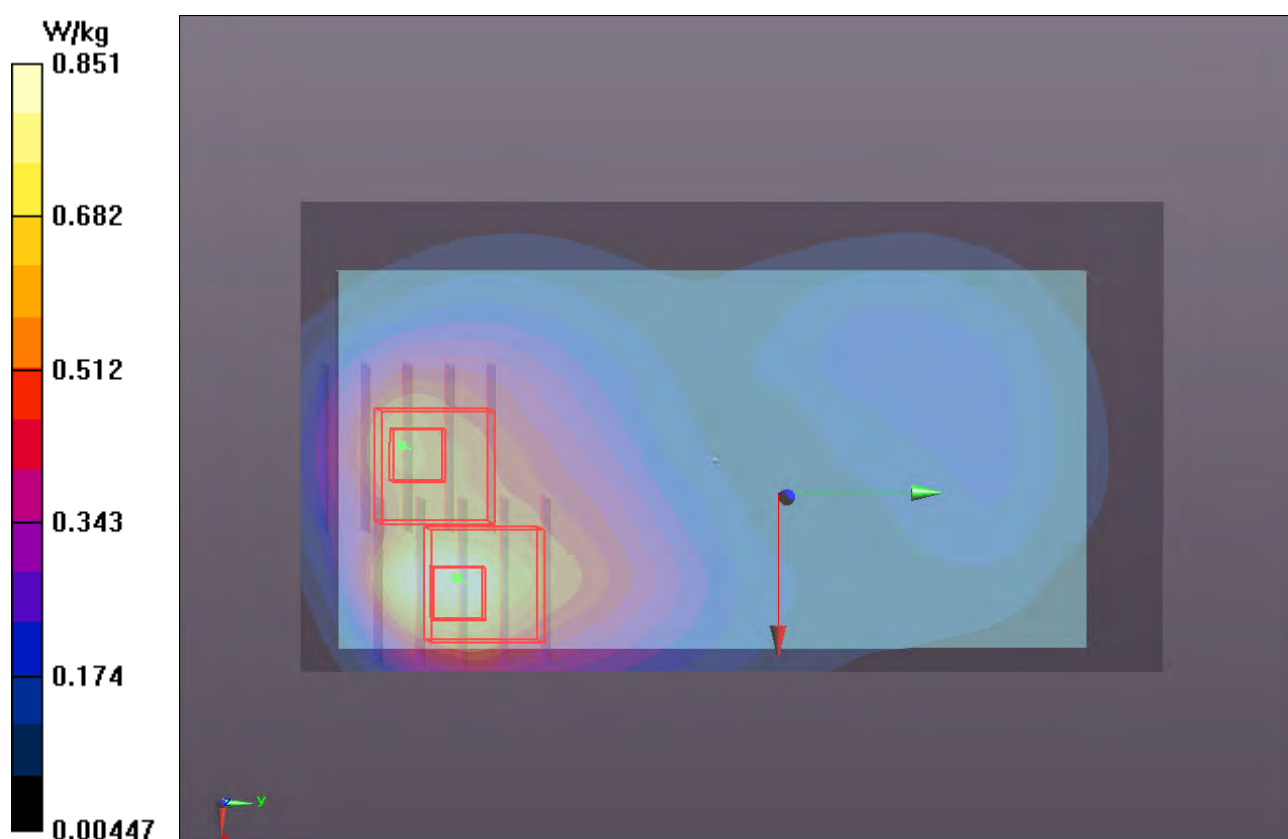
**- Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.890 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.767 W/kg

**SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.315 W/kg**

Maximum value of SAR (measured) = 0.629 W/kg



**P21 LTE 5\_QPSK\_10M\_Rear Face\_1cm\_Ch20450\_Handset\_1RB\_OS24****DUT: 131213C05**

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: B835\_0116 Medium parameters used:  $f = 829$  MHz;  $\sigma = 0.986$  S/m;  $\epsilon_r = 55.547$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(10.14, 10.14, 10.14); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (51x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.398 W/kg

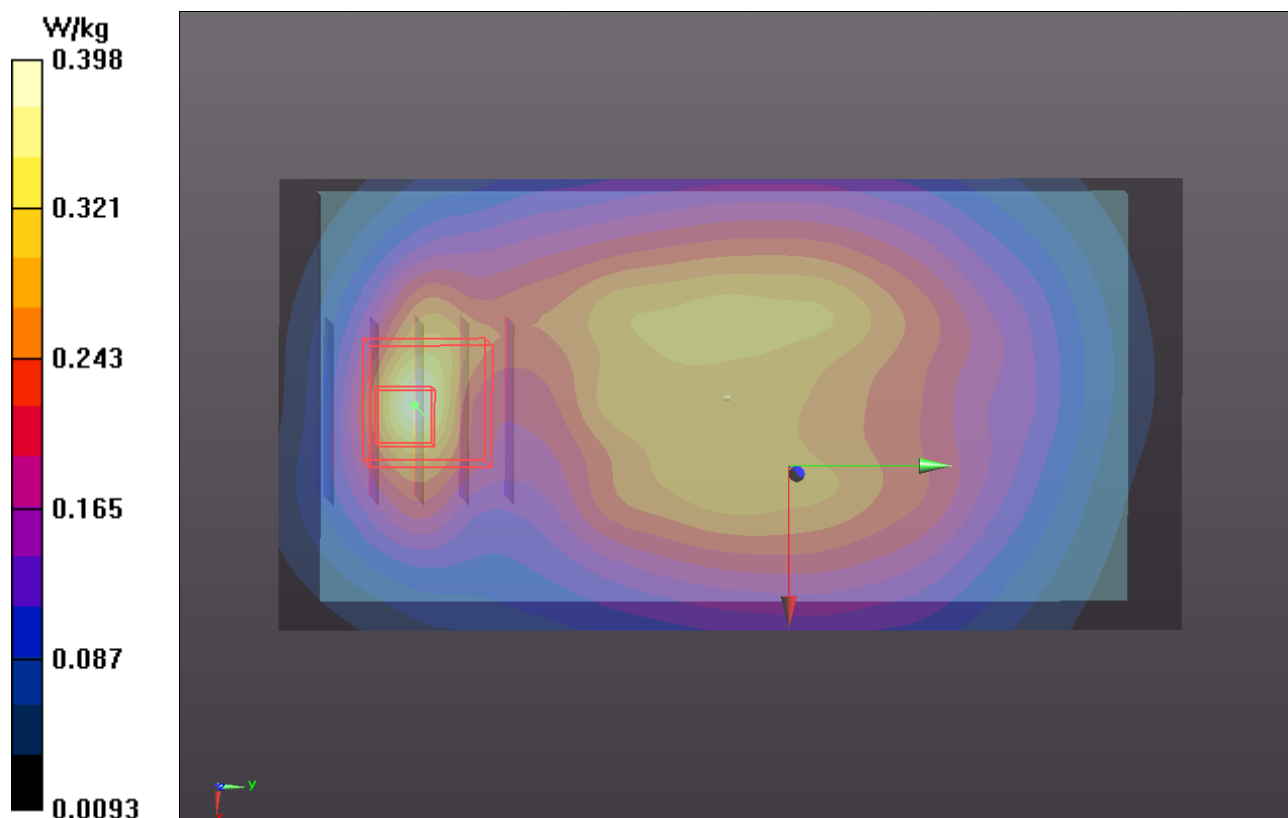
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.324 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.432 W/kg

**SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.139 W/kg**

Maximum value of SAR (measured) = 0.345 W/kg



**P22 LTE 7\_QPSK\_10M\_Rear Face\_1cm\_Ch20800\_Handset\_1RB\_OS24****DUT: 131213C05**

Communication System: LTE; Frequency: 2505 MHz; Duty Cycle: 1:1

Medium: B2600\_0103 Medium parameters used:  $f = 2505$  MHz;  $\sigma = 2.062$  S/m;  $\epsilon_r = 52.34$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.91, 6.91, 6.91); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (81x131x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 0.443 W/kg

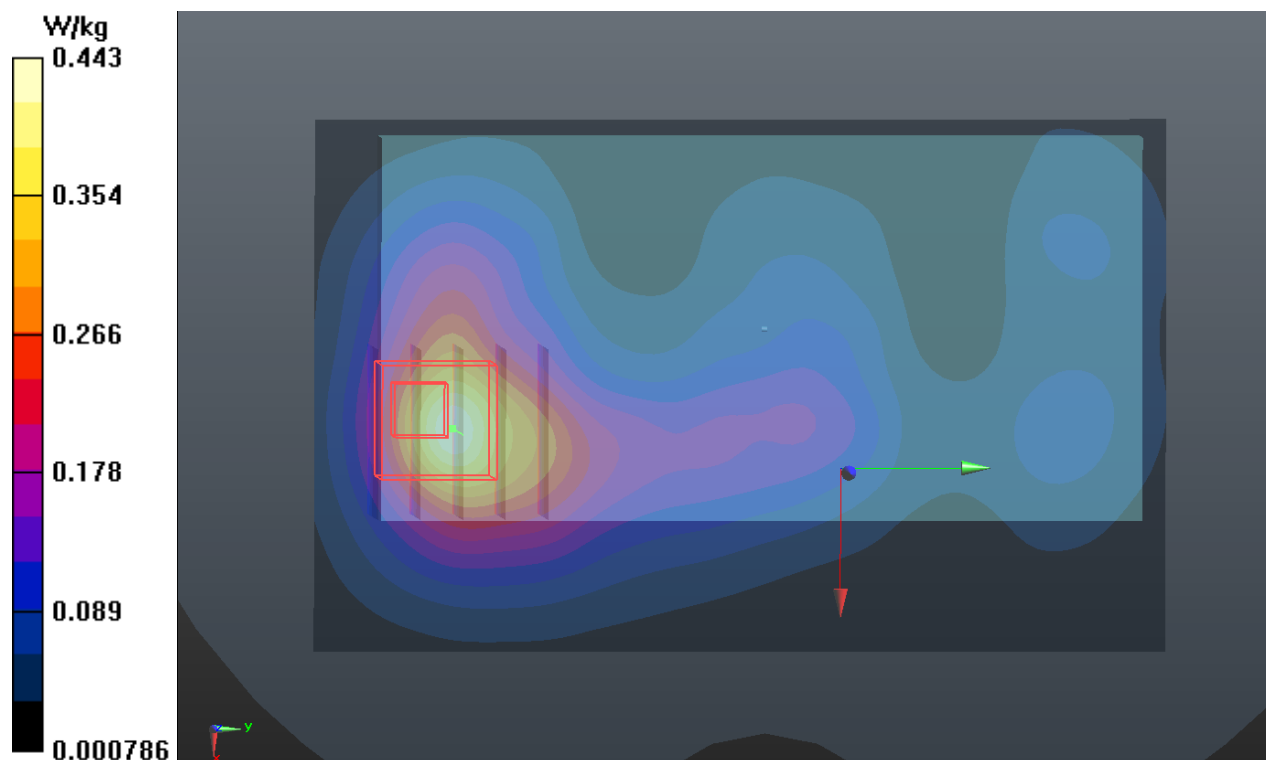
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 6.746 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.514 W/kg

**SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.125 W/kg**

Maximum value of SAR (measured) = 0.374 W/kg



**P23 LTE 17\_QPSK\_10M\_Rear Face\_1cm\_Ch23780\_Handset\_1RB\_OS24****DUT: 131213C05**

Communication System: LTE; Frequency: 709 MHz; Duty Cycle: 1:1

Medium: B750\_0116 Medium parameters used:  $f = 709$  MHz;  $\sigma = 0.932$  S/m;  $\epsilon_r = 55.594$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.15, 10.15, 10.15); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (51x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.383 W/kg

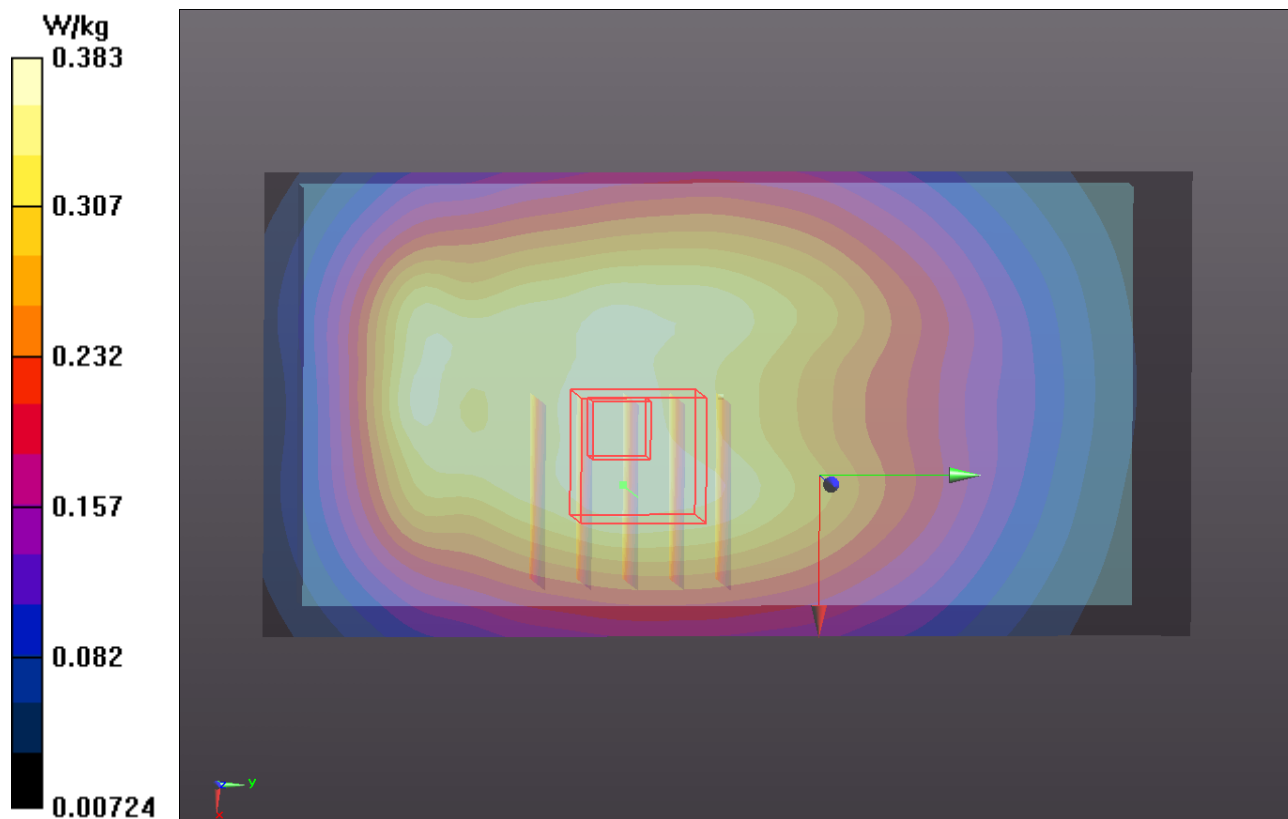
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.251 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.418 W/kg

**SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.268 W/kg**

Maximum value of SAR (measured) = 0.386 W/kg



**P24 802.11b\_Front Face\_1cm\_Ch1\_Handset****DUT: 131213C05**

Communication System: WLAN\_2.4G; Frequency: 2412 MHz; Duty Cycle: 1:1.02

Medium: B2450\_0103 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.913$  S/m;  $\epsilon_r = 51.316$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.1 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3650; ConvF(7.09, 7.09, 7.09); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (81x131x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 0.135 W/kg

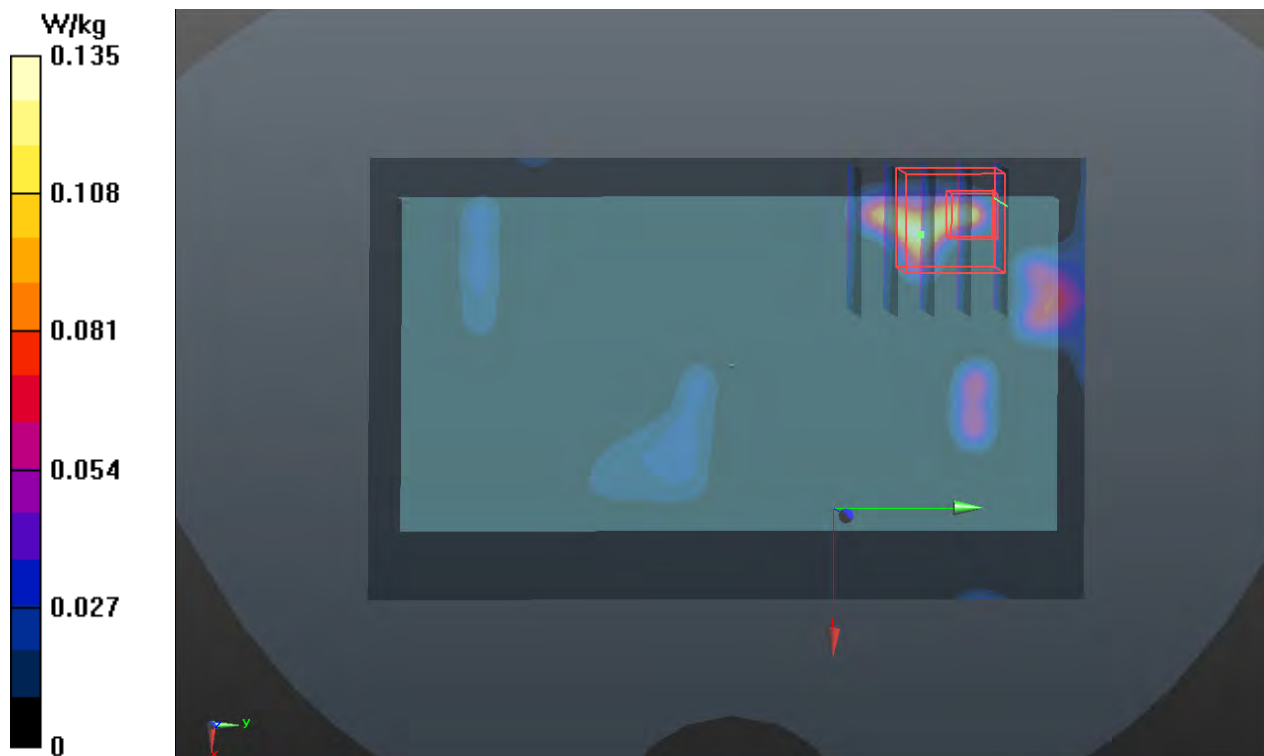
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.140 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.137 W/kg

**SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.036 W/kg**

Maximum value of SAR (measured) = 0.0934 W/kg



**P25 802.11a\_Rear Face\_1cm\_Ch48\_Handset****DUT: 131213C05**

Communication System: WLAN\_5G; Frequency: 5240 MHz; Duty Cycle: 1:1.16

Medium: B5G\_0116 Medium parameters used:  $f = 5240$  MHz;  $\sigma = 5.258$  S/m;  $\epsilon_r = 50.895$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (101x181x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.816 W/kg

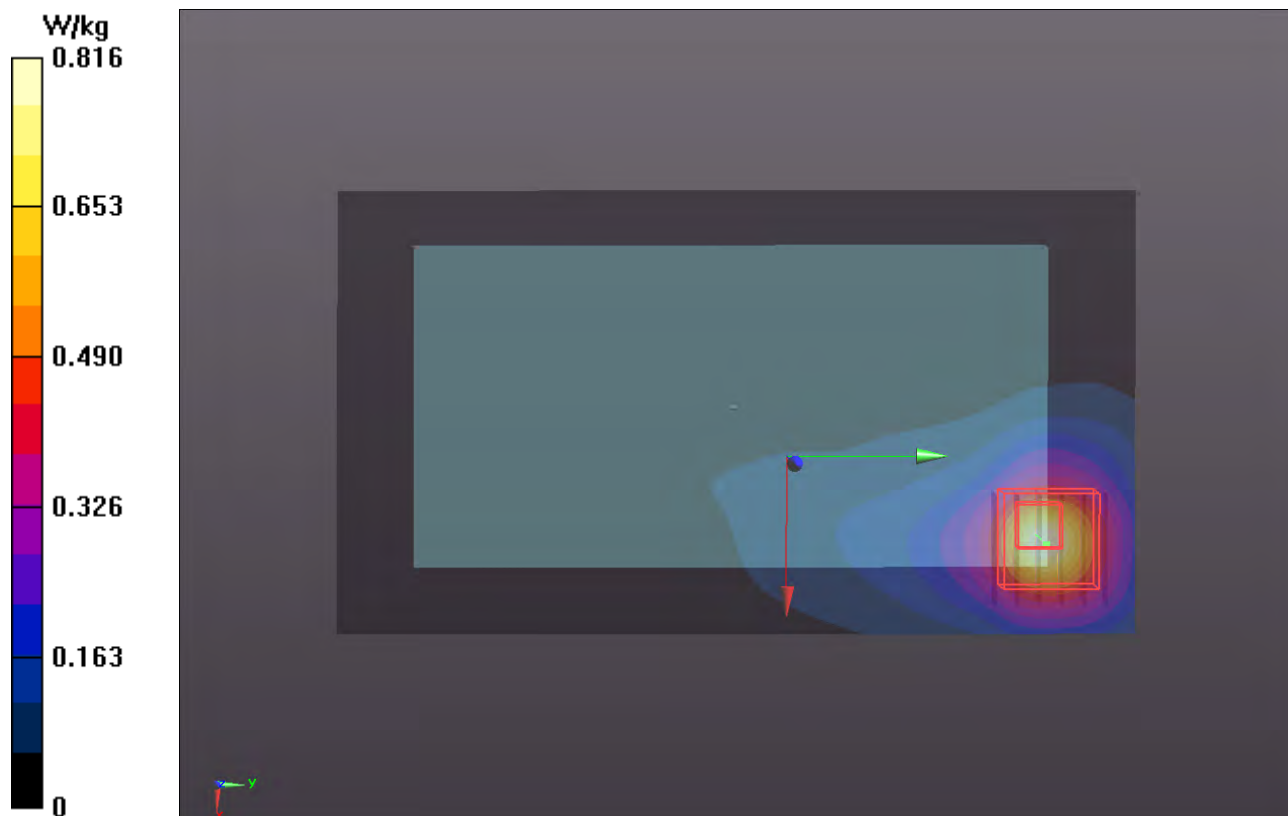
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=2$ mm

Reference Value = 2.348 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.65 W/kg

**SAR(1 g) = 0.474 W/kg; SAR(10 g) = 0.160 W/kg**

Maximum value of SAR (measured) = 0.898 W/kg



**P26 802.11a\_Rear Face\_1cm\_Ch52\_Handset****DUT: 131213C05**

Communication System: WLAN\_5G; Frequency: 5260 MHz; Duty Cycle: 1:1.16

Medium: B5G\_0116 Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.295$  S/m;  $\epsilon_r = 50.88$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(4.01, 4.01, 4.01); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (101x181x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.807 W/kg

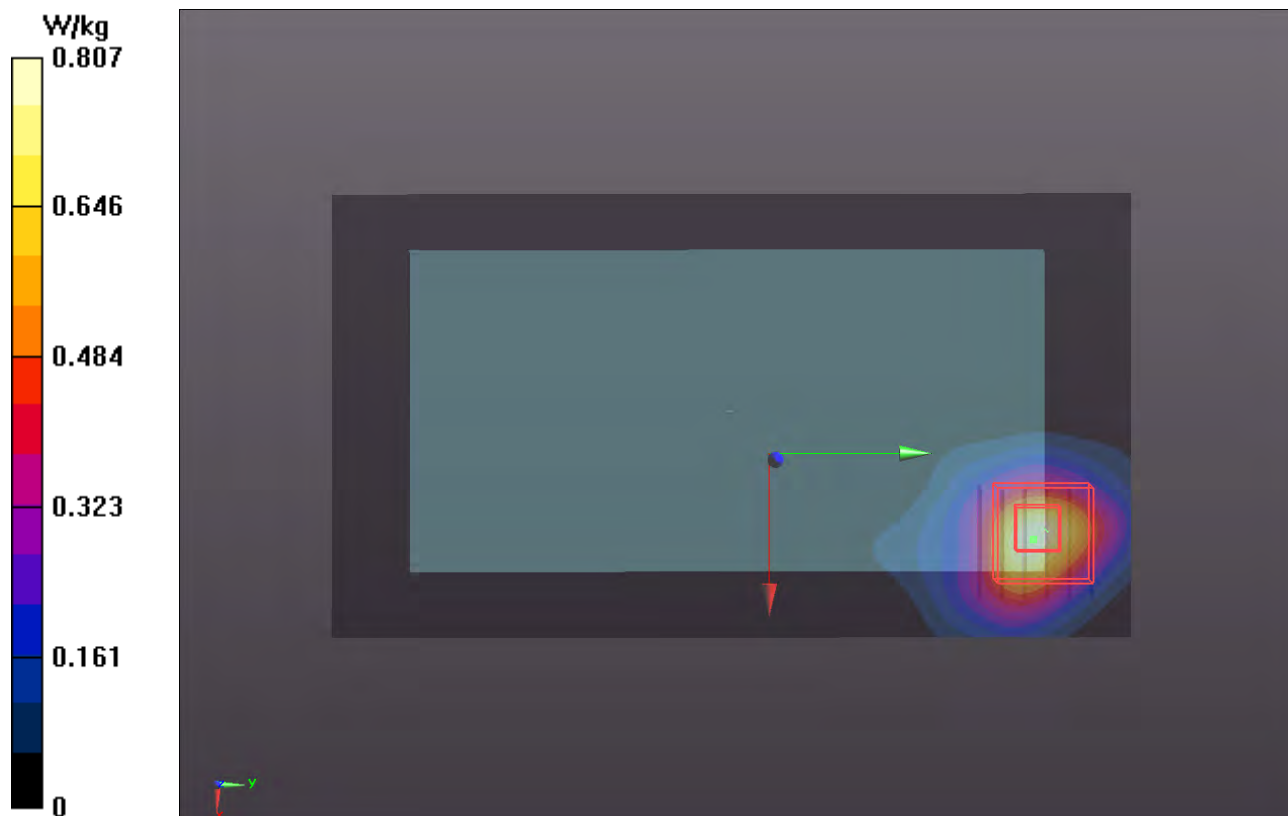
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=2$ mm

Reference Value = 1.359 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.67 W/kg

**SAR(1 g) = 0.500 W/kg; SAR(10 g) = 0.183 W/kg**

Maximum value of SAR (measured) = 0.917 W/kg



**P27 802.11a\_Rear Face\_1cm\_Ch140\_Handset****DUT: 131213C05**

Communication System: WLAN\_5G; Frequency: 5700 MHz; Duty Cycle: 1:1.16

Medium: B5G\_0116 Medium parameters used:  $f = 5700$  MHz;  $\sigma = 6.03$  S/m;  $\epsilon_r = 50.002$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(3.69, 3.69, 3.69); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (101x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.599 W/kg

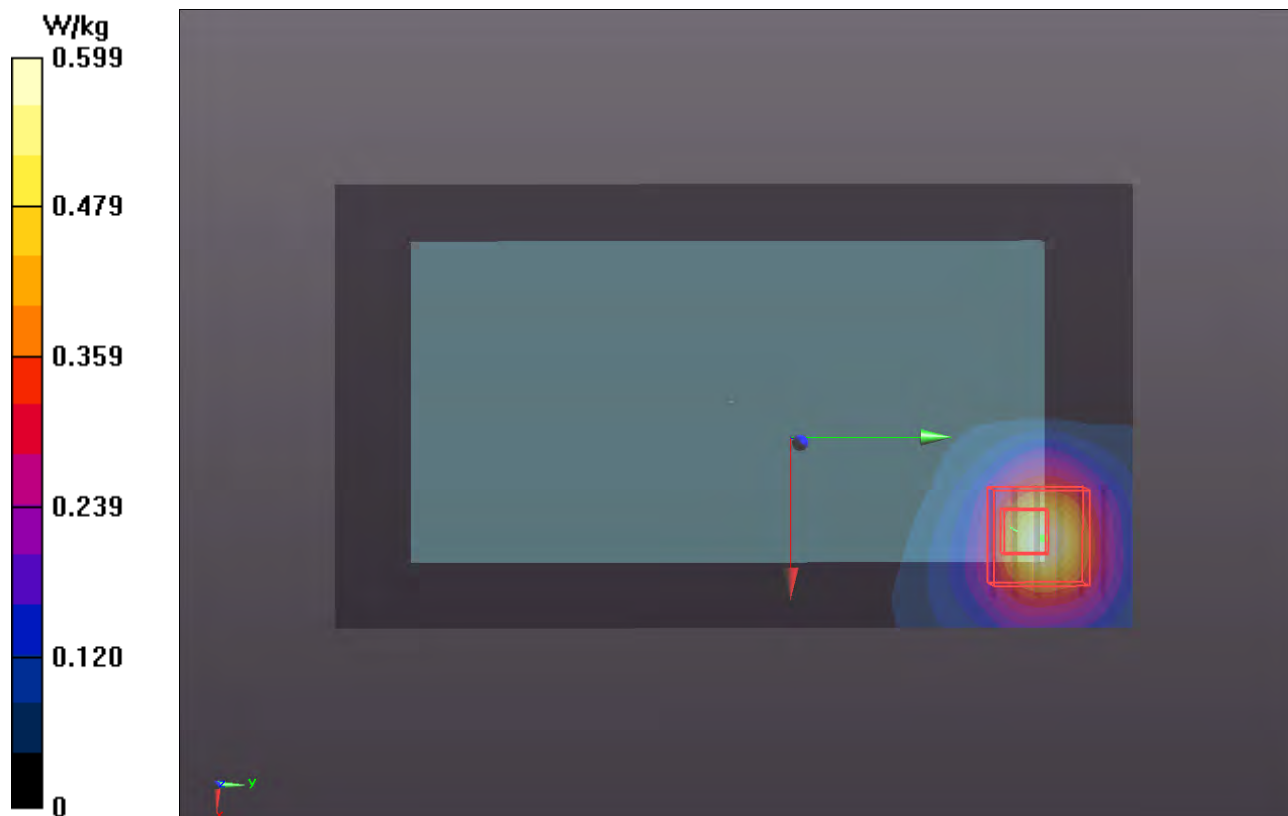
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.428 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.354 W/kg; SAR(10 g) = 0.136 W/kg**

Maximum value of SAR (measured) = 0.626 W/kg



**P28 802.11a\_Rear Face\_1cm\_Ch161\_Handset****DUT: 131213C05**

Communication System: WLAN\_5G; Frequency: 5805 MHz; Duty Cycle: 1:1.16

Medium: B5G\_0116 Medium parameters used:  $f = 5805$  MHz;  $\sigma = 6.187$  S/m;  $\epsilon_r = 49.745$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(3.93, 3.93, 3.93); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (101x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.616 W/kg

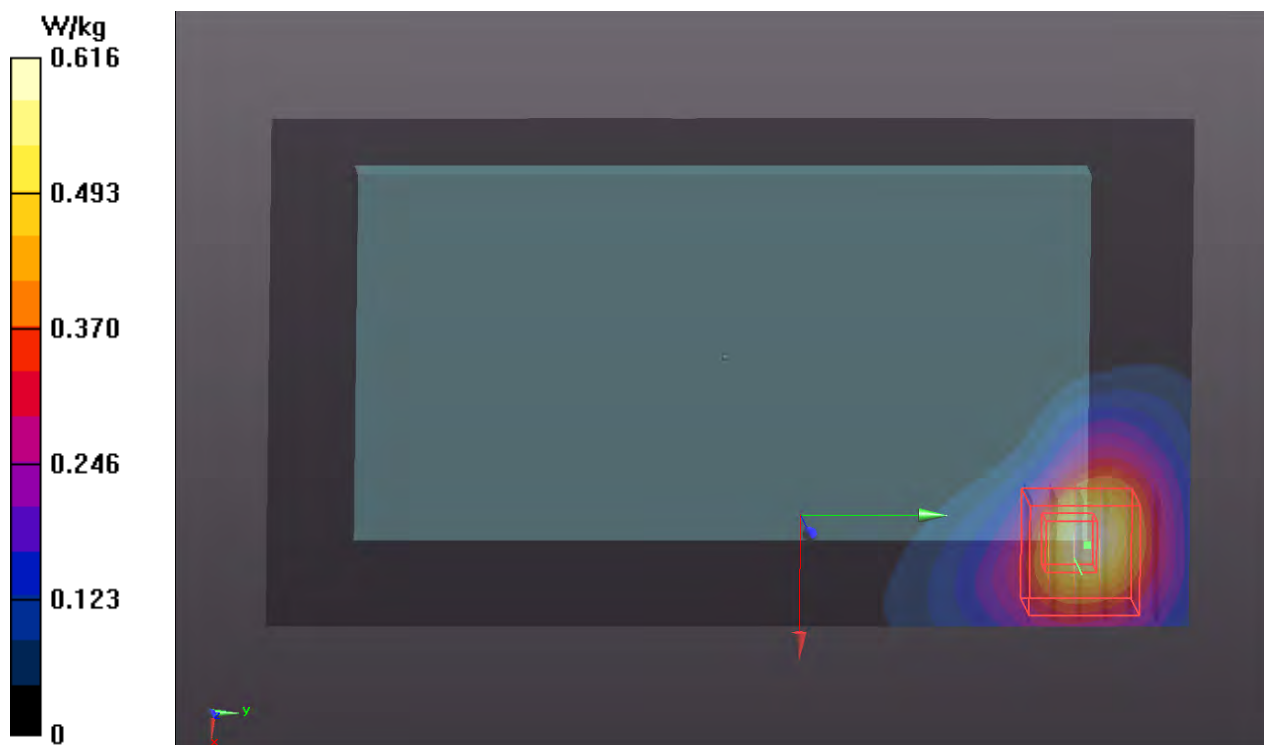
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.201 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.364 W/kg; SAR(10 g) = 0.140 W/kg**

Maximum value of SAR (measured) = 0.687 W/kg



**P29 GSM850\_GPRS10\_Top Side\_0.8cm\_Ch251\_Tablet\_w/o Pw Reduction****DUT: 131213C05**

Communication System: GPRS10; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: B835\_0104 Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.014$  S/m;  $\epsilon_r = 56.718$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (41x181x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.952 W/kg

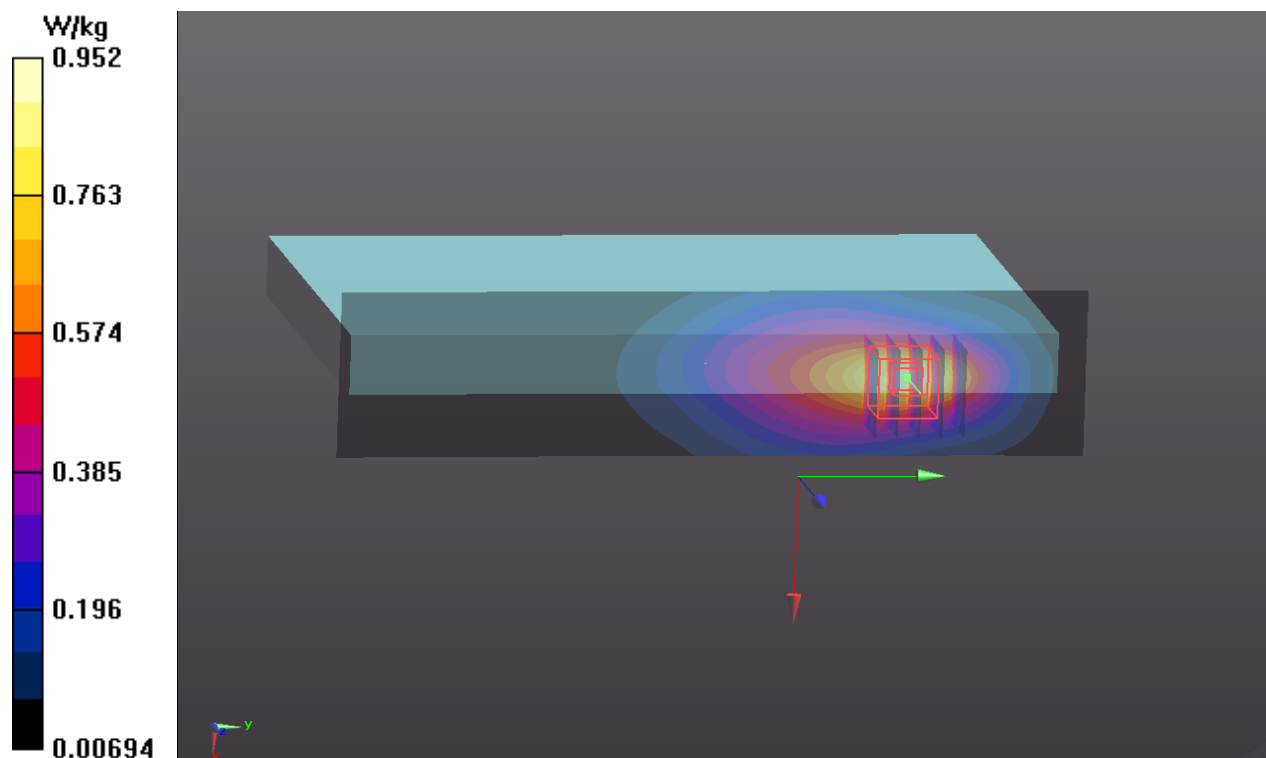
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.016 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.11 W/kg

**SAR(1 g) = 0.733 W/kg; SAR(10 g) = 0.476 W/kg**

Maximum value of SAR (measured) = 0.936 W/kg



**P30 GSM1900\_GPRS10\_Top Side\_0.8cm\_Ch810\_Tablet\_w/o Pw Reduction****DUT: 131213C05**

Communication System: GPRS10; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: B1900\_0103 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.555$  S/m;  $\epsilon_r = 53.186$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.5 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.39, 7.39, 7.39); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (41x181x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.791 W/kg

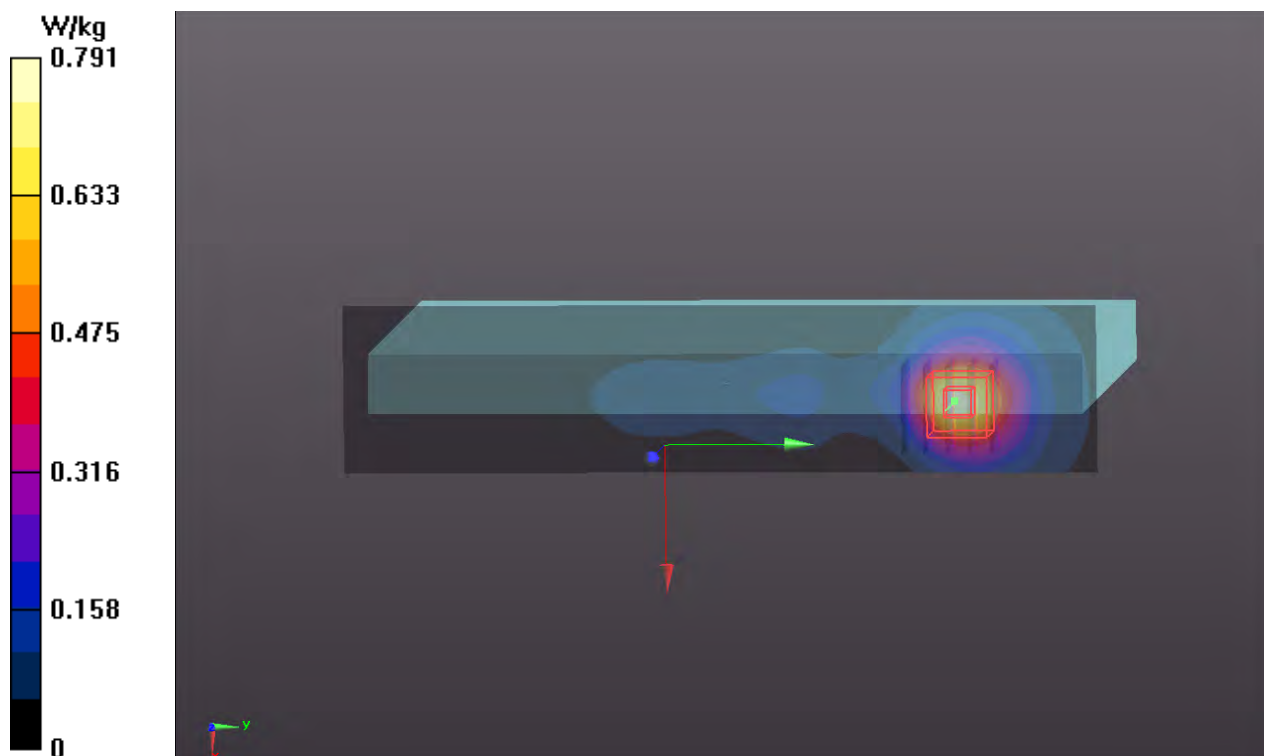
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.704 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.935 W/kg

**SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.320 W/kg**

Maximum value of SAR (measured) = 0.750 W/kg



**P31 WCDMA II\_RMC12.2K\_Top Side\_0cm\_Ch9400\_Tablet\_w/ Pw Reduction****DUT: 131213C05**

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: B1900\_0106 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.533$  S/m;  $\epsilon_r = 53.495$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.39, 7.39, 7.39); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (41x181x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.807 W/kg

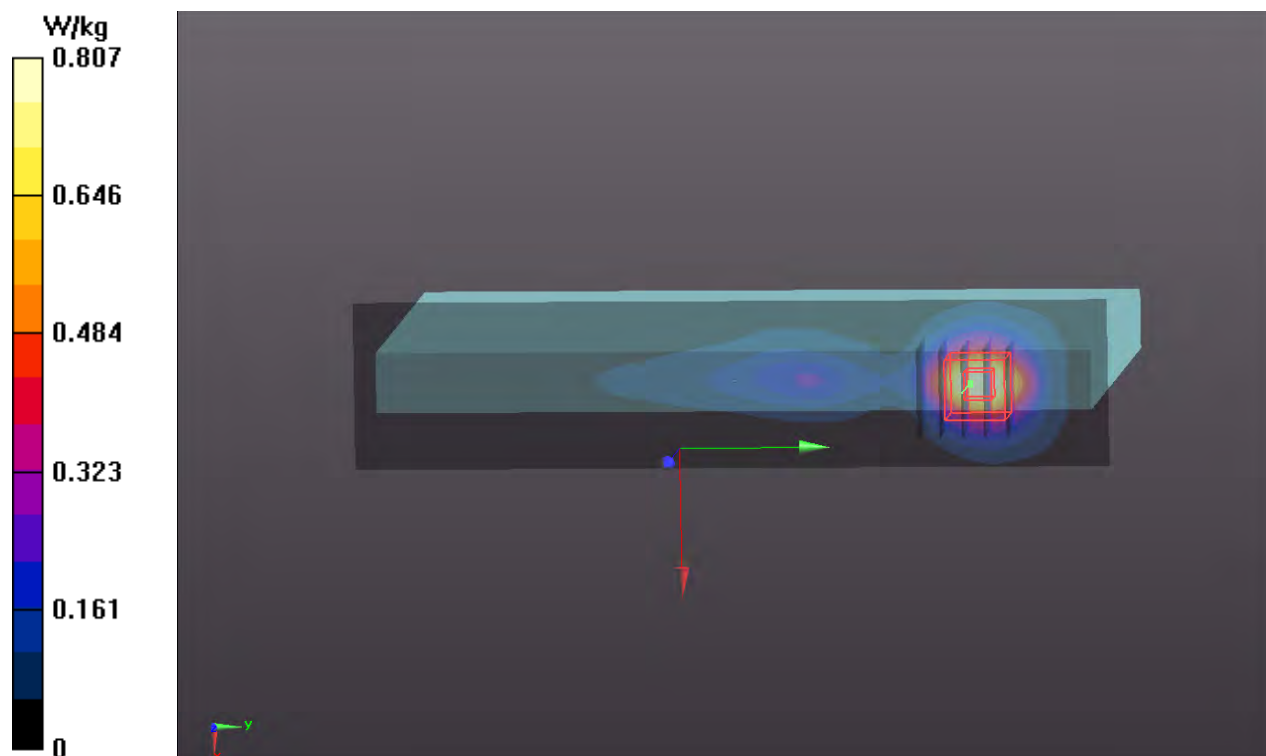
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.351 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.990 W/kg

**SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.309 W/kg**

Maximum value of SAR (measured) = 0.757 W/kg



**P32 WCDMA V\_RMC12.2k\_Top Side\_0cm\_Ch4132\_Tablet\_w/ Pw Reduction****DUT: 131213C05**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: B835\_0107 Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.989$  S/m;  $\epsilon_r = 56.762$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C; Liquid Temperature : 21.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (31x181x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.680 W/kg

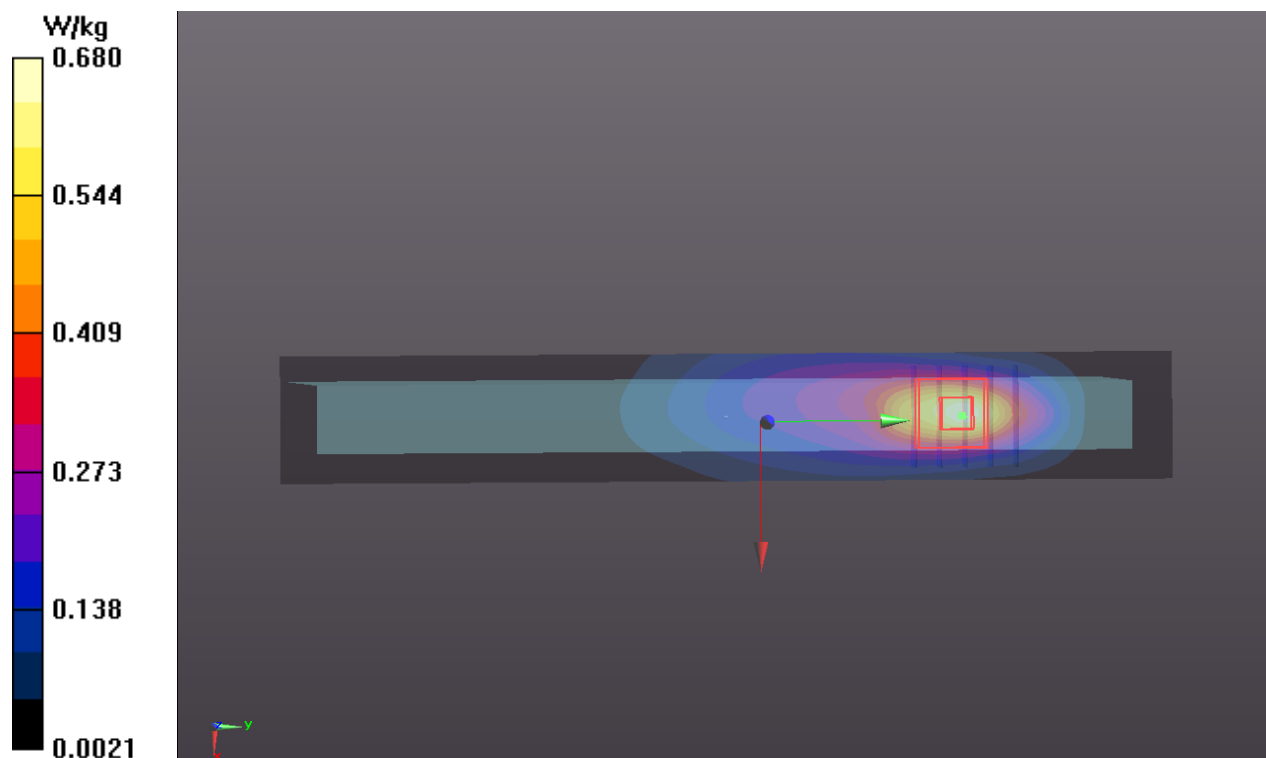
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 12.925 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.820 W/kg

**SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.253 W/kg**

Maximum value of SAR (measured) = 0.639 W/kg



## P33 LTE 2\_QPSK\_10M\_Top Side\_0cm\_Ch18650\_Tablet\_w/ Pw Reduction \_EUT2\_1RB\_OS24

**DUT: 131213C05**

Communication System: LTE 2; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium: B1900\_0220 Medium parameters used:  $f = 1855$  MHz;  $\sigma = 1.495$  S/m;  $\epsilon_r = 52.04$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.8 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(7.87, 7.87, 7.87); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (41x181x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 1.02 W/kg

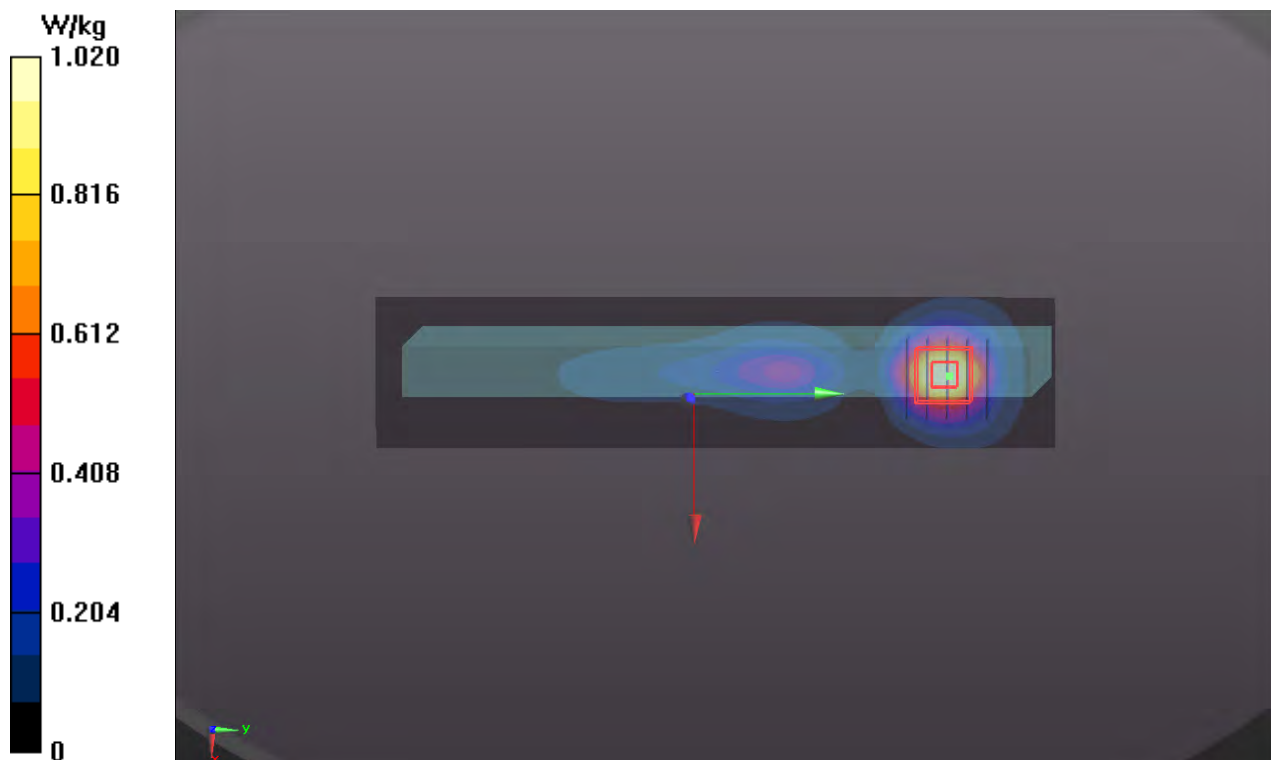
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 12.386 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.751 W/kg; SAR(10 g) = 0.422 W/kg**

Maximum value of SAR (measured) = 0.998 W/kg



**P34 LTE 4\_QPSK\_10M\_Top Side\_0cm\_Ch20350\_Tablet\_w/ Pw Reduction\_1RB\_OS49****DUT: 131213C05**

Communication System: LTE; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: B1750\_0115 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.487$  S/m;  $\epsilon_r = 52.082$ ;  $\rho =$

$1000 \text{ kg/m}^3$

Ambient Temperature :  $21.9^\circ\text{C}$ ; Liquid Temperature :  $21.5^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(8.1, 8.1, 8.1); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (31x191x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) =  $0.883 \text{ W/kg}$

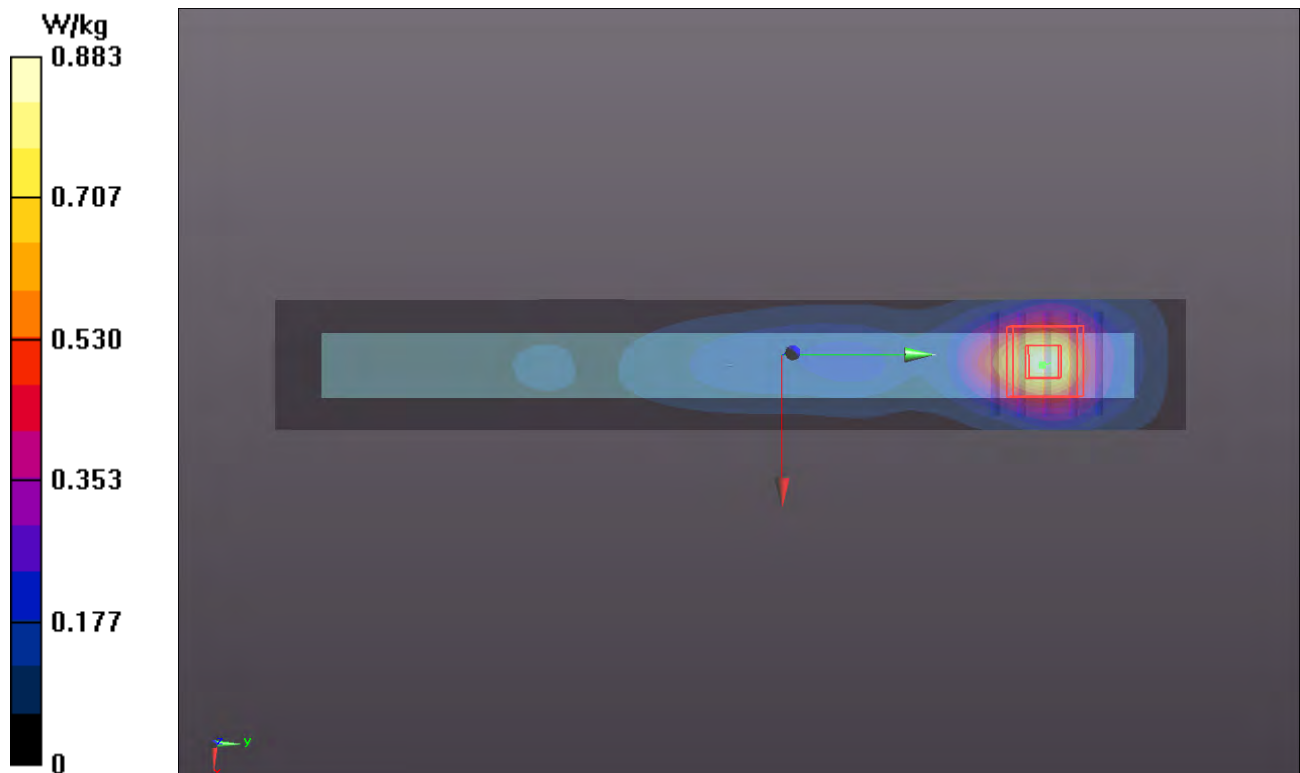
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $10.608 \text{ V/m}$ ; Power Drift =  $0.08 \text{ dB}$

Peak SAR (extrapolated) =  $1.09 \text{ W/kg}$

**SAR(1 g) =  $0.660 \text{ W/kg}$ ; SAR(10 g) =  $0.378 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.876 \text{ W/kg}$



**P35 LTE 5\_QPSK\_10M\_Top Side\_0cm\_Ch20450\_Tablet\_w/ Pw Reduction\_1RB\_OS0****DUT: 131213C05**

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: B835\_0107 Medium parameters used:  $f = 829$  MHz;  $\sigma = 0.992$  S/m;  $\epsilon_r = 56.735$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C; Liquid Temperature : 21.2 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (31x181x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 0.764 W/kg

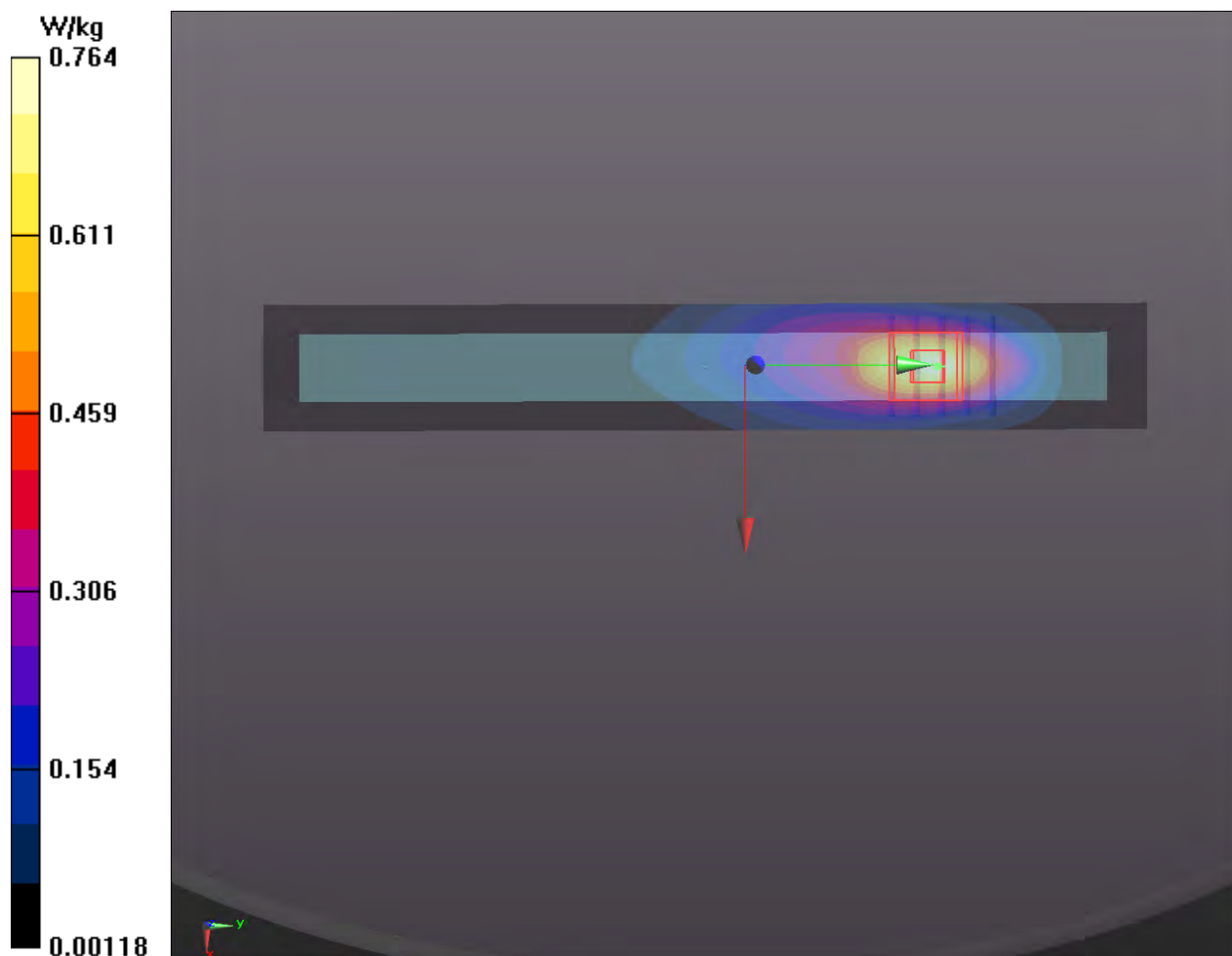
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.397 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.891 W/kg

**SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.295 W/kg**

Maximum value of SAR (measured) = 0.714 W/kg



**P36 LTE 7\_QPSK\_10M\_Top Side\_0.8cm\_Ch20800\_Tablet\_w/o Pw Reduction  
\_1RB\_OS24****DUT: 131213C05**

Communication System: LTE; Frequency: 2505 MHz; Duty Cycle: 1:1

Medium: B2600\_0104 Medium parameters used:  $f = 2505$  MHz;  $\sigma = 2.074$  S/m;  $\epsilon_r = 52.673$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 20.9 °C; Liquid Temperature : 20.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.91, 6.91, 6.91); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (41x241x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm  
Maximum value of SAR (interpolated) = 1.22 W/kg

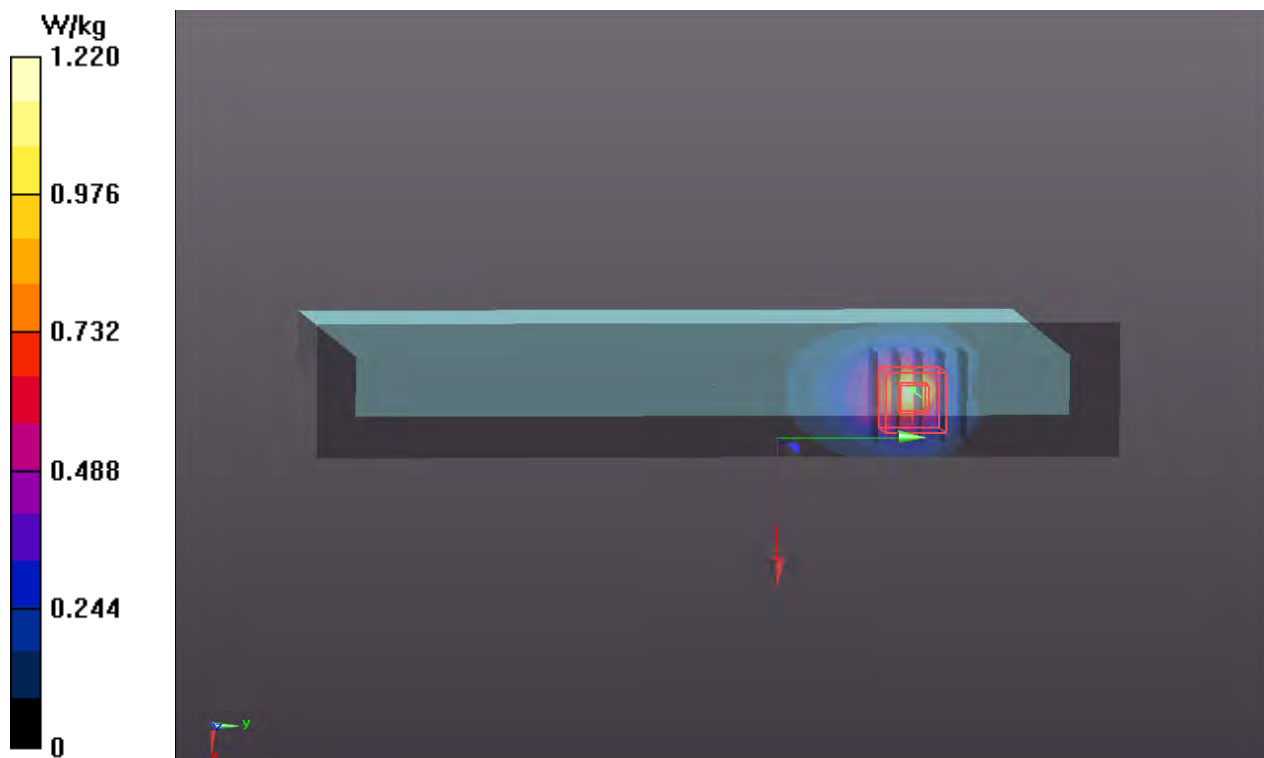
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.705 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.66 W/kg

**SAR(1 g) = 0.829 W/kg; SAR(10 g) = 0.404 W/kg**

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



## P37 LTE 17\_QPSK\_10M\_Top Side\_0cm\_Ch23790\_Tablet\_w/ Pw Reduction \_1RB\_OS24

**DUT: 131213C05**

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium: B750\_0107 Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  S/m;  $\epsilon_r = 55.566$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C; Liquid Temperature : 21.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.51, 9.51, 9.51); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (21x141x1):** Interpolated grid: dx=2.000 mm, dy=2.000 mm  
Maximum value of SAR (interpolated) = 0.389 W/kg

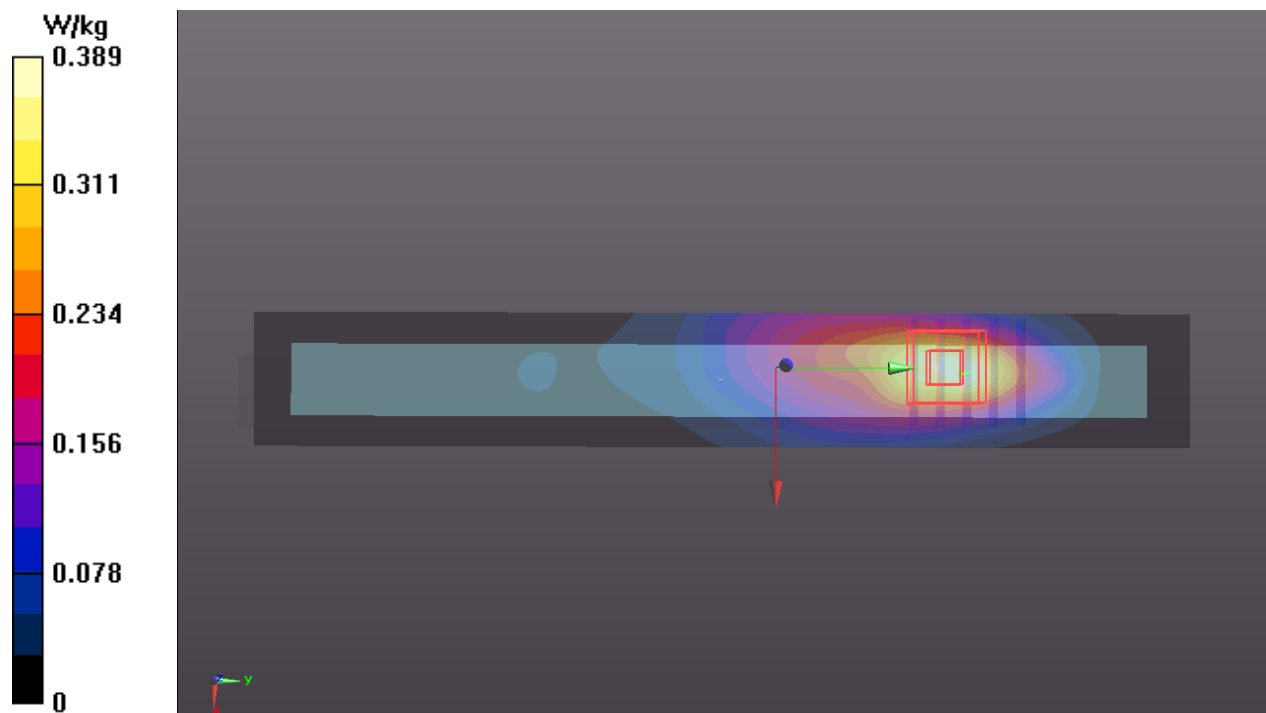
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.048 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.472 W/kg

**SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.174 W/kg**

Maximum value of SAR (measured) = 0.384 W/kg



**P38 802.11b\_Rear Face\_0cm\_Ch1\_Tablet****DUT: 131213C05**

Communication System: WLAN\_2.4G; Frequency: 2412 MHz; Duty Cycle: 1:1.02

Medium: B2450\_0115 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.913$  S/m;  $\epsilon_r = 51.514$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.8°C; Liquid Temperature : 20.1 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3590; ConvF(8.08, 8.08, 8.08); Calibrated: 2013/02/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2013/03/19
- Phantom: ELI v4.0\_Right; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (161x221x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 0.596 W/kg

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

Reference Value = 1.382 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.488 W/kg; SAR(10 g) = 0.185 W/kg**

Maximum value of SAR (measured) = 0.888 W/kg



**P39 802.11a\_Rear Face\_0cm\_Ch48\_Tablet****DUT: 131213C05**

Communication System: WLAN\_5G; Frequency: 5240 MHz; Duty Cycle: 1:1.16

Medium: B5G\_0122 Medium parameters used:  $f = 5240$  MHz;  $\sigma = 5.395$  S/m;  $\epsilon_r = 47.302$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 20.4 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3650; ConvF(4.51, 4.51, 4.51); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (201x261x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 1.34 W/kg

- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=2$ mm

Reference Value = 0.369 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 4.92 W/kg

**SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.159 W/kg**

Maximum value of SAR (measured) = 2.12 W/kg



**P40 802.11a\_Rear Face\_0cm\_Ch52\_Tablet****DUT: 131213C05**

Communication System: WLAN\_5G; Frequency: 5260 MHz; Duty Cycle: 1:1.16

Medium: B5G\_0116 Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.481$  S/m;  $\epsilon_r = 47.62$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.9 °C; Liquid Temperature : 20.1 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3864; ConvF(4.01, 4.01, 4.01); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (81x261x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 1.44 W/kg

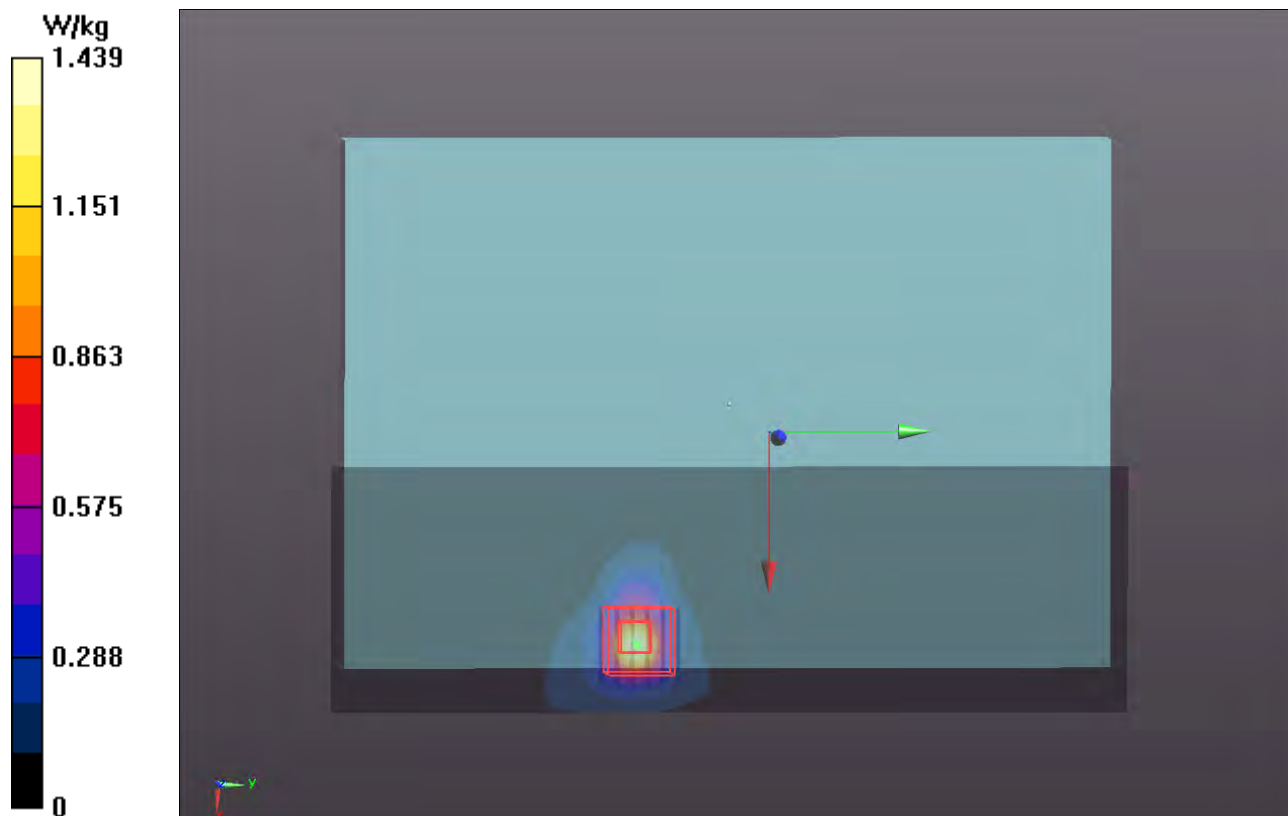
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=2$ mm

Reference Value = 1.816 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 4.70 W/kg

**SAR(1 g) = 0.952 W/kg; SAR(10 g) = 0.231 W/kg**

Maximum value of SAR (measured) = 2.40 W/kg



**P41 802.11a\_Rear Face\_0cm\_Ch116\_Tablet****DUT: 131213C05**

Communication System: WLAN\_5G; Frequency: 5580 MHz; Duty Cycle: 1:1.16

Medium: B5G\_0122 Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.867$  S/m;  $\epsilon_r = 46.645$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 20.4 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3650; ConvF(4, 4, 4); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x261x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.88 W/kg

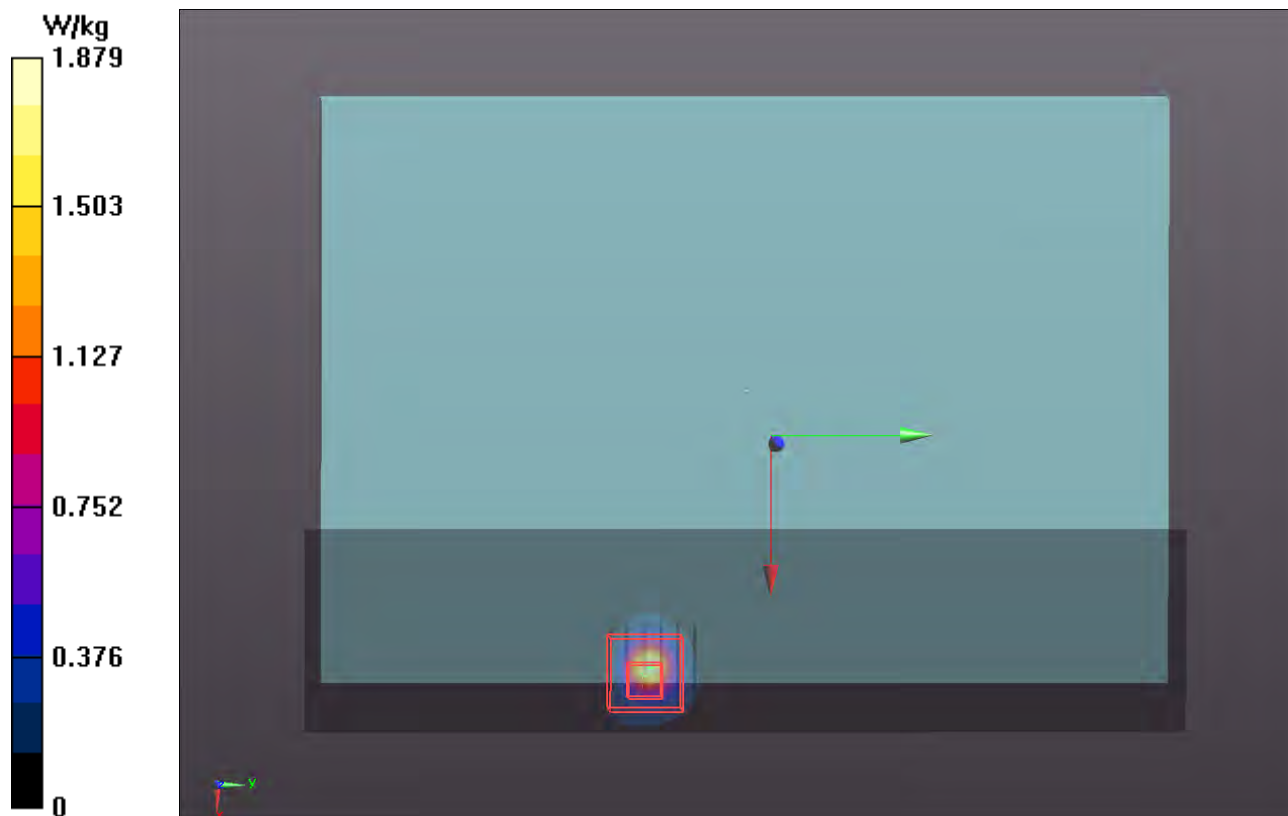
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 5.57 W/kg

**SAR(1 g) = 0.929 W/kg; SAR(10 g) = 0.192 W/kg**

Maximum value of SAR (measured) = 2.81 W/kg



**P42 802.11a\_Rear Face\_0cm\_Ch153\_Tablet****DUT: 131213C05**

Communication System: WLAN\_5G; Frequency: 5765 MHz; Duty Cycle: 1:1.16

Medium: B5G\_0122 Medium parameters used:  $f = 5765$  MHz;  $\sigma = 6.117$  S/m;  $\epsilon_r = 46.266$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 20.4 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3650; ConvF(4.21, 4.21, 4.21); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x261x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.603 W/kg

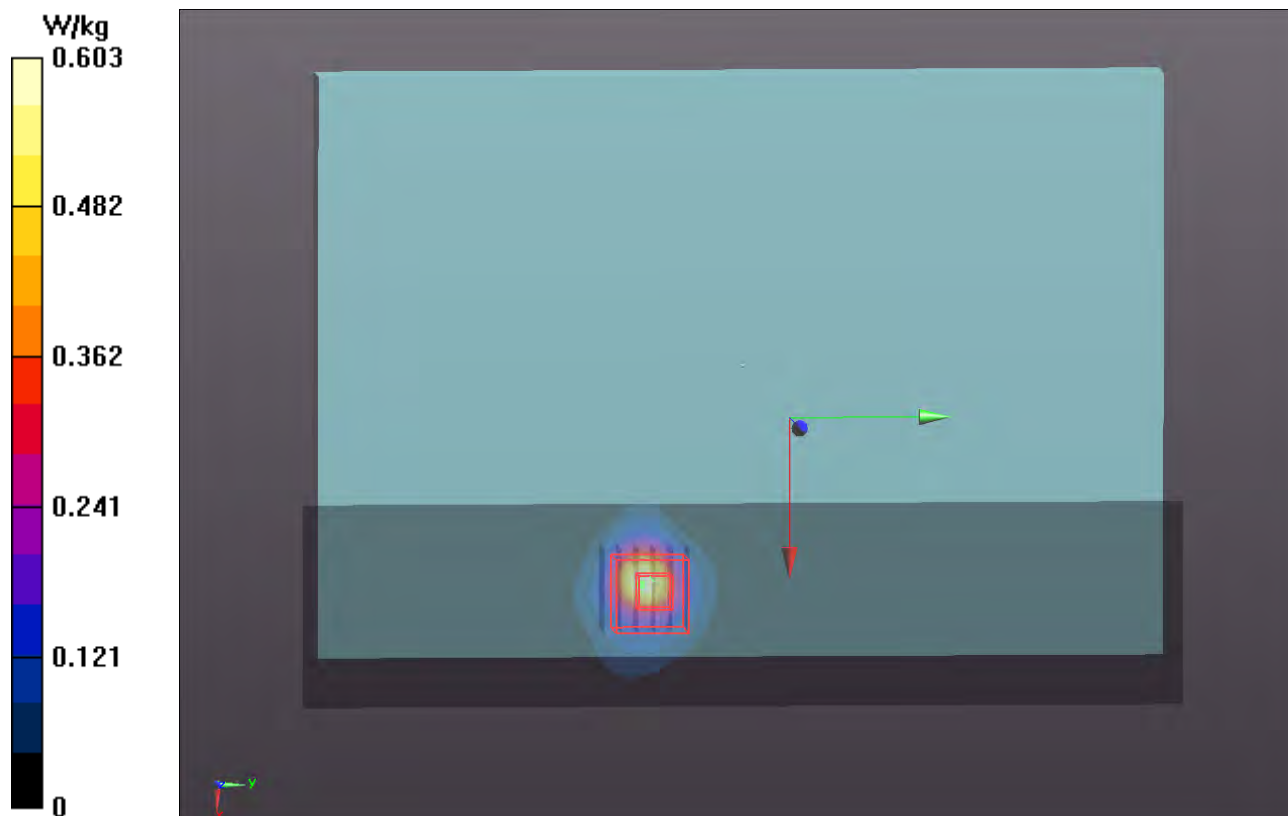
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 5.93 W/kg

**SAR(1 g) = 0.866 W/kg; SAR(10 g) = 0.171 W/kg.**

Maximum value of SAR (measured) = 2.19 W/kg



**P43 Bluetooth\_Rear Face\_0cm\_Ch0\_Tablet****DUT: 131213C05**

Communication System: BT; Frequency: 2402 MHz; Duty Cycle: 1:1.75

Medium: B2450\_0115 Medium parameters used:  $f = 2402$  MHz;  $\sigma = 1.899$  S/m;  $\epsilon_r = 51.58$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.8°C; Liquid Temperature : 20.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(8.08, 8.08, 8.08); Calibrated: 2013/02/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2013/03/19
- Phantom: ELI v4.0\_Right; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (161x221x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0693 W/kg

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

Reference Value = 0.686 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.216 W/kg

**SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.021 W/kg**

Maximum value of SAR (measured) = 0.0971 W/kg

