

# SAR TEST REPORT

|                      |                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|
| Equipment Under Test | : Tablet PC                                                                                                           |
| Model No.            | : XE500T1C                                                                                                            |
| Applicant            | : Samsung Electronics Co., Ltd.                                                                                       |
| Address of Applicant | : 416, Maetan-dong, Yeongtong-gu, Suwon-city, Gyeonggi-do, Korea                                                      |
| FCC ID               | : System FCC ID: A3LXE500T1C-N (for NFC, Bluetooth and WLAN Module)<br>Contains FCC ID : A3LMU733-W (for WWAN Module) |
| Device Category      | : Portable Device                                                                                                     |
| Exposure Category    | : General Population / Uncontrolled Exposure                                                                          |
| Date of Receipt      | : 2012-08-21                                                                                                          |
| Date of Test(s)      | : 2012-10-27 ~ 2012-11-03                                                                                             |
| Date of Issue        | : 2013-02-26                                                                                                          |

**Standards:**                    **FCC OET Bulletin 65 supplement C**  
                                      **RSS-102 (Issue 4)**  
                                      **IEEE 1528, 2003**  
                                      **ANSI/IEEE C95.1, C95.3**

In the configuration tested, the EUT complied with the standards specified above.

## Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Korea Co., Ltd. (Gunpo Laboratory) or testing done by SGS Korea Co., Ltd. (Gunpo Laboratory) in connection with distribution or use of the product described in this report must be approved by SGS Korea Co., Ltd. (Gunpo Laboratory) in writing.

**Tested by** : Jongwon Ma

**2013-02-26**

**Approved by** : Denny Ham

**2013-02-26**

## **Contents**

### **1. General Information**

|      |                                                      |    |
|------|------------------------------------------------------|----|
| 1.1  | Testing Laboratory.....                              | 3  |
| 1.2  | Details of Applicant.....                            | 3  |
| 1.3  | Version of Report.....                               | 3  |
| 1.4  | Description of EUT(s).....                           | 3  |
| 1.5  | Nominal and Maximum Output Power Specifications..... | 4  |
| 1.6  | Test Environment.....                                | 5  |
| 1.7  | Operation description.....                           | 5  |
| 1.8  | Host PC Information.....                             | 5  |
| 1.9  | SAR Measurement Procedure.....                       | 5  |
| 1.10 | The SAR Measurement System.....                      | 7  |
| 1.11 | System Components.....                               | 9  |
| 1.12 | SAR System Verification.....                         | 10 |
| 1.13 | Tissue Simulant Fluid for the Frequency Band.....    | 12 |
| 1.14 | Test Standards and Limits.....                       | 14 |

### **2. Instruments List..... 16**

### **3. Summary of Results..... 17**

|      |                                                                        |    |
|------|------------------------------------------------------------------------|----|
| 3.1  | FCC Power Measurement Procedures.....                                  | 17 |
| 3.2  | Measured and Reported SAR.....                                         | 17 |
| 3.3  | RF Conducted Average Power.....                                        | 17 |
| 3.4  | Calculated ERP/EIRP Average Power Measurement.....                     | 22 |
| 3.5  | SAR Test Exclusions Applied .....                                      | 23 |
| 3.6  | Power Sensor Activation detail Supply by manufacture.....              | 25 |
| 3.7  | Additional SAR Testing for the Top contour and Right Edge contour..... | 29 |
| 3.8  | SAR Data Summary.....                                                  | 30 |
| 3.9  | Simultaneous Multi-band Transmission Evaluation.....                   | 35 |
| 3.10 | Repeated SAR Measurement.....                                          | 38 |

## **APPENDIX**

A. DASY4 SAR Report

B. Uncertainty Analysis

C. Calibration certificate

# 1. General Information

## 1.1 Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)  
18-34, Sanbon-dong, Gunpo-si, Gyeonggi-do, 435-040, Korea  
Telephone : +82 +31 428 5700  
FAX : +82 +31 427 2371  
Homepage : All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>

## 1.2 Details of Applicant

Applicant : Samsung Electronics Co., Ltd.  
Address : 416, Maetan-dong, Yeongtong-gu, Suwon-city, Gyeonggi-do, Korea  
Email : [johnlee@samsung.com](mailto:johnlee@samsung.com)  
Phone No. : 82-31-277-4784

## 1.3 Version of Report

| Version Number | Date       | Revision      |
|----------------|------------|---------------|
| 00             | 2012-12-13 | Initial issue |
| 01             | 2013-02-05 | Revision 01   |
| 02             | 2013-02-19 | Revision 02   |
| 03             | 2013-02-26 | Revision 03   |

## 1.4 Description of EUT(s)

| <b>EUT Type</b>                           | Tablet PC                                                                                                                                                                                                                                                                                                                               |                                 |                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| <b>Model</b>                              | XE500T1C                                                                                                                                                                                                                                                                                                                                |                                 |                     |
| <b>FCC ID</b>                             | System FCC ID: A3LXE500T1C-N (for NFC, Bluetooth and WLAN Module)<br>Contains FCC ID : A3LMU733-W (for WWAN Module)                                                                                                                                                                                                                     |                                 |                     |
| <b>Serial Number</b>                      | HXVL91CC800139K                                                                                                                                                                                                                                                                                                                         |                                 |                     |
| <b>Mode of Operation</b>                  | GSM850, PCS1900, WCDMA II, WCDMA V, WLAN                                                                                                                                                                                                                                                                                                |                                 |                     |
| <b>Duty Cycle</b>                         | 8.3(GPRS 1Tx Slot), 4.15(GPRS 2Tx Slot), 1(WLAN)                                                                                                                                                                                                                                                                                        |                                 |                     |
| <b>Body worn Accessory</b>                | None                                                                                                                                                                                                                                                                                                                                    |                                 |                     |
| <b>Tx Frequency Range</b>                 | 824.2 MHz ~ 848.8 MHz (GSM850)<br>1850.2 MHz ~ 1909.8 MHz (PCS1900)<br>1852.4 MHz ~ 1907.6 MHz (WCDMA II)<br>826.4 MHz ~ 846.6 MHz (WCDMA V)<br>2412 MHz ~ 2462 MHz (WLAN_11b/g/n)<br>5180 MHz ~ 5240 MHz, 5260 MHz ~ 5320 MHz (WLAN_11a/n)<br>5500 MHz ~ 5700 MHz, 5745 MHz ~ 5825 MHz (WLAN_11a/n)<br>2402 MHz ~ 2480 MHz (Bluetooth) |                                 |                     |
| Equipment Class                           | Band                                                                                                                                                                                                                                                                                                                                    | Measured Conducted Power [dB m] | Reported SAR        |
|                                           |                                                                                                                                                                                                                                                                                                                                         |                                 | 1g Body-Worn (W/kg) |
| <b>PCE</b>                                | GSM/GPRS/EGPRS850                                                                                                                                                                                                                                                                                                                       | 29.75                           | 0.641               |
|                                           | GSM/GPRS/EGPRS1900                                                                                                                                                                                                                                                                                                                      | 26.56                           | 0.753               |
|                                           | WCDMA II                                                                                                                                                                                                                                                                                                                                | 23.11                           | 1.307               |
|                                           | WCDMA V                                                                                                                                                                                                                                                                                                                                 | 23.26                           | 0.646               |
| <b>DTS</b>                                | 2.45 GHz WLAN                                                                                                                                                                                                                                                                                                                           | 11.70                           | 0.139               |
| <b>NUH</b>                                | 5 GHz WLAN                                                                                                                                                                                                                                                                                                                              | 8.80                            | 0.229               |
| <b>DSS</b>                                | Bluetooth                                                                                                                                                                                                                                                                                                                               | 2.65                            | N/A                 |
| Simultaneous SAR per KDB 690783 D01v01r02 |                                                                                                                                                                                                                                                                                                                                         |                                 | <b>1.487</b>        |

## 1.5 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 44798 D01v05.

| Burst Average power for Production |                              |              |              |              |              |
|------------------------------------|------------------------------|--------------|--------------|--------------|--------------|
| Mode                               | Nominal & Maximum            | GSM850       |              | PCS1900      |              |
|                                    |                              | Normal       | Reduced      | Normal       | Reduced      |
| GPRS (GMSK, 1 Tx slot)             | Maximum                      | <b>33.00</b> | <b>24.00</b> | <b>29.50</b> | <b>22.00</b> |
|                                    | Nominal                      | 32.50        | 23.50        | 29.00        | 21.50        |
| GPRS (GMSK, 2 Tx slot)             | Maximum                      | <b>30.50</b> | <b>24.00</b> | <b>27.00</b> | <b>22.00</b> |
|                                    | Nominal                      | 30.00        | 23.50        | 26.50        | 21.50        |
| EDGE (8PSK, 1 Tx slot)             | Maximum                      | <b>27.50</b> | <b>24.50</b> | <b>26.00</b> | <b>22.00</b> |
|                                    | Nominal                      | 27.00        | 24.00        | 25.50        | 21.50        |
| EDGE (8PSK, 2 Tx slot)             | Maximum                      | <b>25.00</b> | <b>24.50</b> | <b>23.50</b> | <b>22.00</b> |
|                                    | Nominal                      | 24.50        | 24.00        | 23.00        | 21.50        |
| Average power for Production       |                              |              |              |              |              |
| Mode                               | Nominal & Maximum            | WCDMA II     |              | WCDMA V      |              |
|                                    |                              | Normal       | Reduced      | Normal       |              |
| RMC 12.2K                          | Maximum                      | <b>24.00</b> | <b>17.00</b> | <b>24.00</b> |              |
|                                    | Nominal                      | 23.50        | 16.50        | 23.50        |              |
| Average power for Production       |                              |              |              |              |              |
| Mode                               | Nominal & Maximum            | b            |              | g            | n            |
| 802.11 b/g/n                       | Maximum                      | <b>12.50</b> |              | <b>9.50</b>  | <b>7.50</b>  |
|                                    | Nominal                      | 12.00        |              | 9.00         | 7.00         |
| Mode                               | Nominal & Maximum            | 5.2 GHz      | 5.3 GHz      | 5.5 GHz      | 5.8 GHz      |
| 802.11 a                           | Maximum                      | <b>8.00</b>  | <b>8.50</b>  | <b>9.50</b>  | <b>10.00</b> |
|                                    | Nominal                      | 7.50         | 8.00         | 9.00         | 9.50         |
| Mode                               | Average power for Production |              |              |              |              |
| Bluetooth                          | Maximum                      | <b>3.50</b>  |              |              |              |
|                                    | Nominal                      | 3.00         |              |              |              |

## 1.6 Test Environment

|                          |                                |
|--------------------------|--------------------------------|
| Ambient temperature      | : $(22 \pm 2) ^\circ \text{C}$ |
| Tissue Simulating Liquid | : $(22 \pm 2) ^\circ \text{C}$ |
| Relative Humidity        | : $(55 \pm 5) \% \text{ R.H.}$ |

## 1.7 Operation Configuration

The device in GSM mode was controlled by using a Communication tester (5155C). Communication between the device and the tester was established by air link. Measurements were performed at the lowest, middle and highest channels of the operating band. The EUT was set to maximum power level during all tests and at the beginning of each test the battery was fully charged.

The DASY5 system measures power drift during SAR testing by comparing e-field in the same location at the beginning and at the end of measurement. Based on the RF Power and antenna separation distance, stand-alone BT SAR and simultaneous SAR evaluation are not required.

## 1.8 Host PC Information

|              |                               |
|--------------|-------------------------------|
| Model Name   | XE500T1C                      |
| Serial No.   | HXVL91CC800139K               |
| Manufacturer | Samsung Electronics Co., Ltd. |

## 1.9 SAR Measurement Procedures

### Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The Minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 2 mm. This distance cannot be smaller than the Distance of sensor calibration points to probe tip as defined in the probe properties.

### Step 2 and 3: Area Scan & Zoom Scan Procedures

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 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

1. The extraction of the measured data (grid and values) from the Zoom Scan.
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
3. The generation of a high-resolution mesh within the measured volume
4. The interpolation of all measured values from the measurement grid to the high-resolution grid
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor

to surface

6. The calculation of the averaged SAR within masses of 1 g and 10 g.

< Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01 >

|                                                                                                                                                                                                                                                                                                      |                                    |                                                                                      | $\leq 3$ GHz                                                                                                                                                                                                                                                           | $> 3$ GHz                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface                                                                                                                                                                                               |                                    |                                                                                      | $5 \pm 1$ mm                                                                                                                                                                                                                                                           | $\frac{1}{2} \delta \ln(2) \pm 0.3$ mm                                              |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location                                                                                                                                                                                                            |                                    |                                                                                      | $30^\circ \pm 1^\circ$                                                                                                                                                                                                                                                 | $20^\circ \pm 1^\circ$                                                              |
| Maximum area scan spatial resolution: $\Delta x_{area}, \Delta y_{area}$                                                                                                                                                                                                                             |                                    |                                                                                      | $\leq 2$ GHz: $\leq 15$ mm<br>$2 - 3$ GHz: $\leq 12$ mm                                                                                                                                                                                                                | $3 - 4$ GHz: $\leq 12$ mm<br>$4 - 6$ GHz: $\leq 10$ mm                              |
|                                                                                                                                                                                                                                                                                                      |                                    |                                                                                      | When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device. |                                                                                     |
| Maximum zoom scan spatial resolution: $\Delta x_{zoom}, \Delta y_{zoom}$                                                                                                                                                                                                                             |                                    |                                                                                      | $\leq 2$ GHz: $\leq 8$ mm<br>$2 - 3$ GHz: $\leq 5$ mm*                                                                                                                                                                                                                 | $3 - 4$ GHz: $\leq 5$ mm*<br>$4 - 6$ GHz: $\leq 4$ mm*                              |
| Maximum zoom scan spatial resolution, normal to phantom surface                                                                                                                                                                                                                                      | uniform grid: $\Delta z_{zoom}(i)$ |                                                                                      | $\leq 5$ mm                                                                                                                                                                                                                                                            | $3 - 4$ GHz: $\leq 4$ mm<br>$4 - 5$ GHz: $\leq 3$ mm<br>$5 - 6$ GHz: $\leq 2$ mm    |
|                                                                                                                                                                                                                                                                                                      | graded grid                        | $\Delta z_{zoom}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface | $\leq 4$ mm                                                                                                                                                                                                                                                            | $3 - 4$ GHz: $\leq 3$ mm<br>$4 - 5$ GHz: $\leq 2.5$ mm<br>$5 - 6$ GHz: $\leq 2$ mm  |
|                                                                                                                                                                                                                                                                                                      |                                    | $\Delta z_{zoom}(n>1)$ : between subsequent points                                   | $\leq (1.5 \cdot \Delta z_{zoom}(n-1))$                                                                                                                                                                                                                                |                                                                                     |
| Minimum zoom scan volume                                                                                                                                                                                                                                                                             | x, y, z                            |                                                                                      | $\geq 30$ mm                                                                                                                                                                                                                                                           | $3 - 4$ GHz: $\geq 28$ mm<br>$4 - 5$ GHz: $\geq 25$ mm<br>$5 - 6$ GHz: $\geq 22$ mm |
| Note: $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.                                                                                                                                                    |                                    |                                                                                      |                                                                                                                                                                                                                                                                        |                                                                                     |
| * When zoom scan is required and the reported SAR from the area scan based <i>I-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4$ W/kg, $\leq 8$ mm, $\leq 7$ mm and $\leq 5$ mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz. |                                    |                                                                                      |                                                                                                                                                                                                                                                                        |                                                                                     |

#### Step 4: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

#### Step 5: Z-Scan

The Z Scan measures points along a vertical straight line. The line runs along the Z-axis of a one-dimensional grid. In order to get a reasonable extrapolation, the extrapolated distance should not be larger than the step size in Z-direction.

### 1.10 The SAR Measurement System

A photograph of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (Speag DASY 5 professional system ). A Model Ex3DV4 3862 E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation  $SAR = \sigma (|E_i|^2) / \rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant. The DASY5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A dosimeter probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.



Fig a. The microwave circuit arrangement used for SAR system verification

- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM phantom enabling testing body usage.
- The device holder for flat phantom.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validate the proper functioning of the system.

## 1.11 System Components

### Isotropic E-field Probe EX3DV4



**Fig. EX3DV4 E-field Probe**

|                      |                                                                                                                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Construction</b>  | : Symmetrical design with triangular core.<br>Built-in shielding against static charges.<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE)                                                |
| <b>Calibration</b>   | : Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 835 and HSL1900.<br>Additional CF-Calibration for other liquids and frequencies upon request.                                            |
| <b>Frequency</b>     | : 10 MHz to 6 GHz; Linearity: $\pm 0.2$ dB (30 MHz to 6 GHz)                                                                                                                                                   |
| <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 m W/g;<br>Linearity: $\pm 0.2$ dB(noise: typically < 1 $\mu$ W/g)                                                                                                                      |
| <b>Dimensions</b>    | : Overall length: 337 mm (Tip length: 20 mm)<br>Tip diameter: 2.5 mm (Body diameter: 12 mm)<br>Distance from probe tip to dipole centers: 1 mm                                                                 |
| <b>Application</b>   | : High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields).<br>Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30% |
| <b>Construction</b>  | : Symmetrical design with triangular core.<br>Built-in shielding against static charges.<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE)                                                |

### **ET3DV6 E-Field Probe**

|                      |                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Construction</b>  | : Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g. glycol). |
| <b>Calibration</b>   | : In air from 10 MHz to 2.5 GHz In brain simulating tissue (accuracy $\pm 8\%$ )                                                                          |
| <b>Frequency</b>     | : 10 MHz to >6 GHz; Linearity: $\pm 0.2$ dB (30 MHz to 3 GHz)                                                                                             |
| <b>Directivity</b>   | : $\pm 0.2$ dB in brain tissue (rotation around probe axis)<br>$\pm 0.4$ dB in brain tissue (rotation normal to probe axis)                               |
| <b>Dynamic Range</b> | : 5 $\mu$ W/g to >100 mW/g; Linearity: $\pm 0.2$ dB                                                                                                       |
| <b>Srfce. Detect</b> | : $\pm 0.2$ mm repeatability in air and clear liquids over diffuse reflecting surfaces                                                                    |
| <b>Dimensions</b>    | : Overall length: 330 mm<br>Tip length: 16 mm<br>Body diameter: 12 mm<br>Tip diameter: 6.8 mm<br>Distance from probe tip to dipole centers: 2.7 mm        |
| <b>Application</b>   | : General dosimetry up to 3 GHz Compliance tests of mobile phone                                                                                          |



ET3DV6 E-Field Probe

#### **NOTE:**

1. The Probe parameters have been calibrated by the SPEAG. Please reference "APPENDIX D" for the Calibration Certification Report.

## SAM Phantom

### Construction:

The SAM Phantom is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is based on data from an anatomical study designed to determine the maximum exposure in at least 90 % of all users. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot

Shell Thickness: 2.0 mm  $\pm$  0.1 mm

Filling Volume: Approx. 25 liters



SAM Phantom

## DEVICE HOLDER

### Construction

Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (a.q., laptops, Cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioned.



Device Holder

## 1.12 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within  $\pm 10$  % from the target SAR values. These tests were done at 835 MHz and 1900 MHz. The tests for EUT were conducted within 24 hours after each validation. The obtained results from the system accuracy verification are displayed in the table 1. During the tests, the ambient temperature of the laboratory was in the range  $(22 \pm 2)^\circ\text{C}$ , the relative humidity was in the range  $(55 \pm 5) \%$  R.H. and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

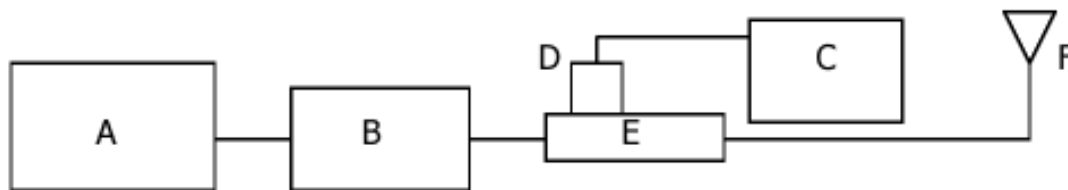


Fig b. The microwave circuit arrangement used for SAR system verification

- A. Agilent Model E4421B Signal Generator
- B. EMPOWER Model (2001-BBS3Q7ECK), (2057-BBS3Q5KCK) Amplifier
- C. Agilent Model E4419B Power Meter
- D. Agilent Model 9300H Power Sensor
- E. Agilent Model 778D/86205A Dual directional coupler
- F. Reference dipole Antenna



Photo of the dipole Antenna

## System Validation Results

| Validation Kit         | Tissue           | Target SAR 1 g from Calibration Certificate (1 W) | Measured SAR 1 g (0.1 W) | Measured SAR 1 g (1 W) | Deviation (%) | Date       | Liquid Temp. (°C) |
|------------------------|------------------|---------------------------------------------------|--------------------------|------------------------|---------------|------------|-------------------|
| D835V2<br>S/N: 490     | 835 MHz<br>Body  | 9.35 W/kg                                         | 0.986 W/kg               | <b>9.86 W/kg</b>       | 5.45          | 2012-10-31 | 22.2              |
|                        |                  |                                                   | 0.991 W/kg               | <b>9.91 W/kg</b>       | 5.99          | 2012-11-01 | 22.3              |
|                        |                  |                                                   | 0.963 W/kg               | <b>9.63 W/kg</b>       | 2.99          | 2012-11-03 | 22.5              |
| D1900V2<br>S/N: 5d033  | 1900 MHz<br>Body | 39.9 W/kg                                         | 4.06 W/kg                | <b>40.6 W/kg</b>       | 1.75          | 2012-10-27 | 22.6              |
|                        |                  |                                                   | 4.00 W/kg                | <b>40.0 W/kg</b>       | 0.25          | 2012-10-29 | 22.1              |
|                        |                  |                                                   | 4.09 W/kg                | <b>40.9 W/kg</b>       | 2.51          | 2012-11-02 | 22.5              |
| D2450V2<br>S/N: 734    | 2450 MHz<br>Body | 50.2 W/kg                                         | 5.17 W/kg                | <b>51.7 W/kg</b>       | 2.99          | 2013-01-17 | 22.7              |
| D5 GHz V2<br>S/N: 1130 | 5500 MHz<br>Body | 78.7 W/kg                                         | 8.36 W/kg                | <b>83.6 W/kg</b>       | 6.23          | 2013-01-23 | 22.7              |
|                        | 5800 MHz<br>Body | 74.7 W/kg                                         | 7.79 W/kg                | <b>77.9 W/kg</b>       | 4.28          | 2013-01-23 | 22.7              |

Table 1. Results system verification

### 1.13 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this simulant fluid were measured by using the Agilent Model 85070B Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Agilent E5071B Network Analyzer (300 kHz - 6 GHz ) by using a procedure detailed in Section V.

| f (MHz) | Tissue type  | Limits / Measured    | Dielectric Parameters |              |                           |
|---------|--------------|----------------------|-----------------------|--------------|---------------------------|
|         |              |                      | Permittivity          | Conductivity | Simulated Tissue Temp(°C) |
| 835     | Body         | Measured, 2012-10-31 | 56.0                  | 0.97         | 22.2                      |
|         |              | Recommended Limits   | 55.2                  | 0.97         | 21.0 ~ 23.0               |
|         |              | Deviation(%)         | 1.45                  | 0.00         | -                         |
| 824     |              | Measured, 2012-10-31 | 56.1                  | 0.95         | 22.2                      |
|         |              | Deviation(%)         | 1.63                  | -2.06        | -                         |
| 848     |              | Measured, 2012-10-31 | 55.9                  | 0.98         | 22.2                      |
|         | Deviation(%) | 1.27                 | 1.03                  | -            |                           |
| 835     | Body         | Measured, 2012-11-01 | 56.7                  | 0.94         | 22.3                      |
|         |              | Recommended Limits   | 55.2                  | 0.97         | 21.0 ~ 23.0               |
|         |              | Deviation(%)         | 2.72                  | -3.09        | -                         |
| 824     |              | Measured, 2012-11-01 | 56.8                  | 0.93         | 22.3                      |
|         |              | Deviation(%)         | 2.90                  | -4.12        | -                         |
| 848     |              | Measured, 2012-11-01 | 56.6                  | 0.95         | 22.3                      |
|         | Deviation(%) | 2.54                 | -2.06                 | -            |                           |
| 835     | Body         | Measured, 2012-11-03 | 55.04                 | 0.98         | 22.5                      |
|         |              | Recommended Limits   | 55.2                  | 0.97         | 21.0 ~ 23.0               |
|         |              | Deviation(%)         | -0.29                 | 1.03         | -                         |
| 824     |              | Measured, 2012-11-03 | 55.1                  | 0.97         | 22.5                      |
|         |              | Deviation(%)         | -0.18                 | 0.00         | -                         |
| 848     |              | Measured, 2012-11-03 | 54.9                  | 0.99         | 22.5                      |
|         | Deviation(%) | -0.54                | 2.06                  | -            |                           |
| 1900    | Body         | Measured, 2012-10-27 | 53.9                  | 1.56         | 22.6                      |
|         |              | Recommended Limits   | 53.3                  | 1.52         | 21.0 ~ 23.0               |
|         |              | Deviation(%)         | 1.13                  | 2.63         | -                         |
| 1851    |              | Measured, 2012-10-27 | 54.1                  | 1.50         | 22.6                      |
|         |              | Deviation(%)         | 1.50                  | -1.32        | -                         |
| 1908    |              | Measured, 2012-10-27 | 53.9                  | 1.56         | 22.6                      |
|         | Deviation(%) | 1.13                 | 2.63                  | -            |                           |
| 1900    | Body         | Measured, 2012-10-29 | 54.1                  | 1.54         | 22.1                      |
|         |              | Recommended Limits   | 53.3                  | 1.52         | 21.0 ~ 23.0               |
|         |              | Deviation(%)         | 1.50                  | 1.32         | -                         |
| 1851    |              | Measured, 2012-10-29 | 54.4                  | 1.48         | 22.1                      |
|         |              | Deviation(%)         | 2.06                  | -2.63        | -                         |
| 1908    |              | Measured, 2012-10-29 | 54.1                  | 1.55         | 22.1                      |
|         | Deviation(%) | 1.50                 | 1.97                  | -            |                           |
| 1900    | Body         | Measured, 2012-11-02 | 52.3                  | 1.54         | 22.5                      |
|         |              | Recommended Limits   | 53.3                  | 1.52         | 21.0 ~ 23.0               |
|         |              | Deviation(%)         | -1.88                 | 1.32         | -                         |
| 1851    |              | Measured, 2012-11-02 | 52.5                  | 1.48         | 22.5                      |
|         |              | Deviation(%)         | -1.50                 | -2.63        | -                         |
| 1908    |              | Measured, 2012-11-02 | 52.2                  | 1.54         | 22.5                      |
|         | Deviation(%) | -2.06                | 1.32                  | -            |                           |

| f (MHz) | Tissue type                | Limits / Measured          | Dielectric Parameters      |                     |                          |             |
|---------|----------------------------|----------------------------|----------------------------|---------------------|--------------------------|-------------|
|         |                            |                            | Permittivity               | Conductivity        | Simulated Tissue Temp(℃) |             |
| 1900    | Body                       | Measured, 2013-01-22       | 52.02                      | 1.53                | 22.5                     |             |
|         |                            | Recommended Limits         | 53.3                       | 1.52                | 21.0 ~ 23.0              |             |
|         |                            | <b><u>Deviation(%)</u></b> | <b><u>-2.40</u></b>        | <b><u>0.66</u></b>  | -                        |             |
| 1851    |                            | Measured, 2013-01-22       | 52.20                      | 1.47                | 22.5                     |             |
|         |                            | <b><u>Deviation(%)</u></b> | <b><u>-2.06</u></b>        | <b><u>-3.29</u></b> | -                        |             |
| 1908    |                            | Measured, 2013-01-22       | 52.00                      | 1.54                | 22.5                     |             |
|         | <b><u>Deviation(%)</u></b> | -2.44                      | 1.32                       | -                   |                          |             |
| 2450    | Body                       | Measured, 2013-01-17       | 50.58                      | 2.00                | 22.7                     |             |
|         |                            | Recommended Limits         | 52.7                       | 1.95                | 21.0 ~ 23.0              |             |
|         |                            | <b><u>Deviation(%)</u></b> | <b><u>-4.023</u></b>       | <b><u>2.56</u></b>  | -                        |             |
| 2412    |                            | Measured, 2013-01-17       | 50.69                      | 1.94                | 22.7                     |             |
|         |                            | <b><u>Deviation(%)</u></b> | <b><u>-3.81</u></b>        | <b><u>-0.51</u></b> | -                        |             |
| 2462    |                            | Measured, 2013-01-17       | 50.55                      | 2.012               | 22.7                     |             |
|         | <b><u>Deviation(%)</u></b> | <b><u>-4.08</u></b>        | <b><u>3.18</u></b>         | -                   |                          |             |
| 5500    | Body                       | Measured, 2013-01-23       | 47.85                      | 5.61                | 22.7                     |             |
|         |                            | Recommended Limits         | 48.6                       | 5.65                | 21.0 ~ 23.0              |             |
|         |                            | <b><u>Deviation(%)</u></b> | <b><u>-1.54</u></b>        | <b><u>-0.71</u></b> | -                        |             |
| 5520    |                            | Measured, 2013-01-23       | 47.79                      | 5.63                | 22.7                     |             |
|         |                            | <b><u>Deviation(%)</u></b> | <b><u>-1.67</u></b>        | <b><u>-0.35</u></b> | -                        |             |
| 5580    |                            | Measured, 2013-01-23       | 47.72                      | 5.73                | 22.7                     |             |
|         |                            | Recommended Limits         | 48.5                       | 5.77                | 21.0 ~ 23.0              |             |
|         |                            | <b><u>Deviation(%)</u></b> | <b><u>-1.61</u></b>        | <b><u>-0.69</u></b> | -                        |             |
| 5660    |                            | Measured, 2013-01-23       | 47.55                      | 5.82                | 22.7                     |             |
|         |                            | Recommended Limits         | 48.3                       | 5.88                | 21.0 ~ 23.0              |             |
|         |                            | <b><u>Deviation(%)</u></b> | <b><u>-1.55</u></b>        | <b><u>-1.02</u></b> | -                        |             |
| 5680    |                            | Measured, 2013-01-23       | 47.53                      | 5.85                | 22.7                     |             |
|         |                            | <b><u>Deviation(%)</u></b> | <b><u>-1.59</u></b>        | <b><u>-0.51</u></b> | -                        |             |
| 5700    |                            | Measured, 2013-01-23       | 47.52                      | 5.87                | 22.7                     |             |
|         |                            | <b><u>Deviation(%)</u></b> | <b><u>-1.61</u></b>        | <b><u>-0.17</u></b> | -                        |             |
| 5800    |                            | Body                       | Measured, 2013-01-23       | 47.42               | 6.04                     | 22.7        |
|         |                            |                            | Recommended Limits         | 48.2                | 6.00                     | 21.0 ~ 23.0 |
|         |                            |                            | <b><u>Deviation(%)</u></b> | <b><u>-1.62</u></b> | <b><u>0.67</u></b>       | -           |
| 5745    | Measured, 2013-01-23       |                            | 47.46                      | 5.95                | 22.7                     |             |
|         | <b><u>Deviation(%)</u></b> |                            | <b><u>-1.54</u></b>        | <b><u>-0.83</u></b> | -                        |             |
| 5825    | Measured, 2013-01-23       |                            | 47.39                      | 6.06                | 22.7                     |             |
|         | <b><u>Deviation(%)</u></b> | <b><u>-1.68</u></b>        | <b><u>1.00</u></b>         | -                   |                          |             |

### The composition of the tissue simulating liquid

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

| Ingredients<br>(% by weight)      | Frequency (MHz) |       |       |      |       |       |       |      |      |      |
|-----------------------------------|-----------------|-------|-------|------|-------|-------|-------|------|------|------|
|                                   | 450             |       | 835   |      | 915   |       | 1900  |      | 2450 |      |
| Tissue Type                       | Head            | Body  | Head  | Body | Head  | Body  | Head  | Body | Head | Body |
| Water                             | 38.56           | 51.16 | 41.45 | 52.4 | 41.05 | 56.0  | 54.9  | 40.4 | 62.7 | 73.2 |
| Salt (NaCl)                       | 3.95            | 1.49  | 1.45  | 1.4  | 1.35  | 0.76  | 0.18  | 0.5  | 0.5  | 0.04 |
| Sugar                             | 56.32           | 46.78 | 56.0  | 45.0 | 56.5  | 41.76 | 0.0   | 58.0 | 0.0  | 0.0  |
| HEC                               | 0.98            | 0.52  | 1.0   | 1.0  | 1.0   | 1.21  | 0.0   | 1.0  | 0.0  | 0.0  |
| Bactericide                       | 0.19            | 0.05  | 0.1   | 0.1  | 0.1   | 0.27  | 0.0   | 0.1  | 0.0  | 0.0  |
| Triton X-100                      | 0.0             | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 36.8 | 0.0  |
| DGBE                              | 0.0             | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 44.92 | 0.0  | 0.0  | 26.7 |
| Diethylenglycol<br>monohexylether | 0.0             | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |

### Simulating Liquids for 5 GHz, Manufactured by SPEAG

| Water | Mineral oil | Emulsifiers | Additives and Salt |
|-------|-------------|-------------|--------------------|
| 78    | 11          | 9           | 2                  |

Salt: 99 +% Pure Sodium Chloride

Sugar: 98 +% Pure Sucrose

Water: De-ionized, 16 MΩ<sup>+</sup> resistivity

HEC: Hydroxyethyl Cellulose

DGBE: 99 +% Di(ethylene glycol) butyl ether, [2-(2-butoxyethoxy)ethanol]

Triton X-100 (ultra pure): Polyethylene glycol mono [4-(1,1, 3, 3-tetramethylbutyl)phenyl]ether

## 1.14 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (“SAR”) in Section 4.2 of “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” ANSI/IEEE C95.3–2003, Copyright 2003 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in “Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields,” NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be

evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

(1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube). Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

(2) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.(Table .1)

| Human Exposure                                      | Uncontrolled Environment<br>General Population | Controlled Environment<br>Occupational |
|-----------------------------------------------------|------------------------------------------------|----------------------------------------|
| <b>Partial Peak SAR</b><br>(Partial)                | 1.60 m W/g                                     | 8.00 m W/g                             |
| <b>Partial Average SAR</b><br>(Whole Body)          | 0.08 m W/g                                     | 0.40 m W/g                             |
| <b>Partial Peak SAR</b><br>(Hands/Feet/Ankle/Wrist) | 4.00 m W/g                                     | 20.00 m W/g                            |

Table .1 RF exposure limits

## 2. Instruments List

| Maunfacturer                   | Device                                         | Type             | Serial Number | Due date of Calibration |
|--------------------------------|------------------------------------------------|------------------|---------------|-------------------------|
| Stäubli                        | Robot                                          | RX90BL           | F12/5LP8A1/01 | N/A                     |
| Schmid& Partner Engineering AG | Dosimetric E-Field Probe                       | EX3DV4           | 3862          | July 19, 2013           |
| Schmid& Partner Engineering AG | Dosimetric E-Field Probe                       | ET3DV6           | 1623          | May 05, 2013            |
| Schmid& Partner Engineering AG | Data acquisition Electronics                   | DAE4             | 1340          | July 10, 2013           |
| Schmid& Partner Engineering AG | 835 Mhz System Validation Dipole               | D835V2           | 490           | May 16, 2015            |
| Schmid& Partner Engineering AG | 1900 Mhz System Validation Dipole              | D1900V2          | 5d033         | May 23, 2015            |
| Schmid& Partner Engineering AG | 2450 Mhz System Validation Dipole              | D2450V2          | 734           | May 17, 2015            |
| Schmid& Partner Engineering AG | 5000 Mhz System Validation Dipole              | D5 GHz V2        | 1130          | July 02, 2015           |
| Schmid& Partner Engineering AG | Software                                       | DASY52 V52.8.02  | -             | N/A                     |
| Schmid& Partner Engineering AG | Phantom                                        | SAM Phantom V5.0 | TP-1720       | N/A                     |
| Schmid& Partner Engineering AG | Phantom                                        | SAM Phantom V5.0 | TP-1721       | N/A                     |
| Agilent                        | Network Analyzer                               | E5071C           | MY46111535    | July 3, 2013            |
| Agilent                        | Dielectric Probe Kit                           | 85070D           | 2184          | N/A                     |
| Agilent                        | Power Meter                                    | E4419B           | GB43311125    | July 01, 2013           |
| Agilent                        | Power Sensor                                   | E9300H           | MY41495314    | September 18, 2013      |
|                                |                                                |                  | MY41495307    | September 18, 2013      |
| Agilent                        | Signal Generator                               | E4421B           | MY42082477    | March 29, 2013          |
| Empower RF Systems             | Power Amplifier                                | 2001-BBS3Q7ECK   | 1032 D/C 0336 | March 31, 2013          |
| Empower RF Systems             | Power Amplifier                                | BBS5K8CAJ        | 1010          | September 17, 2013      |
| Agilent                        | Directional RF Bridges                         | 86205A           | MY31402302    | July 03, 2013           |
| Microlab                       | LP Filter                                      | LA-15N           | N/A           | September 14, 2013      |
| Microlab                       | LP Filter                                      | LA-30N           | N/A           | September 14, 2013      |
| Microlab                       | LP Filter                                      | LA-60N           | N/A           | September 14, 2013      |
| Agilent                        | Attenuator                                     | 8491B            | 50566         | September 14, 2013      |
| R & S                          | Spectrum Analyzer                              | FSV30            | 100768        | March 29, 2013          |
| R & S                          | Mobile Test Unit                               | CMU 200          | 107279        | January 03, 2013        |
| Agilent                        | 8960 Series10 Wireless Communications Test SEL | 5155C            | GB43345198    | March 29, 2013          |

## 3.Summary of Results

### 3.1 FCC Power Measurement Procedures

Power measurements were performed using a power meter under digital average mode.

In order to verify that the device was tested and maintained at full power, this was configured with the base station simulator. The SAR measurement Software calculates a reference point at the start and end of the test to check for power drifts. If conducted power deviations of more than 5 % occurred, the tests were repeated.

### 3.2 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v05, When SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as reported SAR. Test highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r02.

### 3.3 RF Conducted Average Power

#### GSM (Full Power)

| GSM           | Channel | Frequency(MHz) | Conducted Average Power(dB m) |           |           |           |
|---------------|---------|----------------|-------------------------------|-----------|-----------|-----------|
|               |         |                | GPRS Data                     |           | EDGE Data |           |
|               |         |                | 1 Tx Slot                     | 2 Tx Slot | 1 Tx Slot | 2 Tx Slot |
| GSM 850 Band  | 128     | 824.2          | 32.18                         | 29.75     | 26.83     | 24.45     |
|               | 190     | 836.6          | 32.11                         | 29.75     | 26.76     | 24.38     |
|               | 251     | 848.8          | 32.22                         | 29.86     | 26.88     | 24.51     |
| PCS 1900 Band | 512     | 1850.2         | 29.10                         | 26.54     | 25.53     | 23.08     |
|               | 661     | 1880.0         | 29.12                         | 26.56     | 25.51     | 23.04     |
|               | 810     | 1909.8         | 29.07                         | 26.52     | 25.44     | 22.97     |

#### GSM (Power Reduction Enabled)

| GSM           | Channel | Frequency(MHz) | Conducted Average Power(dB m) |           |           |           |
|---------------|---------|----------------|-------------------------------|-----------|-----------|-----------|
|               |         |                | GPRS Data                     |           | EDGE Data |           |
|               |         |                | 1 Tx Slot                     | 2 Tx Slot | 1 Tx Slot | 2 Tx Slot |
| GSM 850 Band  | 128     | 824.2          | 23.20                         | 23.30     | 23.96     | 23.96     |
|               | 190     | 836.6          | 23.33                         | 23.36     | 23.95     | 23.95     |
|               | 251     | 848.8          | 23.41                         | 23.43     | 24.00     | 24.00     |
| PCS 1900 Band | 512     | 1850.2         | 21.10                         | 21.12     | 21.44     | 21.41     |
|               | 661     | 1880.0         | 21.12                         | 21.12     | 21.37     | 21.35     |
|               | 810     | 1909.8         | 21.04                         | 21.04     | 21.22     | 21.23     |

## WCDMA II

| Band                    | Mode       | Channel   | Frequency (MHz) | Conducted Power (dBm)                 | Proximity sensor power back-off (dBm) |
|-------------------------|------------|-----------|-----------------|---------------------------------------|---------------------------------------|
| WCDMA II (RMC)          | RMC        | 9262      | 1852.4          | 23.35                                 | 16.41                                 |
|                         | RMC        | 9400      | 1880.0          | 23.12                                 | 16.38                                 |
|                         | RMC        | 9538      | 1907.6          | 23.11                                 | 16.21                                 |
| WCDMA II (HSDPA Active) | Sub-test 1 | 9262      | 1852.4          | 23.27                                 | 16.35                                 |
|                         |            | 9400      | 1880.0          | 23.06                                 | 16.27                                 |
|                         |            | 9538      | 1907.6          | 23.09                                 | 16.12                                 |
|                         | Sub-test 2 | 9262      | 1852.4          | 22.28                                 | 16.35                                 |
|                         |            | 9400      | 1880.0          | 22.08                                 | 16.13                                 |
|                         |            | 9538      | 1907.6          | 22.12                                 | 16.19                                 |
|                         | Sub-test 3 | 9262      | 1852.4          | 21.87                                 | 16.37                                 |
|                         |            | 9400      | 1880.0          | 21.60                                 | 16.30                                 |
|                         |            | 9538      | 1907.6          | 21.67                                 | 16.30                                 |
|                         | Sub-test 4 | 9262      | 1852.4          | 21.67                                 | 16.35                                 |
|                         |            | 9400      | 1880.0          | 21.42                                 | 16.12                                 |
|                         |            | 9538      | 1907.6          | 21.43                                 | 16.31                                 |
|                         |            | $\beta_c$ | $\beta_d$       | $\Delta ACK, \Delta NACK, \Delta CQI$ | AGV                                   |
|                         | Sub-test 1 | 2         | 15              | 8                                     | -                                     |
|                         | Sub-test 2 | 12        | 15              | 8                                     | -                                     |
|                         | Sub-test 3 | 15        | 8               | 8                                     | -                                     |
|                         | Sub-test 4 | 15        | 4               | 8                                     | -                                     |
| WCDMA II (HSUPA)        | Sub-test 1 | 9662      | 1852.4          | 21.92                                 | 15.87                                 |
|                         |            | 9800      | 1880.0          | 21.85                                 | 15.85                                 |
|                         |            | 9938      | 1907.6          | 21.69                                 | 15.64                                 |
|                         | Sub-test 2 | 9662      | 1852.4          | 19.95                                 | 16.40                                 |
|                         |            | 9800      | 1880.0          | 19.74                                 | 16.21                                 |
|                         |            | 9938      | 1907.6          | 19.54                                 | 16.03                                 |
|                         | Sub-test 3 | 9662      | 1852.4          | 20.87                                 | 15.64                                 |
|                         |            | 9800      | 1880.0          | 20.82                                 | 15.56                                 |
|                         |            | 9938      | 1907.6          | 20.84                                 | 15.66                                 |
|                         | Sub-test 4 | 9662      | 1852.4          | 20.61                                 | 16.13                                 |
|                         |            | 9800      | 1880.0          | 20.51                                 | 16.02                                 |
|                         |            | 9938      | 1907.6          | 20.47                                 | 16.11                                 |
|                         | Sub-test 5 | 9662      | 1852.4          | 21.80                                 | 14.80                                 |
|                         |            | 9800      | 1880.0          | 21.88                                 | 14.88                                 |
|                         |            | 9938      | 1907.6          | 21.92                                 | 14.96                                 |
|                         |            | $\beta_c$ | $\beta_d$       | $\Delta ACK, \Delta NACK, \Delta CQI$ | AGV                                   |
|                         | Sub-test 1 | 11        | 15              | 8                                     | 20                                    |
|                         | Sub-test 2 | 6         | 15              | 8                                     | 12                                    |
|                         | Sub-test 3 | 15        | 9               | 8                                     | 15                                    |
|                         | Sub-test 4 | 2         | 15              | 8                                     | 17                                    |
|                         | Sub-test 5 | 15        | 15              | 8                                     | 21                                    |

# WCDMA V

| Band                   | Mode       | Channel   | Frequency (MHz) | Conducted Power (dBm)                          |           |
|------------------------|------------|-----------|-----------------|------------------------------------------------|-----------|
| WCDMA V (RMC)          | RMC        | 4132      | 826.4           | 23.34                                          |           |
|                        | RMC        | 4183      | 836.6           | 23.26                                          |           |
|                        | RMC        | 4233      | 846.6           | 23.31                                          |           |
| WCDMA V (HSDPA Active) | Sub-test 1 | 4132      | 826.4           | 23.19                                          |           |
|                        |            | 4183      | 836.6           | 23.12                                          |           |
|                        |            | 4233      | 846.6           | 23.04                                          |           |
|                        | Sub-test 2 | 4132      | 826.4           | 22.63                                          |           |
|                        |            | 4183      | 836.6           | 22.60                                          |           |
|                        |            | 4233      | 846.6           | 22.55                                          |           |
|                        | Sub-test 3 | 4132      | 826.4           | 22.15                                          |           |
|                        |            | 4183      | 836.6           | 22.14                                          |           |
|                        |            | 4233      | 846.6           | 22.09                                          |           |
|                        | Sub-test 4 | 4132      | 826.4           | 21.97                                          |           |
|                        |            | 4183      | 836.6           | 21.91                                          |           |
|                        |            | 4233      | 846.6           | 21.80                                          |           |
|                        |            | $\beta_c$ | $\beta_d$       | $\triangle ACK, \triangle NACK, \triangle CQI$ | $\beta_c$ |
|                        | Sub-test 1 | 2         | 15              | 8                                              | 2         |
|                        | Sub-test 2 | 12        | 15              | 8                                              | 12        |
| Sub-test 3             | 15         | 8         | 8               | 15                                             |           |
| Sub-test 4             | 15         | 4         | 8               | 15                                             |           |
| WCDMA V (HSUPA)        | Sub-test 1 | 4132      | 826.4           | 21.92                                          |           |
|                        |            | 4183      | 836.6           | 21.79                                          |           |
|                        |            | 4233      | 846.6           | 21.34                                          |           |
|                        | Sub-test 2 | 4132      | 826.4           | 20.35                                          |           |
|                        |            | 4183      | 836.6           | 20.14                                          |           |
|                        |            | 4233      | 846.6           | 20.30                                          |           |
|                        | Sub-test 3 | 4132      | 826.4           | 20.72                                          |           |
|                        |            | 4183      | 836.6           | 20.55                                          |           |
|                        |            | 4233      | 846.6           | 20.68                                          |           |
|                        | Sub-test 4 | 4132      | 826.4           | 20.55                                          |           |
|                        |            | 4183      | 836.6           | 20.36                                          |           |
|                        |            | 4233      | 846.6           | 20.48                                          |           |
|                        | Sub-test 5 | 4132      | 826.4           | 21.47                                          |           |
|                        |            | 4183      | 836.6           | 21.32                                          |           |
|                        |            | 4233      | 846.6           | 21.41                                          |           |
|                        |            | $\beta_c$ | $\beta_d$       | $\triangle ACK, \triangle NACK, \triangle CQI$ | $\beta_c$ |
|                        | Sub-test 1 | 11        | 15              | 8                                              | 11        |
|                        | Sub-test 2 | 6         | 15              | 8                                              | 6         |
|                        | Sub-test 3 | 15        | 9               | 8                                              | 15        |
|                        | Sub-test 4 | 2         | 15              | 8                                              | 2         |
|                        | Sub-test 5 | 15        | 15              | 8                                              | 15        |

## Note :

The modes with highest output power channel were chosen for the conducted output power measurement.

Please refer to original report (FCC ID: QISMU733) for Average Power information as documented in 07/29/2010 original filing.

### Bluetooth

| Channel | Frequency (MHz) | GFSK (dB m) |
|---------|-----------------|-------------|
| Low     | 2402            | 2.18        |
| Middle  | 2441            | 2.65        |
| High    | 2480            | 1.58        |

### WLAN 2.4 GHz

| Mode       | Freq. (MHz) | Ch. # | Rate | Measured Power [dB m] |
|------------|-------------|-------|------|-----------------------|
| 802.11b    | 2412        | 1     | 1    | 11.7                  |
|            | 2437        | 6     | 1    | 11.7                  |
|            | 2462        | 11    | 1    | 11.6                  |
| 802.11g    | 2412        | 1     | 6    | 8.5                   |
|            | 2437        | 6     | 6    | 8.7                   |
|            | 2462        | 11    | 6    | 8.5                   |
| 802.11n_20 | 2412        | 1     | MCS0 | 6.7                   |
|            | 2437        | 6     | MCS0 | 6.8                   |
|            | 2462        | 11    | MCS0 | 6.7                   |

### 5.2 GHz, 5.3 GHz

| Mode       | Freq. (MHz) | Ch. # | Rate | Measured Power [dB m] |
|------------|-------------|-------|------|-----------------------|
| 802.11a    | 5180        | 36    | 6    | 7.3                   |
|            | 5200        | 40    | 6    | 7.2                   |
|            | 5220        | 44    | 6    | 7.3                   |
|            | 5240        | 48    | 6    | 7.2                   |
|            | 5260        | 52    | 6    | 7.5                   |
|            | 5280        | 56    | 6    | 7.5                   |
|            | 5300        | 60    | 6    | 7.5                   |
|            | 5320        | 64    | 6    | 7.4                   |
| 802.11n_20 | 5180        | 36    | MCS0 | 7.0                   |
|            | 5200        | 40    | MCS0 | 7.0                   |
|            | 5220        | 44    | MCS0 | 7.1                   |
|            | 5240        | 48    | MCS0 | 7.2                   |
|            | 5260        | 52    | MCS0 | 7.2                   |
|            | 5280        | 56    | MCS0 | 7.2                   |
|            | 5300        | 60    | MCS0 | 7.4                   |
|            | 5320        | 64    | MCS0 | 7.7                   |

5.5 GHz

| Mode       | Freq.<br>(MHz) | Ch. # | Rate | Measured Power<br>[dB m] |
|------------|----------------|-------|------|--------------------------|
| 802.11a    | 5500           | 100   | 6    | 7.6                      |
|            | 5520           | 104   | 6    | 7.5                      |
|            | 5540           | 108   | 6    | 7.7                      |
|            | 5560           | 112   | 6    | 7.9                      |
|            | 5580           | 116   | 6    | 7.9                      |
|            | 5600           | 120   | 6    | 8.7                      |
|            | 5620           | 124   | 6    | 8.7                      |
|            | 5640           | 128   | 6    | 8.6                      |
|            | 5660           | 132   | 6    | 8.6                      |
|            | 5680           | 136   | 6    | 8.7                      |
|            | 5700           | 140   | 6    | 8.8                      |
| 802.11n_20 | 5500           | 100   | MCS0 | 7.1                      |
|            | 5520           | 104   | MCS0 | 7.1                      |
|            | 5540           | 108   | MCS0 | 7.4                      |
|            | 5560           | 112   | MCS0 | 7.7                      |
|            | 5580           | 116   | MCS0 | 8.5                      |
|            | 5600           | 120   | MCS0 | 8.5                      |
|            | 5620           | 124   | MCS0 | 8.5                      |
|            | 5640           | 128   | MCS0 | 8.6                      |
|            | 5660           | 132   | MCS0 | 8.6                      |
|            | 5680           | 136   | MCS0 | 8.7                      |
|            | 5700           | 140   | MCS0 | 8.9                      |

### 5.8 GHz

| Mode       | Freq.<br>(MHz) | Ch. # | Rate | Measured Power<br>[dB m] |
|------------|----------------|-------|------|--------------------------|
| 802.11a    | 5745           | 149   | 6    | 9.2                      |
|            | 5765           | 153   | 6    | 9.2                      |
|            | 5785           | 157   | 6    | 9.4                      |
|            | 5805           | 161   | 6    | 9.4                      |
|            | 5825           | 165   | 6    | 9.4                      |
| 802.11n_20 | 5745           | 149   | MCS0 | 8.7                      |
|            | 5765           | 153   | MCS0 | 8.7                      |
|            | 5785           | 157   | MCS0 | 8.9                      |
|            | 5805           | 161   | MCS0 | 8.9                      |
|            | 5825           | 165   | MCS0 | 9.0                      |

### Note :

The modes with highest output power channel were chosen for the conducted output power measurement.

Please refer to original report (FCC ID: A3LXE500T1C) for Average Power information as documented in 10/11/2012 original filing.

### 3.4 Calculated ERP/EIRP Average Power Measurement

| Frequency<br>(MHz) | Output<br>Measured<br>Power<br>(W) | Antenna Gain<br>(dBi) | Calculated<br>EIRP<br>(W) | Calculated<br>ERP<br>(W) | Rule Part | Limit<br>(W) |
|--------------------|------------------------------------|-----------------------|---------------------------|--------------------------|-----------|--------------|
| 824.2 ~ 848.8      | 1.667                              | -3.20                 |                           | 0.486                    | 22        | 7.00         |
| 826.4 ~ 846.6      | 0.215                              | -3.20                 |                           | 0.063                    | 22        | 7.00         |
| 1850.2 ~ 1909.8    | 0.816                              | -1.82                 | 0.537                     |                          | 22        | 2.00         |
| 1852.4 ~ 1907.6    | 0.216                              | -1.82                 | 0.142                     |                          | 24        | 2.00         |
| 2412 ~ 2462        | 0.0148                             | 2.32                  | 0.025                     |                          | 15        | 1.00         |
| 5180 ~ 5240        | 0.0537                             | 3.43                  | 0.118                     |                          | 15        | 0.75         |
| 5260 ~ 5320        | 0.0562                             | 1.01                  | 0.071                     |                          | 15        | 0.25         |
| 5500 ~ 5700        | 0.0759                             | -1.55                 | 0.053                     |                          | 15        | 0.25         |
| 5745 ~ 5825        | 0.0871                             | -2.28                 | 0.052                     |                          | 15        | 1.00         |

### Note

1. Antenna Gain supplied by manufacturer.
2. The methods and procedures used were as detailed in KDB 412172 D01 Determining ERP and EIRP v01.

### 3.5 SAR Test Exclusions Applied

Per FCC KDB 616217 D04v01 the antennas embedded in tablets are typically  $\leq 5\text{mm}$  from the outer housing. When the dedicated host approach is applied, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR Exclusion Threshold in KDB 447498 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

Per FCC KDB 447498 D01v05, the SAR exclusion threshold for distances  $< 50\text{ mm}$  is defined by the following equation:

$$\frac{\text{Max Power of Channel (mW)}}{\text{Test Separation Distance (mm)}} * \sqrt{\text{Frequency (GHz)}} \leq 3.0$$

Per FCC KDB 447498 D01v05, At 100 MHz to 6 GHz and for test separation distances  $> 50\text{ mm}$ , the SAR test exclusion threshold is determined according to the following

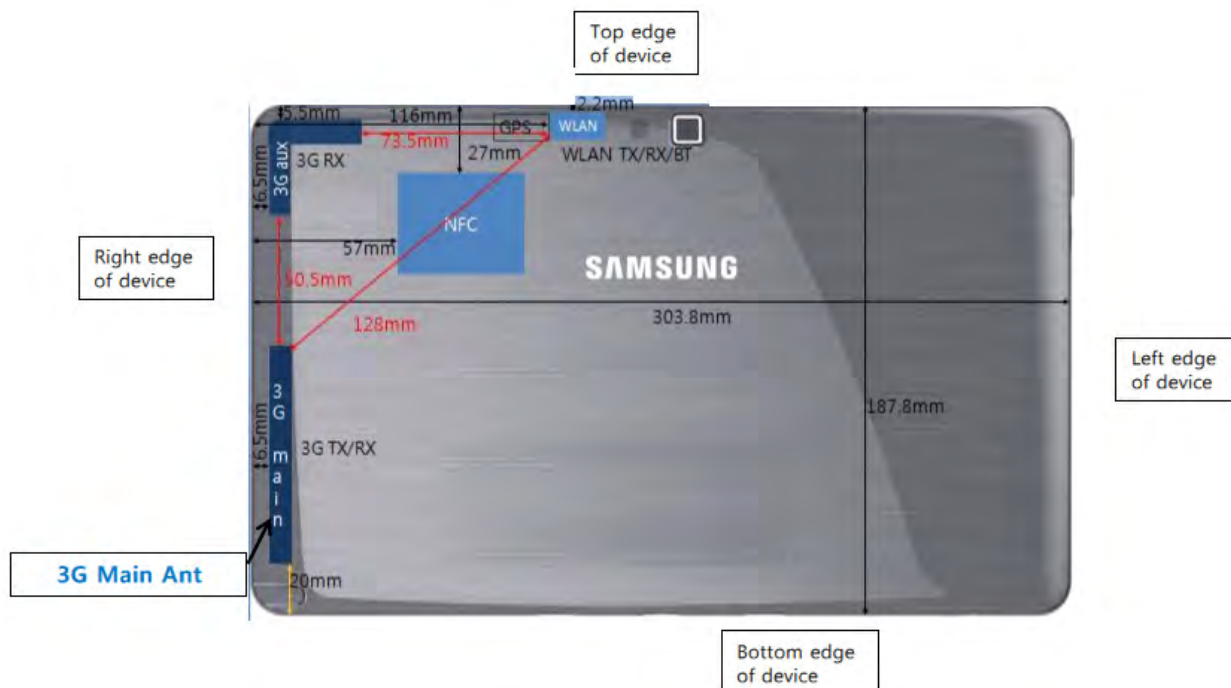
$$[(\text{Threshold at } 50\text{ mm in step 1}) + (\text{test separation distance} - 50\text{ mm}) * (f(\text{MHz})/150)] \text{ mW}$$

at 100 MHz to 1500 MHz

$$[(\text{Threshold at } 50\text{ mm in step 1}) + (\text{test separation distance} - 50\text{ mm}) * 10] \text{ mW}$$

at  $> 1500\text{ MHz}$  and  $\leq 6\text{ GHz}$

<The Distance information of Antenna to Edges of EUT>



< Per FCC KDB 447498 D01v05, the WWAN, WLAN and Bluetooth antenna are required to be test reduction>

| Antenna             | Tx    | Frequency<br>(MHz) | Output power <sup>Note 2, 4</sup> |     | Separation distances (mm) <sup>Note 1 and 4</sup> |       |      |     |        |       | SAR Exemption <sup>Note 3 and 4</sup> |                  |                  |                 |                  |       |
|---------------------|-------|--------------------|-----------------------------------|-----|---------------------------------------------------|-------|------|-----|--------|-------|---------------------------------------|------------------|------------------|-----------------|------------------|-------|
|                     |       |                    | dBm                               | mW  | Left                                              | Right | Rear | Top | Bottom | Front | Left                                  | Right            | Rear             | Top             | Bottom           | Front |
| WWAN Main Antenna   |       |                    |                                   |     |                                                   |       |      |     |        |       |                                       |                  |                  |                 |                  |       |
| 3G Main             | GSM   | 850                | 24.48                             | 281 | 286                                               | 5     | 5    | 90  | 20     |       | 1500mW<br>EXEMPT                      | 51.81<br>Measure | 51.81<br>Measure | 389mW<br>EXEMPT | 12.95<br>Measure | N/A   |
| 3G Main             | GSM   | 1900               | 20.98                             | 125 | 286                                               | 5     | 5    | 90  | 20     |       | 2469mW<br>EXEMPT                      | 34.46<br>Measure | 34.46<br>Measure | 509mW<br>EXEMPT | 8.62<br>Measure  | N/A   |
| 3G Main             | WCDMA | 850                | 24.00                             | 251 | 286                                               | 5     | 5    | 90  | 20     |       | 1500mW<br>EXEMPT                      | 46.28<br>Measure | 46.28<br>Measure | 389mW<br>EXEMPT | 11.57<br>Measure | N/A   |
| 3G Main             | WCDMA | 1900               | 24.00                             | 251 | 286                                               | 5     | 5    | 90  | 20     |       | 2469mW<br>EXEMPT                      | 69.20<br>Measure | 69.20<br>Measure | 509mW<br>EXEMPT | 17.30<br>Measure | N/A   |
| WiFi - Main Antenna |       |                    |                                   |     |                                                   |       |      |     |        |       |                                       |                  |                  |                 |                  |       |
| WLAN Main           | Wifi  | 2437               | 11.70                             | 15  | 164                                               | 116   | 5    | 5   | 176    |       | 1236mW<br>EXEMPT                      | 756mW<br>EXEMPT  | 4.68<br>Measure  | 4.68<br>Measure | 1356mW<br>EXEMPT | N/A   |
| WLAN Main           | WiFi  | 5220               | 7.30                              | 5   | 164                                               | 116   | 5    | 5   | 176    |       | 1206mW<br>EXEMPT                      | 726mW<br>EXEMPT  | 2.28<br>EXEMPT   | 2.28<br>EXEMPT  | 1326mW<br>EXEMPT | N/A   |
| WLAN Main           | WiFi  | 5300               | 7.50                              | 6   | 164                                               | 116   | 5    | 5   | 176    |       | 1205mW<br>EXEMPT                      | 725mW<br>EXEMPT  | 2.76<br>EXEMPT   | 2.76<br>EXEMPT  | 1325mW<br>EXEMPT | N/A   |
| WLAN Main           | Wifi  | 5700               | 8.80                              | 8   | 164                                               | 116   | 5    | 5   | 176    |       | 1203mW<br>EXEMPT                      | 723mW<br>EXEMPT  | 3.82<br>Measure  | 3.82<br>Measure | 1323mW<br>EXEMPT | N/A   |
| WLAN Main           | WiFi  | 5875               | 9.40                              | 9   | 164                                               | 116   | 5    | 5   | 176    |       | 1202mW<br>EXEMPT                      | 722mW<br>EXEMPT  | 4.36<br>Measure  | 4.36<br>Measure | 1322mW<br>EXEMPT | N/A   |
| Bluetooth - Antenna |       |                    |                                   |     |                                                   |       |      |     |        |       |                                       |                  |                  |                 |                  |       |
| Bluetooth           | B.T   | 2441               | 5.30                              | 3   | 164                                               | 116   | 5    | 5   | 176    |       | 1236mW<br>EXEMPT                      | 756mW<br>EXEMPT  | 0.94<br>EXEMPT   | 0.94<br>EXEMPT  | 1356mW<br>EXEMPT | N/A   |

#### Notes

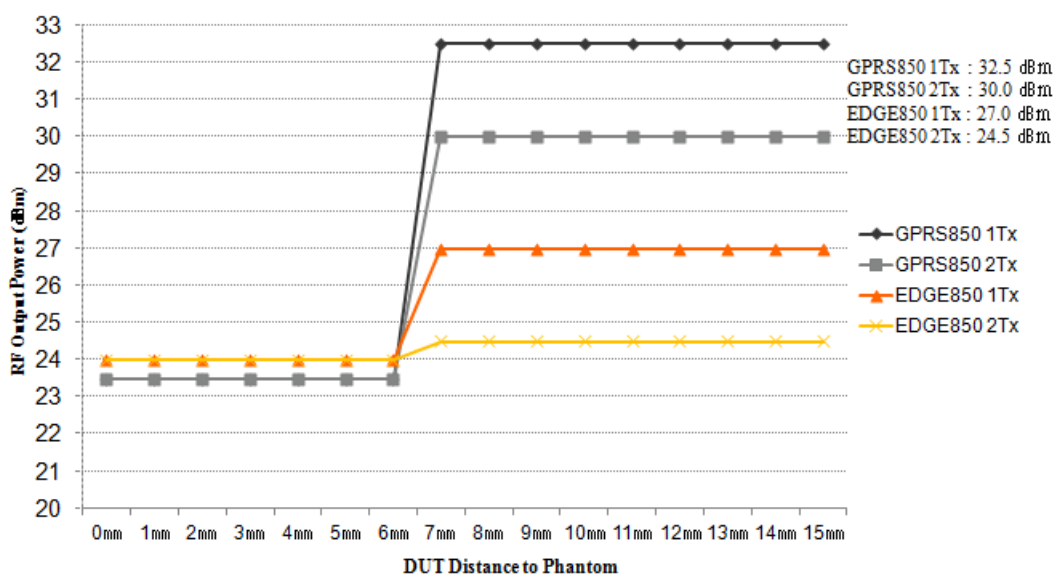
1. For distances < 5mm, a distance of 5mm is used to determine SAR exclusion and estimated SAR value.
2. Output power is the maximum rated power (including tune-up or manufacturing tolerances) and includes source-based averaging.
3. If the antenna separation distance is > 50mm then the value listed is the output power threshold, above which SAR measurement is required. For separation ≤ 50mm the value is the KDB 447498 calculated value and must be less than 3 for SAR exemption.
4. Formulas round separation distance to nearest mm and power to nearest mW before calculating thresholds or exemption values.

## 3.6 Power Sensor Activation detail Supply by manufacturer

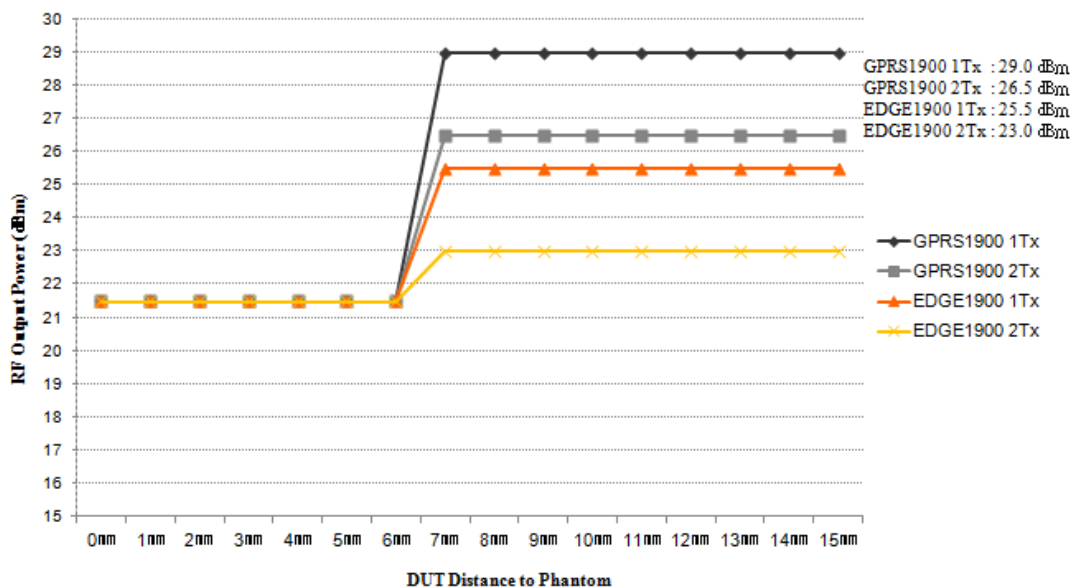
This tablet PC can be used for four display orientations. It is designed with a proximity sensor which can trigger/no trigger power reduction for WCDMA band II and GSM on EUT rear and right edge orientations. The other RF capabilities (WCDMA Band V / WLAN / BT) have no power reduction. The power vs distance plots for EUT rear and right Edge are shown as below.



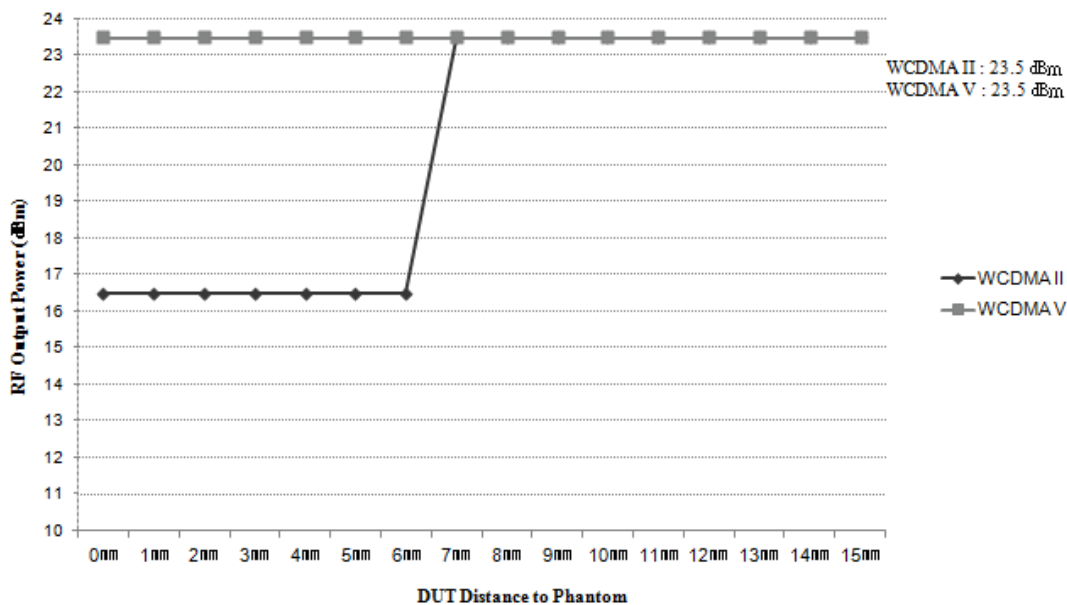
Back off Sensor Power Reduction (Rear Side)



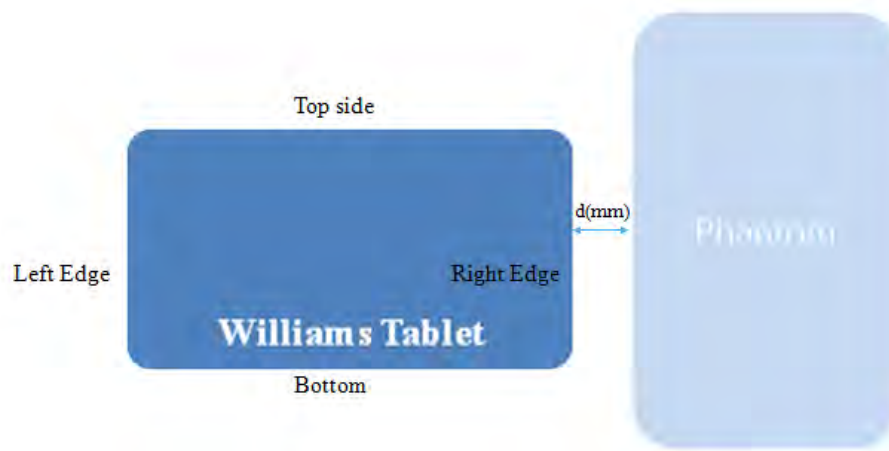
Back off Sensor Power Reduction (GSM850 Rear Side)



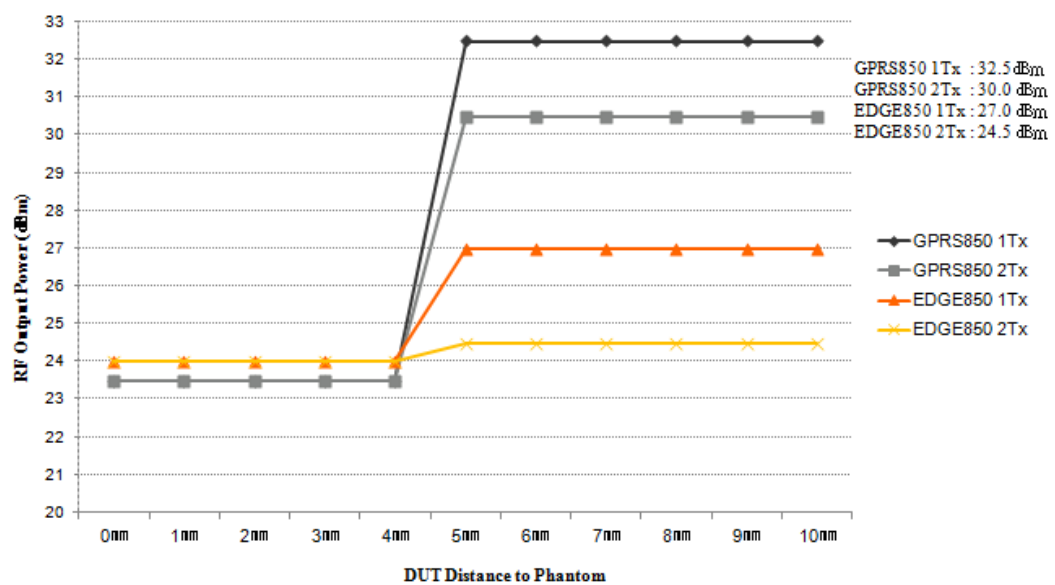
Back off Sensor Power Reduction (1900 Rear Side)



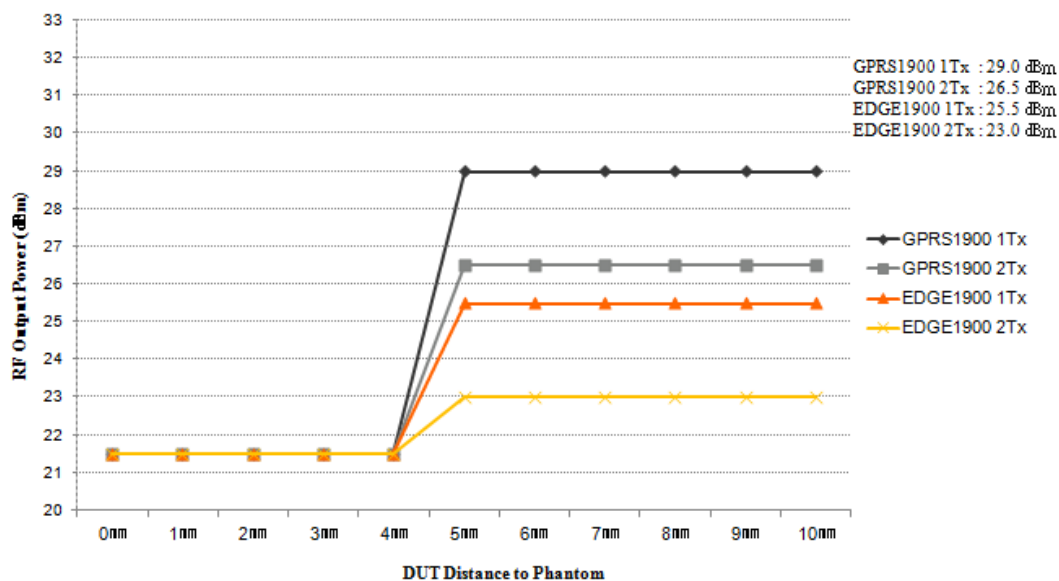
Back off Sensor Power Reduction (WCDMA Rear Side)



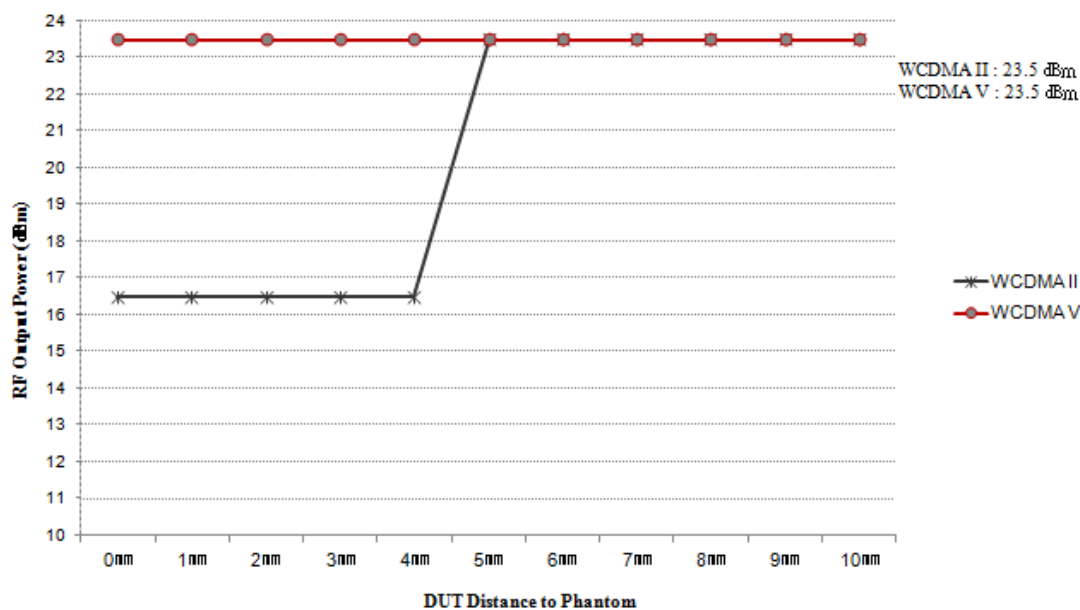
Back off Sensor Power Reduction (Right Edge Side)



Back off Sensor Power Reduction (GSM850 Right edge Side)



Back off Sensor Power Reduction (GSM1900 Right edge Side)



Back off Sensor Power Reduction (WCDMA Right edge Side)

Based on the separation distance for the sensor power back off / no power back off, we test SAR with power reduction at 0 mm, and test SAR without power reduction at 7 mm for EUT rear and at 5 mm for EUT Right edge.

### 3.7 Additional SAR Testing for the Top contour and Right Edge contour

Since the sensing coverage does on cover the right / left edge contour and the power will resume to normal full power while this tablet is tilted to certain angle, we tilt the tablet and test SAR on the angle with the sensor no power back off.

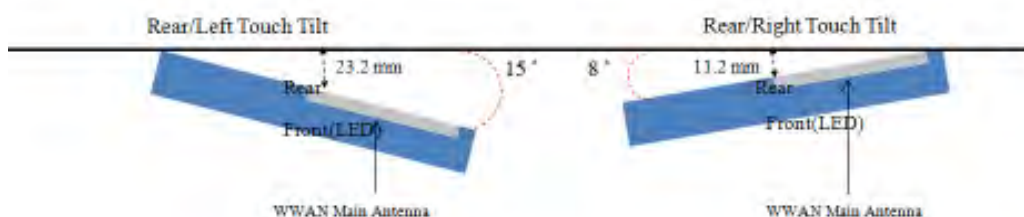
When the rear of EUT is close to user, the angle of proximity sensor power back off / no power back off at the corner of EUT rear of left touch tilt and right touch tilt is listed as below. Based on the angle, we test SAR without power reduction at 8° for rear / right touch tilt corner and 15° rear / left touch tilt corner.

#### Angle of Rear/Touch Tilt

| Angle of Rear/Right Touch Tilt | 0° ~ 7°  | 8°          | 9°          | 10°         |
|--------------------------------|----------|-------------|-------------|-------------|
| Proximity Sensor               | Back off | No Back off | No Back off | No Back off |

| Angle of Rear/Left Touch Tilt | 0° ~ 14° | 15°         | 16°         | 17°         |
|-------------------------------|----------|-------------|-------------|-------------|
| Proximity Sensor              | Back off | No Back off | No Back off | No Back off |



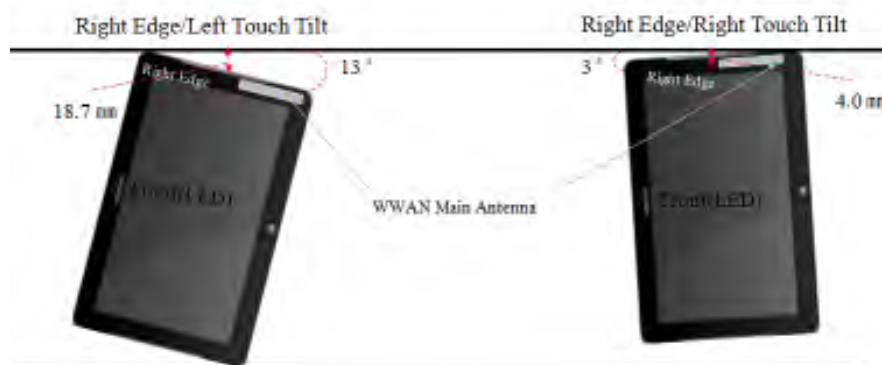
When the right edge of primary portrait is close to user, the angle of proximity sensor triggered / no triggered at the corner of right touch tilt and left touch tilt is listed as below. Based on the angle, we test SAR without power reduction at 3° for right edge / right touch tilt corner and 13° for right edge / left touch tilt corner.

#### Angle of Right Edge/Touch Tilt

| Angle of Right Edge/Right Touch Tilt | 0° ~ 2°  | 3°          | 4°          | 5°          |
|--------------------------------------|----------|-------------|-------------|-------------|
| Proximity Sensor                     | Back off | No Back off | No Back off | No Back off |

| Angle of Right Edge/Left Touch Tilt | 0° ~ 12° | 13°         | 14°         | 15°         |
|-------------------------------------|----------|-------------|-------------|-------------|
| Proximity Sensor                    | Back off | No Back off | No Back off | No Back off |



### 3.8 SAR Data Summary

## GSM850 Body Test

With Proximity sensor activated with power back-off

|                          |            |
|--------------------------|------------|
| Ambient Temperature (°C) | 23.4       |
| Liquid Temperature (°C)  | 22.2       |
| Date                     | 2012-10-31 |

| Mode  | Freq. (MHz) | Ch. # | Slot | Position   | Gap [mm] | Power Drift(dB) | Measured Power [dB m] | Tune-Up Limit [dB m] | Scaling Factor | SAR 1g (W/kg) | Scaled SAR 1g (W/kg) |
|-------|-------------|-------|------|------------|----------|-----------------|-----------------------|----------------------|----------------|---------------|----------------------|
| GPRS  | 836.6       | 190   | 1    | Rear       | 0.0      | -0.03           | 23.33                 | 24.00                | 1.167          | 0.045         | 0.053                |
|       | 836.6       | 190   | 2    |            | 0.0      | 0.10            | 23.36                 | 24.00                | 1.159          | 0.092         | 0.107                |
|       | 836.6       | 190   | 1    | Right Edge | 0.0      | 0.07            | 23.33                 | 24.00                | 1.167          | 0.028         | 0.033                |
|       | 836.6       | 190   | 2    |            | 0.0      | 0.04            | 23.36                 | 24.00                | 1.159          | 0.061         | 0.071                |
| EGPRS | 836.6       | 190   | 1    | Rear       | 0.0      | 0.18            | 23.95                 | 24.50                | 1.135          | 0.050         | 0.057                |
|       | 836.6       | 190   | 2    |            | 0.0      | 0.17            | 23.95                 | 24.50                | 1.135          | 0.106         | <b>0.120</b>         |
|       | 836.6       | 190   | 1    | Right Edge | 0.0      | 0.10            | 23.95                 | 24.50                | 1.135          | 0.029         | 0.033                |
|       | 836.6       | 190   | 2    |            | 0.0      | 0.02            | 23.95                 | 24.50                | 1.135          | 0.066         | 0.075                |

|                          |            |            |            |
|--------------------------|------------|------------|------------|
| Ambient Temperature (°C) | 23.4       | 23.4       | 23.7       |
| Liquid Temperature (°C)  | 22.2       | 22.3       | 22.5       |
| Date                     | 2012.10.31 | 2012.11.01 | 2012.11.03 |

## GSM850 Body Test

No power back-off

| Mode     | Freq. (MHz) | Ch. # | Slot | Position               | Separation distance [mm] | Power Drift(dB) | Measured Power [dB m] | Tune-Up Limit [dB m] | Scaling Factor | SAR 1g (W/kg) | Scaled SAR 1g (W/kg) |
|----------|-------------|-------|------|------------------------|--------------------------|-----------------|-----------------------|----------------------|----------------|---------------|----------------------|
| GPRS850  | 836.6       | 190   | 1    | Rear                   | 7.0                      | 0.05            | 32.11                 | 33.00                | 1.227          | 0.369         | 0.453                |
|          | 836.6       | 190   | 2    |                        | 7.0                      | 0.02            | 29.75                 | 30.50                | 1.189          | 0.430         | 0.511                |
|          | 836.6       | 190   | 2    | Right Touch Tilt at 8° | 11.2                     | -0.01           | 29.75                 | 30.50                | 1.189          | 0.183         | 0.218                |
|          | 836.6       | 190   | 2    | Left Touch Tilt at 15° | 23.2                     | 0.02            | 29.75                 | 30.50                | 1.189          | 0.093         | 0.111                |
|          | 836.6       | 190   | 1    | Right Edge             | 5.0                      | -0.01           | 32.11                 | 33.00                | 1.227          | 0.456         | 0.560                |
|          | 836.6       | 190   | 2    |                        | 5.0                      | -0.01           | 29.75                 | 30.50                | 1.189          | 0.539         | <b>0.641</b>         |
|          | 836.6       | 190   | 2    | Right Touch Tilt at 3° | 4.0                      | -0.02           | 29.75                 | 30.50                | 1.189          | 0.483         | 0.574                |
|          | 836.6       | 190   | 2    | Left Touch Tilt at 13° | 18.7                     | -0.10           | 29.75                 | 30.50                | 1.189          | 0.108         | 0.128                |
|          | 836.6       | 190   | 1    | Bottom                 | 0.0                      | 0.06            | 32.11                 | 33.00                | 1.227          | 0.040         | 0.049                |
|          | 836.6       | 190   | 2    |                        | 0.0                      | 0.10            | 29.75                 | 30.50                | 1.189          | 0.045         | 0.054                |
| EGPRS850 | 836.6       | 190   | 1    | Rear                   | 7.0                      | 0.03            | 26.76                 | 27.50                | 1.186          | 0.105         | 0.125                |
|          | 836.6       | 190   | 2    |                        | 7.0                      | -0.06           | 24.38                 | 25.00                | 1.153          | 0.134         | 0.155                |
|          | 836.6       | 190   | 2    | Right Touch Tilt at 8° | 11.2                     | 0.08            | 24.38                 | 25.00                | 1.153          | 0.059         | 0.068                |
|          | 836.6       | 190   | 2    | Left Touch Tilt at 15° | 23.2                     | -0.01           | 24.38                 | 25.00                | 1.153          | 0.028         | 0.032                |
|          | 836.6       | 190   | 1    | Right Edge             | 5.0                      | -0.05           | 26.76                 | 27.50                | 1.186          | 0.130         | 0.154                |
|          | 836.6       | 190   | 2    |                        | 5.0                      | -0.04           | 24.38                 | 25.00                | 1.153          | 0.152         | 0.175                |
|          | 836.6       | 190   | 2    | Right Touch Tilt at 3° | 4.0                      | -0.04           | 24.38                 | 25.00                | 1.153          | 0.159         | 0.183                |
|          | 836.6       | 190   | 2    | Left Touch Tilt at 13° | 18.7                     | -0.17           | 24.38                 | 25.00                | 1.153          | 0.058         | 0.067                |
|          | 836.6       | 190   | 1    | Bottom                 | 0.0                      | 0.14            | 26.76                 | 27.50                | 1.186          | 0.010         | 0.012                |
|          | 836.6       | 190   | 2    |                        | 0.0                      | -0.04           | 24.38                 | 25.00                | 1.153          | 0.013         | 0.015                |

## GSM1900 Body Test

With Proximity sensor activated with power back-off

|                          |            |
|--------------------------|------------|
| Ambient Temperature (°C) | 23.6       |
| Liquid Temperature (°C)  | 22.6       |
| Date                     | 2012-10-27 |

| Mode  | Freq. (MHz) | Ch. # | Slot | Position   | Gap [mm] | Power Drift(dB) | Measured Power [dB m] | Tune-Up Limit [dB m] | Scaling Factor | SAR 1g (W/kg) | Scaled SAR 1g (W/kg) |
|-------|-------------|-------|------|------------|----------|-----------------|-----------------------|----------------------|----------------|---------------|----------------------|
| GPRS  | 1880.0      | 661   | 1    | Rear       | 0.0      | 0.16            | 21.12                 | 22.00                | 1.225          | 0.180         | 0.221                |
|       | 1880.0      | 661   | 2    |            | 0.0      | 0.07            | 21.12                 | 22.00                | 1.225          | 0.369         | 0.452                |
|       | 1880.0      | 661   | 1    | Right Edge | 0.0      | 0.14            | 21.12                 | 22.00                | 1.225          | 0.136         | 0.167                |
|       | 1880.0      | 661   | 2    |            | 0.0      | 0.09            | 21.12                 | 22.00                | 1.225          | 0.279         | 0.341                |
| EGPRS | 1880.0      | 661   | 1    | Rear       | 0.0      | 0.08            | 21.37                 | 22.00                | 1.156          | 0.190         | 0.220                |
|       | 1880.0      | 661   | 2    |            | 0.0      | 0.06            | 21.35                 | 22.00                | 1.161          | 0.388         | 0.450                |
|       | 1880.0      | 661   | 1    | Right Edge | 0.0      | -0.07           | 21.37                 | 22.00                | 1.156          | 0.147         | 0.170                |
|       | 1880.0      | 661   | 2    |            | 0.0      | 0.07            | 21.35                 | 22.00                | 1.161          | 0.307         | 0.356                |

## GSM1900 Body Test

No power back-off

|                          |            |            |            |
|--------------------------|------------|------------|------------|
| Ambient Temperature (°C) | 23.6       | 23.3       | 23.6       |
| Liquid Temperature (°C)  | 22.6       | 22.1       | 22.5       |
| Date                     | 2012-10-27 | 2012-10-29 | 2012-11-02 |

| Mode      | Freq. (MHz) | Ch. # | Slot | Position               | Separation distance [mm] | Power Drift(dB) | Measured Power [dB m] | Tune-Up Limit [dB m] | Scaling Factor | SAR 1g (W/kg) | Scaled SAR 1g (W/kg) |
|-----------|-------------|-------|------|------------------------|--------------------------|-----------------|-----------------------|----------------------|----------------|---------------|----------------------|
| GPRS1900  | 1880.0      | 661   | 1    | Rear                   | 7.0                      | 0.00            | 29.12                 | 29.50                | 1.091          | 0.386         | 0.421                |
|           | 1880.0      | 661   | 2    |                        | 7.0                      | 0.00            | 26.56                 | 27.00                | 1.107          | 0.435         | 0.482                |
|           | 1880.0      | 661   | 2    | Right Touch Tilt at 8° | 11.2                     | -0.04           | 26.56                 | 29.50                | 1.107          | 0.509         | 0.563                |
|           | 1880.0      | 661   | 2    | Left Touch Tilt at 15° | 23.2                     | 0.08            | 26.56                 | 27.00                | 1.107          | 0.078         | 0.086                |
|           | 1880.0      | 661   | 1    | Right Edge             | 5.0                      | -0.01           | 29.12                 | 29.50                | 1.091          | 0.359         | 0.392                |
|           | 1880.0      | 661   | 2    |                        | 5.0                      | 0.02            | 26.56                 | 27.00                | 1.091          | 0.404         | 0.441                |
|           | 1880.0      | 661   | 2    | Right Touch Tilt at 3° | 4.0                      | -0.01           | 26.56                 | 27.00                | 1.107          | 0.680         | 0.753                |
|           | 1880.0      | 661   | 2    | Left Touch Tilt at 13° | 18.7                     | -0.01           | 26.56                 | 27.00                | 1.107          | 0.109         | 0.121                |
|           | 1880.0      | 661   | 1    | Bottom                 | 0.0                      | -0.01           | 29.12                 | 29.50                | 1.091          | 0.115         | 0.125                |
|           | 1880.0      | 661   | 2    |                        | 0.0                      | 0.05            | 26.56                 | 27.00                | 1.107          | 0.129         | 0.143                |
| EGPRS1900 | 1880.0      | 661   | 1    | Rear                   | 7.0                      | -0.01           | 25.51                 | 26.00                | 1.119          | 0.163         | 0.182                |
|           | 1880.0      | 661   | 2    |                        | 7.0                      | 0.01            | 23.04                 | 23.50                | 1.112          | 0.189         | 0.210                |
|           | 1880.0      | 661   | 2    | Right Touch Tilt at 8° | 11.2                     | 0.18            | 23.04                 | 23.50                | 1.112          | 0.224         | 0.249                |
|           | 1880.0      | 661   | 2    | Left Touch Tilt at 15° | 23.2                     | 0.17            | 23.04                 | 23.50                | 1.112          | 0.060         | 0.067                |
|           | 1880.0      | 661   | 1    | Right Edge             | 5.0                      | 0.11            | 25.51                 | 26.00                | 1.119          | 0.148         | 0.166                |
|           | 1880.0      | 661   | 2    |                        | 5.0                      | 0.03            | 23.04                 | 23.50                | 1.112          | 0.169         | 0.188                |
|           | 1880.0      | 661   | 2    | Right Touch Tilt at 3° | 4.0                      | -0.01           | 23.04                 | 23.50                | 1.112          | 0.294         | 0.327                |
|           | 1880.0      | 661   | 2    | Left Touch Tilt at 13° | 18.7                     | 0.00            | 23.04                 | 23.50                | 1.112          | 0.048         | 0.053                |
|           | 1880.0      | 661   | 1    | Bottom                 | 0.0                      | 0.11            | 25.51                 | 26.00                | 1.119          | 0.046         | 0.051                |
|           | 1880.0      | 661   | 2    |                        | 0.0                      | 0.08            | 23.04                 | 23.50                | 1.112          | 0.054         | 0.060                |

## WCDMA II Body Test

With Proximity sensor activated with power back-off

|                          |            |            |
|--------------------------|------------|------------|
| Ambient Temperature (°C) | 23.3       | 23.6       |
| Liquid Temperature (°C)  | 22.1       | 22.5       |
| Date                     | 2012-10-29 | 2012-11-02 |

| Mode   | Freq.<br>(MHz) | Ch. # | Position   | Gap<br>[mm] | Power<br>Drift(dB) | Measured<br>Power<br>[dB m] | Tune-Up<br>Limit<br>[dB m] | Scaling<br>Factor | SAR 1g<br>(W/kg) | Scaled<br>SAR 1g<br>(W/kg) |
|--------|----------------|-------|------------|-------------|--------------------|-----------------------------|----------------------------|-------------------|------------------|----------------------------|
| FDD II | 1880.0         | 9400  | Rear       | 0.0         | -0.01              | 16.38                       | 17.00                      | 1.153             | 0.595            | 0.686                      |
|        | 1880.0         | 9400  | Right Edge | 0.0         | 0.00               | 16.38                       | 17.00                      | 1.153             | 0.393            | 0.453                      |

No power back-off

| Mode     | Freq.<br>(MHz) | Ch. # | Position                  | Separation<br>distance<br>[mm] | Power<br>Drift(dB) | Measured<br>Power<br>[dB m] | Tune-<br>Up<br>Limit<br>[dB m] | Scaling<br>Factor | SAR 1g<br>(W/kg) | Scaled<br>SAR 1g<br>(W/kg) |
|----------|----------------|-------|---------------------------|--------------------------------|--------------------|-----------------------------|--------------------------------|-------------------|------------------|----------------------------|
| WCDMA II | 1880.0         | 9400  | Rear                      | 7.0                            | 0.03               | 23.12                       | 24.00                          | 1.125             | 0.910            | 1.024                      |
|          | 1852.4         | 9262  |                           |                                | 0.00               | 23.35                       | 24.00                          | 1.161             | 0.965            | 1.120                      |
|          | 1907.6         | 9538  |                           |                                | 0.01               | 23.11                       | 24.00                          | 1.127             | 0.835            | 0.941                      |
|          | 1880.0         | 9400  | Right Touch<br>Tilt at 8° | 11.2                           | 0.04               | 23.12                       | 24.00                          | 1.125             | 1.03             | 1.159                      |
|          | 1852.4         | 9262  |                           |                                | -0.06              | 23.35                       | 24.00                          | 1.161             | 1.05             | 1.219                      |
|          | 1907.6         | 9538  |                           |                                | -0.03              | 23.11                       | 24.00                          | 1.127             | 0.997            | 1.124                      |
|          | 1880.0         | 9400  | Left Touch<br>Tilt at 15° | 23.2                           | 0.00               | 23.12                       | 24.00                          | 1.125             | 0.329            | 0.370                      |
|          | 1880.0         | 9400  | Right Edge                | 5.0                            | -0.01              | 23.12                       | 24.00                          | 1.125             | 0.747            | 0.840                      |
|          | 1880.0         | 9400  | Right Touch<br>Tilt at 3° | 4.0                            | 0.02               | 23.12                       | 24.00                          | 1.125             | 1.15             | 1.294                      |
|          | 1852.4         | 9262  |                           |                                | -0.01              | 23.35                       | 24.00                          | 1.161             | 1.10             | 1.277                      |
|          | 1907.6         | 9538  |                           |                                | -0.02              | 23.11                       | 24.00                          | 1.127             | 1.16             | <b>1.307</b>               |
|          | 1880.0         | 9400  | Left Touch<br>Tilt at 13° | 18.7                           | 0.00               | 23.12                       | 24.00                          | 1.125             | 0.241            | 0.271                      |
|          | 1880.0         | 9400  | Bottom                    | 0.0                            | 0.09               | 23.12                       | 24.00                          | 1.125             | 0.289            | 0.325                      |

## WCDMA V Body Test

### No power back-off

|                          |            |
|--------------------------|------------|
| Ambient Temperature (°C) | 23.4       |
| Liquid Temperature (°C)  | 22.3       |
| Date                     | 2012-11-01 |

| Mode  | Freq. (MHz) | Ch. # | Position   | Gap [mm] | Power Drift(dB) | Measured Power [dB m] | Tune-Up Limit [dB m] | Scaling Factor | SAR 1g (W/kg) | Scaled SAR 1g (W/kg) |
|-------|-------------|-------|------------|----------|-----------------|-----------------------|----------------------|----------------|---------------|----------------------|
| FDD V | 836.6       | 4183  | Rear       | 0.0      | 0.04            | 23.26                 | 24.00                | 1.186          | 0.476         | 0.565                |
|       | 836.6       | 4183  | Right Edge | 0.0      | 0.15            | 23.26                 | 24.00                | 1.186          | 0.545         | 0.646                |
|       | 836.6       | 4183  | Bottom     | 0.0      | 0.09            | 23.26                 | 24.00                | 1.186          | 0.064         | 0.076                |

## 2.4 GHz Body Test

|                          |            |
|--------------------------|------------|
| Ambient Temperature (°C) | 23.6       |
| Liquid Temperature (°C)  | 22.7       |
| Date                     | 2013-01-17 |

| Mode    | Freq. (MHz) | Ch. # | Rate | Position | Power Drift (dB) | Measured Power [dB m] | Tune-Up Limit [dB m] | Scaling Factor | SAR 1g (W/kg) | Scaled SAR 1g (W/kg) |
|---------|-------------|-------|------|----------|------------------|-----------------------|----------------------|----------------|---------------|----------------------|
| 802.11b | 2462        | 6     | 1    | Rear     | 0.04             | 11.7                  | 12.50                | 1.202          | 0.116         | 0.139                |
|         |             | 6     |      | Top      | 0.10             | 11.7                  | 12.50                | 1.202          | 0.057         | 0.069                |

## 5.5 GHz Body Test

|                          |            |
|--------------------------|------------|
| Ambient Temperature (°C) | 23.6       |
| Liquid Temperature (°C)  | 22.7       |
| Date                     | 2013-01-23 |

| Mode    | Freq. (MHz) | Ch. # | Rate | Position | Power Drift (dB) | Measured Power [dB m] | Tune-Up Limit [dB m] | Scaling Factor | SAR 1g (W/kg) | Scaled SAR 1g (W/kg) |
|---------|-------------|-------|------|----------|------------------|-----------------------|----------------------|----------------|---------------|----------------------|
| 802.11a | 5700        | 140   | 6    | Rear     | -0.01            | 8.80                  | 9.50                 | 1.175          | 0.195         | 0.229                |
|         |             |       |      | Top      | -0.01            | 8.80                  | 9.50                 | 1.175          | 0.178         | 0.209                |

## 5.8 GHz Body Test

|                          |            |
|--------------------------|------------|
| Ambient Temperature (°C) | 23.6       |
| Liquid Temperature (°C)  | 22.7       |
| Date                     | 2013-01-23 |

| Mode    | Freq. (MHz) | Ch. # | Rate | Position | Power Drift (dB) | Measured Power [dB m] | Tune-Up Limit [dB m] | Scaling Factor | SAR 1g (W/kg) | Scaled SAR 1g (W/kg) |
|---------|-------------|-------|------|----------|------------------|-----------------------|----------------------|----------------|---------------|----------------------|
| 802.11a | 5785        | 157   | 6    | Rear     | 0.00             | 9.40                  | 10.00                | 1.148          | 0.198         | 0.227                |
|         |             |       |      | Top      | -0.05            | 9.40                  | 10.00                | 1.148          | 0.164         | 0.188                |

## SAR Test Notes

### General Notes :

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2003, FCC/OET Bulletin 65, Supplement C [June 2001] and FCC KDB Publication 447498 D01v05.
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings and the standard batteries are the only options.
4. The EUT is tested 2<sup>nd</sup> hot-spot peak, if it is less than 2 dB below the highest peak.
5. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
6. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v05.
7. Per FCC KDB Publication 648474 D04v01, SAR was evaluated without a headset connected to the device. Since the reported SAR was  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset cable were required.
8. Per FCC KDB Publication 865664 D01v01, variability SAR tests were performed when the measured SAR results for a frequency band were greater than 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see section 12 for variability analysis.

### GSM Test Notes :

1. Per FCC KDB Publication 447498 D01v05, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is  $> 1/2$  dB, instead of the middle channel, the highest output power channel must be used.

### WCDMA Notes :

1. WCDMA mode in Body SAR was tested under RMC 12.2 kbps with HSPA inactive per KDB Publication 941225 D01v02. HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.
2. Per FCC KDB Publication 447498 D01v05, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is  $> 1/2$  dB, instead of the middle channel, the highest output power channel must be used.

### WLAN Notes :

1. Justification for reduced test configuration for WIFI channels per KDB Publication 248227 and April 2010 FCC/TCB Meeting Notes: Highest average RF output power channel for the lowest data rate were selected for SAR evaluation. Other IEEE 802.11 modes (including 802.11n and higher data rates) were not investigated since the average output powers were not greater than 0.25 dB than that of the corresponding channel in the lowest data rate IEEE 802.11a modes.
2. WLAN transmission was verified using a spectrum analyzer.

### 3.9 Simultaneous Multi-band Transmission Evaluation

#### 3.9.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v05 are applicable to handsets with built-in unlicensed transmitters such as 802.11 b/g/n and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

#### 3.9.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is require. Per FCC KDB 447498 D01v05 IV.C.1,iii, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is  $\leq 1.6$  W/kg. When standalone SAR is not required to be measured per FCC KDB 447498 D01v05 4.3.2.2), the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission involving that transmitter.

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{7.5} * \frac{(\text{Max Power of channel, mW})}{\text{Min. Separation Distance, mm}}$$

| Antenna                                           | Tx    | Frequency (MHz) | Output power <sup>Note 2, 4</sup> |     | Separation distances (mm) <sup>Note 1 and 4</sup> |       |      |     |        |       | Estimated SAR Value <sup>Note 3 and 4</sup> |         |         |         |         |       |
|---------------------------------------------------|-------|-----------------|-----------------------------------|-----|---------------------------------------------------|-------|------|-----|--------|-------|---------------------------------------------|---------|---------|---------|---------|-------|
|                                                   |       |                 | dBm                               | mW  | Left                                              | Right | Rear | Top | Bottom | Front | Left                                        | Right   | Rear    | Top     | Bottom  | Front |
| WWAN Main Antenna                                 |       |                 |                                   |     |                                                   |       |      |     |        |       |                                             |         |         |         |         |       |
| 3G Main                                           | GSM   | 850             | 24.48                             | 281 | 286                                               | 5     | 5    | 90  | 20     |       | 0.400                                       | Measure | Measure | 0.400   | Measure | N/A   |
| 3G Main                                           | GSM   | 1900            | 20.98                             | 125 | 286                                               | 5     | 5    | 90  | 20     |       | 0.400                                       | Measure | Measure | 0.400   | Measure | N/A   |
| 3G Main                                           | WCDMA | 850             | 24.00                             | 251 | 286                                               | 5     | 5    | 90  | 20     |       | 0.400                                       | Measure | Measure | 0.400   | Measure | N/A   |
| 3G Main                                           | WCDMA | 1900            | 24.00                             | 251 | 286                                               | 5     | 5    | 90  | 20     |       | 0.400                                       | Measure | Measure | 0.400   | Measure | N/A   |
| WiFi - Main Antenna - Zero separation from tablet |       |                 |                                   |     |                                                   |       |      |     |        |       |                                             |         |         |         |         |       |
| WLAN Main                                         | WiFi  | 2412            | 11.70                             | 15  | 164                                               | 116   | 5    | 5   | 176    |       | 0.062                                       | 0.062   | Measure | Measure | 0.062   | N/A   |
| WLAN Main                                         | WiFi  | 5180            | 7.30                              | 5   | 164                                               | 116   | 5    | 5   | 176    |       | 0.030                                       | 0.030   | 0.303   | 0.303   | 0.030   | N/A   |
| WLAN Main                                         | WiFi  | 5260            | 7.50                              | 6   | 164                                               | 116   | 5    | 5   | 176    |       | 0.037                                       | 0.037   | 0.367   | 0.367   | 0.037   | N/A   |
| WLAN Main                                         | WiFi  | 5500            | 8.80                              | 8   | 164                                               | 116   | 5    | 5   | 176    |       | 0.050                                       | 0.050   | Measure | Measure | 0.050   | N/A   |
| WLAN Main                                         | WiFi  | 5745            | 9.40                              | 9   | 164                                               | 116   | 5    | 5   | 176    |       | 0.058                                       | 0.058   | Measure | Measure | 0.058   | N/A   |
| B.T- Antenna - Zero separation from tablet        |       |                 |                                   |     |                                                   |       |      |     |        |       |                                             |         |         |         |         |       |
| Bluetooth                                         | B.T   | 2441            | 5.30                              | 3   | 164                                               | 116   | 5    | 5   | 176    |       | 0.012                                       | 0.012   | 0.125   | 0.125   | 0.012   | N/A   |

#### Notes

- For distances  $< 5\text{mm}$ , a distance of 5mm is used to determine SAR exclusion and estimated SAR value.
- Output power is the maximum rated power (including tune-up or manufacturing tolerances) and includes source-based averaging.
- If the antenna separation distance is  $> 50\text{mm}$  then the estimated SAR value is the lesser of the estimated value at 50mm or 0.4 W/Kg.
- Formulas round separation distance to nearest mm and power to nearest mW before calculating estimated SAR or determining if SAR is excluded.

The Simultaneous Transmission possibilities are listed as below.

| No | Capable TX Configuration                                             | Body SAR |
|----|----------------------------------------------------------------------|----------|
| 1  | WWAN (GSM850, PCS1900, WCDMA II, WCDMA V) + WLAN 2.4 GHz             | O        |
| 2  | WWAN (GSM850, PCS1900, WCDMA II, WCDMA V) + WLAN 5 GHz               | O        |
| 3  | WWAN (GSM850, PCS1900, WCDMA II, WCDMA V) + Bluetooth                | O        |
| 4  | WWAN (GSM850, PCS1900, WCDMA II, WCDMA V) + WLAN 2.4 GHz + Bluetooth | X        |
| 5  | WWAN(GSM850, PCS1900, WCDMA II, WCDMA V) + WLAN 5 GHz + Bluetooth    | X        |

### Simultaneous Multi-band Transmission Evaluation

| Conditions<br>(SAR1+SAR2) | Position   | P-Sensor Status | Max.<br>SAR1 | Max.<br>SAR2 | SAR1+SAR2<br>Summation |
|---------------------------|------------|-----------------|--------------|--------------|------------------------|
| GSM850 + WLAN 2.4G        | Rear       | Back Off        | 0.120        | 0.139        | 0.259                  |
|                           |            | No Back Off     | 0.511        |              | 0.650                  |
|                           | Right Edge | Back Off        | 0.075        | 0.062        | 0.137                  |
|                           |            | No Back Off     | 0.641        |              | 0.703                  |
|                           | Left Edge  | N/A             | 0.400        | 0.062        | 0.462                  |
|                           | Top        | N/A             | 0.400        | 0.069        | 0.469                  |
|                           | Bottom     | N/A             | 0.054        | 0.062        | 0.116                  |
| GSM850 + WLAN 5G          | Rear       | Back Off        | 0.120        | 0.367        | 0.487                  |
|                           |            | No Back Off     | 0.511        |              | 0.878                  |
|                           | Right Edge | Back Off        | 0.075        | 0.058        | 0.133                  |
|                           |            | No Back Off     | 0.641        |              | 0.699                  |
|                           | Left Edge  | N/A             | 0.400        | 0.058        | 0.458                  |
|                           | Top        | N/A             | 0.400        | 0.367        | 0.767                  |
|                           | Bottom     | N/A             | 0.054        | 0.058        | 0.112                  |
| GSM850 + Bluetooth        | Rear       | Back Off        | 0.120        | 0.125        | 0.245                  |
|                           |            | No Back Off     | 0.511        |              | 0.636                  |
|                           | Right Edge | Back Off        | 0.075        | 0.012        | 0.087                  |
|                           |            | No Back Off     | 0.641        |              | 0.653                  |
|                           | Left Edge  | N/A             | 0.400        | 0.012        | 0.412                  |
|                           | Top        | N/A             | 0.400        | 0.125        | 0.525                  |
|                           | Bottom     | N/A             | 0.054        | 0.012        | 0.066                  |
| GSM1900 + WLAN 2.4G       | Rear       | Back Off        | 0.120        | 0.139        | 0.259                  |
|                           |            | No Back Off     | 0.511        |              | 0.650                  |
|                           | Right Edge | Back Off        | 0.075        | 0.062        | 0.137                  |
|                           |            | No Back Off     | 0.641        |              | 0.703                  |
|                           | Left Edge  | N/A             | 0.400        | 0.062        | 0.462                  |
|                           | Top        | N/A             | 0.400        | 0.069        | 0.469                  |
|                           | Bottom     | N/A             | 0.054        | 0.062        | 0.116                  |
| GSM1900 + WLAN 5G         | Rear       | Back Off        | 0.120        | 0.367        | 0.487                  |
|                           |            | No Back Off     | 0.511        |              | 0.878                  |
|                           | Right Edge | Back Off        | 0.075        | 0.058        | 0.133                  |
|                           |            | No Back Off     | 0.641        |              | 0.699                  |
|                           | Left Edge  | N/A             | 0.400        | 0.058        | 0.458                  |
|                           | Top        | N/A             | 0.400        | 0.367        | 0.767                  |
|                           | Bottom     | N/A             | 0.054        | 0.058        | 0.112                  |
| GSM1900 + Bluetooth       | Rear       | Back Off        | 0.120        | 0.125        | 0.245                  |
|                           |            | No Back Off     | 0.511        |              | 0.636                  |
|                           | Right Edge | Back Off        | 0.075        | 0.012        | 0.087                  |
|                           |            | No Back Off     | 0.641        |              | 0.653                  |
|                           | Left Edge  | N/A             | 0.400        | 0.012        | 0.412                  |
|                           | Top        | N/A             | 0.400        | 0.125        | 0.525                  |
|                           | Bottom     | N/A             | 0.054        | 0.012        | 0.066                  |

| Conditions<br>(SAR1+SAR2) | Position   | P-Sensor Status | Max.<br>SAR1 | Max.<br>SAR2 | SAR1+SAR2<br>Summation |
|---------------------------|------------|-----------------|--------------|--------------|------------------------|
| WCDMA II + WLAN 2.4G      | Rear       | Back Off        | 0.686        | 0.139        | 0.825                  |
|                           |            | No Back Off     | 1.120        |              | 1.259                  |
|                           | Right Edge | Back Off        | 0.453        | 0.062        | 0.515                  |
|                           |            | No Back Off     | 0.840        |              | 0.902                  |
|                           | Left Edge  | N/A             | 0.400        | 0.062        | 0.462                  |
|                           | Top        | N/A             | 0.400        | 0.069        | 0.469                  |
|                           | Bottom     | N/A             | 0.325        | 0.062        | 0.387                  |
| WCDMA II + WLAN 5G        | Rear       | Back Off        | 0.686        | 0.367        | 1.053                  |
|                           |            | No Back Off     | 1.120        |              | <b>1.487</b>           |
|                           | Right Edge | Back Off        | 0.453        | 0.058        | 0.511                  |
|                           |            | No Back Off     | 0.840        |              | 0.898                  |
|                           | Left Edge  | N/A             | 0.400        | 0.058        | 0.458                  |
|                           | Top        | N/A             | 0.400        | 0.367        | 0.767                  |
|                           | Bottom     | N/A             | 0.325        | 0.058        | 0.383                  |
| WCDMA II + Bluetooth      | Rear       | Back Off        | 0.686        | 0.125        | 0.811                  |
|                           |            | No Back Off     | 1.120        |              | 1.245                  |
|                           | Right Edge | Back Off        | 0.453        | 0.012        | 0.465                  |
|                           |            | No Back Off     | 0.840        |              | 0.852                  |
|                           | Left Edge  | N/A             | 0.400        | 0.012        | 0.412                  |
|                           | Top        | N/A             | 0.400        | 0.125        | 0.525                  |
|                           | Bottom     | N/A             | 0.325        | 0.012        | 0.337                  |
| WCDMA V + WLAN 2.4G       | Rear       | N/A             | 0.565        | 0.139        | 0.704                  |
|                           | Right Edge |                 | 0.646        | 0.062        | 0.708                  |
|                           | Left Edge  |                 | 0.400        | 0.062        | 0.462                  |
|                           | Top        |                 | 0.400        | 0.069        | 0.469                  |
|                           | Bottom     |                 | 0.076        | 0.062        | 0.138                  |
| WCDMA V + WLAN 5G         | Rear       | N/A             | 0.565        | 0.367        | 0.932                  |
|                           | Right Edge |                 | 0.646        | 0.058        | 0.704                  |
|                           | Left Edge  |                 | 0.400        | 0.058        | 0.458                  |
|                           | Top        |                 | 0.400        | 0.367        | 0.767                  |
|                           | Bottom     |                 | 0.076        | 0.058        | 0.134                  |
| WCDMA V + Bluetooth       | Rear       | N/A             | 0.565        | 0.128        | 0.693                  |
|                           | Right Edge |                 | 0.646        | 0.012        | 0.658                  |
|                           | Left Edge  |                 | 0.400        | 0.012        | 0.412                  |
|                           | Top        |                 | 0.400        | 0.125        | 0.525                  |
|                           | Bottom     |                 | 0.076        | 0.012        | 0.088                  |

### 3.10 Repeated SAR Measurement

| Mode     | Freq.<br>(MHz) | Ch. # | Position                  | Power Drift<br>(dB) | Measured<br>Power<br>[dB m] | Measured<br>1 g SAR<br>(W/kg) | 1 <sup>st</sup><br>Repeated<br>1 g SAR<br>(W/kg) | Deviation<br>(%) |
|----------|----------------|-------|---------------------------|---------------------|-----------------------------|-------------------------------|--------------------------------------------------|------------------|
| WCDMA II | 1907.6         | 9538  | Right Touch<br>Tilt at 3° | 0.00                | 23.11                       | 1.16                          | 1.16                                             | 0.00             |

**Note.**

1. Per KDB 865664 D01v01, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$  W/kg.
2. Per KDB 865664 D01v01, if the deviation among the repeated measurement is  $\leq 20\%$  and the measured SAR  $< 1.45$  W/kg, only one repeated measurement is required.
3. The deviation is the difference in percentage between original and repeated measured SAR.

All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

## Appendix

### List

|            |                                                 |                                                                                                                                                 |
|------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Appendix A | DASY5 Report<br>(Plots of the SAR Measurements) | - 835 MHz Validation Test<br>- 1900 MHz Validation Test<br>- 2450 MHz Validation Test<br>- 5.2 GHz Validation Test<br>- 5.8 GHz Validation Test |
| Appendix B | Uncertainty Analysis                            |                                                                                                                                                 |
| Appendix C | Calibration Certificate                         | - PROBE<br>- DAE5<br>- DIPOLE                                                                                                                   |



Report File No. : F690501/RF-SAR002038-A3  
Date of Issue : 2013-02-26  
Page : 40 / 215

## **Appendix A**

### **Test Plot – DASY5 Report**

## 835 MHz Validation Test\_Body

Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 850MHz Validation.da53.0

Input Power : 100 mW

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:490

Communication System: C/W; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.965 \text{ mho/m}$ ;  $\epsilon_r = 55.999$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**Validation/850MHz Validation/Area Scan (81x81x1):** Interpolated grid: dx=1.500 mm,

dy=1.500 mm

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

**Validation/850MHz Validation/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm,

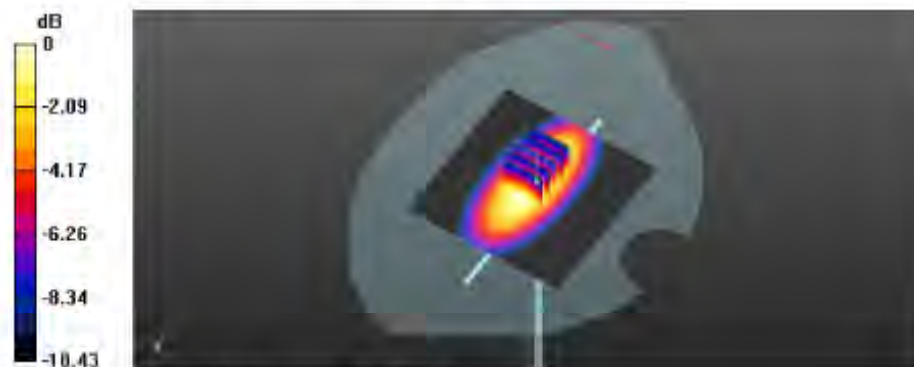
dy=8mm, dz=5mm

Reference Value = 35.816 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.435 mW/g

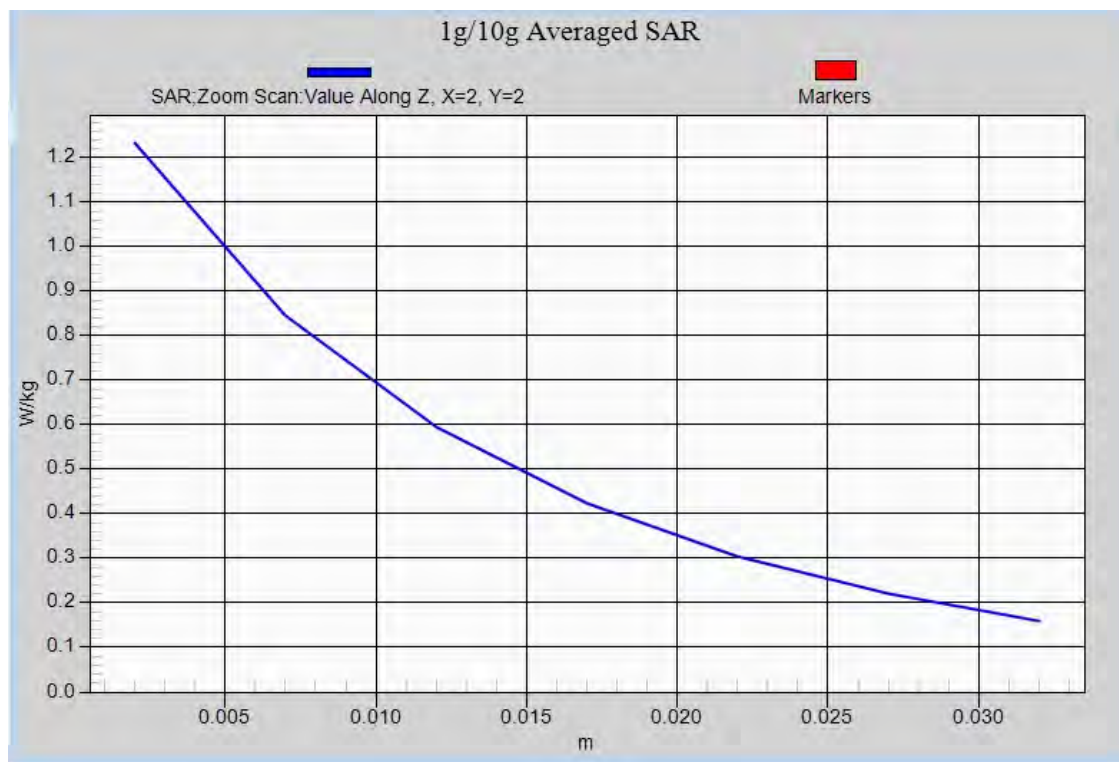
**SAR(1 g) = 0.986 mW/g; SAR(10 g) = 0.653 mW/g**

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



0 dB = 1.23 W/kg = 1.80 dB W/kg

## Z-Scan



Date: 2012-11-01

Test Laboratory : SGS Korea (Gunpo Laboratory)  
File Name: 850MHz Validation.das53.0

Input Power : 100 mW

Ambient Temp : 23.4 °C Tissue Temp : 22.3 °C

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:490**

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

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.936$  mho/m;  $\epsilon_r = 56.653$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**Validation/850MHz Validation/Area Scan (81x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

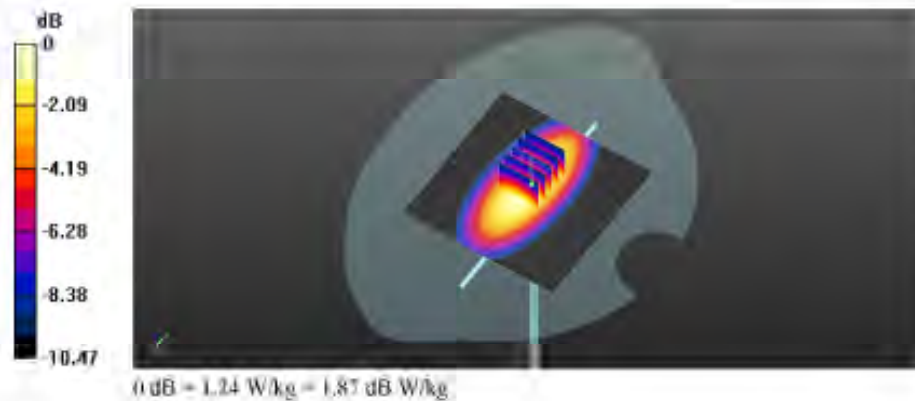
**Validation/850MHz Validation/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 36.686 V/m; Power Drift = -0.04 dB

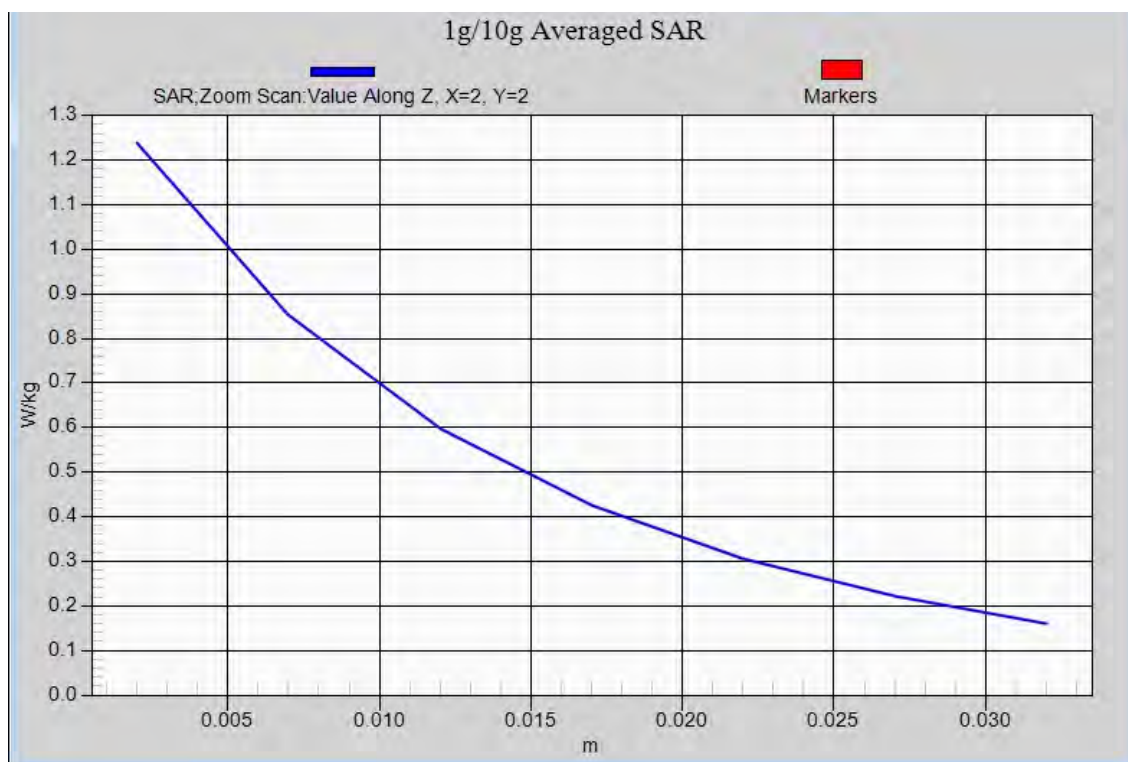
Peak SAR (extrapolated) = 1.443 mW/g

SAR(1 g) = 0.991 mW/g; SAR(10 g) = 0.657 mW/g

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



## Z-Scan



Date: 2012-11-03

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 850MHz Validation.da53.0

Input Power : 100 mW

Ambient Temp : 23.7 °C Tissue Temp : 22.5 °C

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:490**

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

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r = 55.036$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**Validation/850MHz Validation/Area Scan (81x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

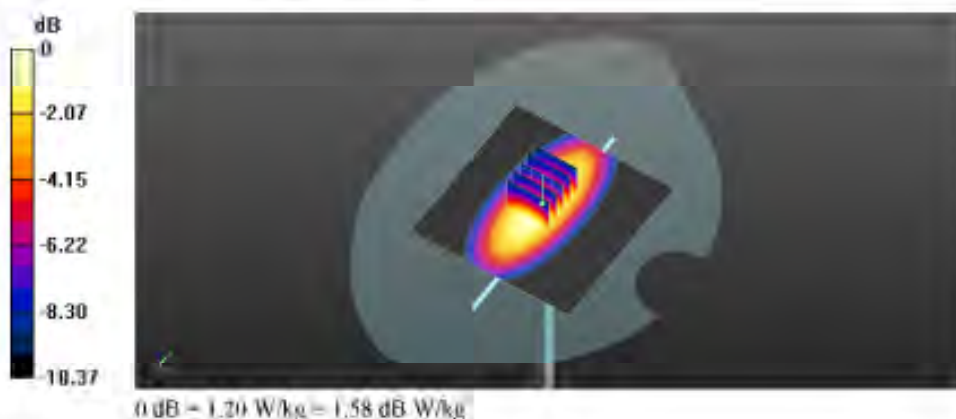
**Validation/850MHz Validation/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.296 V/m; Power Drift = -0.01 dB

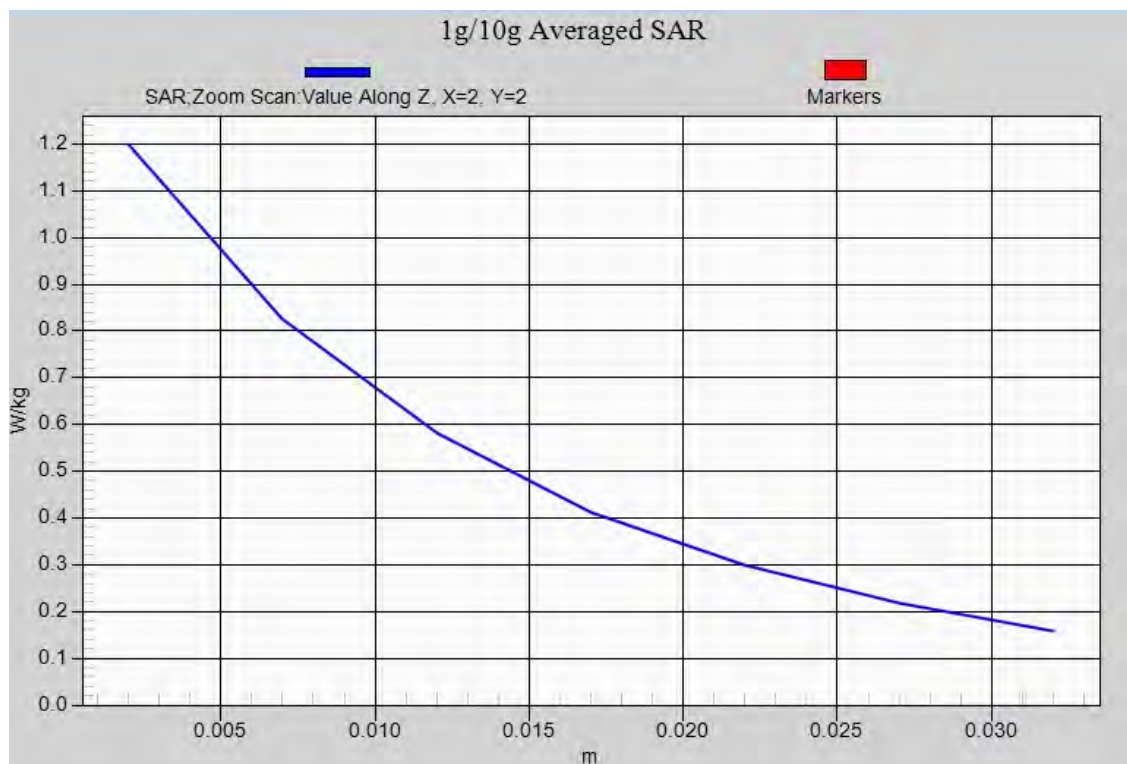
Peak SAR (extrapolated) = 1.401 mW/g

SAR(1 g) = 0.963 mW/g; SAR(10 g) = 0.639 mW/g

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



## Z-Scan



## 1900 MHz Validation Test\_Body

Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)  
File Name: 1900MHz Validation da53-0

Input Power : 100 mW

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d033

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.555$  mho/m;  $\epsilon_r = 53.923$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**Validation/1900MHz Validation/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.85 W/kg

**Validation/1900MHz Validation/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

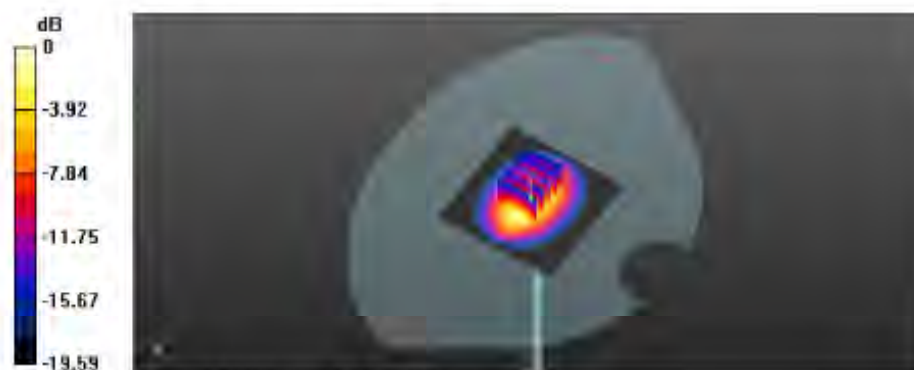
dx=8mm, dy=8mm, dz=5mm

Reference Value = 62.508 V/m; Power Drift = 0.01 dB

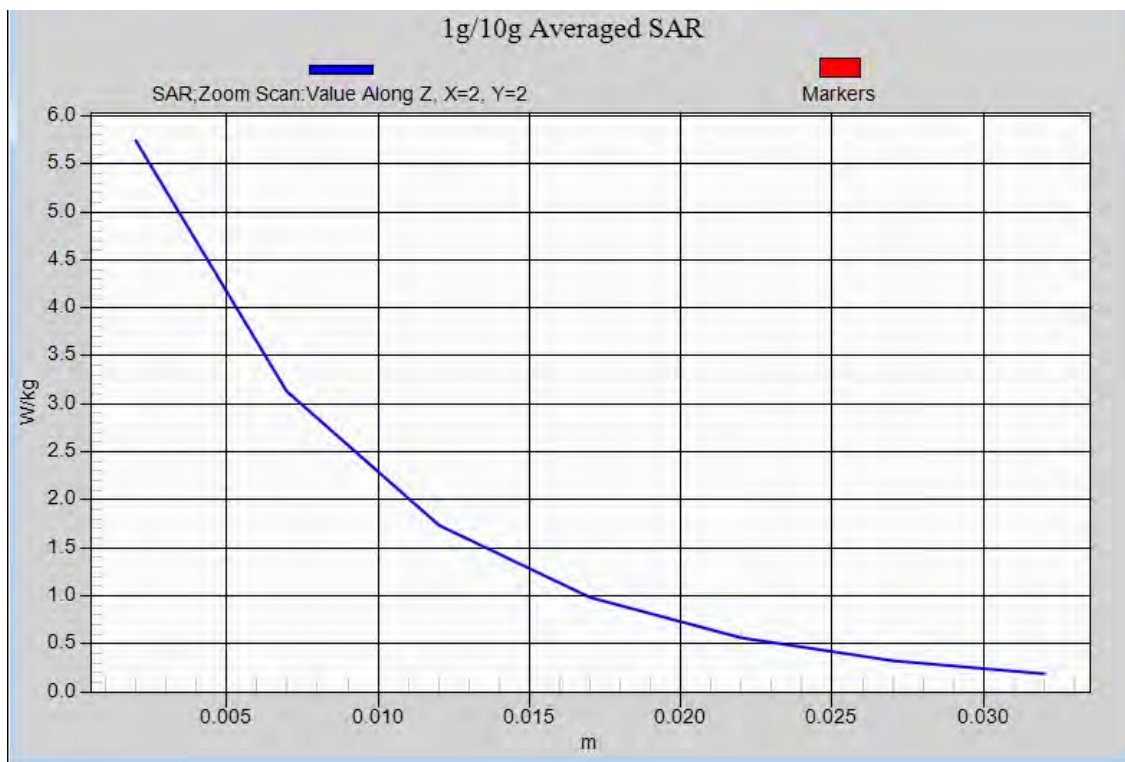
Peak SAR (extrapolated) = 7.532 mW/g

SAR(1 g) = 4.06 mW/g; SAR(10 g) = 2.06 mW/g

Maximum value of SAR (measured) = 5.75 W/kg



## Z-Scan



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 1900MHz Validation da53-0

Input Power : 100 mW

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d033**

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.537$  mho/m;  $\epsilon_r = 54.141$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**Validation/1900MHz Validation/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.81 W/kg

**Validation/1900MHz Validation/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

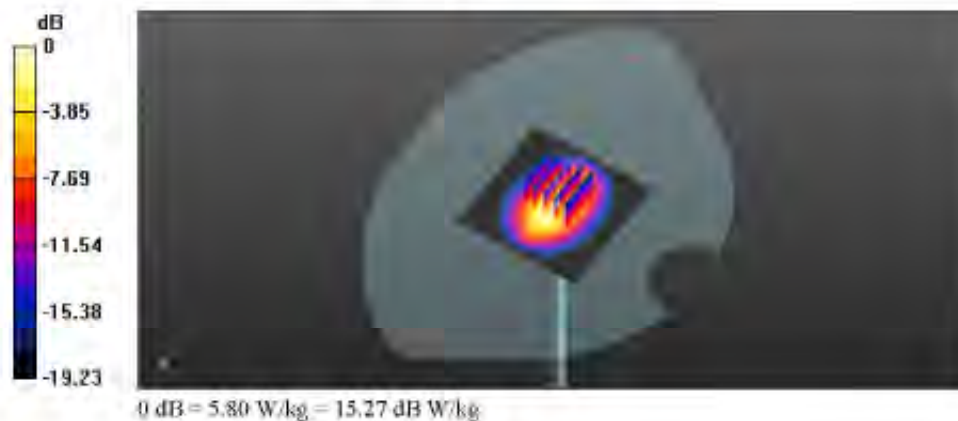
dx=8mm, dy=8mm, dz=5mm

Reference Value = 62.573 V/m; Power Drift = -0.07 dB

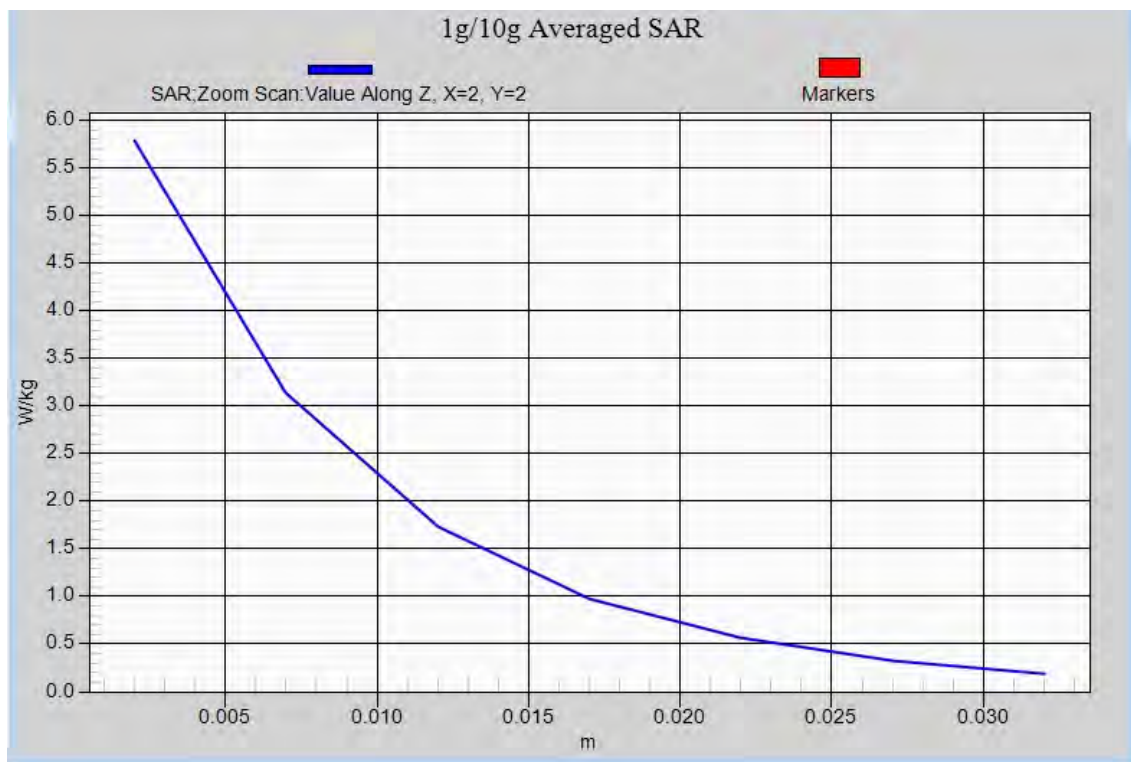
Peak SAR (extrapolated) = 7.369 mW/g

**SAR(1 g) = 4 mW/g; SAR(10 g) = 2.04 mW/g**

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



## Z-Scan



Date: 2012-11-02

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 1900MHz Validation da51-0

Input Power : 100 mW

Ambient Temp : 23.6 °C Tissue Temp : 22.5 °C

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d033**

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.535$  mho/m;  $\epsilon_r = 52.281$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sa1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**Validation/1900MHz Validation/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 5.84 W/kg

**Validation/1900MHz Validation/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

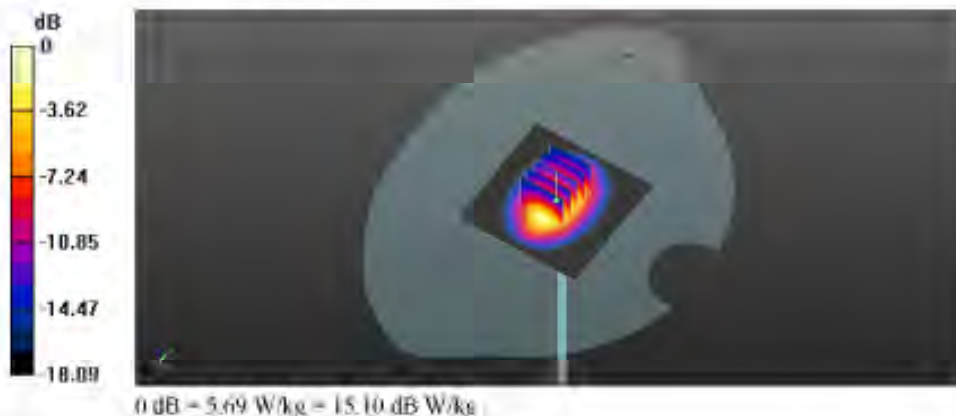
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 62.753 V/m; Power Drift = -0.00 dB

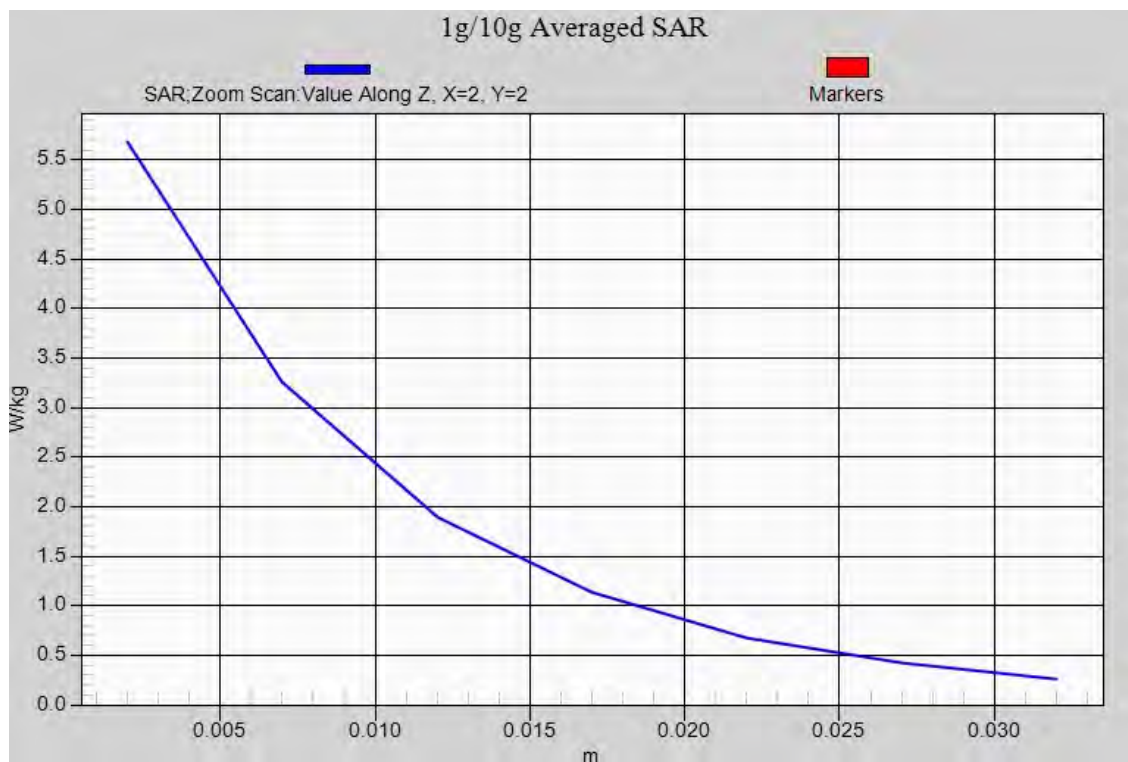
Peak SAR (extrapolated) = 7.249 mW/g

**SAR(1 g) = 4.09 mW/g; SAR(10 g) = 2.14 mW/g**

Maximum value of SAR (measured) = 5.69 W/kg



## Z-Scan



Date: 2013-01-22

Test Laboratory : SGS Korea (Gunpo Laboratory)  
 File Name: 1900MHz Validation.da53.0

Input Power : 100 mW

Ambient Temp : 23.1 °C Tissue Temp : 22.5 °C

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d033**

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.527$  S/m;  $\epsilon_r = 52.018$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: ET3DV6 - SN1623; ConvF(4.59, 4.59, 4.59); Calibrated: 15.05.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.8(7028)

**Validation/1900MHz Validation/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 4.53 W/kg

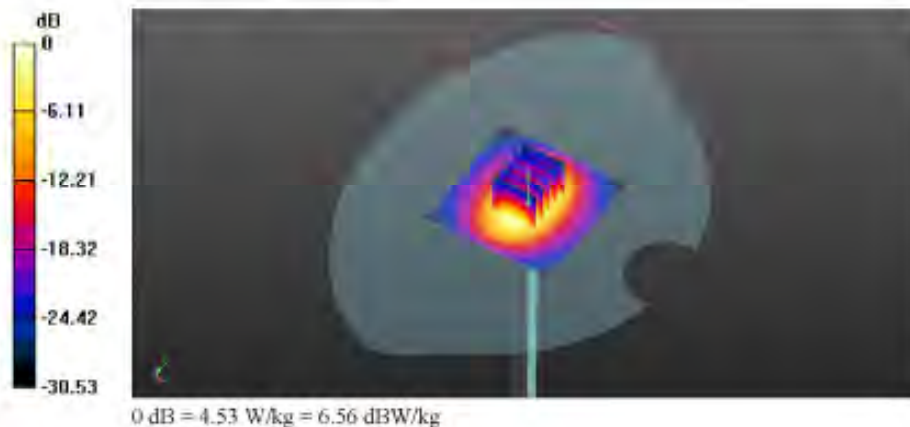
**Validation/1900MHz Validation/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 57.512 V/m; Power Drift = -0.00 dB

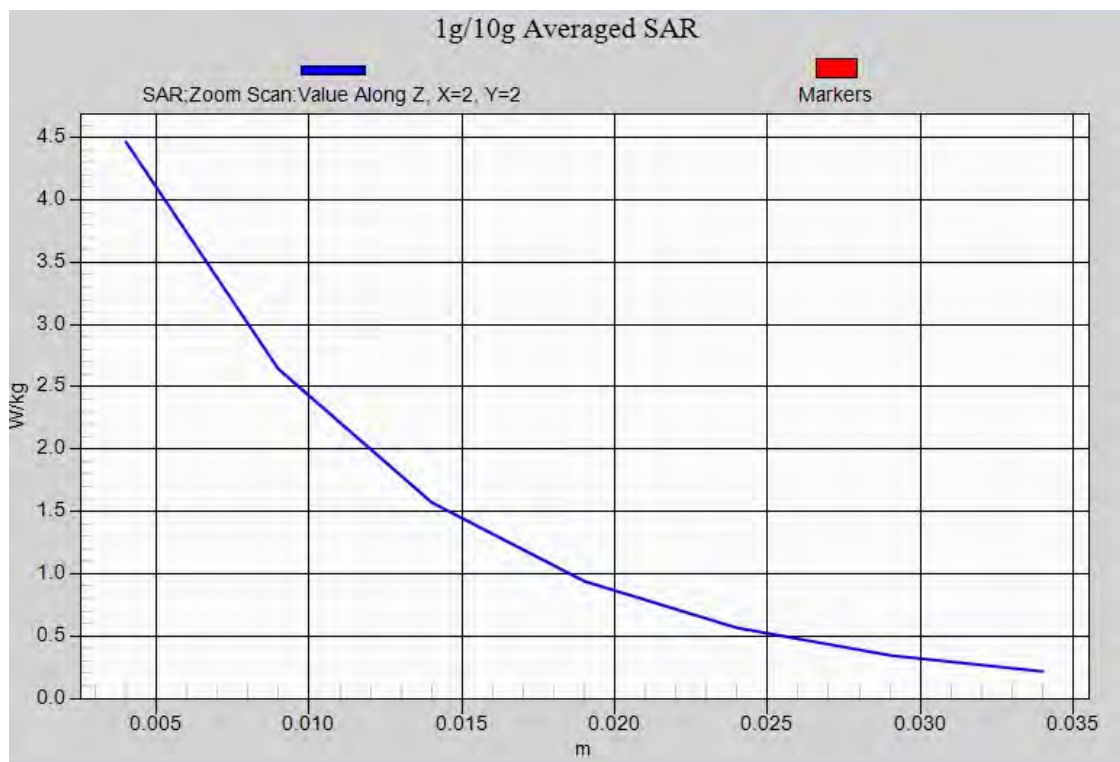
Peak SAR (extrapolated) = 6.93 W/kg

**SAR(1 g) = 4 W/kg; SAR(10 g) = 2.12 W/kg**

Maximum value of SAR (measured) = 4.47 W/kg



## Z-Scan



## 2450 MHz Validation Test\_Body

Date: 2013-01-17

Test Laboratory : SGS Korea (Gunpo Laboratory)  
 File Name: 2450MHz Validation da53-0

Input Power : 100 mW

Ambient Temp : 23.6 °C Tissue Temp : 22.7 °C

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: 734**

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

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.995$  S/m;  $\epsilon_r = 50.583$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: ET3DV6 - SN1623; ConvF(4.04, 4.04, 4.04); Calibrated: 15.05.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.8(7028)

**2450MHz Validation/2450MHz Validation/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.04 W/kg

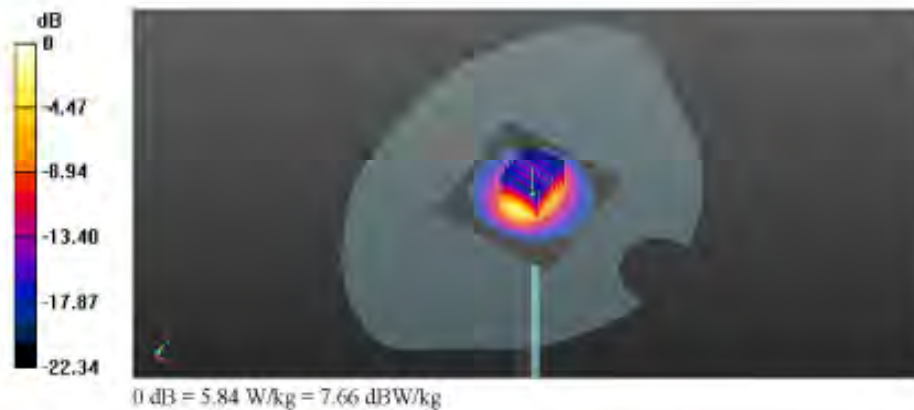
**2450MHz Validation/2450MHz Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.152 V/m; Power Drift = 0.00 dB

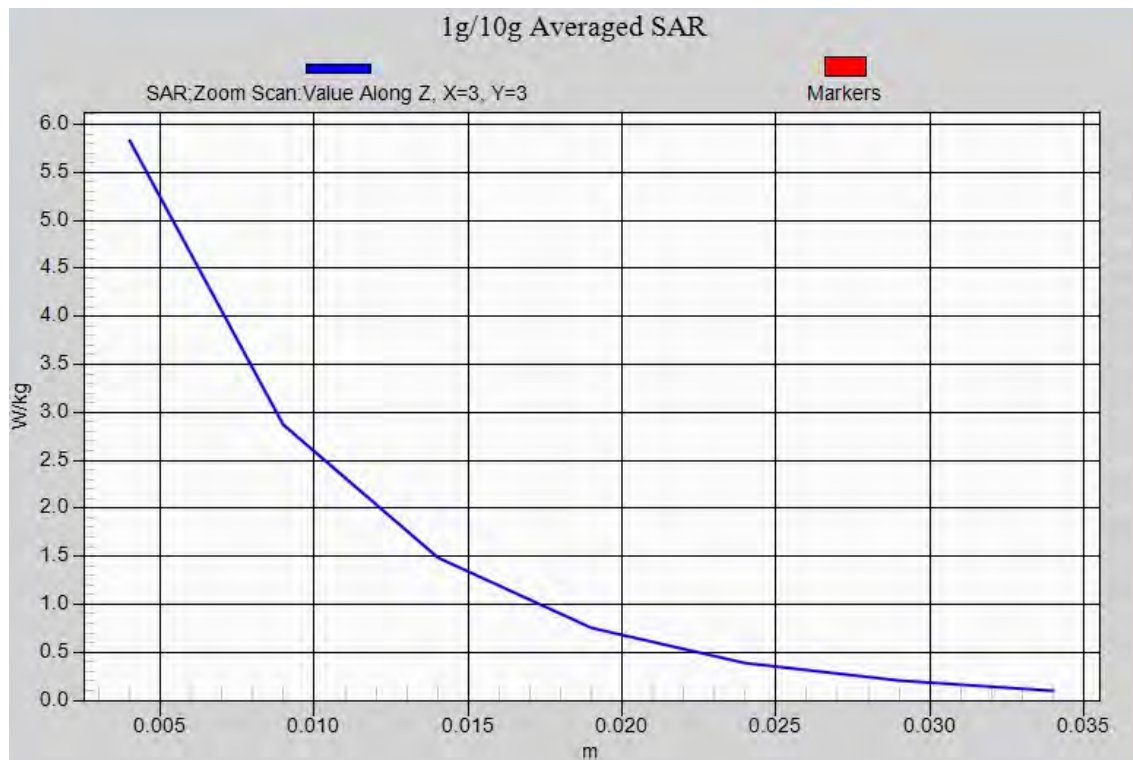
Peak SAR (extrapolated) = 11.1 W/kg

**SAR(1 g) = 5.17 W/kg; SAR(10 g) = 2.39 W/kg**

Maximum value of SAR (measured) = 5.84 W/kg



## Z-Scan



## 5.5 GHz Validation Test\_Body

Date: 2013-01-23

Test Laboratory : SGS Korea (Gunpo Laboratory)  
 File Name: 5500MHz Validation.da53.0

Input Power : 100 mW

Ambient Temp : 23.6 °C Tissue Temp : 22.7 °C

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1130**

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.606$  S/m;  $\epsilon_r = 47.85$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(3.64, 3.64, 3.64); Calibrated: 23.05.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.8(7028)

**5500MHz Validation/5500MHz Validation/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.4 W/kg

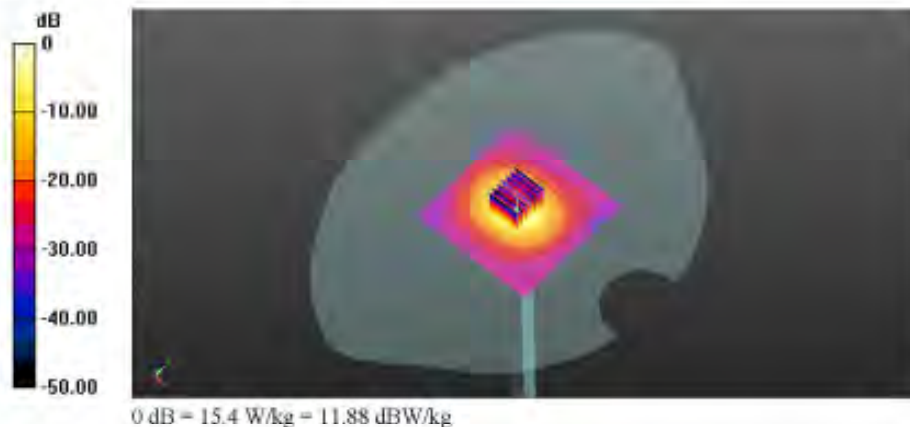
**5500MHz Validation/5500MHz Validation/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 59.101 V/m; Power Drift = 0.21 dB

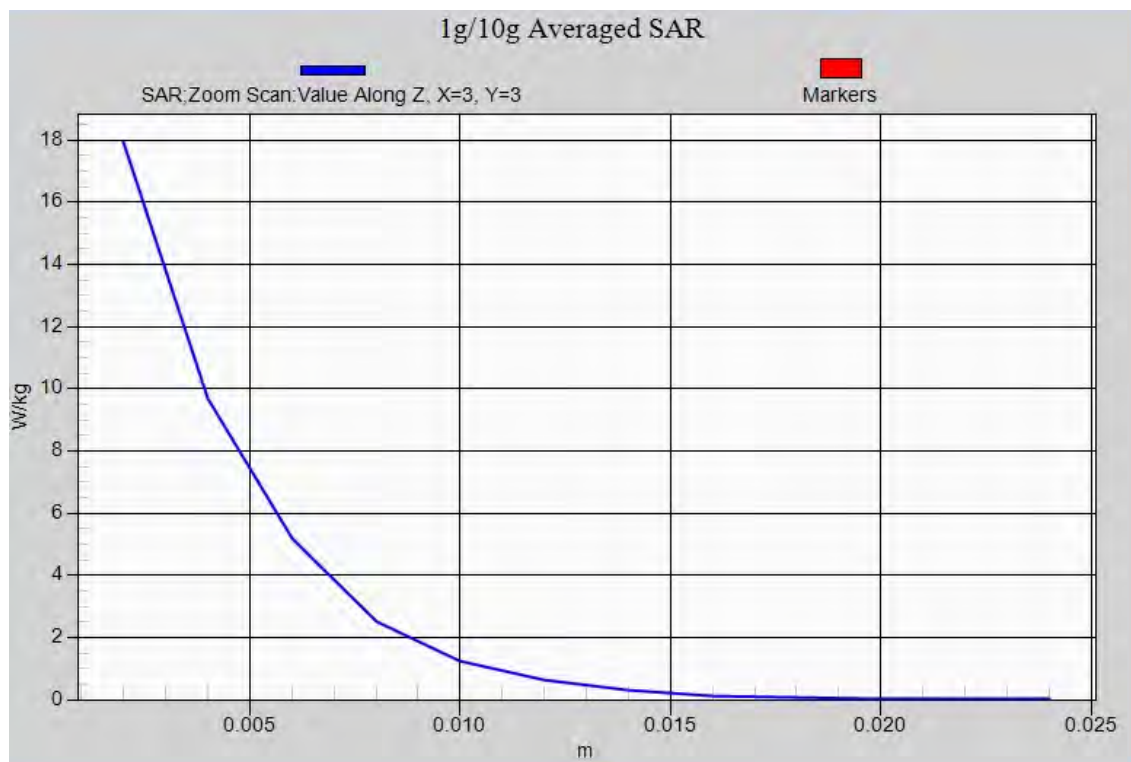
Peak SAR (extrapolated) = 34.5 W/kg

**SAR(1 g) = 8.36 W/kg; SAR(10 g) = 2.31 W/kg**

Maximum value of SAR (measured) = 18.0 W/kg



## Z-Scan



## 5.8 GHz Validation Test\_Body

Date: 2013-01-23

Test Laboratory : SGS Korea (Gunpo Laboratory)  
File Name: 5800MHz Validation.da53.0

Input Power : 100 mW

Ambient Temp : 23.6 °C Tissue Temp : 22.7 °C

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1106**

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

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.041$  S/m;  $\epsilon_r = 47.417$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(3.79, 3.79, 3.79); Calibrated: 23.05.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.8(7028)

**5800MHz Validation/5800MHz Validation/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.0 W/kg

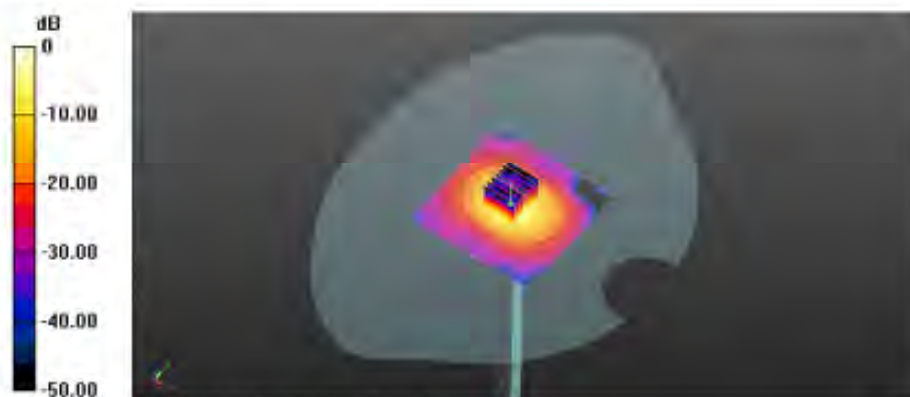
**5800MHz Validation/5800MHz Validation/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.550 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 33.2 W/kg

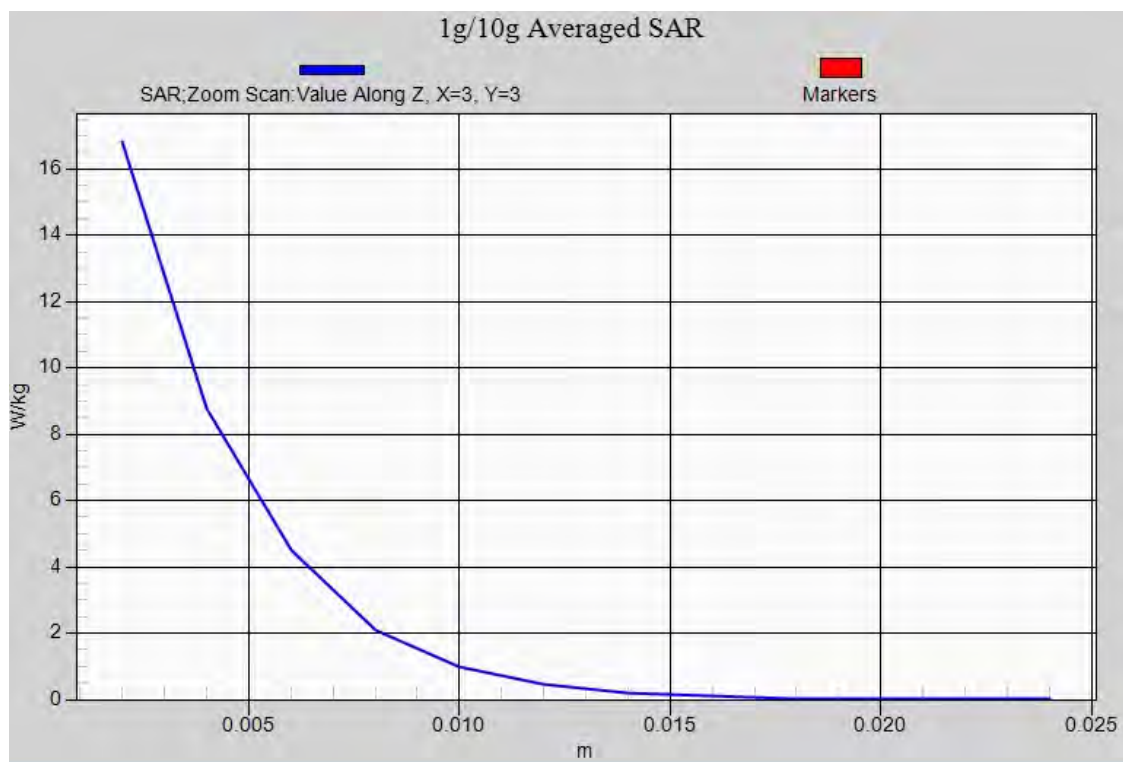
**SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.17 W/kg**

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



0 dB = 16.0 W/kg = 12.04 dBW/kg

## Z-Scan



## GSM850 Body SAR

Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Rear\_CH190\_1TX\_Proximity Sensor On(Power Back Off).da53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 1TX; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

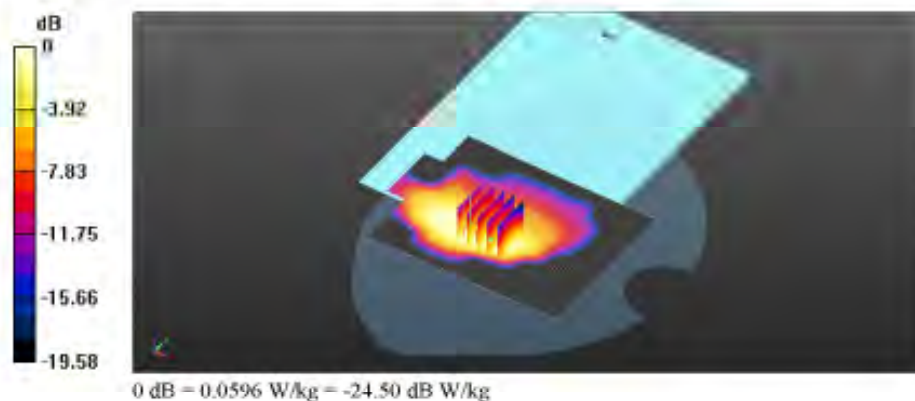
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/GPRS850\_Rear\_CH190\_1TX\_Proximity Sensor On(Power Back Off)/Area Scan (111x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0642 W/kg

**GPRS850/GPRS850\_Rear\_CH190\_1TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 4.522 V/m; Power Drift = -0.03 dB  
Peak SAR (extrapolated) = 0.076 mW/g  
**SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.027 mW/g**  
Maximum value of SAR (measured) = 0.0596 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Rear\_CH190\_2TX\_Proximity Sensor On(Power Back Off).da53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

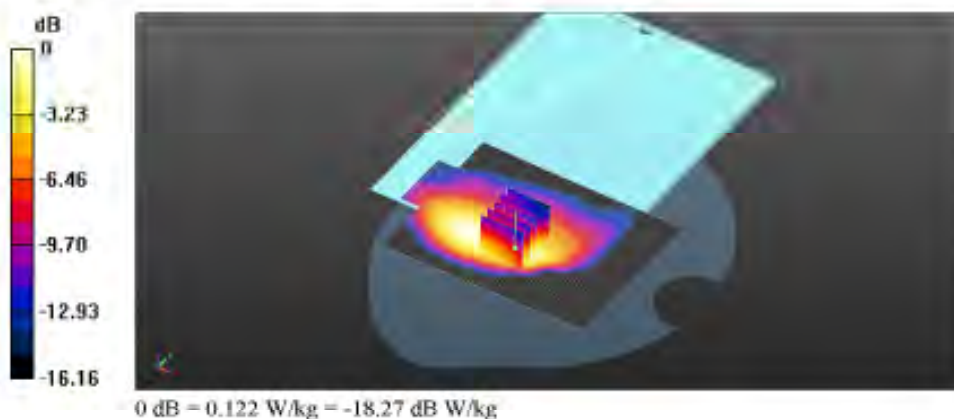
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/GPRS850\_Rear\_CH190\_2TX\_Proximity Sensor On(Power Back Off)/Area Scan (111x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.126 W/kg

**GPRS850/GPRS850\_Rear\_CH190\_2TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.618 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.150 mW/g  
**SAR(1 g) = 0.092 mW/g; SAR(10 g) = 0.057 mW/g**  
Maximum value of SAR (measured) = 0.122 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Right Edge\_CH190\_1TX\_Proximity Sensor On(Power Back Off).da53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 1TX; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

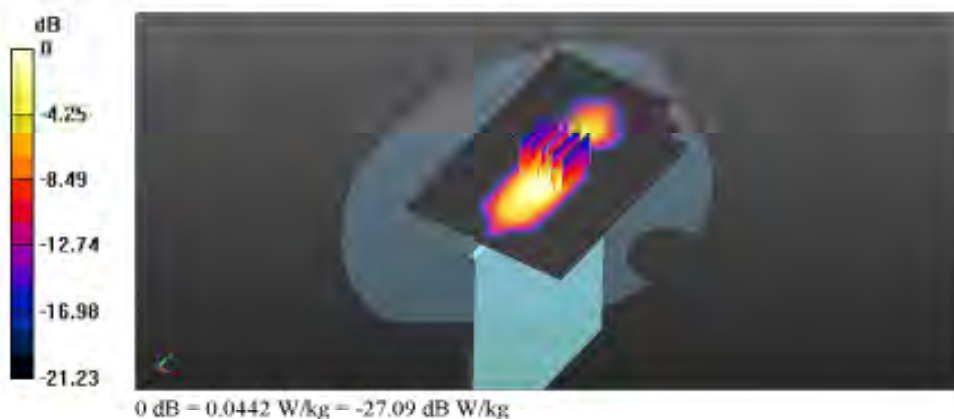
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/GPRS850\_Right Edge\_CH190\_1TX\_Proximity Sensor On(Power Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0520 W/kg

**GPRS850/GPRS850\_Right Edge\_CH190\_1TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.280 V/m; Power Drift = 0.07 dB  
Peak SAR (extrapolated) = 0.058 mW/g  
**SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.014 mW/g**  
Maximum value of SAR (measured) = 0.0442 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Right Edge\_CH190\_2TX\_Proximity Sensor On(Power Back Off).da53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

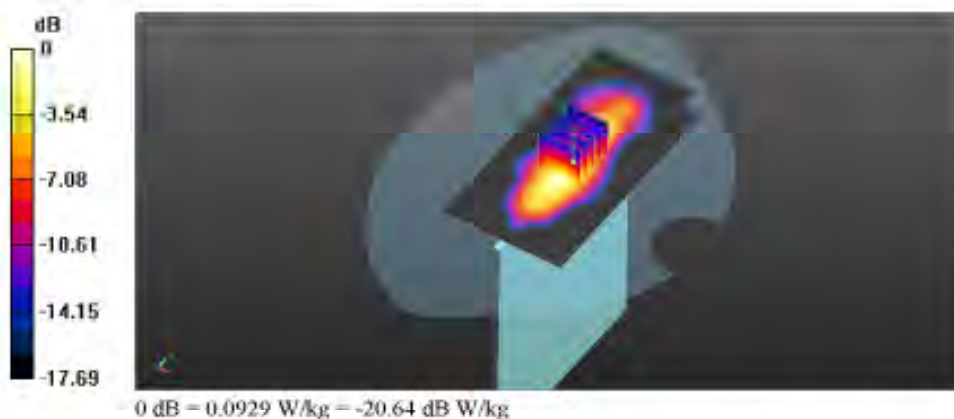
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/GPRS850\_Right Edge\_CH190\_2TX\_Proximity Sensor On(Power Back Off)/Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0954 W/kg

**GPRS850/GPRS850\_Right Edge\_CH190\_2TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 9.193 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 0.126 mW/g  
**SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.032 mW/g**  
Maximum value of SAR (measured) = 0.0929 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Rear\_CH190\_1TX\_Proximity Sensor On(Power Back Off).d53-1

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 1TX; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

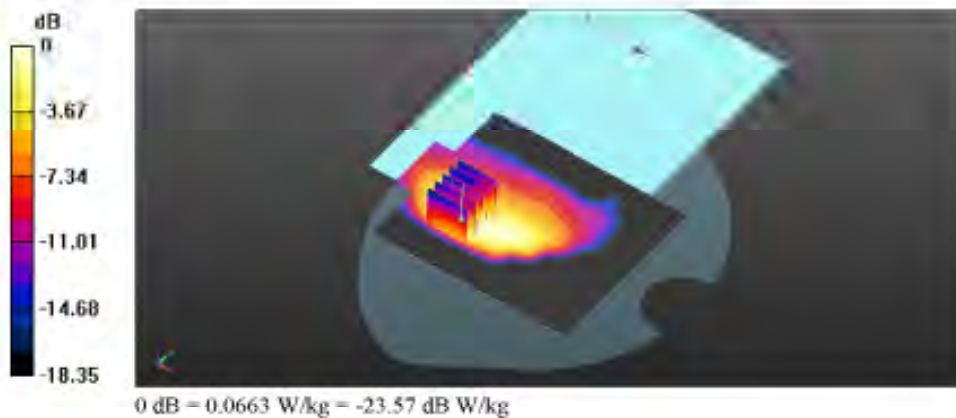
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/EGPRS850\_Rear\_CH190\_1TX\_Proximity Sensor On(Power Back Off)/Area Scan (111x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0685 W/kg

**EGPRS850/EGPRS850\_Rear\_CH190\_1TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 4.480 V/m; Power Drift = 0.18 dB  
Peak SAR (extrapolated) = 0.084 mW/g  
**SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.029 mW/g**  
Maximum value of SAR (measured) = 0.0663 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Rear\_CH190\_2TX\_Proximity Sensor On(Power Back Off).d53-1

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

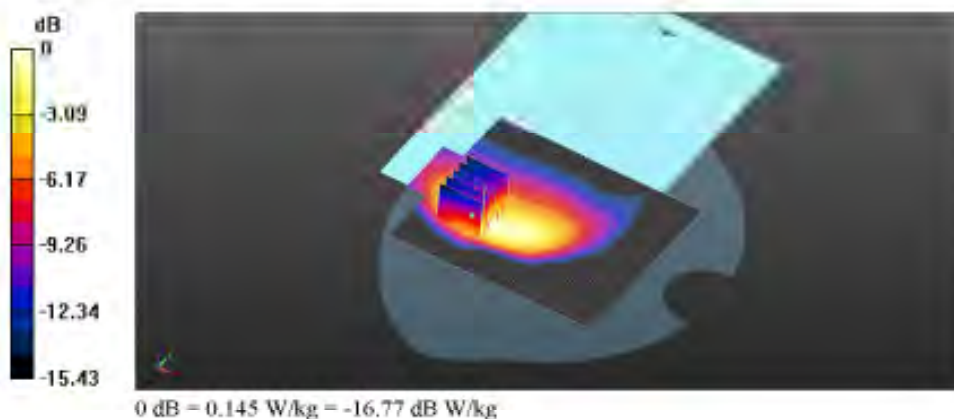
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/EGPRS850\_Rear\_CH190\_2TX\_Proximity Sensor On(Power Back Off)/Area Scan (111x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.136 W/kg

**EGPRS850/EGPRS850\_Rear\_CH190\_2TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.700 V/m; Power Drift = 0.17 dB  
Peak SAR (extrapolated) = 0.182 mW/g  
**SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.061 mW/g**  
Maximum value of SAR (measured) = 0.145 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Right Edge\_CH190\_1TX\_Proximity Sensor On(Power Back Off).da53-0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 1TX; Frequency: 836.6 MHz; Duty Cycle: 1:8,30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

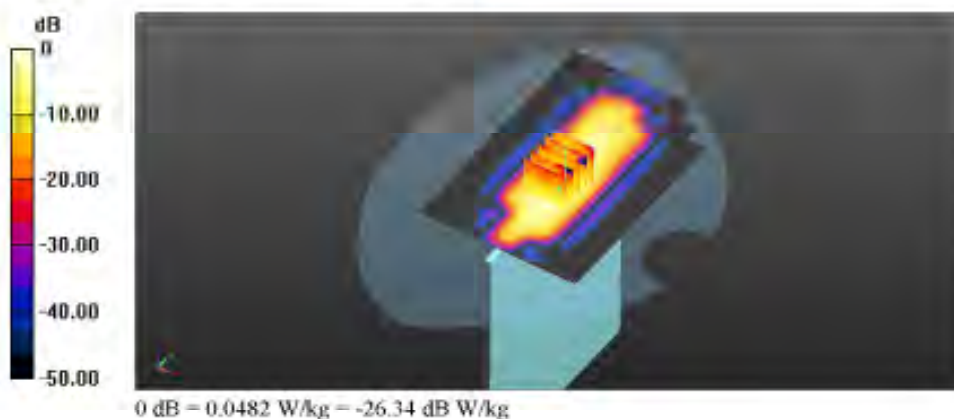
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/EGPRS850\_Right Edge\_CH190\_1TX\_Proximity Sensor On(Power Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0437 W/kg

**EGPRS850/EGPRS850\_Right Edge\_CH190\_1TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.562 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.066 mW/g  
**SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.013 mW/g**  
Maximum value of SAR (measured) = 0.0482 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Right Edge\_CH190\_2TX\_Proximity Sensor On(Power Back Off).da53-0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/EGPRS850\_Right Edge\_CH190\_2TX\_Proximity Sensor On(Power Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

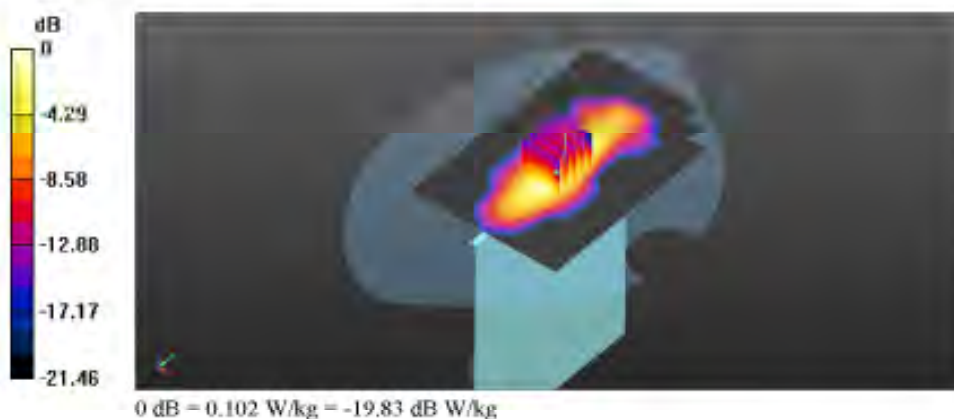
**EGPRS850/EGPRS850\_Right Edge\_CH190\_2TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.685 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.131 mW/g

SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.035 mW/g

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



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Rear\_CH190\_1TX\_Proximity Sensor Off(Power No Back Off) da53-0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K

Communication System: GPRS850 1TX; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

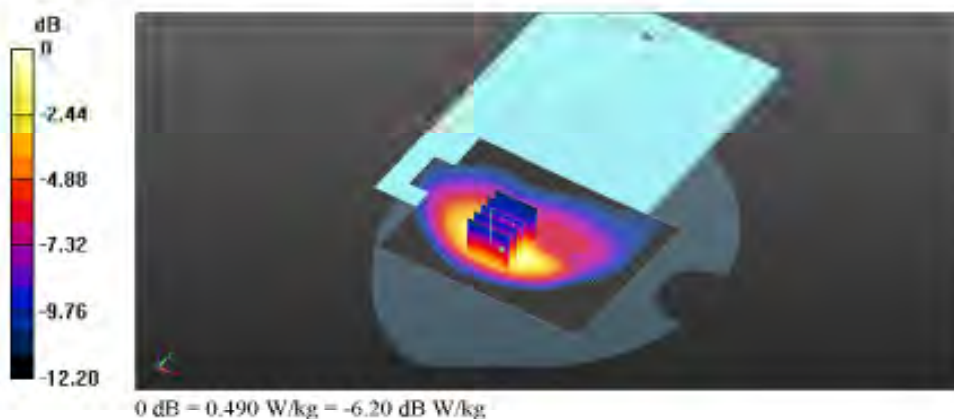
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/GPRS850\_Rear\_CH190\_1TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (111x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.458 W/kg

**GPRS850/GPRS850\_Rear\_CH190\_1TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.594 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 0.592 mW/g  
SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.233 mW/g  
Maximum value of SAR (measured) = 0.490 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Rear\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off) da53-0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

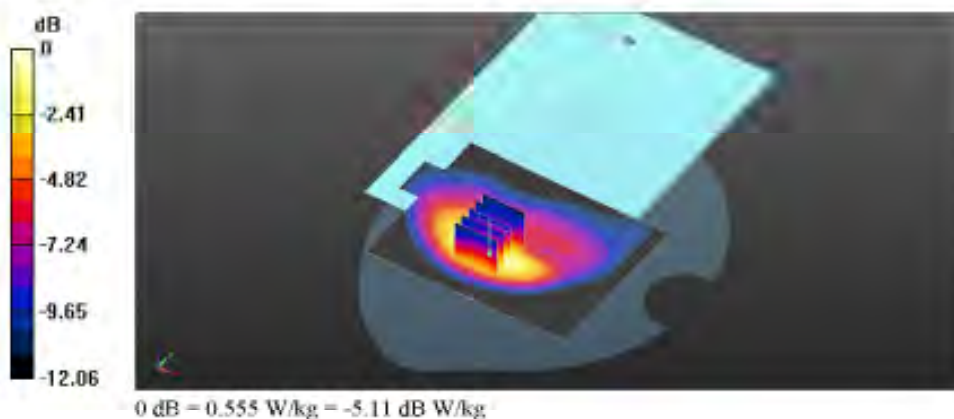
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/GPRS850\_Rear\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (111x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.538 W/kg

**GPRS850/GPRS850\_Rear\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 12.571 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 0.661 mW/g  
**SAR(1 g) = 0.430 mW/g; SAR(10 g) = 0.270 mW/g**  
Maximum value of SAR (measured) = 0.555 W/kg



Date: 2012-11-01

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Right Rear Tilt at 8\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.3 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.937$  mho/m;  $\epsilon_r = 56.641$ ;  $\rho = 1000$  kg/m<sup>3</sup>

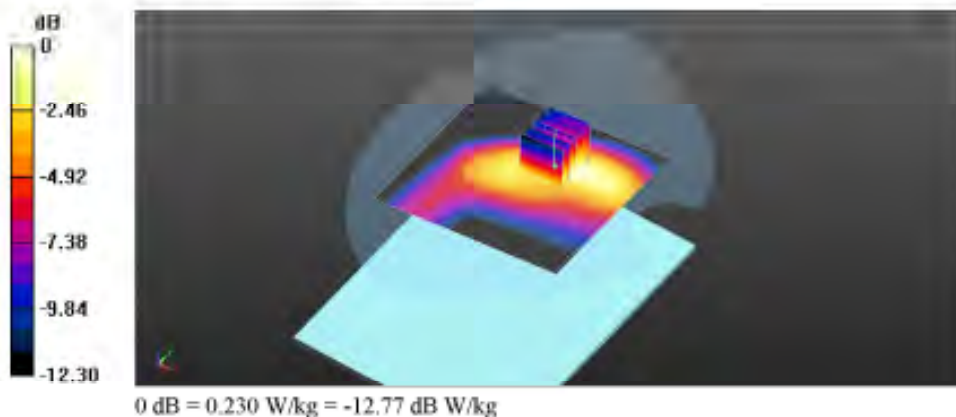
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/Right Rear Tilt at 8 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (91x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.236 W/kg

**GPRS850/Right Rear Tilt at 8 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 13.375 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 0.267 mW/g  
SAR(1 g) = 0.183 mW/g; SAR(10 g) = 0.121 mW/g  
Maximum value of SAR (measured) = 0.230 W/kg



Date: 2012-11-03

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Left Rear Tilt at 15\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.7 °C Tissue Temp : 22.5 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r = 55.057$ ;  $\rho = 1000$  kg/m<sup>3</sup>

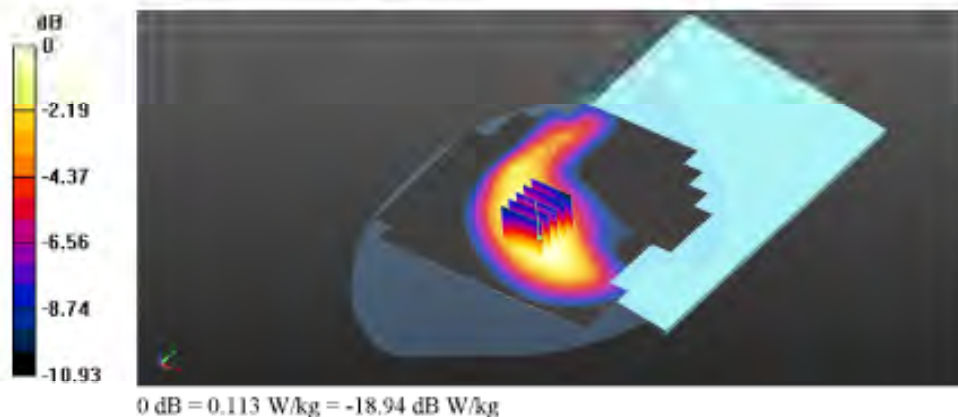
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/Left Rear Tilt at 15 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (121x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.114 W/kg

**GPRS850/Left Rear Tilt at 15 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 10.529 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 0.130 mW/g  
SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.066 mW/g  
Maximum value of SAR (measured) = 0.113 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Right Edge\_CH190\_1TX\_Proximity Sensor Off(Power No Back Off).da53-0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 1TX; Frequency: 836.6 MHz; Duty Cycle: 1:8,30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

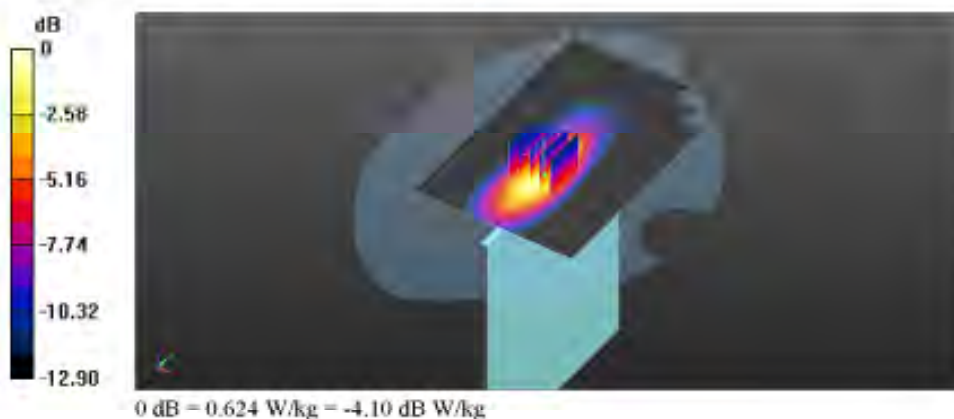
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/GPRS850\_Right Edge\_CH190\_1TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.610 W/kg

**GPRS850/GPRS850\_Right Edge\_CH190\_1TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 25.586 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 0.768 mW/g  
**SAR(1 g) = 0.456 mW/g; SAR(10 g) = 0.265 mW/g**  
Maximum value of SAR (measured) = 0.624 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Right Edge\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off).da53-0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

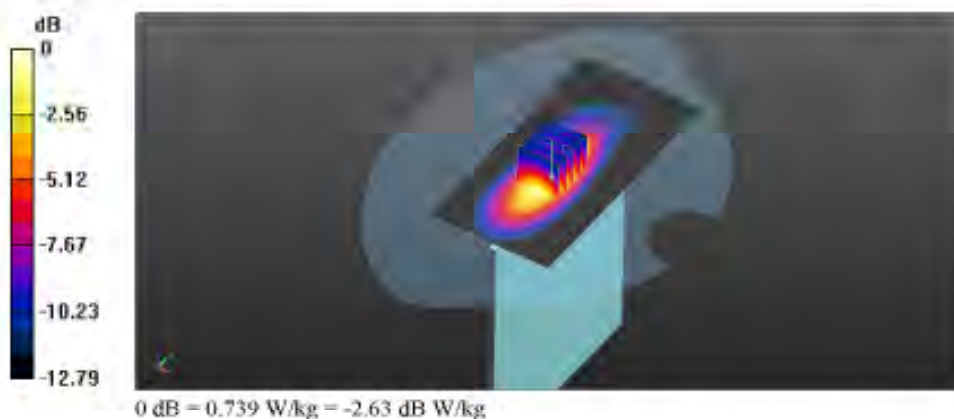
Phantom section: Flat Section

DASY52 Configuration:

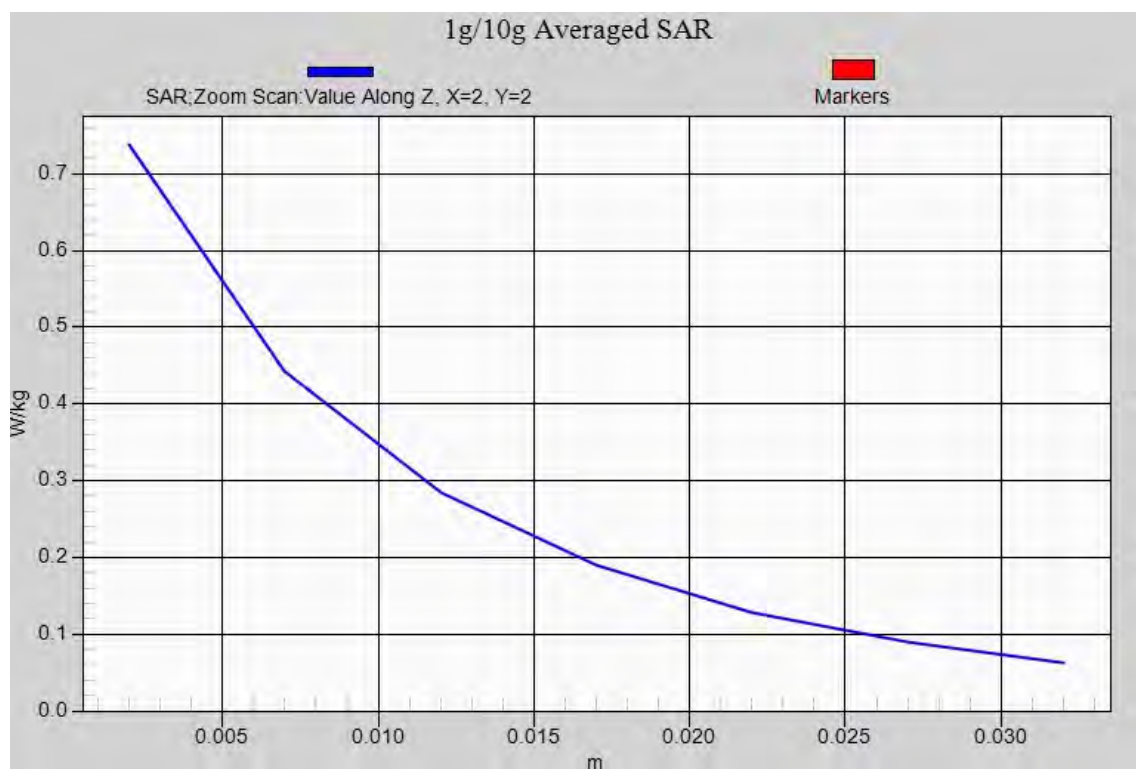
- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/GPRS850\_Right Edge\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.738 W/kg

**GPRS850/GPRS850\_Right Edge\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 28.099 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 0.909 mW/g  
SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.314 mW/g  
Maximum value of SAR (measured) = 0.739 W/kg



## Z Scan



Date: 2012-11-01

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Right Touch Tilt at 3\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.3 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.937$  mho/m;  $\epsilon_r = 56.641$ ;  $\rho = 1000$  kg/m<sup>3</sup>

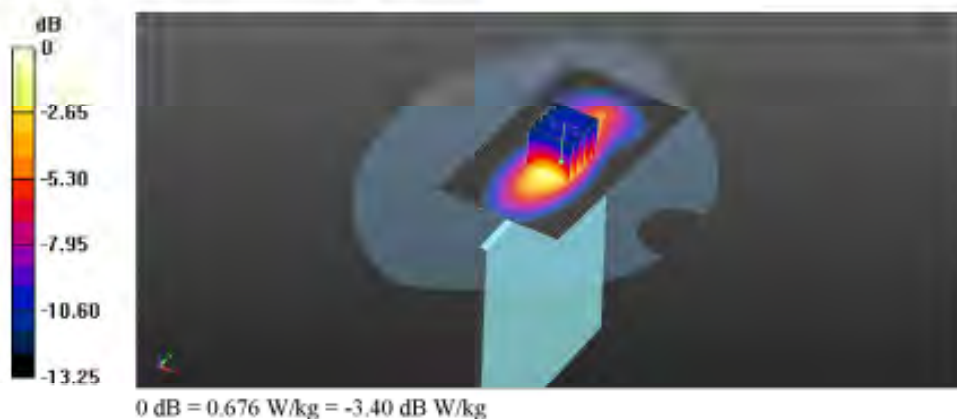
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)/SEMCAD X 14.6.6(6824)

**GPRS850/Right Touch Tilt at 3 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.655 W/kg

**GPRS850/Right Touch Tilt at 3 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 22.958 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 0.853 mW/g  
**SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.273 mW/g**  
Maximum value of SAR (measured) = 0.676 W/kg



Date: 2012-11-03

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Left Touch Tilt at 13\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.7 °C Tissue Temp : 22.5 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r = 55.057$ ;  $\rho = 1000$  kg/m<sup>3</sup>

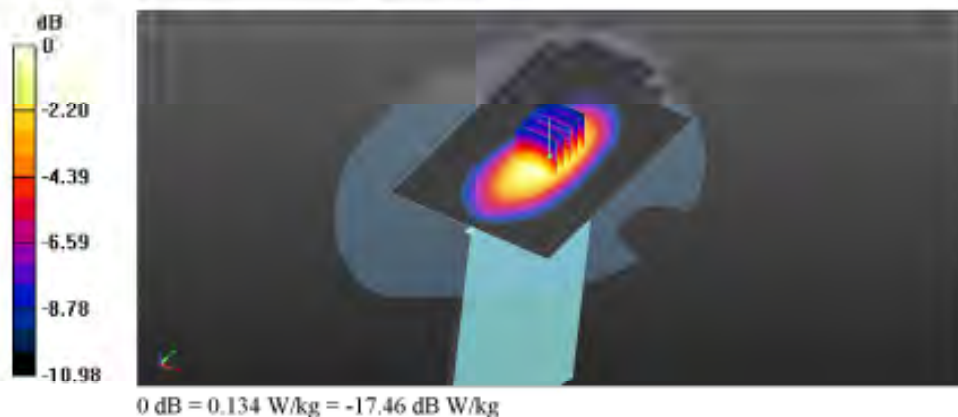
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/Left Touch Tilt at 13 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.138 W/kg

**GPRS850/Left Touch Tilt at 13 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 10.914 V/m; Power Drift = -0.10 dB  
Peak SAR (extrapolated) = 0.156 mW/g  
**SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.072 mW/g**  
Maximum value of SAR (measured) = 0.134 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Bottom\_CH190\_1TX\_Proximity Sensor Off(No Power Back Off).da53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 1TX; Frequency: 836.6 MHz; Duty Cycle: 1:8,30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

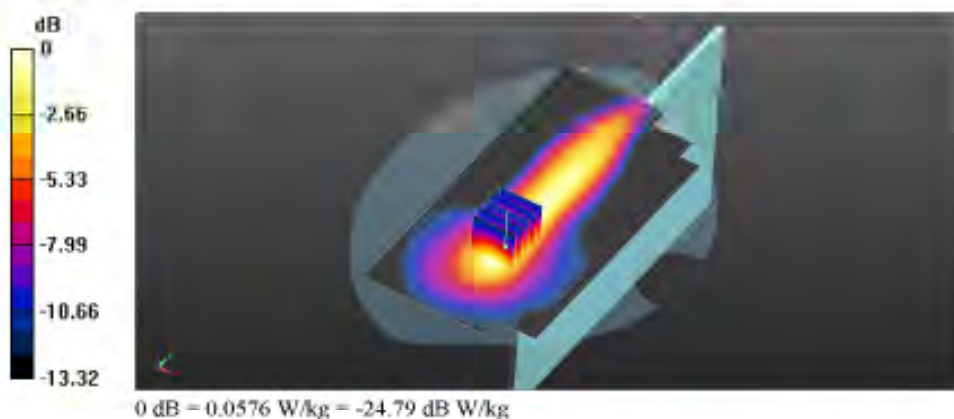
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/GPRS850\_Bottom\_CH190\_1TX\_Proximity Sensor Off(No Power Back Off)/Area Scan (81x161x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0609 W/kg

**GPRS850/GPRS850\_Bottom\_CH190\_1TX\_Proximity Sensor Off(No Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.407 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 0.072 mW/g  
**SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.024 mW/g**  
Maximum value of SAR (measured) = 0.0576 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS850\_Bottom\_CH190\_2TX\_Proximity Sensor Off(No Power Back Off).da53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

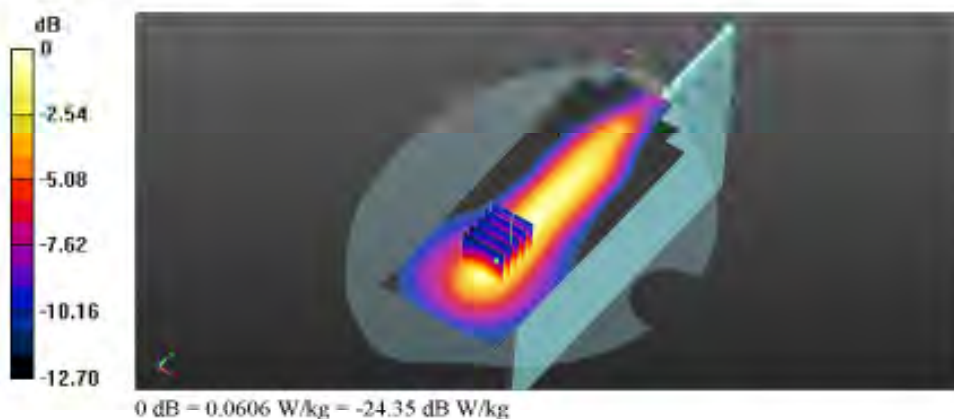
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS850/GPRS850\_Bottom\_CH190\_2TX\_Proximity Sensor Off(No Power Back Off)/Area Scan (61x161x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0593 W/kg

**GPRS850/GPRS850\_Bottom\_CH190\_2TX\_Proximity Sensor Off(No Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.926 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.075 mW/g  
**SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.028 mW/g**  
Maximum value of SAR (measured) = 0.0606 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Rear\_CH190\_1TX\_Proximity Sensor Off(Power No Back Off) dn53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 1TX; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

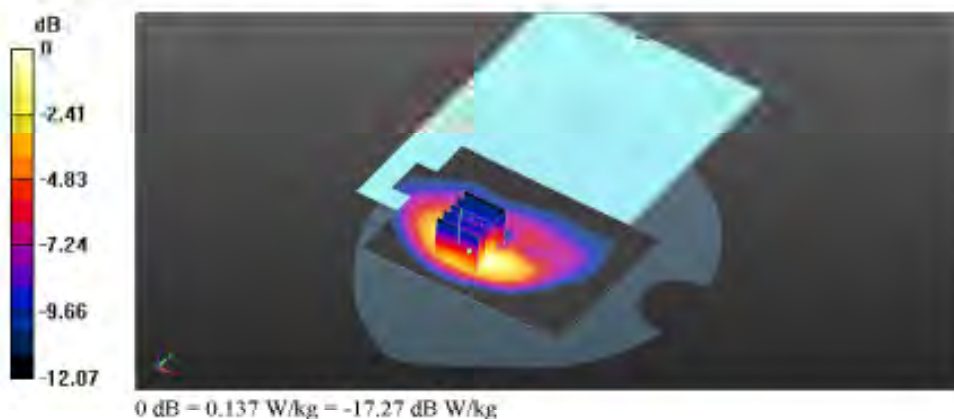
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/EGPRS850\_Rear\_CH190\_1TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (111x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.145 W/kg

**EGPRS850/EGPRS850\_Rear\_CH190\_1TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 5.892 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 0.170 mW/g  
**SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.066 mW/g**  
Maximum value of SAR (measured) = 0.137 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Rear\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

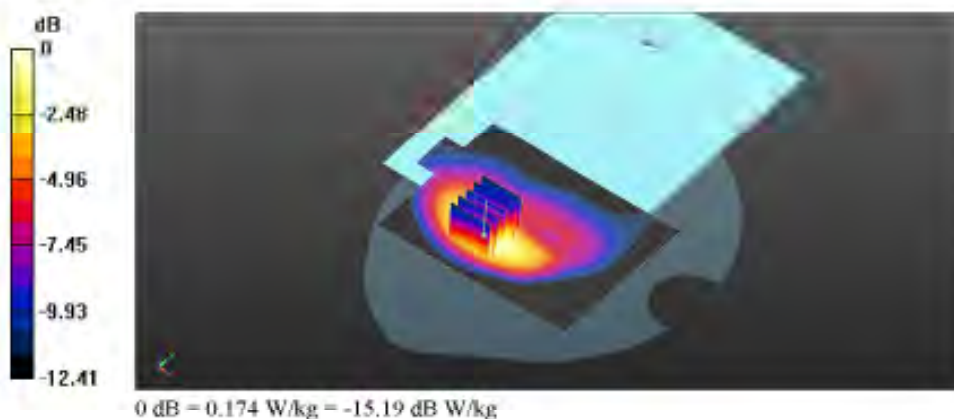
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/EGPRS850\_Rear\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (111x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.161 W/kg

**EGPRS850/EGPRS850\_Rear\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.636 V/m; Power Drift = -0.06 dB  
Peak SAR (extrapolated) = 0.209 mW/g  
**SAR(1 g) = 0.134 mW/g; SAR(10 g) = 0.084 mW/g**  
Maximum value of SAR (measured) = 0.174 W/kg



Date: 2012-11-01

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Right Rear Tilt at 8\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.3 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.937$  mho/m;  $\epsilon_r = 56.641$ ;  $\rho = 1000$  kg/m<sup>3</sup>

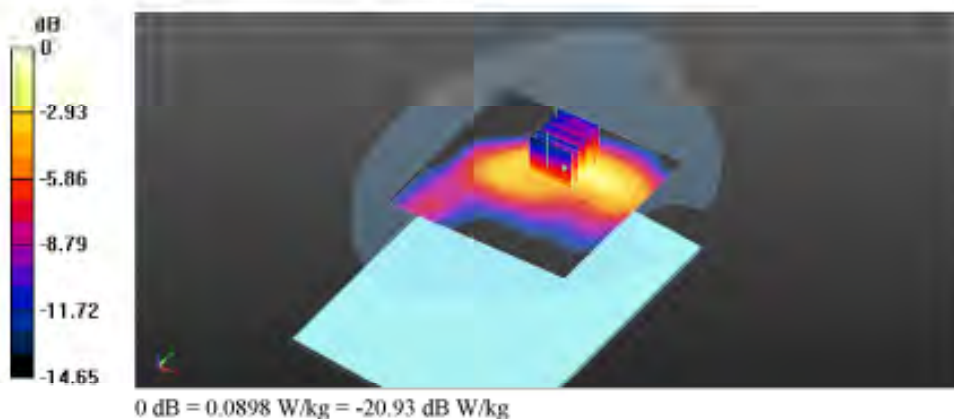
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/Right Rear Tilt at 8 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (91x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0734 W/kg

**EGPRS850/Right Rear Tilt at 8 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.506 V/m; Power Drift = 0.08 dB  
Peak SAR (extrapolated) = 0.102 mW/g  
**SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.037 mW/g**  
Maximum value of SAR (measured) = 0.0898 W/kg



Date: 2012-11-03

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Left Rear Tilt at 15\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.7 °C Tissue Temp : 22.5 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r = 55.057$ ;  $\rho = 1000$  kg/m<sup>3</sup>

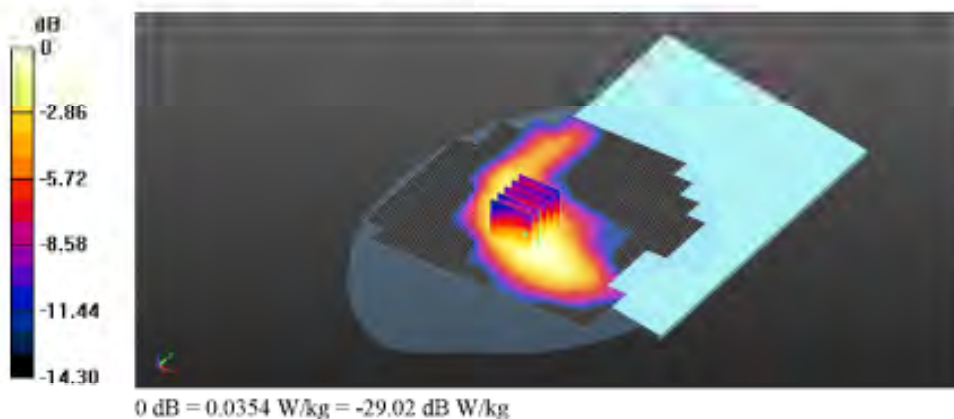
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/Left Rear Tilt at 15 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (121x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0345 W/kg

**EGPRS850/Left Rear Tilt at 15 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 5.579 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 0.043 mW/g  
SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.019 mW/g  
Maximum value of SAR (measured) = 0.0354 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Right Edge\_CH190\_1TX\_Proximity Sensor Off(Power No Back Off) da53-0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K

Communication System: GPRS850 1TX; Frequency: 836.6 MHz; Duty Cycle: 1:8,30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

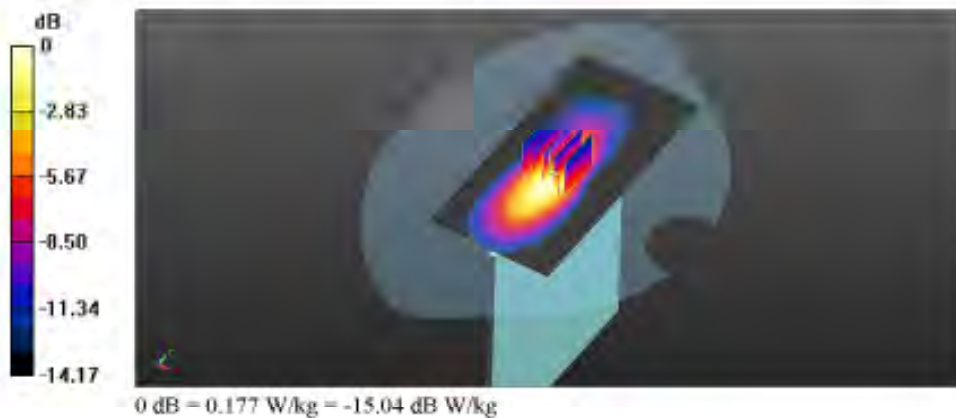
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/EGPRS850\_Right Edge\_CH190\_1TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 0.180 W/kg

**EGPRS850/EGPRS850\_Right Edge\_CH190\_1TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 13.959 V/m; Power Drift = -0.03 dB  
 Peak SAR (extrapolated) = 0.220 mW/g  
 SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.076 mW/g  
 Maximum value of SAR (measured) = 0.177 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Right Edge\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off) da53-0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

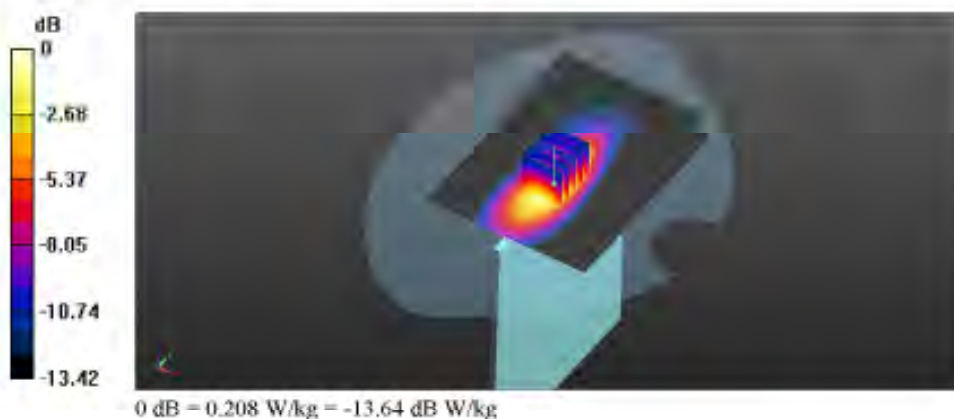
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/EGPRS850\_Right Edge\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.213 W/kg

**EGPRS850/EGPRS850\_Right Edge\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 15.117 V/m; Power Drift = -0.04 dB  
Peak SAR (extrapolated) = 0.256 mW/g  
**SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.088 mW/g**  
Maximum value of SAR (measured) = 0.208 W/kg



Date: 2012-11-01

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Right Touch Tilt at 3\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.3 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.937$  mho/m;  $\epsilon_r = 56.641$ ;  $\rho = 1000$  kg/m<sup>3</sup>

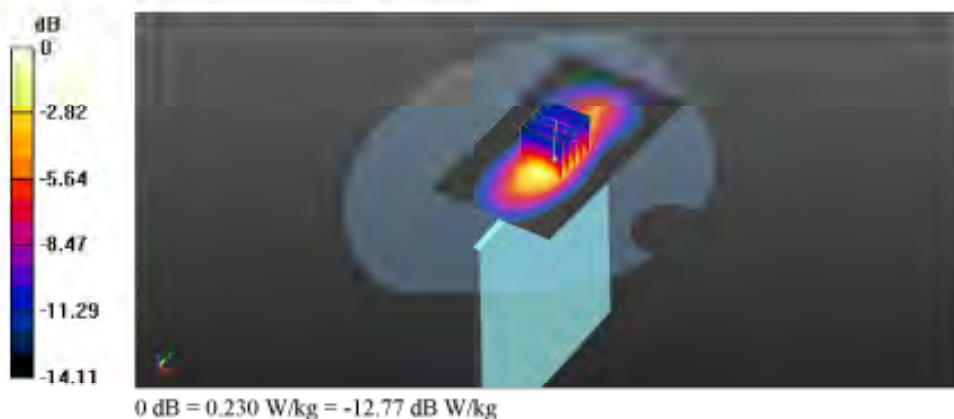
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/Right Touch Tilt at 3 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.206 W/kg

**EGPRS850/Right Touch Tilt at 3 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 12.680 V/m; Power Drift = -0.04 dB  
Peak SAR (extrapolated) = 0.304 mW/g  
**SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.090 mW/g**  
Maximum value of SAR (measured) = 0.230 W/kg



Date: 2012-11-03

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Left Touch Tilt at 13\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.7 °C Tissue Temp : 22.5 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r = 55.057$ ;  $\rho = 1000$  kg/m<sup>3</sup>

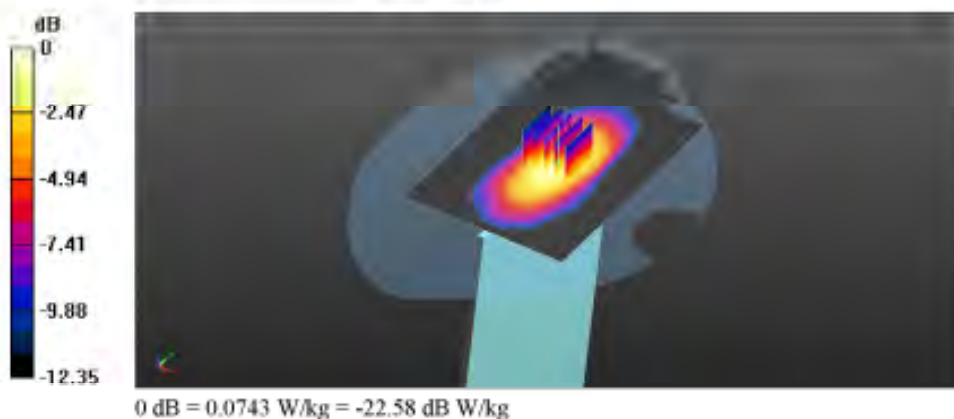
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/Left Touch Tilt at 13 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0676 W/kg

**EGPRS850/Left Touch Tilt at 13 Degree\_CH190\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.848 V/m; Power Drift = -0.17 dB  
Peak SAR (extrapolated) = 0.090 mW/g  
SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.038 mW/g  
Maximum value of SAR (measured) = 0.0743 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Bottom\_CH190\_1TX\_Proximity Sensor Off(No Power Back Off).da53-0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K

Communication System: GPRS850 1TX; Frequency: 836.6 MHz; Duty Cycle: 1:8,30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

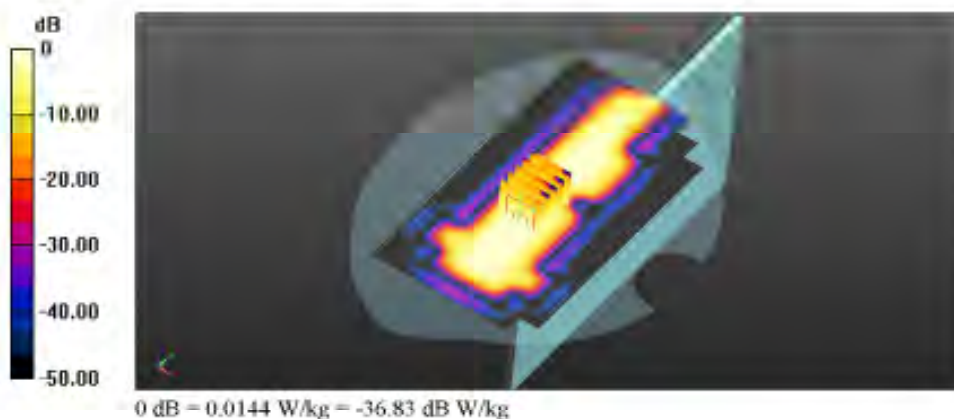
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/EGPRS850\_Bottom\_CH190\_1TX\_Proximity Sensor Off(No Power Back Off)/Area Scan (81x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0165 W/kg

**EGPRS850/EGPRS850\_Bottom\_CH190\_1TX\_Proximity Sensor Off(No Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 3.624 V/m; Power Drift = 0.14 dB  
Peak SAR (extrapolated) = 0.018 mW/g  
**SAR(1 g) = 0.00968 mW/g; SAR(10 g) = 0.00525 mW/g**  
Maximum value of SAR (measured) = 0.0144 W/kg



Date: 2012-10-31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS850\_Bottom\_CH190\_2TX\_Proximity Sensor Off(No Power Back Off).da53-0

Ambient Temp : 23.4 °C Tissue Temp : 22.2 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS850 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r = 55.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

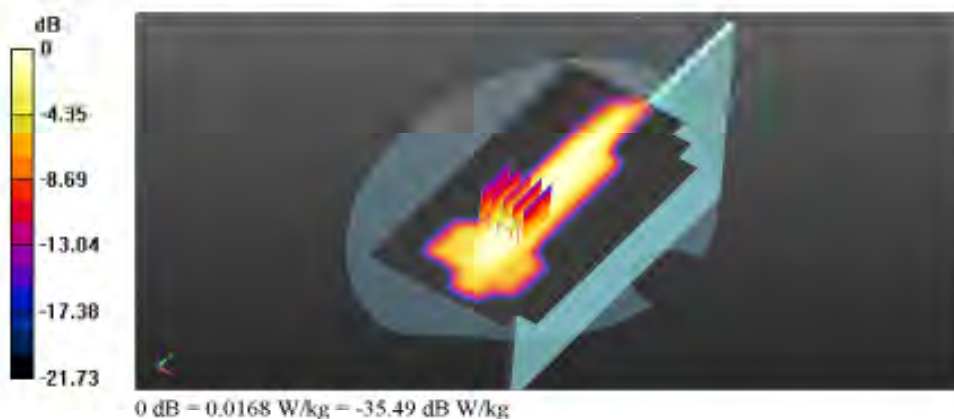
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS850/EGPRS850\_Bottom\_CH190\_2TX\_Proximity Sensor Off(No Power Back Off)/Area Scan (81x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0215 W/kg

**EGPRS850/EGPRS850\_Bottom\_CH190\_2TX\_Proximity Sensor Off(No Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 4.197 V/m; Power Drift = -0.04 dB  
Peak SAR (extrapolated) = 0.023 mW/g  
**SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00718 mW/g**  
Maximum value of SAR (measured) = 0.0168 W/kg



## GSM1900 Body Test

Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Rear\_CH661\_1TX\_Proximity Sensor On(Power Back Off) da53-0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 1TX; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

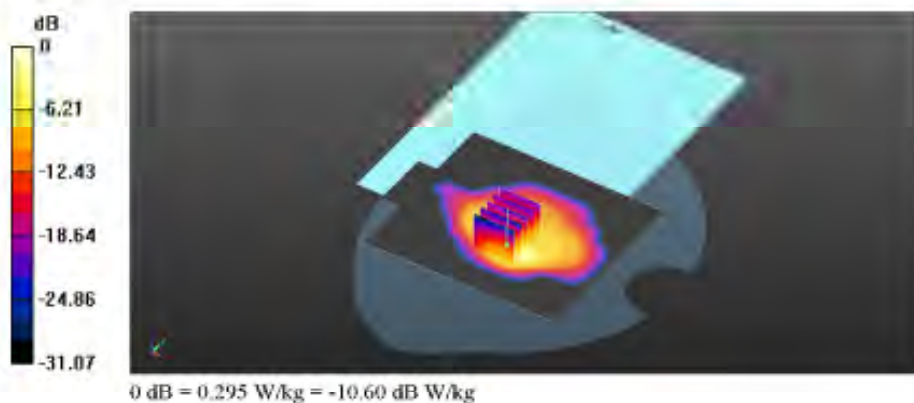
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY 52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/GPRS1900\_Rear\_CH661\_1TX\_Proximity Sensor On(Power Back Off)/Area Scan (111x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 0.283 W/kg

**GPRS1900/GPRS1900\_Rear\_CH661\_1TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 7.075 V/m; Power Drift = 0.16 dB  
 Peak SAR (extrapolated) = 0.399 mW/g  
**SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.083 mW/g**  
 Maximum value of SAR (measured) = 0.295 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Rear\_CH661\_2TX\_Proximity Sensor On(Power Back Off).da53-0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720

- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/GPRS1900\_Rear\_CH661\_2TX\_Proximity Sensor On(Power Back Off)/Area Scan (111x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.563 W/kg

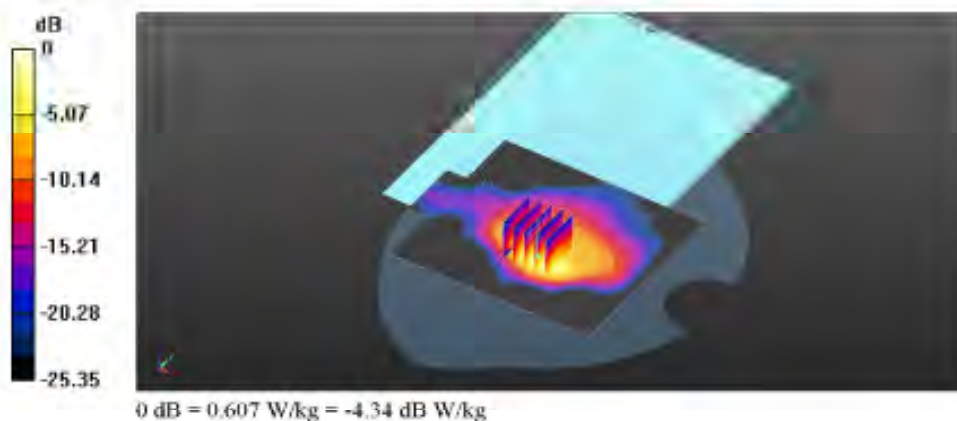
**GPRS1900/GPRS1900\_Rear\_CH661\_2TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.252 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.830 mW/g

**SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.172 mW/g**

Maximum value of SAR (measured) = 0.607 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Right Edge\_CH661\_1TX\_Proximity Sensor On(Power Back Off).da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 1TX; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/GPRS1900\_Right Edge\_CH661\_1TX\_Proximity Sensor On(Power Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.213 W/kg

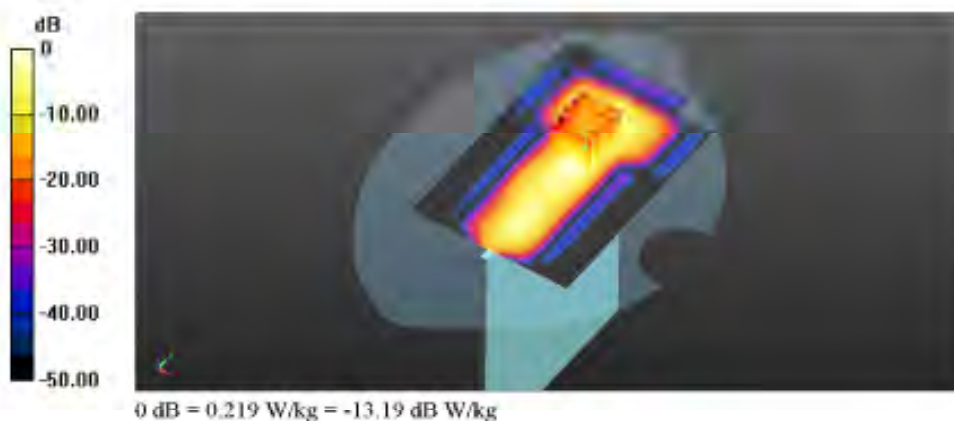
**GPRS1900/GPRS1900\_Right Edge\_CH661\_1TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.384 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.289 mW/g

**SAR(1 g) = 0.136 mW/g; SAR(10 g) = 0.061 mW/g**

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



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Right Edge\_CH661\_2TX\_Proximity Sensor On(Power Back Off).da53:0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/GPRS1900\_Right Edge\_CH661\_2TX\_Proximity Sensor On(Power Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.427 W/kg

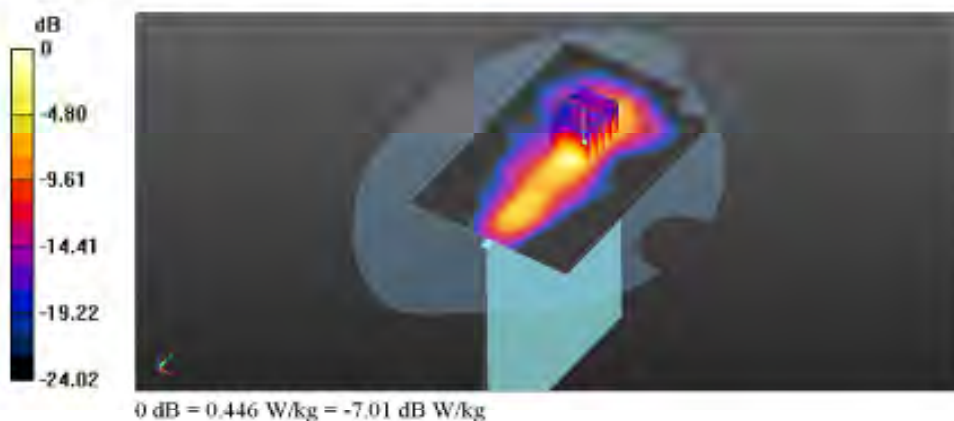
**GPRS1900/GPRS1900\_Right Edge\_CH661\_2TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.617 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.584 mW/g

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.127 mW/g

Maximum value of SAR (measured) = 0.446 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Rear\_CH661\_1TX\_Proximity Sensor On(Power Back Off) da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 1TX; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

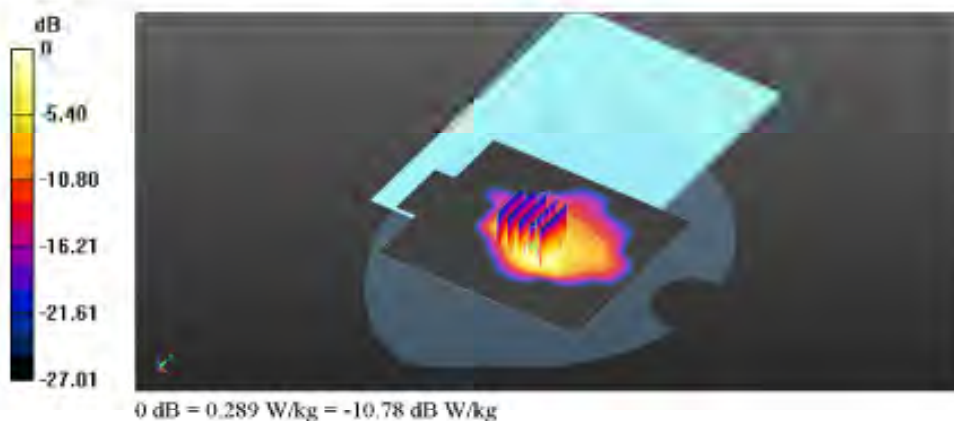
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/EGPRS1900\_Rear\_CH661\_1TX\_Proximity Sensor On(Power Back Off)/Area Scan (111x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.283 W/kg

**EGPRS1900/EGPRS1900\_Rear\_CH661\_1TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 8.390 V/m; Power Drift = 0.08 dB  
Peak SAR (extrapolated) = 0.409 mW/g  
**SAR(1 g) = 0.190 mW/g; SAR(10 g) = 0.089 mW/g**  
Maximum value of SAR (measured) = 0.289 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Rear\_CH661\_2TX\_Proximity Sensor On(Power Back Off) da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

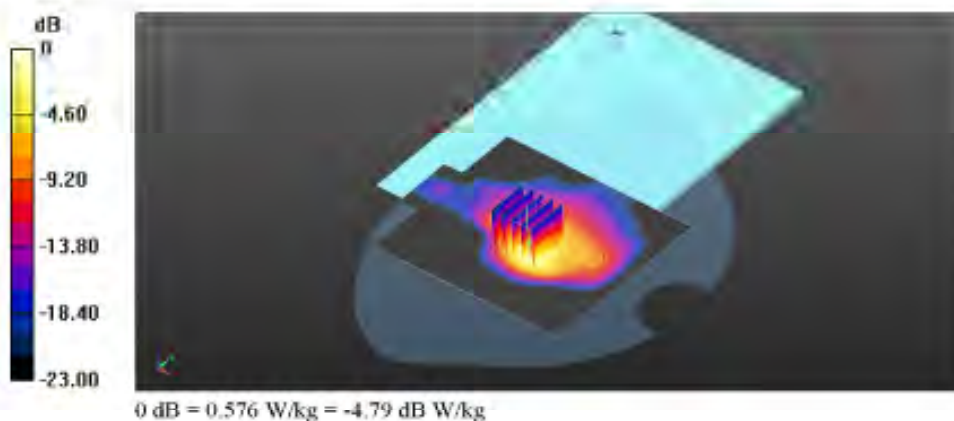
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/EGPRS1900\_Rear\_CH661\_2TX\_Proximity Sensor On(Power Back Off)/Area Scan (111x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.567 W/kg

**EGPRS1900/EGPRS1900\_Rear\_CH661\_2TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.942 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 0.822 mW/g  
**SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.185 mW/g**  
Maximum value of SAR (measured) = 0.576 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Right Edge\_CH661\_1TX\_Proximity Sensor On(Power Back Off).da53.d

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 1TX; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

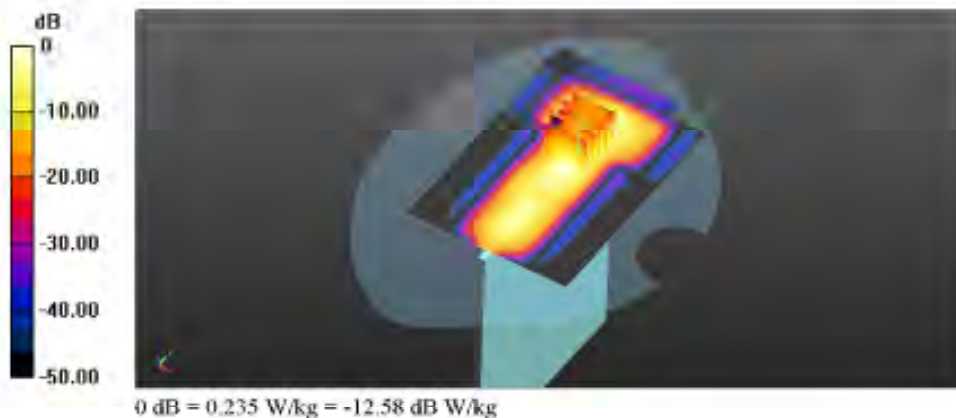
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/EGPRS1900\_Right Edge\_CH661\_1TX\_Proximity Sensor On(Power Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.232 W/kg

**EGPRS1900/EGPRS1900\_Right Edge\_CH661\_1TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 5.396 V/m; Power Drift = -0.07 dB  
Peak SAR (extrapolated) = 0.314 mW/g  
**SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.066 mW/g**  
Maximum value of SAR (measured) = 0.235 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Right Edge\_CH661\_2TX\_Proximity Sensor On(Power Back Off).da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

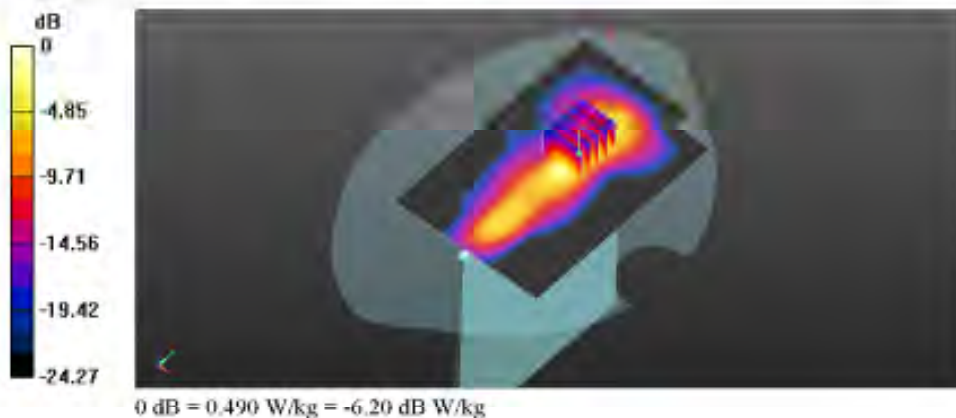
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/EGPRS1900\_Right Edge\_CH661\_2TX\_Proximity Sensor On(Power Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.467 W/kg

**EGPRS1900/EGPRS1900\_Right Edge\_CH661\_2TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.814 V/m; Power Drift = 0.07 dB  
Peak SAR (extrapolated) = 0.642 mW/g  
**SAR(1 g) = 0.307 mW/g; SAR(10 g) = 0.139 mW/g**  
Maximum value of SAR (measured) = 0.490 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Rear\_CH661\_1TX\_Proximity Sensor Off(Power No Back Off).da53-1

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 1TX; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

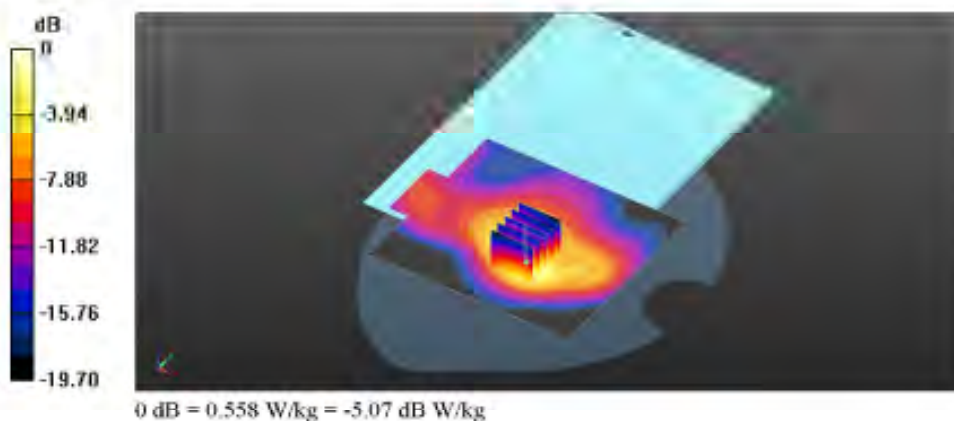
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/GPRS1900\_Rear\_CH661\_1TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (111x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.549 W/kg

**GPRS1900/GPRS1900\_Rear\_CH661\_1TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.773 V/m; Power Drift = -0.00 dB  
Peak SAR (extrapolated) = 0.720 mW/g  
**SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.206 mW/g**  
Maximum value of SAR (measured) = 0.558 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Rear\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off).da53-1

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

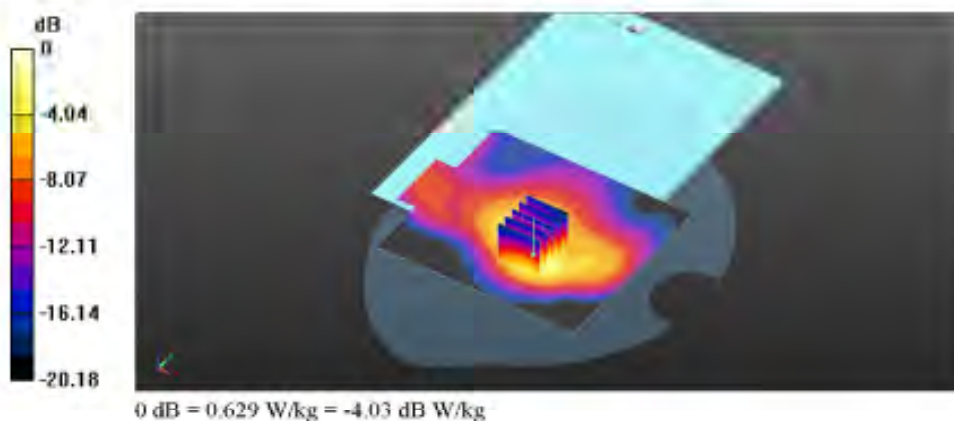
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/GPRS1900\_Rear\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (111x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.613 W/kg

**GPRS1900/GPRS1900\_Rear\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 12.333 V/m; Power Drift = -0.00 dB  
Peak SAR (extrapolated) = 0.811 mW/g  
**SAR(1 g) = 0.435 mW/g; SAR(10 g) = 0.232 mW/g**  
Maximum value of SAR (measured) = 0.629 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Right Rear Tilt at 8\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 54.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

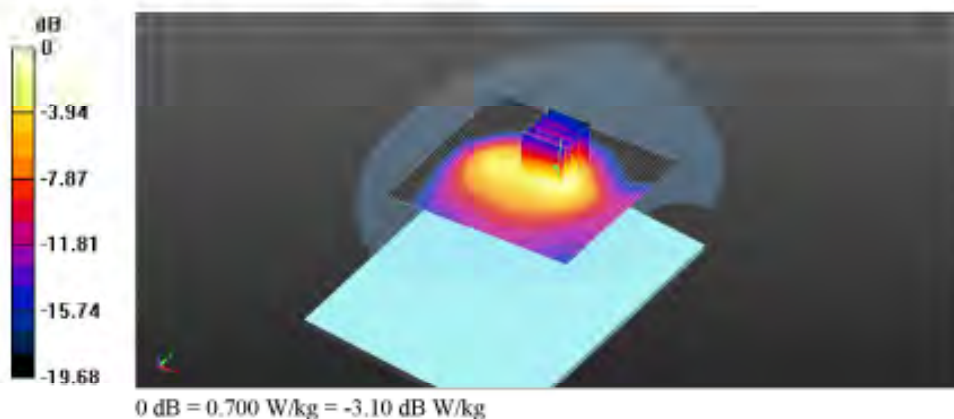
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/Right Rear Tilt at 8 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (91x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.703 W/kg

**GPRS1900/Right Rear Tilt at 8 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 20.309 V/m; Power Drift = -0.04 dB  
Peak SAR (extrapolated) = 0.898 mW/g  
SAR(1 g) = 0.509 mW/g; SAR(10 g) = 0.284 mW/g  
Maximum value of SAR (measured) = 0.700 W/kg



Date: 2012-11-02

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Left Rear Tilt at 15\_CH661\_2TX\_Proximity Sensor Off/Power No Back Off.da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.5 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 52.399$ ;  $\rho = 1000$  kg/m<sup>3</sup>

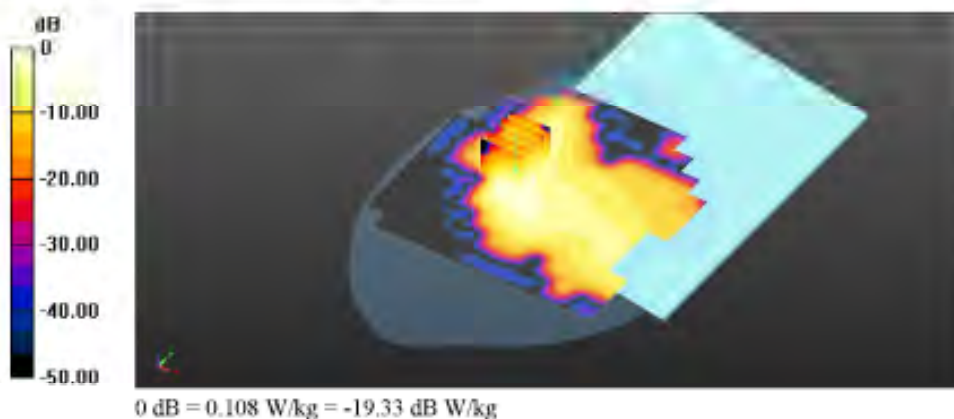
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/Left Rear Tilt at 15 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (121x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.105 W/kg

**GPRS1900/Left Rear Tilt at 15 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 5.577 V/m; Power Drift = 0.08 dB  
Peak SAR (extrapolated) = 0.129 mW/g  
SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.042 mW/g  
Maximum value of SAR (measured) = 0.108 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Right Edge\_CH661\_1TX\_Proximity Sensor Off(Power No Back Off).da53-0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 1TX; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

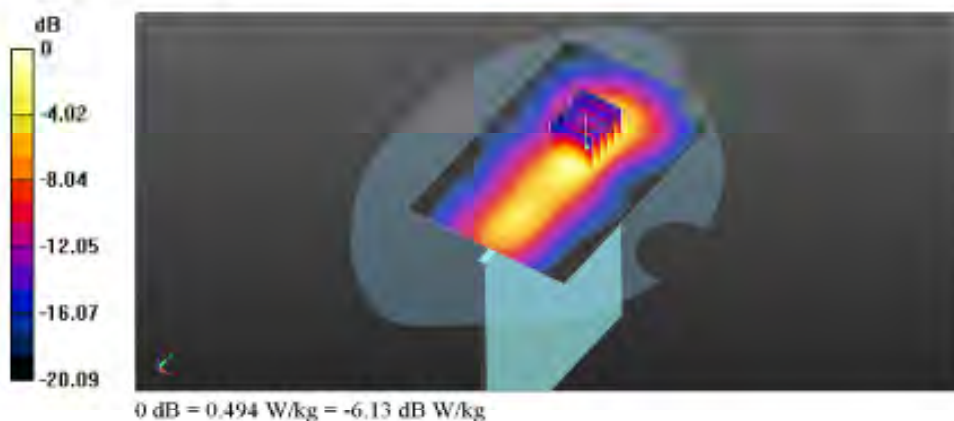
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/GPRS1900\_Right Edge\_CH661\_1TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.467 W/kg

**GPRS1900/GPRS1900\_Right Edge\_CH661\_1TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 10.981 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 0.638 mW/g  
**SAR(1 g) = 0.359 mW/g; SAR(10 g) = 0.188 mW/g**  
Maximum value of SAR (measured) = 0.494 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Right Edge\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off).da53-1

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

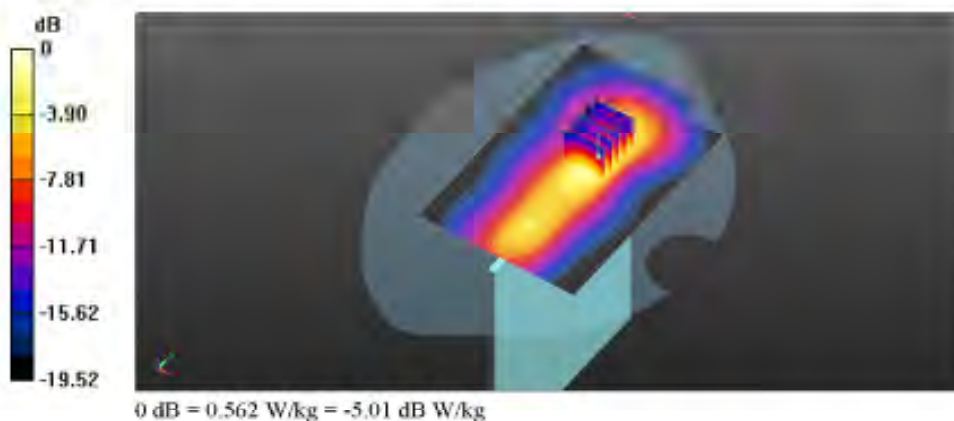
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/GPRS1900\_Right Edge\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.522 W/kg

**GPRS1900/GPRS1900\_Right Edge\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.642 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 0.720 mW/g  
**SAR(1 g) = 0.404 mW/g; SAR(10 g) = 0.210 mW/g**  
Maximum value of SAR (measured) = 0.562 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Right Touch Tilt at 3 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500TIC; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 54.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

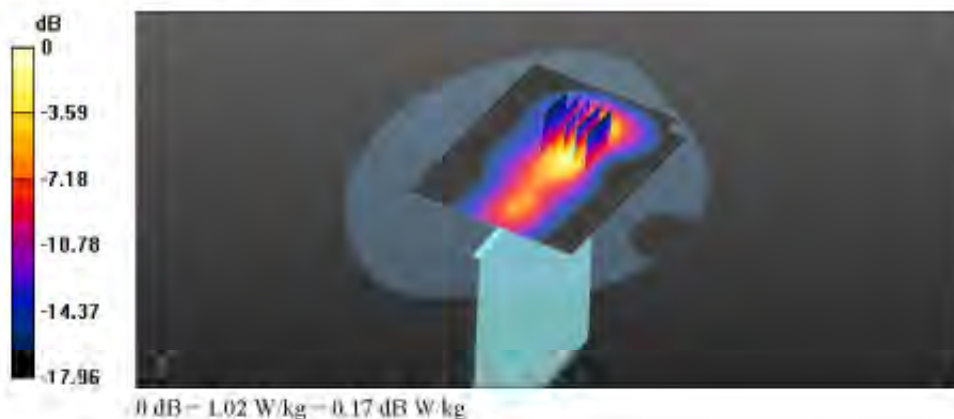
Phantom section: Flat Section

DASY52 Configuration

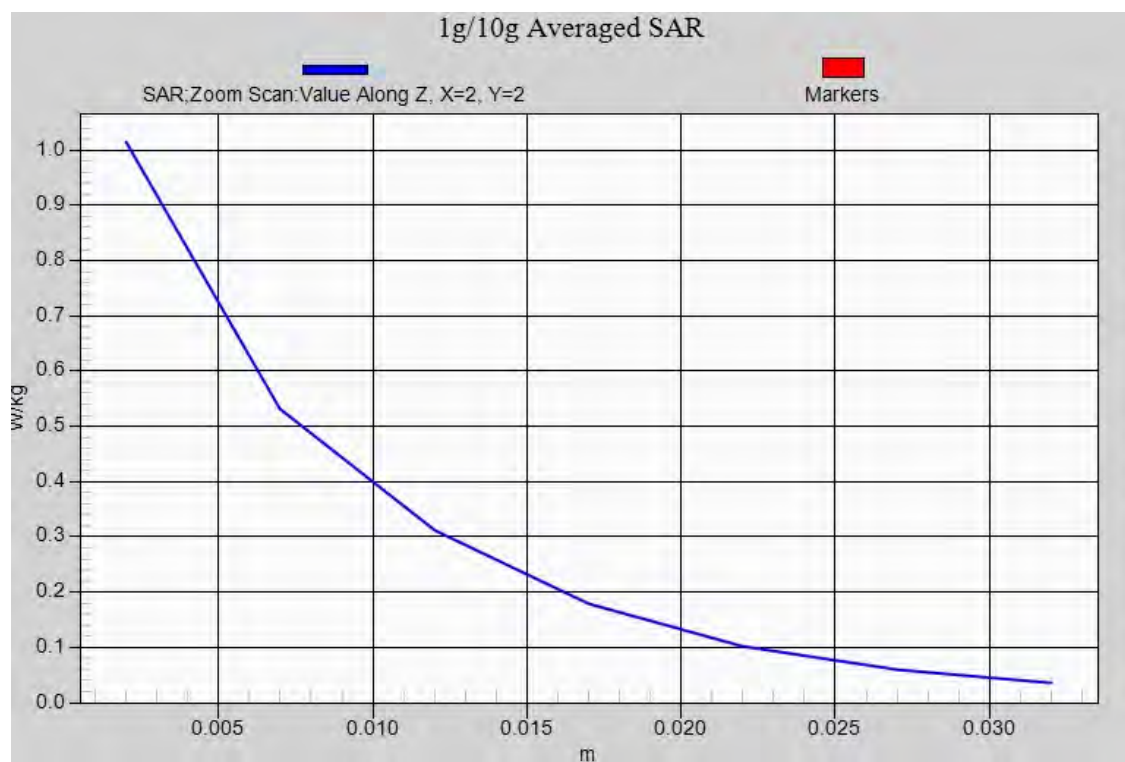
- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/Right Touch Tilt at 3 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.841 W/kg

**GPRS1900/Right Touch Tilt at 3 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.715 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 1.284 mW/g  
**SAR(1 g) = 0.680 mW/g; SAR(10 g) = 0.345 mW/g**  
Maximum value of SAR (measured) = 1.02 W/kg



## Z Scan



Date: 2012-11-02

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Left Touch Tilt at 13\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.5 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 52.399$ ;  $\rho = 1000$  kg/m<sup>3</sup>

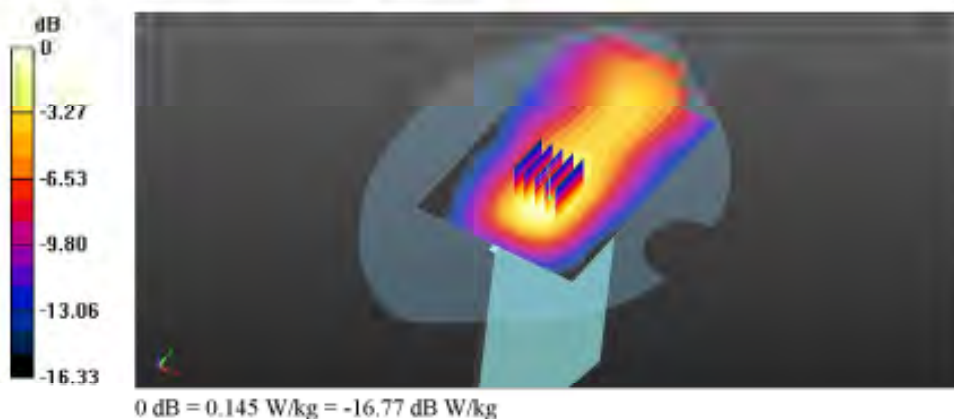
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/Left Touch Tilt at 13 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.141 W/kg

**GPRS1900/Left Touch Tilt at 13 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 9.032 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 0.176 mW/g  
**SAR(1 g) = 0.109 mW/g; SAR(10 g) = 0.065 mW/g**  
Maximum value of SAR (measured) = 0.145 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: GPRS1900\_Bottom\_CH661\_1TX\_Proximity Sensor On(Power Back Off) da53-0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 1TX; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

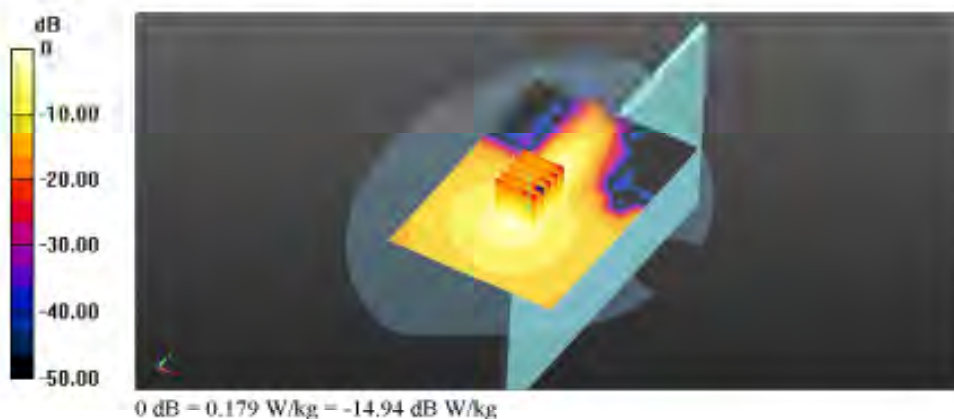
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/GPRS1900\_Bottom\_CH661\_1TX\_Proximity Sensor On(Power Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.164 W/kg

**GPRS1900/GPRS1900\_Bottom\_CH661\_1TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 10.096 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 0.230 mW/g  
**SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.058 mW/g**  
Maximum value of SAR (measured) = 0.179 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gimpo Laboratory)

File Name: GPRS1900\_Bottom\_CH661\_2TX\_Proximity Sensor On(Power Back Off) da53-0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

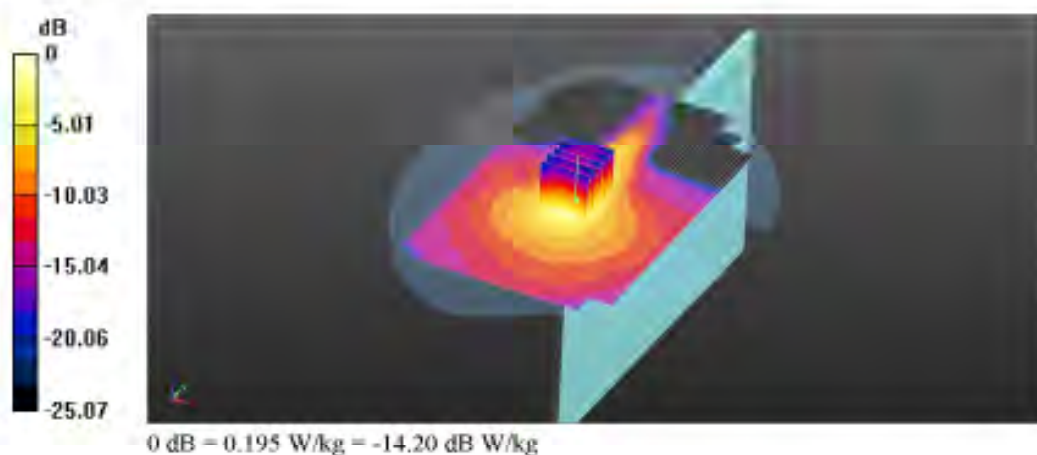
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**GPRS1900/GPRS1900\_Bottom\_CH661\_2TX\_Proximity Sensor On(Power Back Off)/Area Scan (91x151x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
 Maximum value of SAR (interpolated) = 0.149 W/kg

**GPRS1900/GPRS1900\_Bottom\_CH661\_2TX\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 10.604 V/m; Power Drift = 0.05 dB  
 Peak SAR (extrapolated) = 0.251 mW/g  
**SAR(1 g) = 0.129 mW/g; SAR(10 g) = 0.065 mW/g**  
 Maximum value of SAR (measured) = 0.195 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Rear\_CH661\_1TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 1TX; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

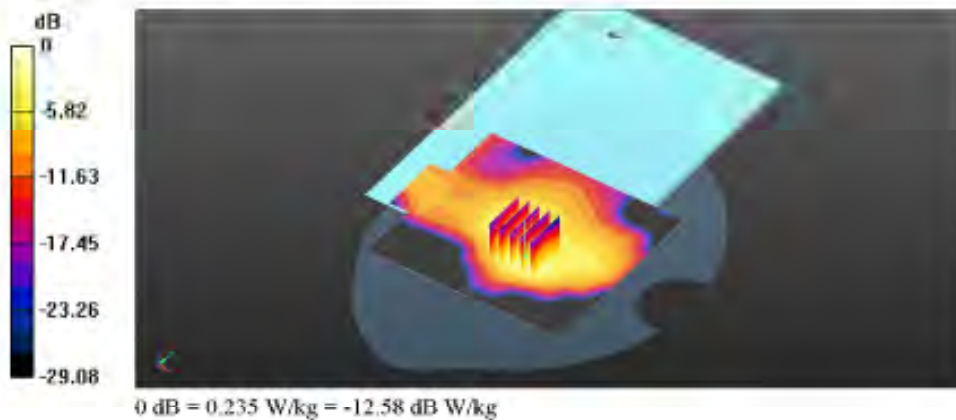
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/EGPRS1900\_Rear\_CH661\_1TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (111x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.216 W/kg

**EGPRS1900/EGPRS1900\_Rear\_CH661\_1TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 8.565 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 0.308 mW/g  
**SAR(1 g) = 0.163 mW/g; SAR(10 g) = 0.086 mW/g**  
Maximum value of SAR (measured) = 0.235 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Rear\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off).da53:0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

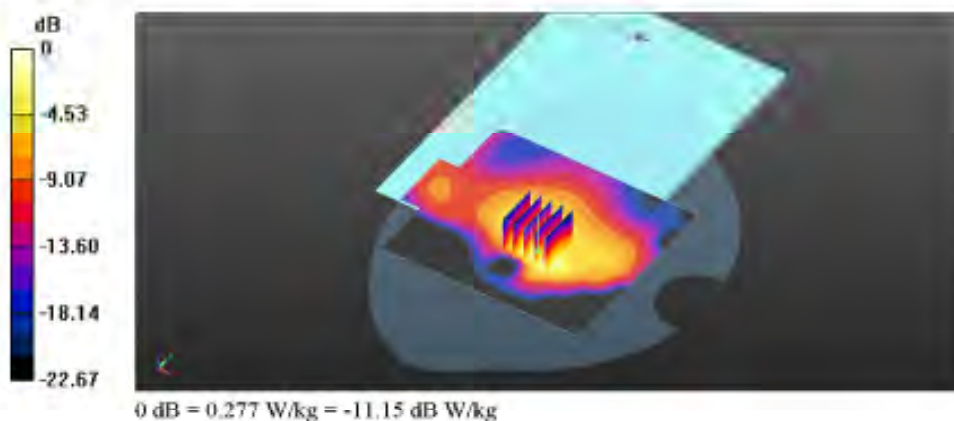
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/EGPRS1900\_Rear\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (111x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.286 W/kg

**EGPRS1900/EGPRS1900\_Rear\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 8.920 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 0.360 mW/g  
**SAR(1 g) = 0.189 mW/g; SAR(10 g) = 0.100 mW/g**  
Maximum value of SAR (measured) = 0.277 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Right Rear Tilt at 8 CH661\_2TX\_Proximity Sensor Off(Power No Back Off).dat53.0

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500TIC; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 54.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

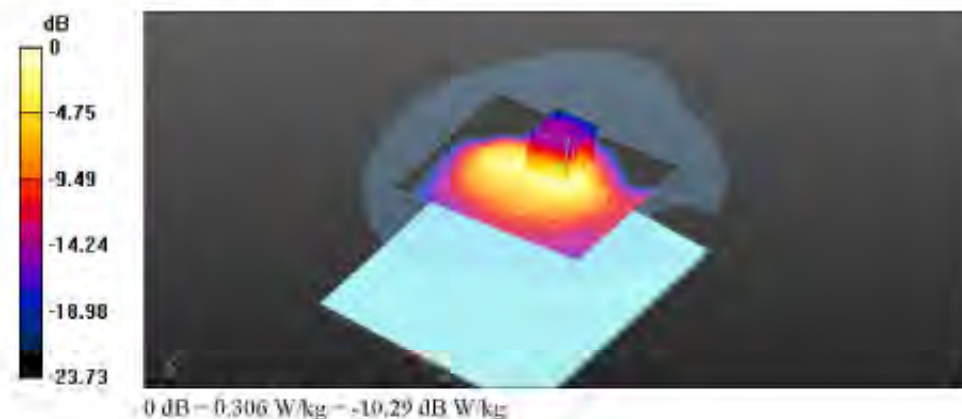
Phantom section: Flat Section

DASY52 Configuration

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/Right Rear Tilt at 8 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (91x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.319 W/kg

**EGPRS1900/Right Rear Tilt at 8 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 13.326 V/m; Power Drift = 0.18 dB  
Peak SAR (extrapolated) = 0.385 mW/g  
**SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.123 mW/g**  
Maximum value of SAR (measured) = 0.306 W/kg



Date: 2012-11-02

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Left Rear Tilt at 15\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.5 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 52.399$ ;  $\rho = 1000$  kg/m<sup>3</sup>

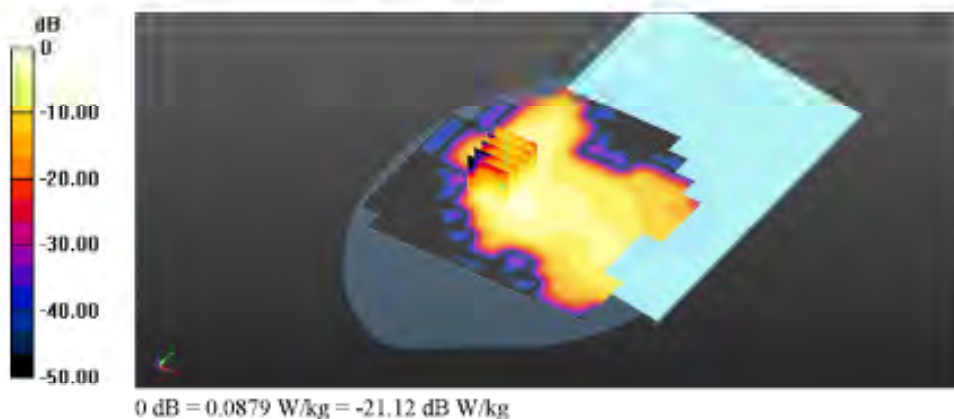
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/Left Rear Tilt at 15 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (121x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0977 W/kg

**EGPRS1900/Left Rear Tilt at 15 Degree\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 5.114 V/m; Power Drift = 0.17 dB  
Peak SAR (extrapolated) = 0.107 mW/g  
SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.034 mW/g  
Maximum value of SAR (measured) = 0.0879 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Right Edge\_CH661\_1TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 1TX; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

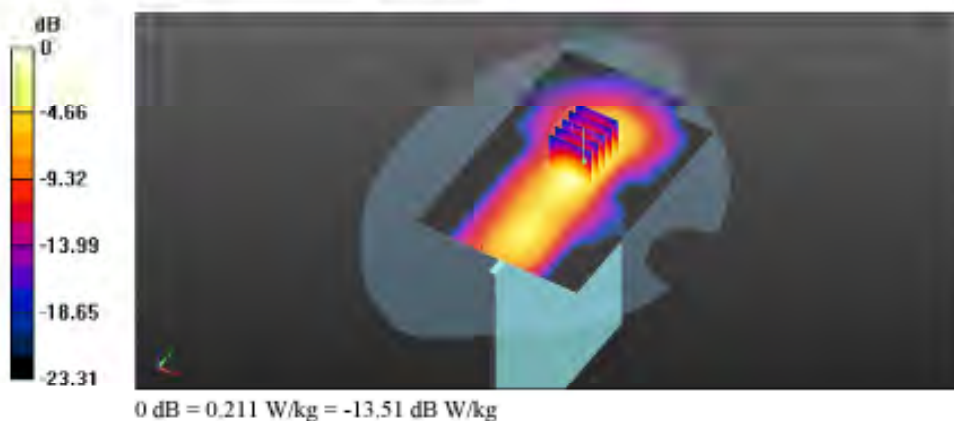
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/EGPRS1900\_Right Edge\_CH661\_1TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.202 W/kg

**EGPRS1900/EGPRS1900\_Right Edge\_CH661\_1TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.275 V/m; Power Drift = 0.11 dB  
Peak SAR (extrapolated) = 0.267 mW/g  
SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.077 mW/g  
Maximum value of SAR (measured) = 0.211 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Right Edge\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

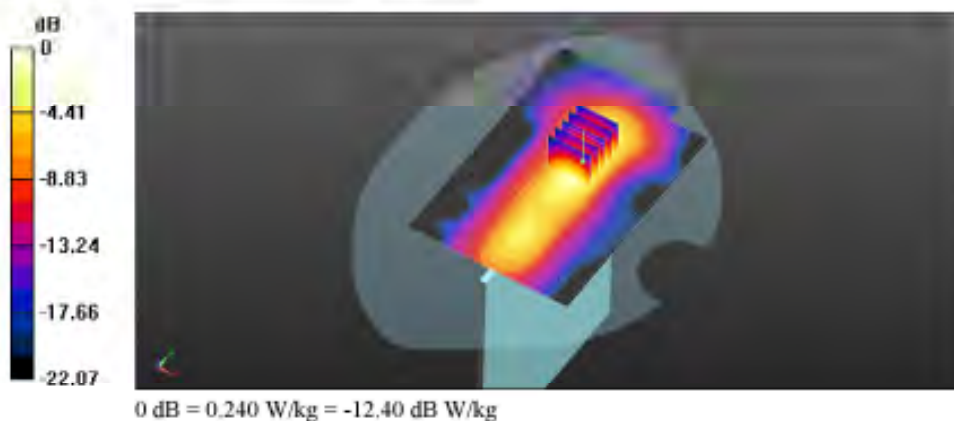
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/EGPRS1900\_Right Edge\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.234 W/kg

**EGPRS1900/EGPRS1900\_Right Edge\_CH661\_2TX\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.564 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 0.383 mW/g  
SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.088 mW/g  
Maximum value of SAR (measured) = 0.240 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Right Touch Tilt at 3 CH661\_2TX\_Proximity Sensor Off(Power No Back Off).dat53.0

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

DUT: XE500TIC; Type: Slate Device; Serial: HXVL91CC800139K

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 54.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/Right Touch Tilt at 3 Degree\_CH661\_2TX\_Proximity Sensor Off (Power No Back Off)/Area Scan (81x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.367 W/kg

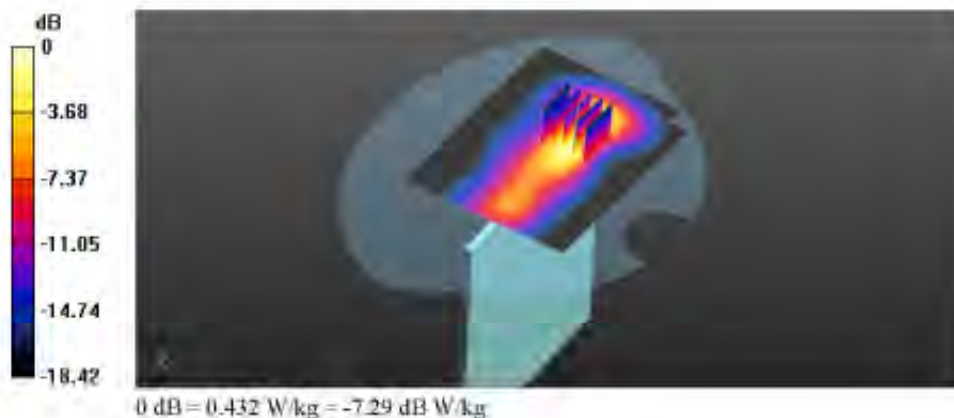
**EGPRS1900/Right Touch Tilt at 3 Degree\_CH661\_2TX\_Proximity Sensor Off (Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.924 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.536 mW/g

SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.150 mW/g

Maximum value of SAR (measured) = 0.432 W/kg



Date: 2012-11-02

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Left Touch Tilt at 13 CH661\_2TX\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.5 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 52.399$ ;  $\rho = 1000$  kg/m<sup>3</sup>

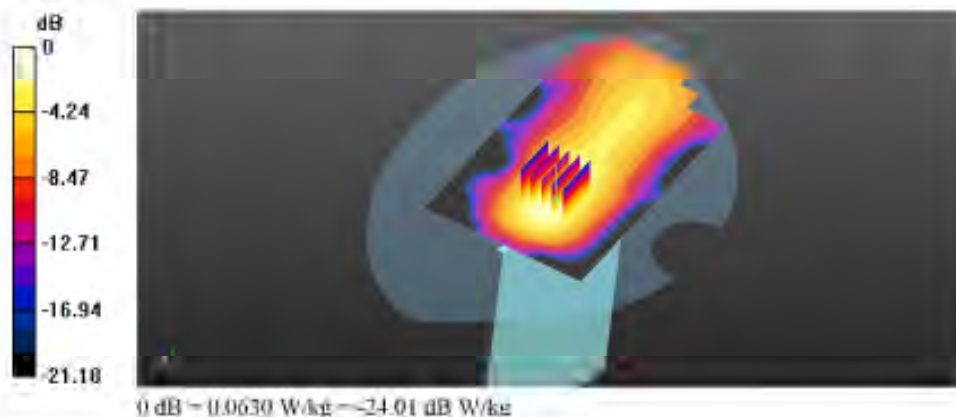
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/Left Touch Tilt at 13 Degree\_CH661\_2TX\_Proximity Sensor Off (Power No Back Off)/Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0615 W/kg

**EGPRS1900/Left Touch Tilt at 13 Degree\_CH661\_2TX\_Proximity Sensor Off (Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.085 V/m; Power Drift = -0.00 dB  
Peak SAR (extrapolated) = 0.079 mW/g  
**SAR(1 g) = 0.048 mW/g; SAR(10 g) = 0.028 mW/g**  
Maximum value of SAR (measured) = 0.0630 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Bottom\_CH661\_1TX\_Proximity Sensor Off(No Power Back Off).da53.i

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 1TX; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

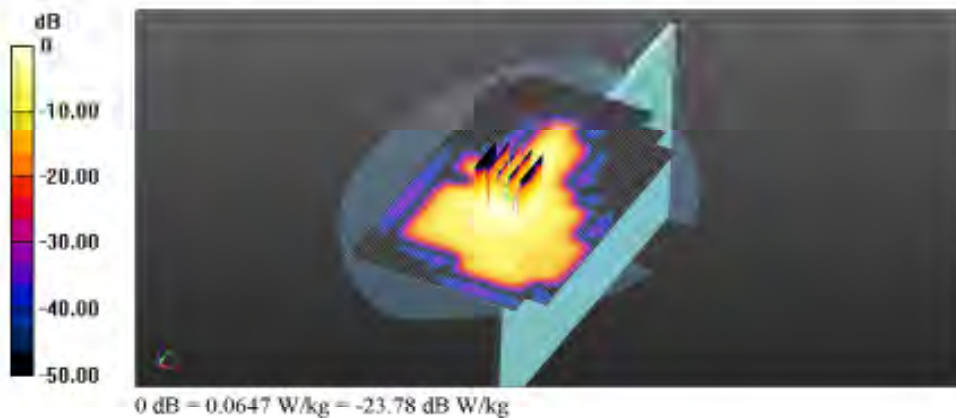
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/EGPRS1900\_Bottom\_CH661\_1TX\_Proximity Sensor Off(No Power Back Off)/Area Scan (91x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0575 W/kg

**EGPRS1900/EGPRS1900\_Bottom\_CH661\_1TX\_Proximity Sensor Off(No Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 5.828 V/m; Power Drift = 0.11 dB  
Peak SAR (extrapolated) = 0.089 mW/g  
**SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.022 mW/g**  
Maximum value of SAR (measured) = 0.0647 W/kg



Date: 2012-10-27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: EGPRS1900\_Bottom\_CH661\_2TX\_Proximity Sensor Off(No Power Back Off).da53.i

Ambient Temp : 23.6 °C Tissue Temp : 22.6 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: GPRS1900 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

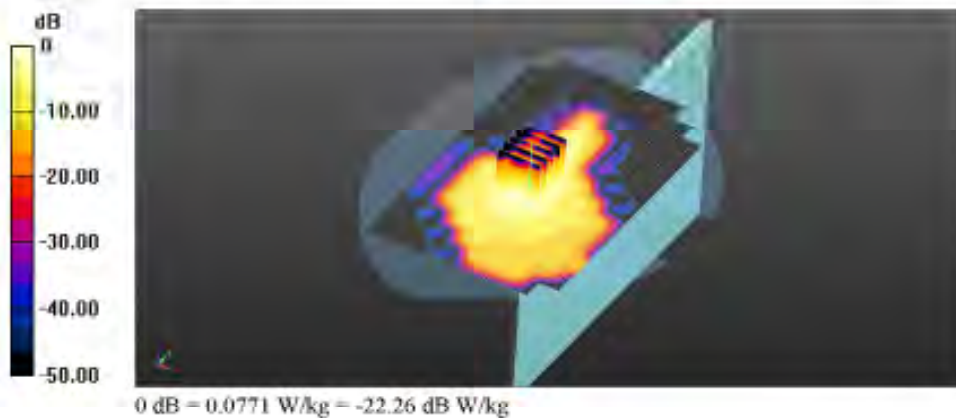
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**EGPRS1900/EGPRS1900\_Bottom\_CH661\_2TX\_Proximity Sensor Off(No Power Back Off)/Area Scan (91x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0686 W/kg

**EGPRS1900/EGPRS1900\_Bottom\_CH661\_2TX\_Proximity Sensor Off(No Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.306 V/m; Power Drift = 0.08 dB  
Peak SAR (extrapolated) = 0.104 mW/g  
**SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.026 mW/g**  
Maximum value of SAR (measured) = 0.0771 W/kg



## WCDMA II Body Test

Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA FDD II\_Rear\_CH9400\_Proximity Sensor On(Power Back Off) da53-1

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 54.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

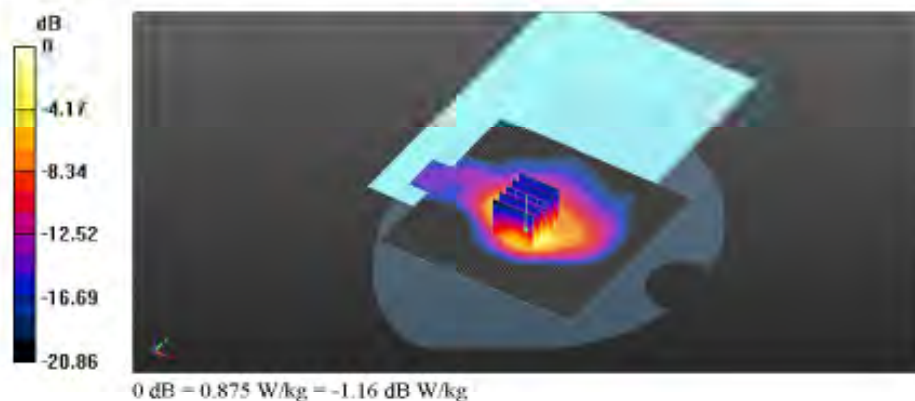
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA/WCDMA FDD II\_Rear\_CH9400\_Proximity Sensor On(Power Back Off)/Area Scan (111x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.957 W/kg

**WCDMA/WCDMA FDD II\_Rear\_CH9400\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.302 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 1.270 mW/g  
**SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.286 mW/g**  
Maximum value of SAR (measured) = 0.875 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA FDD II\_Right Edge\_CH9400\_Proximity Sensor On(Power Back Off).da53-0

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 54.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

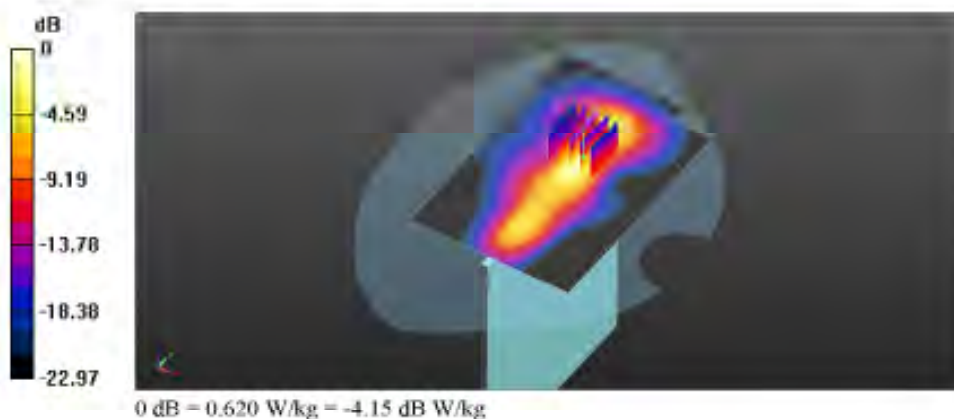
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA/WCDMA FDD II\_Right Edge\_CH9400\_Proximity Sensor On(Power Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.595 W/kg

**WCDMA/WCDMA FDD II\_Right Edge\_CH9400\_Proximity Sensor On(Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 9.748 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 0.822 mW/g  
**SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.179 mW/g**  
Maximum value of SAR (measured) = 0.620 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA FDD II\_Rear\_CH9400\_Proximity Sensor Off(Power No Back Off).da53.d

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 54.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

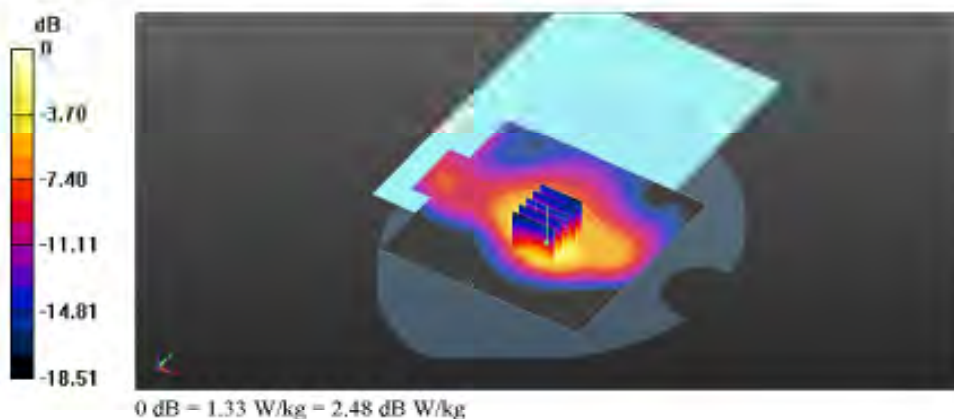
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA/WCDMA FDD II\_Rear\_CH9400\_Proximity Sensor Off(Power No Back Off)/Area Scan (111x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.29 W/kg

**WCDMA/WCDMA FDD II\_Rear\_CH9400\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 20.464 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 1.710 mW/g  
**SAR(1 g) = 0.910 mW/g; SAR(10 g) = 0.487 mW/g**  
Maximum value of SAR (measured) = 1.33 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA FDD II\_Rear\_CH9262\_Proximity Sensor Off(Power No Back Off).da53.d

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.48 \text{ mho/m}$ ;  $\epsilon_r = 54.359$ ;  $\rho = 1000$

$\text{kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)/SEMCAD X 14.6.6(6824)

**WCDMA/WCDMA FDD II\_Rear\_CH9262\_Proximity Sensor Off(Power No Back Off)/Area Scan (111x101x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation

Maximum value of SAR (interpolated) = 1.38 W/kg

**WCDMA/WCDMA FDD II\_Rear\_CH9262\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

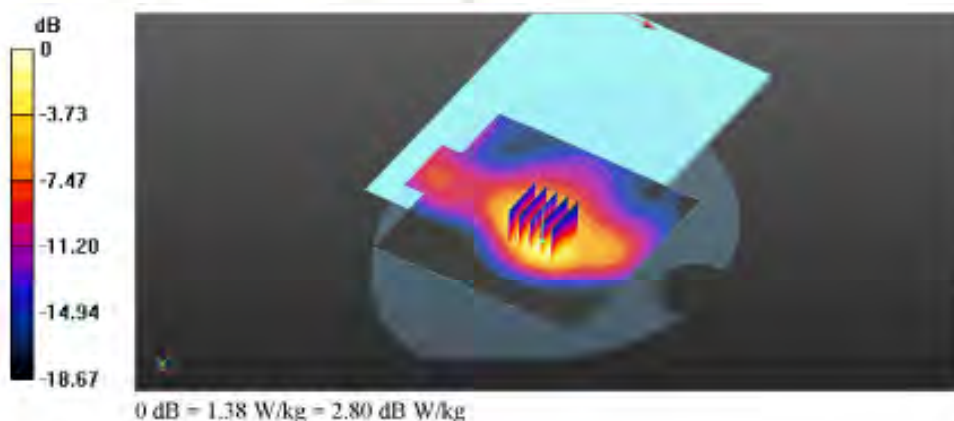
Reference Value = 20.436 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.795 mW/g

SAR(1 g) = 0.965 mW/g; SAR(10 g) = 0.518 mW/g

Info: Interpolated medium parameters used for SAR evaluation

Maximum value of SAR (measured) = 1.38 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA FDD II\_Rear\_CH9538\_Proximity Sensor Off(Power No Back Off).da53.d

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.547$  mho/m;  $\epsilon_r = 54.107$ ;  $\rho = 1000$  kg/m<sup>3</sup>

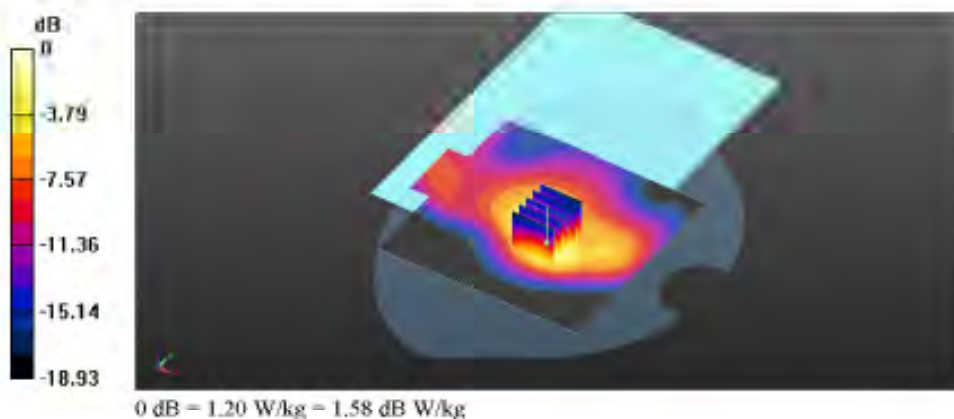
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA/WCDMA FDD II\_Rear\_CH9538\_Proximity Sensor Off(Power No Back Off)/Area Scan (111x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.19 W/kg

**WCDMA/WCDMA FDD II\_Rear\_CH9538\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 18.811 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 1.572 mW/g  
**SAR(1 g) = 0.835 mW/g; SAR(10 g) = 0.445 mW/g**  
Maximum value of SAR (measured) = 1.20 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA II\_Right Rear Tilt at 8 Degree\_CH9400\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500TIC; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 54.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

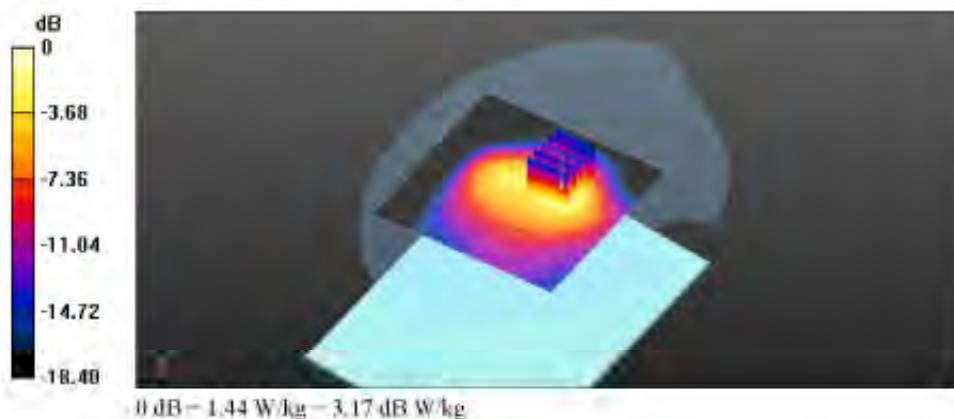
Phantom section: Flat Section

DASY52 Configuration

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA II/Right Rear Tilt at 8 Degree\_CH9400\_Proximity Sensor Off(Power No Back Off)/Area Scan (91x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.49 W/kg

**WCDMA II/Right Rear Tilt at 8 Degree\_CH9400\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 28.226 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 1.814 mW/g  
**SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.571 mW/g**  
Maximum value of SAR (measured) = 1.44 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA II\_Right Rear Tilt at 8 \_CH9262\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500TIC; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 54.359$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EN3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Deflection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA II/Right Rear Tilt at 8 Degree \_CH9262\_Proximity Sensor Off(Power No Back Off)/Area Scan (91x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.39 W/kg

**WCDMA II/Right Rear Tilt at 8 Degree \_CH9262\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

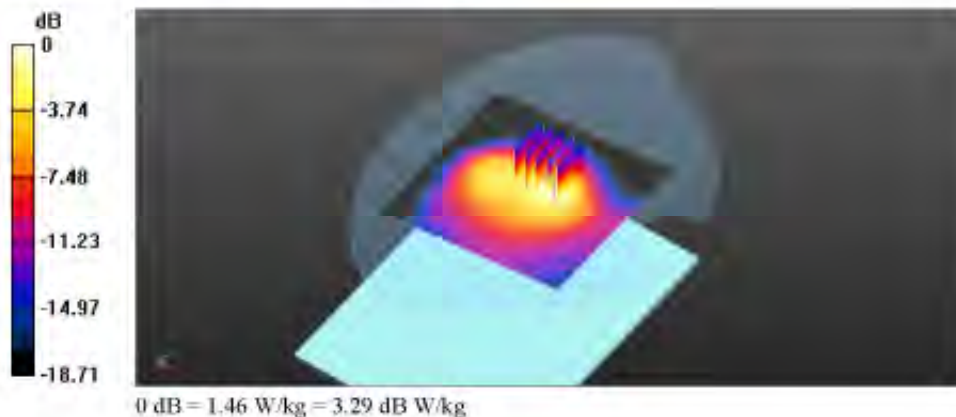
Reference Value = 28,990 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.867 mW/g

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.588 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.46 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA II\_Right Rear Tilt at 8 Degree\_CH9538\_Proximity Sensor Off(Power No Back Off).dat53.0

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500TIC; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.547$  mho/m;  $\epsilon_r = 54.107$ ;  $\rho = 1000$  kg/m<sup>3</sup>

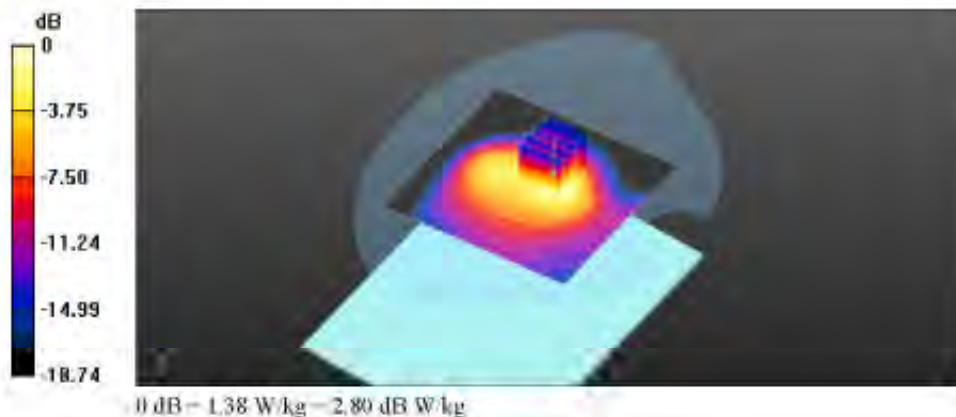
Phantom section: Flat Section

DASY52 Configuration

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA II/Right Rear Tilt at 8 Degree\_CH9538\_Proximity Sensor Off(Power No Back Off)/Area Scan (91x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.39 W/kg

**WCDMA II/Right Rear Tilt at 8 Degree\_CH9538\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 27.849 V/m; Power Drift = -0.03 dB  
Peak SAR (extrapolated) = 1.764 mW/g  
**SAR(1 g) = 0.997 mW/g; SAR(10 g) = 0.553 mW/g**  
Maximum value of SAR (measured) = 1.38 W/kg



Date: 2012-11-02

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA II Left Rear Tilt at 15 CH9400 Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.5 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 52.399$ ;  $\rho = 1000$  kg/m<sup>3</sup>

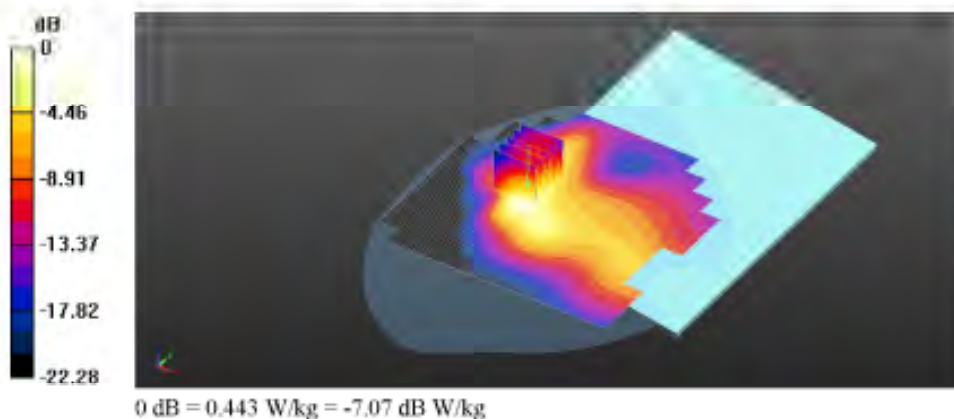
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA II/Left Rear Tilt at 15 Degree\_CH9400\_Proximity Sensor Off(Power No Back Off)/Area Scan (121x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.437 W/kg

**WCDMA II/Left Rear Tilt at 15 Degree\_CH9400\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.623 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 0.529 mW/g  
SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.187 mW/g  
Maximum value of SAR (measured) = 0.443 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA FDD II\_Right Edge\_CH9400\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

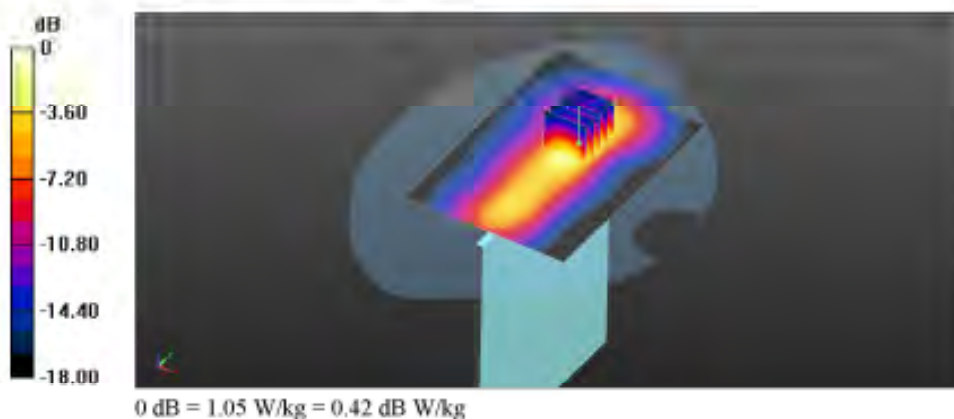
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA/WCDMA FDD II\_Right Edge\_CH9400\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.02 W/kg

**WCDMA/WCDMA FDD II\_Right Edge\_CH9400\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 16.598 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 1.323 mW/g  
SAR(1 g) = 0.747 mW/g; SAR(10 g) = 0.395 mW/g  
Maximum value of SAR (measured) = 1.05 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA II\_Right Touch Tilt at 3 \_CH9400\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 54.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

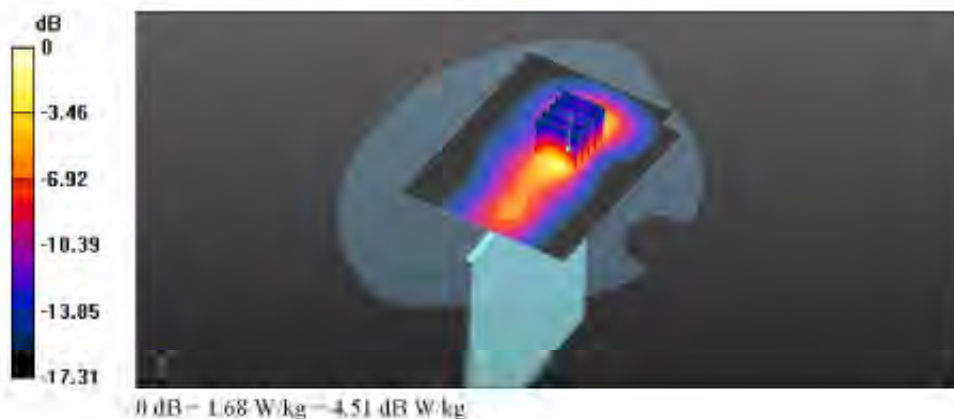
Phantom section: Flat Section

DASY52 Configuration

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA II/Right Touch Tilt at 3 Degree\_CH9400\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.47 W/kg

**WCDMA II/Right Touch Tilt at 3 Degree\_CH9400\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 15.811 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 2.082 mW/g  
**SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.597 mW/g**  
Maximum value of SAR (measured) = 1.68 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA II\_Right Touch Tilt at 3\_CH9262\_Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500TIC; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 54.359$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration

- Probe: EX3DV4 - SN3862; Conv: (7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Deflection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA II/Right Touch Tilt at 3 Degree\_CH9262\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

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

**WCDMA II/Right Touch Tilt at 3 Degree\_CH9262\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

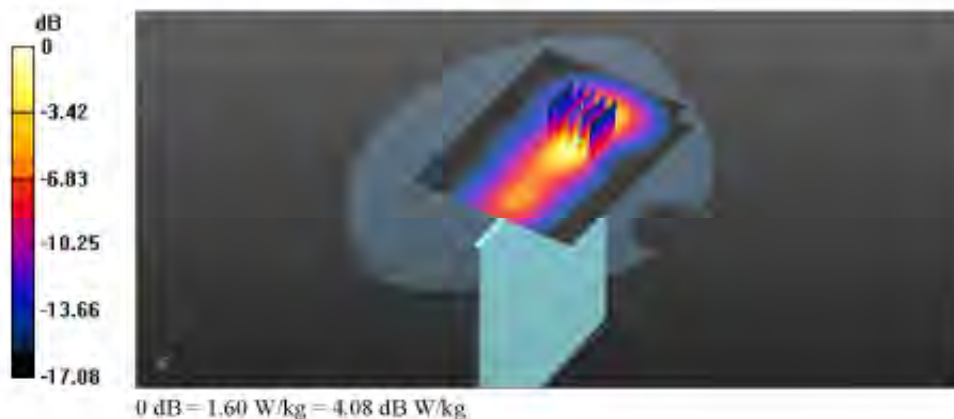
Reference Value = 15.786 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.980 mW/g

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.576 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.60 W/kg



0 dB = 1.60 W/kg = 4.08 dB W/kg

Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)  
 File Name: WCDMA II\_Right Touch Tilt at 3\_CH9538\_Proximity Sensor Off(Power No Back Off).dat53.0

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

**DUT: XE500TIC; Type: Slate Device; Serial: HXVL91CC800139K**

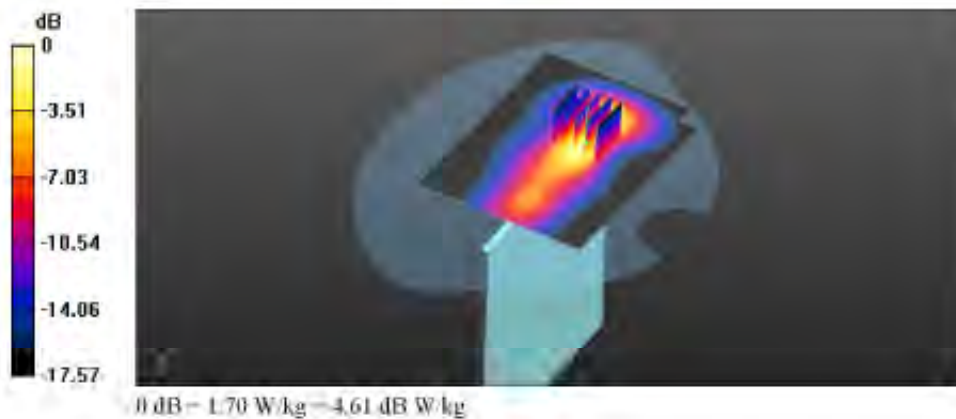
Communication System: WCDMA2; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.547$  mho/m;  $\epsilon_r = 54.107$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY52 Configuration

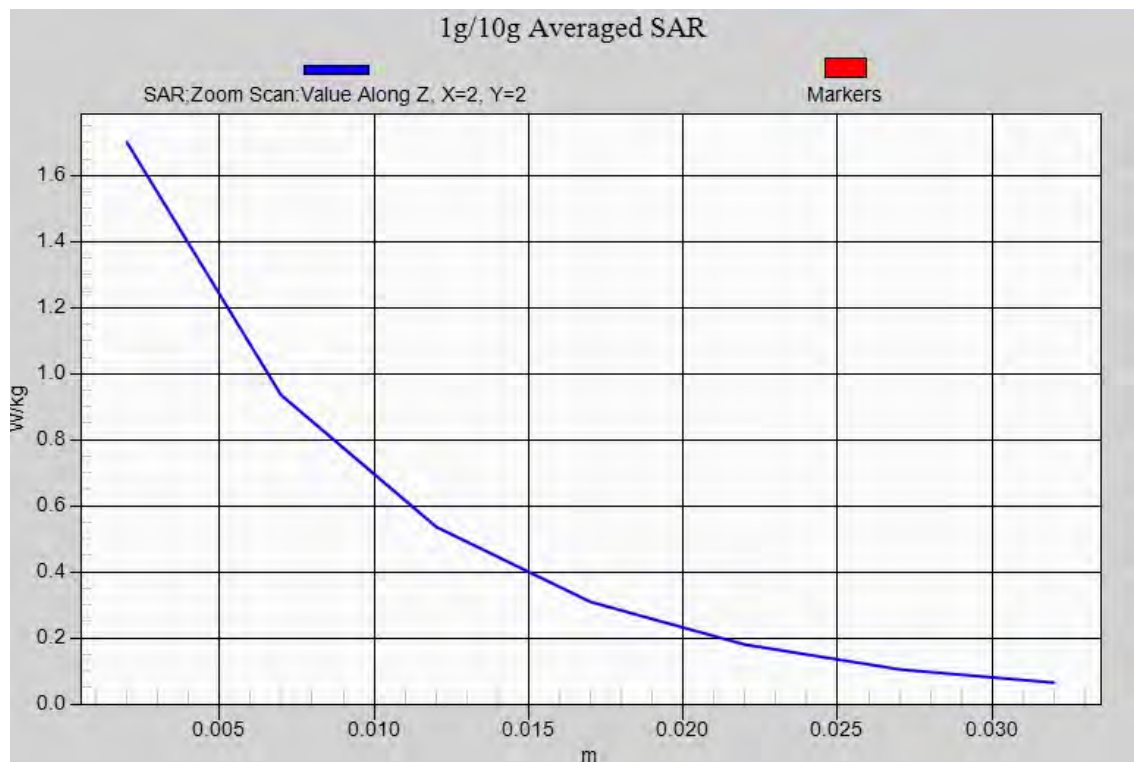
- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA II/Right Touch Tilt at 3 Degree\_CH9538\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 1.48 W/kg

**WCDMA II/Right Touch Tilt at 3 Degree\_CH9538\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 15.810 V/m; Power Drift = -0.02 dB  
 Peak SAR (extrapolated) = 2.131 mW/g  
**SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.596 mW/g**  
 Maximum value of SAR (measured) = 1.70 W/kg



## Z Scan



Date: 2012-11-02

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA II Left Touch Tilt at 13 CH9400 Proximity Sensor Off(Power No Back Off).da53.0

Ambient Temp : 23.6 °C Tissue Temp : 22.5 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  mho/m;  $\epsilon_r = 52.399$ ;  $\rho = 1000$  kg/m<sup>3</sup>

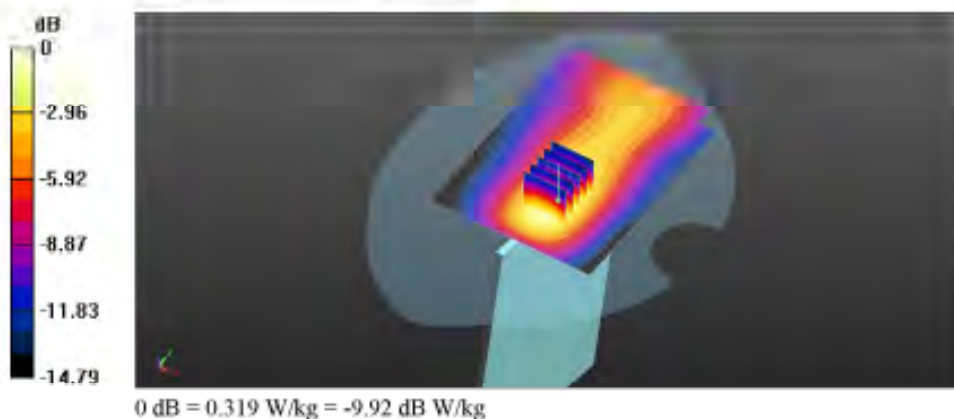
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA II/Left Touch Tilt at 13 Degree\_CH9400\_Proximity Sensor Off(Power No Back Off)/Area Scan (81x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.312 W/kg

**WCDMA II/Left Touch Tilt at 13 Degree\_CH9400\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 13.151 V/m; Power Drift = -0.00 dB  
Peak SAR (extrapolated) = 0.384 mW/g  
SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.145 mW/g  
Maximum value of SAR (measured) = 0.319 W/kg



Date: 2012-10-29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA FDD II\_Bottom\_CH9400\_Proximity Sensor Off(No Power Back Off).da5340

Ambient Temp : 23.3 °C Tissue Temp : 22.1 °C

DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K

Communication System: WCDMA2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.534$  mho/m;  $\epsilon_r = 53.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

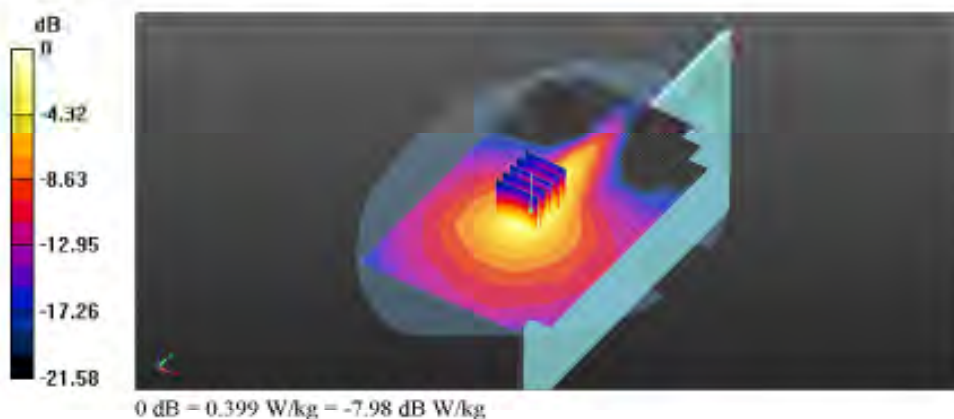
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(7.9, 7.9, 7.9); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1720
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA/WCDMA FDD II\_Bottom\_CH9400\_Proximity Sensor Off(Power No Back Off)/Area Scan (91x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.358 W/kg

**WCDMA/WCDMA FDD II\_Bottom\_CH9400\_Proximity Sensor Off(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 14.832 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 0.548 mW/g  
**SAR(1 g) = 0.289 mW/g; SAR(10 g) = 0.147 mW/g**  
Maximum value of SAR (measured) = 0.399 W/kg



## WCDMA V Body Test

Date: 2012-11-01

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA FDD V\_Rear\_CH4182\_Proximity Sensor On(Power No Back Off) da53-01

Ambient Temp : 23.4 °C Tissue Temp : 22.3 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA5; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.937$  mho/m;  $\epsilon_r = 56.641$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP11721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA/WCDMA FDD V\_Rear\_CH4182\_Proximity Sensor On(Power No Back Off)/Area Scan (101x91x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Info: Interpolated medium parameters used for SAR evaluation

Maximum value of SAR (interpolated) = 0.664 W/kg

**WCDMA/WCDMA FDD V\_Rear\_CH4182\_Proximity Sensor On(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

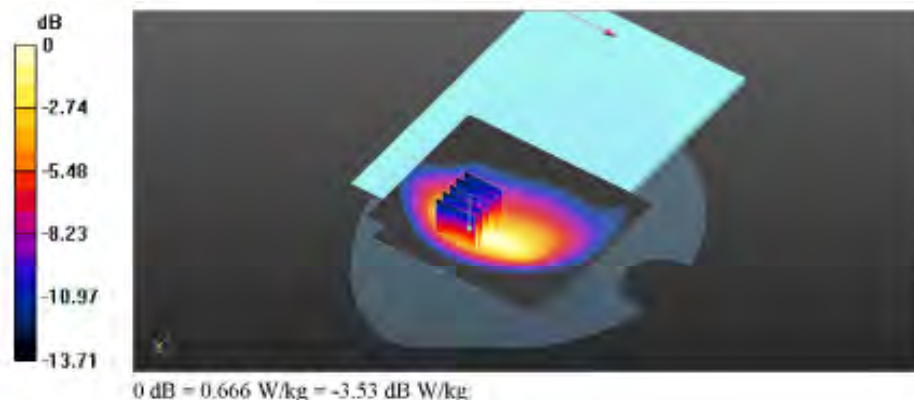
Reference Value = 14.693 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.849 mW/g

SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.284 mW/g

Info: Interpolated medium parameters used for SAR evaluation

Maximum value of SAR (measured) = 0.666 W/kg



Date: 2012-11-01

Test Laboratory : SGS Korea (Gunpo Laboratory)  
 File Name: WCDMA FDD V\_Right Edge\_CH4182\_Proximity Sensor On(Power No Back Off).da53.0

Ambient Temp : 23.4 °C Tissue Temp : 22.3 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA5; Frequency: 836.4 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.937 \text{ mho/m}$ ;  $\epsilon_r = 56.641$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1721
- DASY52 52.8.2(969)SEMCAD X 14.6.6(6824)

**WCDMA/WCDMA FDD V\_Right Edge\_CH4182\_Proximity Sensor On(Power No Back Off)/Area Scan (61x111x1);** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation

Maximum value of SAR (interpolated) = 0.801 W/kg

**WCDMA/WCDMA FDD V\_Right Edge\_CH4182\_Proximity Sensor On(Power No Back Off)/Zoom Scan (5x5x7)/Cube 0;** Measurement grid:  $dx=8 \text{ mm}$ ,  $dy=8 \text{ mm}$ ,  $dz=5 \text{ mm}$

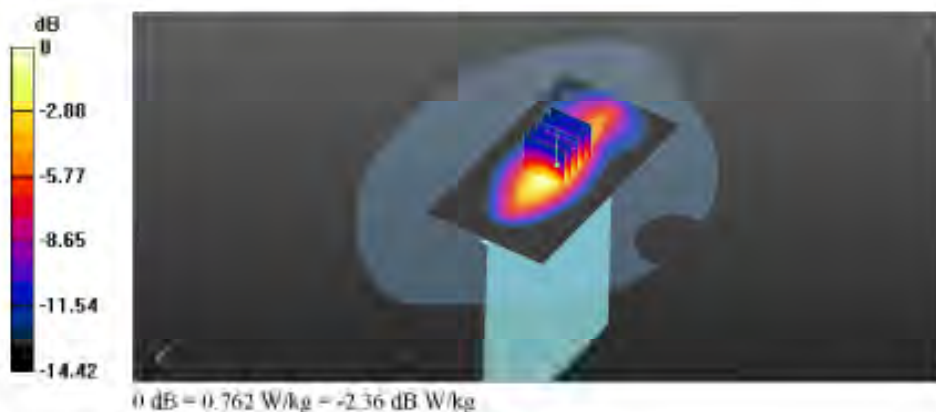
Reference Value = 25.710 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.050 mW/g

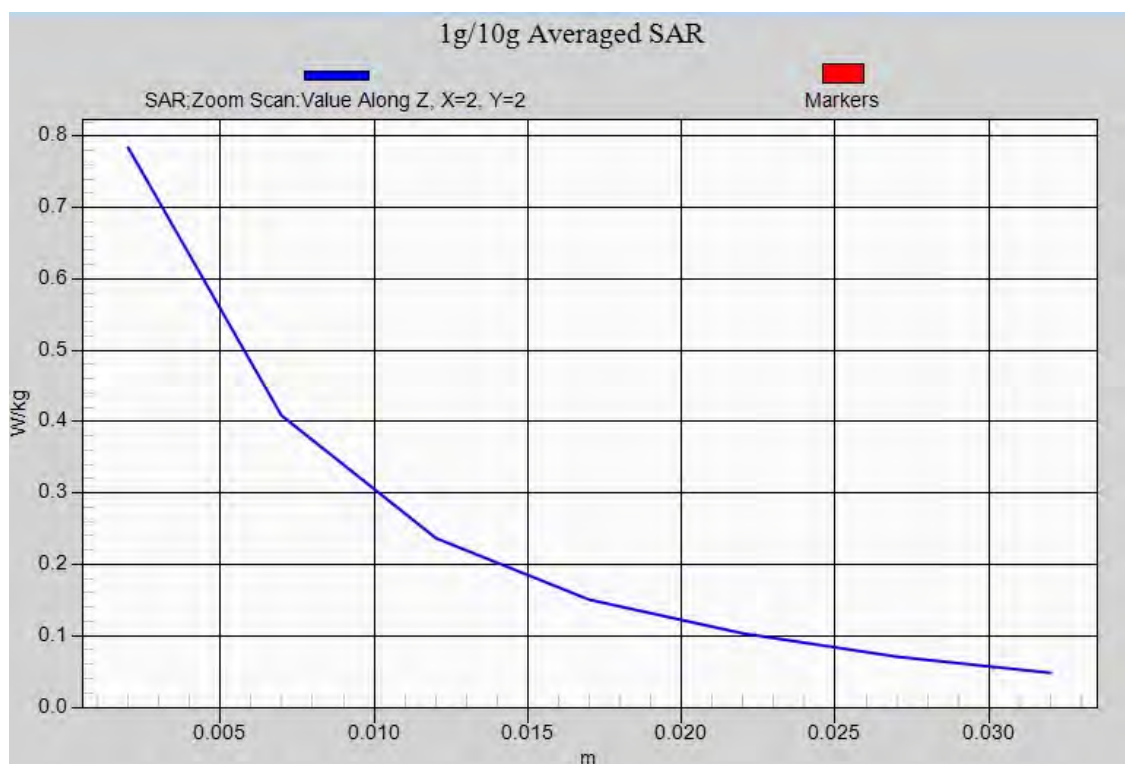
SAR(1 g) = 0.545 mW/g; SAR(10 g) = 0.299 mW/g

Info: Interpolated medium parameters used for SAR evaluation

Maximum value of SAR (measured) = 0.762 W/kg



## Z Scan



Date: 2012-11-01

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: WCDMA FDD V\_Bottom\_CH4182\_Proximity Sensor Off(Power No Back Off).da53-0

Ambient Temp : 23.4 °C Tissue Temp : 22.3 °C

**DUT: XE500T1C; Type: Slate Device; Serial: HXVL91CC800139K**

Communication System: WCDMA5; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.937$  mho/m;  $\epsilon_r = 56.641$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3862; ConvF(9.37, 9.37, 9.37); Calibrated: 19.07.2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1340; Calibrated: 10.07.2012
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP1721
- DASY52 52.8.2(969)/SEMCAD X 14.6.6(6824)

**WCDMA/WCDMA FDD V\_Bottom\_CH4182\_Proximity Sensor Off(No Power Back Off)/Area Scan (81x161x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation

Maximum value of SAR (interpolated) = 0.0925 W/kg

**WCDMA/WCDMA FDD V\_Bottom\_CH4182\_Proximity Sensor Off(No Power Back Off)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.334 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.114 mW/g

SAR(1 g) = 0.064 mW/g; SAR(10 g) = 0.039 mW/g

Info: Interpolated medium parameters used for SAR evaluation

Maximum value of SAR (measured) = 0.0921 W/kg

