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BA/SEMC/CCDAU Jon Kenny

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LD/SEMC/BGLIMC Peter Lindeborg

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No.

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**Report issued by Accredited SAR Laboratory  
for**

FCC ID: PY7A3880010 (C510a)

**Date of test:** December 04<sup>th</sup> to December 18<sup>th</sup>, 2008**Laboratory:** Sony Ericsson SAR Test Laboratory  
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+46 10 802 43 68**Statement of Compliance**

Sony Ericsson Mobile Communications AB declares under its sole responsibility that the product

**Sony Ericsson Type AAD-3880010-BV; FCC ID PY7A3880010; IC 4170B-A3880010**

to which this declaration relates, is in conformity with the appropriate RF exposure standards recommendations and guidelines. It also declares that the product was tested in accordance with the appropriate measurement standards, guidelines and recommended practices. Any deviations from these standards, guidelines and recommended practices are noted below:

(None)

This laboratory is accredited to ISO/IEC 17025 (SWEDAC accreditation no. 1847).



Laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) under the terms of Swedish legislation. The accredited laboratory activities meet the requirements in SS-EN ISO/IEC 17025 (2005). This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

The results and statements contained herein relate only to the items tested. The names of individuals involved may be mentioned only in connection with the statements or results from this report.

Sony Ericsson encourages all feedback, both positive and negative, on this report.

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## 1 Introduction

In this test report, compliance of the Sony Ericsson FCC ID: PY7A3880010 (C510a) portable telephone with RF safety guidelines is demonstrated. The applicable RF safety guidelines and the SAR measurement specifications used for the test are described in the SAR Measurement Specifications of Wireless Handsets [1].

## 2 Customer details

|                      |                                        |
|----------------------|----------------------------------------|
| <b>Company Name:</b> | Sony Ericsson Mobile Communications AB |
| <b>Address:</b>      | Sony Ericsson Mobile China Beijing     |
| <b>Contact Name:</b> | Cia Xiaochuan                          |

## 3 Device Under Test

### 3.1 Antenna Description

|                                      |                  |       |
|--------------------------------------|------------------|-------|
| <b>Type</b>                          | Internal antenna |       |
| <b>Location</b>                      | Bottom of phone  |       |
| <b>Main and BT antennas distance</b> | 90mm             |       |
| <b>Dimensions</b>                    | Max length       | 14 mm |
|                                      | Max width        | 40 mm |
| <b>Configuration</b>                 | Monopole         |       |



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### 3.2 Device Description

|                                                     |                                                                              |      |      |                 |      |      |
|-----------------------------------------------------|------------------------------------------------------------------------------|------|------|-----------------|------|------|
| Device model                                        | AAD-3880010-BV                                                               |      |      |                 |      |      |
| Market name                                         | C510a                                                                        |      |      |                 |      |      |
| Serial number (EUT #)                               | BX900G070B (#14107)<br>BX900G06Z2 (#14108) HSUPA Power<br>Measurement Sample |      |      |                 |      |      |
| Mode                                                | GSM 850                                                                      |      |      | GSM 1900        |      |      |
| Crest factor                                        | 8.3                                                                          |      |      | 8.3             |      |      |
| Multiple access scheme                              | TDMA                                                                         |      |      | TDMA            |      |      |
| Channel No.                                         | 128                                                                          | 190  | 251  | 512             | 661  | 885  |
| Measured Power Level [dBm] <sup>1</sup><br>(#13877) | 33.7                                                                         | 33.8 | 33.8 | 30.5            | 30.4 | 30.4 |
| Product Maximum power Level<br>[dBm] <sup>1</sup>   | 34.0                                                                         | 34.0 | 34.0 | 30.5            | 30.5 | 30.5 |
| Data mode                                           | GPRS                                                                         |      |      | GPRS            |      |      |
| Crest factor                                        | 4.15                                                                         |      |      | 4.15            |      |      |
| Measured Power Level [dBm] <sup>1</sup><br>(#13877) | 30.8                                                                         | 30.9 | 30.9 | 28.0            | 27.9 | 27.8 |
| Product Maximum power Level<br>[dBm] <sup>1</sup>   | 31.0                                                                         | 31.0 | 31.0 | 28.0            | 28.0 | 28.0 |
| Data mode                                           | EDGE                                                                         |      |      | EDGE            |      |      |
| Crest factor                                        | 4.15                                                                         |      |      | 4.15            |      |      |
| Measured Power Level [dBm] <sup>1</sup><br>(#13877) | 27.8                                                                         | 27.9 | 27.9 | 26.9            | 26.9 | 27.0 |
| Product Maximum power Level<br>[dBm] <sup>1</sup>   | 28.0                                                                         | 28.0 | 28.0 | 27.0            | 27.0 | 27.0 |
| Transmitting frequency range<br>[MHz]               | 824.0 - 849.0                                                                |      |      | 1850.0 - 1910.0 |      |      |

|                                                     |                   |      |      |               |      |      |
|-----------------------------------------------------|-------------------|------|------|---------------|------|------|
| Mode                                                | UMTS 2            |      |      | UMTS 5        |      |      |
| Crest factor                                        | 1                 |      |      | 1             |      |      |
| Multiple access scheme                              | WCDMA             |      |      | WCDMA         |      |      |
| Channel No.                                         | 9262              | 9400 | 9538 | 2712          | 2788 | 2863 |
| Measured Power Level [dBm] <sup>1</sup><br>(#13262) | 22.4              | 22.4 | 22.5 | 24.0          | 24.0 | 24.0 |
| Product Maximum power Level [dBm] <sup>1</sup>      | 22.5              | 22.5 | 22.5 | 24.0          | 24.0 | 24.0 |
| Data Mode                                           | (See section 3.3) |      |      |               |      |      |
| Transmitting frequency range [MHz]                  | 1852.5 - 1907.6   |      |      | 882,4 – 912,6 |      |      |

|                              |                                   |
|------------------------------|-----------------------------------|
| GPRS Multislot class         | 10                                |
| EDGE class                   | 10                                |
| GPRS Capability class        | B                                 |
| BT class and conducted power | Class 1, 4.5 dBm                  |
| Prototype or production unit | Preproduction                     |
| Hardware Version             | AP1                               |
| Software version             | R1CA013 (R1DA028 For HSUPA)       |
| Device category              | Portable                          |
| RF exposure environment      | General population / uncontrolled |



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### 3.3 HSPA Power Characteristics

The conducted power of the device was confirmed in two UMTS circuit switched modes (RMC and Voice) and four HSDPA modes. A CMU-200 was used to establish the call processing and modulation settings and an RF power meter was used for measurement. For all HSDPA measurements, the following settings were applied:

H-SET3 QPSK

CQI feedback=2msec

$\Delta\text{ACK} = \Delta\text{NACK} = \Delta\text{CQI} = 8$

The results (including relevant CMU settings) are presented in the following table:

#### EUT #14107

1852,4 1880 1907,6 826,4 836,4 846,6

|            |           |           |                   |       | Band 2 |      |      | Band 5 |      |      |
|------------|-----------|-----------|-------------------|-------|--------|------|------|--------|------|------|
|            | $\beta_c$ | $\beta_d$ | $\Delta\text{HS}$ | max-> | 23,1   | 23,1 | 23,1 | 24     | 24   | 24   |
| CS - RMC   | 8         | 15        | -                 |       | 22.6   | 22.6 | 22.6 | 23.9   | 23.9 | 23.9 |
| CS - voice | 8         | 15        | -                 |       | 22.5   | 22.6 | 22.6 | 24.0   | 23.9 | 23.8 |
| HSDPA - 1  | 2         | 15        | 8                 |       | 22.6   | 22.6 | 22.6 | 24.0   | 24.0 | 24.0 |
| HSDPA - 2  | 12        | 15        | 8                 |       | 21.2   | 21.9 | 21.3 | 23.2   | 23.0 | 22.8 |
| HSDPA - 3  | 15        | 8         | 8                 |       | 21.2   | 21.8 | 21.2 | 23.2   | 22.9 | 22.5 |
| HSDPA - 4  | 15        | 4         | 8                 |       | 21.6   | 21.8 | 21.5 | 23.2   | 23.0 | 22.8 |

The measured 1-gram averaged SAR values of the device against head and body are provided in tables 3 and 4. For head and body measurement, the unit was measured in the following (CS) voice modes:

RMC=12.2,  $\beta_c=8$ ,  $\beta_d=15$

For body measurement, the unit was measured according FCC guidance with following HSDPA settings:

RMC=12.2,  $\beta_c=9$ ,  $\beta_d=15$ ,  $\Delta\text{ACK}=5$ ,  $\Delta\text{NACK}=5$ ,  $\Delta\text{CQI}=2$

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In HSUPA mode, additional code channels (E-DPCCH, E-DPDCHn) are added for data transfer in the uplink at higher bit rates.

5 sub-tests are defined by 3GPP TS 34.121 [7] according to the following table:

| Sub-test | $\beta_c$            | $\beta_d$            | $\beta_d$ (SF) | $\beta_c/\beta_d$    | $\beta_{hs}^{(1)}$ | $\beta_{ec}$ | $\beta_{ed}$                               | $\beta_{ec}$ (SF) | $\beta_{ed}$ (code) | CM (dB) <sup>(2)</sup> | MPR (dB) | AG <sup>(4)</sup> Index | E-TFC I |
|----------|----------------------|----------------------|----------------|----------------------|--------------------|--------------|--------------------------------------------|-------------------|---------------------|------------------------|----------|-------------------------|---------|
| 1        | 11/15 <sup>(3)</sup> | 15/15 <sup>(3)</sup> | 64             | 11/15 <sup>(3)</sup> | 22/15              | 209/225      | 1039/225                                   | 4                 | 1                   | 0.0                    | 0.0      | 20                      | 75      |
| 2        | 6/15                 | 15/15                | 64             | 6/15                 | 12/15              | 12/15        | 94/75                                      | 4                 | 1                   | 1.0                    | 2.0      | 12                      | 67      |
| 3        | 15/15                | 9/15                 | 64             | 15/9                 | 30/15              | 30/15        | $\beta_{ed1}:47/15$<br>$\beta_{ed2}:47/15$ | 4                 | 2                   | 1.5                    | 1.0      | 15                      | 92      |
| 4        | 2/15                 | 15/15                | 64             | 2/15                 | 4/15               | 2/15         | 56/75                                      | 4                 | 1                   | 1.5                    | 2.0      | 17                      | 71      |
| 5        | 15/15 <sup>(4)</sup> | 15/15 <sup>(4)</sup> | 64             | 15/15 <sup>(4)</sup> | 30/15              | 24/15        | 134/15                                     | 4                 | 1                   | 1.5                    | 0.0      | 21                      | 81      |

Note 1:  $\Delta_{ACK}, \Delta_{NACK}, \Delta_{CQI} = 8 \iff A_{HS} = \beta_{HS}/\beta_c = 30/15 \iff \beta_{HS} = 30/15 * \beta_c$   
Note 2: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{HS}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference  
Note 3: For sub-test 1 the  $\beta_c/\beta_d$  ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 10/15$  and  $\beta_d = 15/15$   
Note 4: For sub-test 5 the  $\beta_c/\beta_d$  ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 14/15$  and  $\beta_d = 15/15$   
Note 5: Testing UE using E-DPDCH Physical Layer category 1 sub-test 3 is not required according to TS 25.306 Table 5.1g  
Note 6:  $\beta_{ed}$  cannot be set directly; it is set by Absolute Grant Value

| EUT#14108          | 1852,4 (Band2) | 1880 (Band2) | 1907,6 (Band2) | 826,4 (Band5) | 836,4 (Band5) | 846,6 (Band5) |
|--------------------|----------------|--------------|----------------|---------------|---------------|---------------|
|                    | Band 2         |              |                | Band 5        |               |               |
| max->              | 22.3           | 22.3         | 22.4           | 23.6          | 23.9          | 23.7          |
| HSUPA - Sub-test 1 | 22.3           | 22.3         | 22.4           | 23.5          | 23.9          | 23.7          |
| HSUPA - Sub-test 2 | 20.0           | 19.9         | 20.1           | 21.0          | 21.2          | 21.2          |
| HSUPA - Sub-test 3 | 21.2           | 21.2         | 21.3           | 22.2          | 22.3          | 22.3          |
| HSUPA - Sub-test 4 | 19.7           | 19.9         | 19.9           | 20.8          | 21.0          | 20.9          |
| HSUPA - Sub-test 5 | 22.2           | 22.3         | 22.0           | 23.6          | 23.8          | 23.7          |

NOTE: None of the HSDPA/HSUPA settings leads to conducted power values exceeding the conducted power in RMC mode by more than 0.25 dB.  
So no additional SAR measurements are required for those test modes.

NOTE: According to the subtest settings shown in Table above a Maximum Power Reduction (MPR) of up to 2dB can be expected in HSUPA subtest 2 - 4. The WCDMA measurement results may show a lower power reduction depending on the chipset features of the DUT.



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## 4 Test equipment

### 4.1 Dosimetric system

SAR measurements were made using the DASY4 professional system (software version 4.7, Build 55) with SAM twin phantom, manufactured by Schmid & Partner Engineering AG (SPEAG). The list of calibrated equipment is given below.

| Description                    | Serial Number | Due Date |
|--------------------------------|---------------|----------|
| DASY4 DAE3                     | 448           | 2009-11  |
| E-field probe ET3DV6           | 1610          | 2009-11  |
| Dipole Validation Kit, D835V2  | 484           | 2009-01  |
| Dipole Validation Kit, D1900V2 | 5d002         | 2009-01  |

### 4.2 Additional equipment

| Description                    | Inventory Number | Due Date |
|--------------------------------|------------------|----------|
| Signal generator R&S SMY 02    | 3.094            | 2009-04  |
| Directional coupler HP778D     | 15.233           | None     |
| Power meter R&S NRVD           | 4.073            | 2009-04  |
| Power sensor R&S NRV-Z5        | 4.074            | 2009-04  |
| Power sensor R&S NRV-Z5        | 4.076            | 2009-04  |
| Network analyzer Agilent 8719D | 2.022            | 2009-04  |
| Dielectric probe kit HP8507C   | 14.046           | Self Cal |
| R&S CMU200                     | 20011270         | 2009-04  |

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## 5 Electrical parameters on the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity,  $\epsilon_r$ , and the conductivity  $\sigma$ , of the tissue simulating liquids were measured with the dielectric probe kit. These values are shown in the table below. The mass density,  $\rho$ , entered into the DASY4 software is also given. Recommended limits for permittivity  $\epsilon_r$ , conductivity  $\sigma$  and mass density  $\rho$  are also shown.

| f<br>[MHz] | Tissue<br>type | Measured / Recommended | Dielectric Parameters |                | Density                     |
|------------|----------------|------------------------|-----------------------|----------------|-----------------------------|
|            |                |                        | $\epsilon_r$          | $\sigma$ [S/m] | $\rho$ [g/cm <sup>3</sup> ] |
| 835        | Head           | Measured, 2008-12-04   | 40.41                 | 0.87           | 1.00                        |
|            |                | Recommended            | 41.50                 | 0.90           | 1.00                        |
| 835        | Body           | Measured, 2008-12-17   | 53.62                 | 0.98           | 1.00                        |
|            |                | Recommended            | 55.20                 | 0.97           | 1.00                        |
| 835        | Head           | Measured, 2008-12-15   | 39.94                 | 0.86           | 1.00                        |
|            |                | Recommended            | 41.50                 | 0.90           | 1.00                        |
| 835        | Body           | Measured, 2008-12-18   | 53.51                 | 0.98           | 1.00                        |
|            |                | Recommended            | 55.20                 | 0.97           | 1.00                        |
| 1900       | Head           | Measured, 2008-12-05   | 38.00                 | 1.46           | 1.00                        |
|            |                | Recommended            | 40.00                 | 1.40           | 1.00                        |
| 1900       | Body           | Measured, 2008-12-15   | 50.68                 | 1.57           | 1.00                        |
|            |                | Recommended            | 53.30                 | 1.52           | 1.00                        |
| 1900       | Head           | Measured, 2008-12-16   | 38.06                 | 1.46           | 1.00                        |
|            |                | Recommended            | 40.00                 | 1.40           | 1.00                        |
| 1900       | Body           | Measured, 2008-12-09   | 50.87                 | 1.58           | 1.00                        |
|            |                | Recommended            | 53.30                 | 1.52           | 1.00                        |

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## 6 System accuracy verification

A system accuracy verification of the DASY4 was performed using the dipole validation kit listed in section 3.1. The system verification test was conducted on the same day as the measurement of the DUT. The ambient humidity and temperature of test facility were kept between the range 30-70% and 20.0-25.0 °C respectively. RF noise had been measured in liquid when all RF equipment in lab was switched off. Measured value was 0.0002 mW/g in 1g mass.

| f<br>[MHz] | Tissue<br>type | Measured / Reference | SAR [W/kg]<br>1g | Dielectric<br>Parameters |                | Density                     | Liquid<br>T[°C] |
|------------|----------------|----------------------|------------------|--------------------------|----------------|-----------------------------|-----------------|
|            |                |                      |                  | $\epsilon_r$             | $\sigma$ [S/m] | $\rho$ [g/cm <sup>3</sup> ] |                 |
| 835        | Head           | Measured, 2008-12-04 | 9.84             | 40.41                    | 0.87           | 1.00                        | 22.4            |
|            |                | Reference            | 9.20             | 41.50                    | 0.90           | 1.00                        | 22.0            |
| 835        | Body           | Measured, 2008-12-17 | 10.16            | 53.62                    | 0.98           | 1.00                        | 23.3            |
|            |                | Reference            | 9.48             | 55.20                    | 0.97           | 1.00                        | 22.0            |
| 835        | Head           | Measured, 2008-12-15 | 10.00            | 39.94                    | 0.86           | 1.00                        | 21.5            |
|            |                | Reference            | 9.20             | 41.50                    | 0.90           | 1.00                        | 22.0            |
| 835        | Body           | Measured, 2008-12-18 | 10.00            | 53.51                    | 0.98           | 1.00                        | 23.1            |
|            |                | Reference            | 9.48             | 55.20                    | 0.97           | 1.00                        | 22.0            |
| 1900       | Head           | Measured, 2008-12-05 | 39.08            | 38.00                    | 1.46           | 1.00                        | 22.4            |
|            |                | Reference            | 37.40            | 40.00                    | 1.40           | 1.00                        | 22.0            |
| 1900       | Body           | Measured, 2008-12-15 | 42.00            | 50.68                    | 1.57           | 1.00                        | 22.6            |
|            |                | Reference            | 38.60            | 53.30                    | 1.52           | 1.00                        | 22.0            |
| 1900       | Head           | Measured, 2008-12-16 | 38.64            | 38.06                    | 1.46           | 1.00                        | 22.4            |
|            |                | Reference            | 37.40            | 40.00                    | 1.40           | 1.00                        | 22.0            |
| 1900       | Body           | Measured, 2008-12-09 | 40.80            | 50.87                    | 1.58           | 1.00                        | 22.4            |
|            |                | Reference            | 38.60            | 53.30                    | 1.52           | 1.00                        | 22.0            |

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## 7 SAR measurement uncertainty

**SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880010 (C510a) phone  
According to IEEE 1528**

| Uncertainty Component                        | Uncer.<br>(%) | Prob<br>Dist. | Div. | C <sub>i</sub> | 1g mass |
|----------------------------------------------|---------------|---------------|------|----------------|---------|
| <b>Measurement System</b>                    |               |               |      |                |         |
| Probe Calibration                            | ±5.9          | N             | 1    | 1              | ±5.9    |
| Axial Isotropy                               | ±4.7          | R             | √3   | 0.7            | ±1.9    |
| Spherical Isotropy                           | ±9.6          | R             | √3   | 0.7            | ±3.9    |
| Boundary effect                              | ±1.0          | R             | √3   | 1              | ±0.6    |
| Probe linearity                              | ±4.7          | R             | √3   | 1              | ±2.7    |
| Detection limit                              | ±1.0          | R             | √3   | 1              | ±0.6    |
| Readout electronics                          | ±0.3          | N             | 1    | 1              | ±0.3    |
| Response time                                | ±0.8          | R             | √3   | 1              | ±0.5    |
| Integration time                             | ±2.6          | R             | √3   | 1              | ±1.5    |
| RF Ambient Conditions                        | ±3.0          | R             | √3   | 1              | ±1.7    |
| Mech. Constraints of robot                   | ±0.4          | R             | √3   | 1              | ±0.2    |
| Probe positioning                            | ±2.9          | R             | √3   | 1              | ±1.7    |
| Extrap, interpolation and integration        | ±1.0          | R             | √3   | 1              | ±0.6    |
| Measurement System Uncertainty               |               |               |      |                | ±8.4    |
| <b>Test Sample Related</b>                   |               |               |      |                |         |
| Device positioning                           | ±3.5          | N             | 1    | 1              | ±3.5    |
| Device holder uncertainty                    | ±3.5          | N             | 1    | 1              | ±3.5    |
| Power drift                                  | ±5.0          | R             | √3   | 1              | ±2.9    |
| Test Sample Related Uncertainty              |               |               |      |                | ±5.5    |
| <b>Phantom and Tissue Parameters</b>         |               |               |      |                |         |
| Phantom uncertainty                          | ±4.0          | R             | √3   | 1              | ±2.3    |
| Liquid conductivity (measured)               | ±2.5          | R             | 1    | 0.64           | ±1.6    |
| Liquid conductivity (target)                 | ±5.0          | R             | √3   | 0.64           | ±1.8    |
| Liquid Permittivity (measured)               | ±2.5          | R             | 1    | 0.6            | ±1.5    |
| Liquid Permittivity (target)                 | ±5.0          | R             | √3   | 0.6            | ±1.7    |
| Phantom and Tissue Parameters<br>Uncertainty |               |               |      |                | ±4.1    |
| <b>Combined standard uncertainty</b>         |               |               |      |                | ±10.8   |
| <b>Extended standard uncertainty (k=2)</b>   |               |               |      |                | ±21.6   |

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## 8 Test results

The ambient humidity and temperature of test facility were kept between the range 30-70% and 20.0-25.0 °C respectively. A base station simulator was used to control the device during the SAR measurement. The DUT was supplied with a fully charged battery for each measurement.

For head measurement, the DUT was tested on the right-hand side and the left-hand side of the phantom in two phone positions, cheek (touch) and tilt (cheek + 15°). The DUT was tested at the lowest, middle and highest frequencies in the transmission band. The measured 1-gram averaged SAR values of the DUT towards the head are provided in Table 1.

For body measurement the DUT was tested with the back (antenna) and front(display) towards the phantom flat section with 15 mm distance in both speech and data mode. For all modes, the device was tested at the lowest, middle and highest frequencies in the transmission band. For portable hands free (PHF) usage the Sony Ericsson head set HPB-60 was connected to the DUT. The measured 1-gram averaged SAR values of the DUT towards the body are provided in Table 2.

| Band     | Channel | Measured output power <sup>1</sup> [dBm] | Position | Liquid T [°C] | Measured SAR [W/kg] |                    |
|----------|---------|------------------------------------------|----------|---------------|---------------------|--------------------|
|          |         |                                          |          |               | Left-hand 1g mass   | Right-hand 1g mass |
| GSM 850  | 128     | 33.7                                     | Cheek    | 22.4          | 0.79                | 0.84               |
|          |         |                                          | Tilt     | 22.4          | -                   | -                  |
|          | 190     | 33.8                                     | Cheek    | 22.4          | 0.78                | <b>0.85</b>        |
|          |         |                                          | Tilt     | 22.4          | 0.60                | 0.66               |
|          | 251     | 33.8                                     | Cheek    | 22.4          | 0.82                | 0.85               |
|          |         |                                          | Tilt     | 22.4          | -                   | -                  |
| GSM 1900 | 512     | 30.5                                     | Cheek    | 22.4          | 1.27                | 1.01               |
|          |         |                                          | Tilt     | 22.4          | -                   | -                  |
|          | 661     | 30.4                                     | Cheek    | 22.4          | 1.26                | 1.12               |
|          |         |                                          | Tilt     | 22.4          | 0.48                | 0.36               |
|          | 810     | 30.4                                     | Cheek    | 22.4          | <b>1.27</b>         | 1.08               |
|          |         |                                          | Tilt     | 22.4          | -                   | -                  |
| UMTS 2   | 9262    | 22.4                                     | Cheek    | 22.4          | <b>1.36</b>         | 1.25               |
|          |         |                                          | Tilt     | 22.4          | -                   | -                  |
|          | 9400    | 22.4                                     | Cheek    | 22.4          | 1.33                | 1.29               |
|          |         |                                          | Tilt     | 22.4          | 0.49                | 0.41               |
|          | 9538    | 22.5                                     | Cheek    | 22.4          | 1.30                | 1.25               |
|          |         |                                          | Tilt     | 22.4          | -                   | -                  |

**Table 1: SAR measurement result for Sony Ericsson PY7A3880010 telephone at highest possible output power. Measured towards the head.**

<sup>1</sup> Measured output values were provided by the customer.

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| Band  | Channel | Measured<br>output power <sup>1</sup><br>[dBm] | Position | Liquid<br>T [°C] | Measured SAR [W/kg]  |                       |
|-------|---------|------------------------------------------------|----------|------------------|----------------------|-----------------------|
|       |         |                                                |          |                  | Left-hand<br>1g mass | Right-hand<br>1g mass |
| UMTS5 | 4132    | 24.0                                           | Cheek    | 21.5             | 0.75                 | 0.80                  |
|       |         |                                                | Tilt     | 21.5             | -                    | -                     |
|       | 4183    | 24.0                                           | Cheek    | 21.5             | 0.68                 | 0.72                  |
|       |         |                                                | Tilt     | 21.5             | 0.60                 | 0.59                  |
|       | 4233    | 24.0                                           | Cheek    | 21.5             | <b>0.89</b>          | 0.88                  |
|       |         |                                                | Tilt     | 21.5             | -                    | -                     |

**Table 1 Continued: SAR measurement result for Sony Ericsson PY7A3880010 telephone at highest possible output power. Measured towards the head.**

<sup>1</sup> Measured output values were provided by the customer.

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| Band     | Channel | Measured output power <sup>1</sup><br>[dBm] | Position / Mode | Liquid T [°C] | Measured SAR [W/kg]<br>1g mass |
|----------|---------|---------------------------------------------|-----------------|---------------|--------------------------------|
| GSM 850  | 128     | 33.7                                        | Back / CS       | 23.3          | 0.80                           |
|          |         | 30.8                                        | Back / GPRS     | 23.3          | <b>0.89</b>                    |
|          |         | 27.8                                        | Back / EGPRS    | 23.3          | 0.48                           |
|          |         | 30.8                                        | Front / GPRS    | 23.3          | 0.68                           |
|          | 190     | 33.8                                        | Back / CS       | 23.3          | 0.89                           |
|          |         | 33.8                                        | Back / PHF      | 23.3          | 0.62                           |
|          |         | 30.9                                        | Back / GPRS     | 23.3          | 0.84                           |
|          | 251     | 33.8                                        | Back / CS       | 23.3          | 0.88                           |
|          |         | 30.9                                        | Back / GPRS     | 23.3          | 0.83                           |
| GSM 1900 | 512     | 30.5                                        | Back / CS       | 22.6          | 0.42                           |
|          |         | 28.0                                        | Back / GPRS     | 22.4          | 0.44                           |
|          |         | 30.4                                        | Back / CS       | 22.6          | 0.43                           |
|          | 661     | 30.4                                        | Back / PHF      | 22.6          | 0.41                           |
|          |         | 27.9                                        | Back / GPRS     | 22.4          | 0.49                           |
|          |         | 26.9                                        | Back / EGPRS    | 22.4          | 0.40                           |
|          | 810     | 30.4                                        | Back / CS       | 22.6          | 0.39                           |
|          |         | 27.8                                        | Back / GPRS     | 22.4          | 0.49                           |
| UMTS B2  | 9262    | 27.8                                        | Front / GPRS    | 22.4          | <b>0.57</b>                    |
|          |         | 22.4                                        | Back / CS       | 22.4          | 0.44                           |
|          |         | 22.4                                        | Back / PHF      | 22.4          | 0.38                           |
|          |         | 22.1                                        | Back / HSDPA    | 22.4          | 0.45                           |
|          | 9400    | 22.1                                        | Front / HSDPA   | 22.4          | <b>0.47</b>                    |
|          |         | 22.4                                        | Back / CS       | 22.4          | 0.43                           |
|          |         | 22.1                                        | Back / HSDPA    | 22.4          | 0.44                           |
|          | 9538    | 22.5                                        | Back / CS       | 22.4          | 0.42                           |
|          |         | 22.2                                        | Back / HSDPA    | 22.4          | 0.42                           |
| UMTS B5  | 4132    | 24.0                                        | Back / CS       | 23.1          | 0.91                           |
|          |         | 23.5                                        | Back / HSDPA    | 23.1          | 0.85                           |
|          | 4183    | 24.0                                        | Back / CS       | 23.1          | 0.86                           |
|          |         | 24.0                                        | Back / PHF      | 23.1          | 0.71                           |
|          |         | 23.6                                        | Back / HSDPA    | 23.1          | 0.84                           |
|          | 4233    | 24.0                                        | Back / CS       | 23.1          | <b>0.93</b>                    |
|          |         | 23.6                                        | Back / HSDPA    | 23.1          | 0.86                           |
|          |         | 24.0                                        | Front / CS      | 23.1          | 0.73                           |

**Table 2: SAR measurement result for Sony Ericsson PY7A3880010 telephone at highest possible output power. Measured towards the body.**

<sup>1</sup> Measured output values were provided by the customer.

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- [ 1 ] R.Plicanic. "SAR Measurement Specification of Wireless Handsets". Sony Ericsson SAR Test Laboratory internal document GUG/N 03:141
- [ 2 ] FCC. "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields: Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radio Frequency Emissions." Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97- 01).
- [ 3 ] IEEE. "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques." Std 1528-2003. June. 2003.
- [ 4 ] IEC 62209-1. "Procedure to measure the Specific Absorption Rate (SAR) for hand-held mobile wireless devices in the frequency range of 300 MHz to 3 GHz". February 2005.
- [ 5 ] FCC KDB648474. "SAR Evaluation Consideration for HANDSETS with Multiple Transmitters and Antenna", April 2008.
- [ 6 ] 3GPP TS 34.121 Universal Mobile Telecommunications System (UMTS); Terminal Conformance Specification, Radio Transmission and Reception (FDD).

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## Appendix

### 9.1 Photographs of the device under test



Front & Back



Sides



Back side with battery



Top and Bottom



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## 9.2 Device position at SAM Twin Phantom



*DUT position towards the head: Cheek (touch) position*



*DUT position towards the head: Tilt (touch + 15°) position*

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*DUT in body position with 15 mm distance*



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### 9.3

#### Attachments

- System validation
- Measurement plots for head and body position
- Probe calibration
- Dipole calibration

Date/Time: 12/4/2008 8:03:46 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D850-04-12-08****DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:484**

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

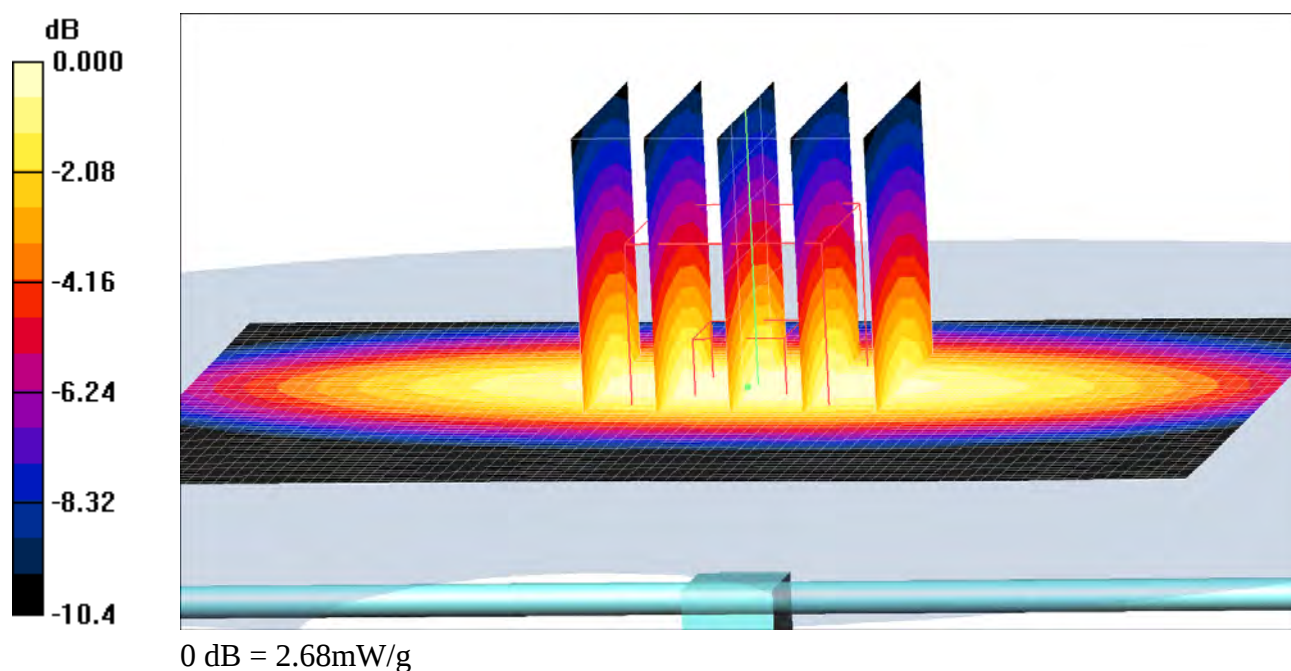
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.87 \text{ mho/m}$ ;  $\epsilon_r = 40.4$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-2; Type: SAM; Serial: 1025
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 2.66 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 57.0 V/m; Power Drift = -0.088 dB  
Peak SAR (extrapolated) = 3.42 W/kg  
**SAR(1 g) = 2.46 mW/g; SAR(10 g) = 1.63 mW/g**  
Maximum value of SAR (measured) = 2.68 mW/g



Date/Time: 12/17/2008 9:02:16 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D850-Body-17-12-08****DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:484**

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

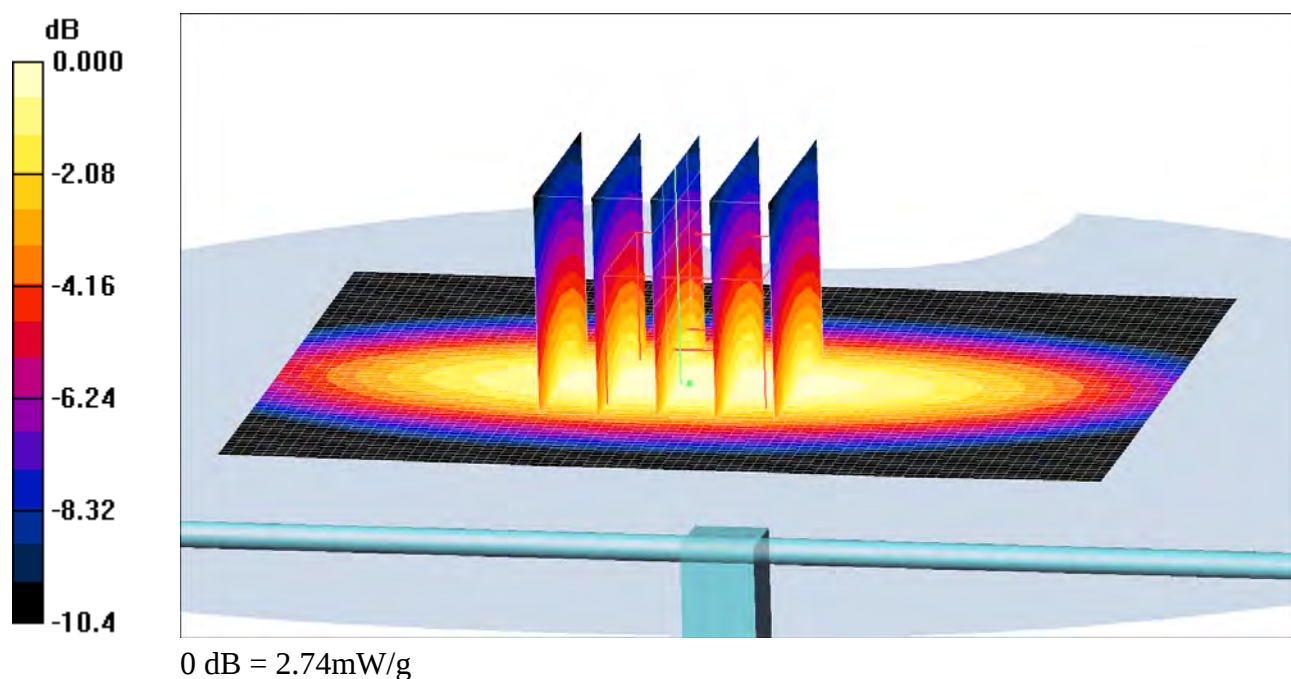
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 53.6$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-3; Type: SAM; Serial: 1436
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 2.76 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 55.5 V/m; Power Drift = -0.058 dB  
Peak SAR (extrapolated) = 3.47 W/kg  
**SAR(1 g) = 2.54 mW/g; SAR(10 g) = 1.69 mW/g**  
Maximum value of SAR (measured) = 2.74 mW/g



Date/Time: 12/15/2008 12:24:26 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D850-15-12-08****DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:484**

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

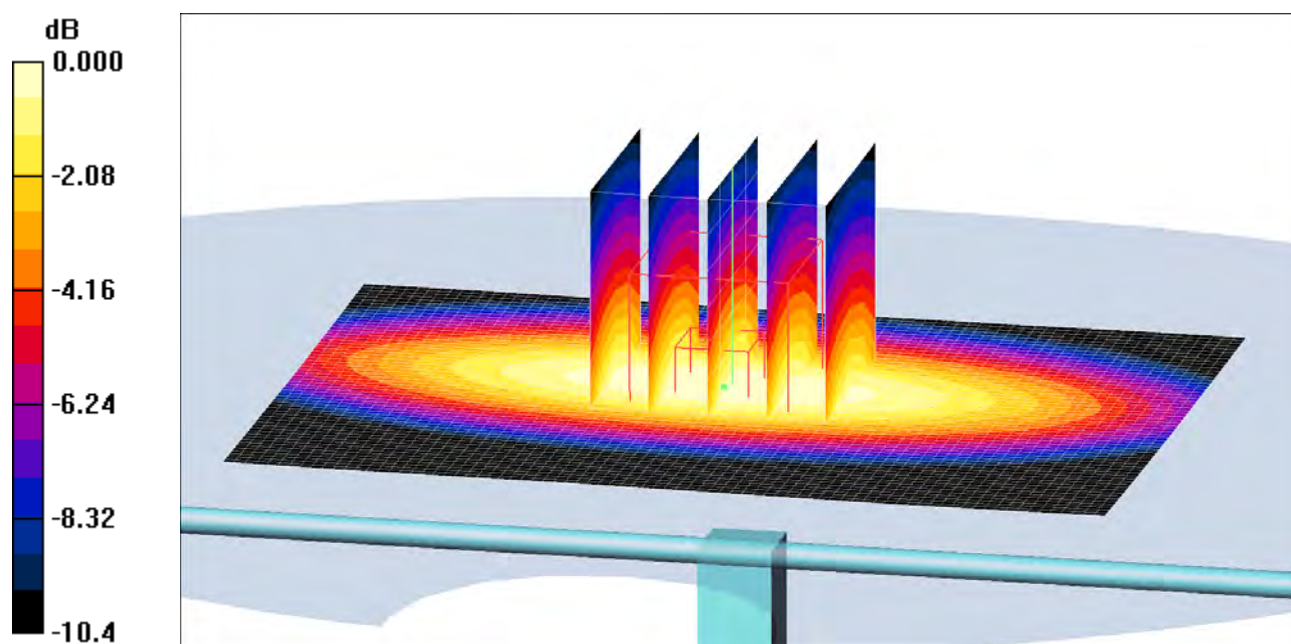
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.86 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-2; Type: SAM; Serial: 1025
  - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 2.70 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 58.3 V/m; Power Drift = -0.035 dB  
Peak SAR (extrapolated) = 3.50 W/kg  
**SAR(1 g) = 2.5 mW/g; SAR(10 g) = 1.66 mW/g**  
Maximum value of SAR (measured) = 2.71 mW/g



Date/Time: 12/18/2008 9:10:02 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D850-18-12-08****DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:484**

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

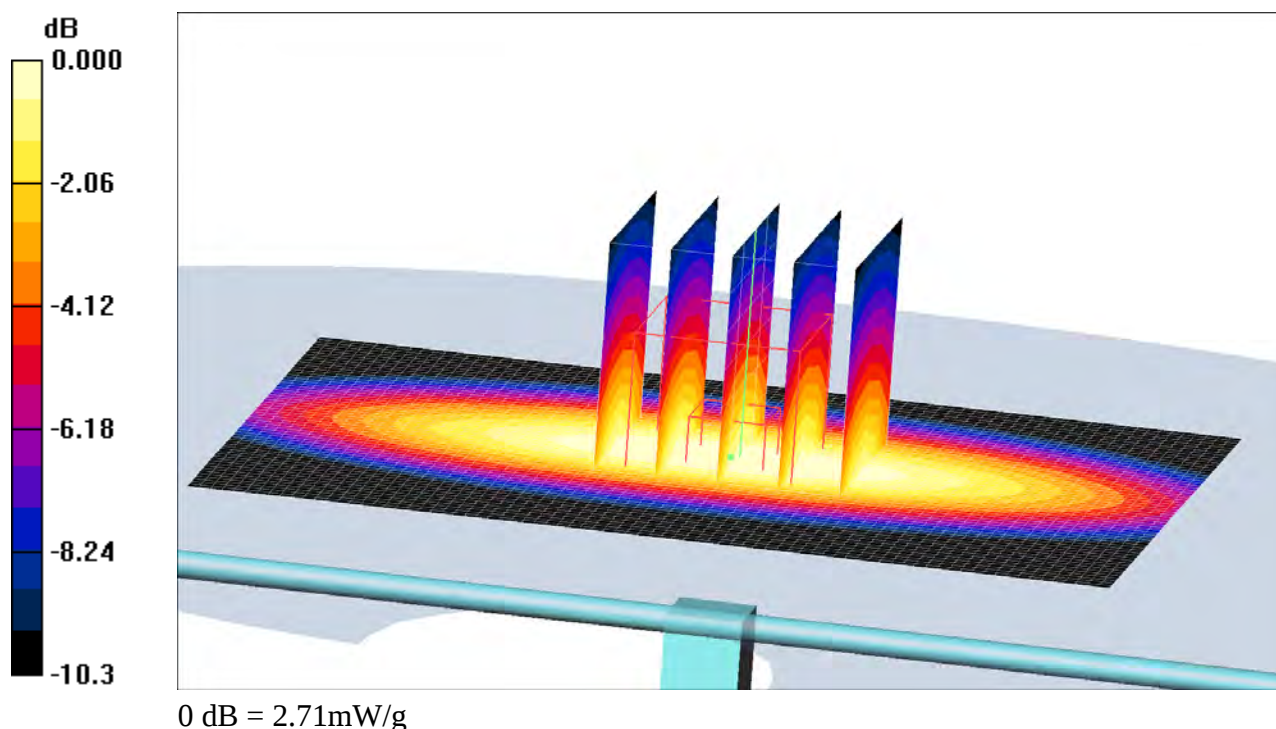
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 53.5$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-3; Type: SAM; Serial: 1436
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 2.74 mW/g  
**d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  
 $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 55.5 V/m; Power Drift = -0.086 dB  
Peak SAR (extrapolated) = 3.42 W/kg  
**SAR(1 g) = 2.5 mW/g; SAR(10 g) = 1.67 mW/g**  
Maximum value of SAR (measured) = 2.71 mW/g



Date/Time: 12/5/2008 9:44:46 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D1900-05-12-08****DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5D002**

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

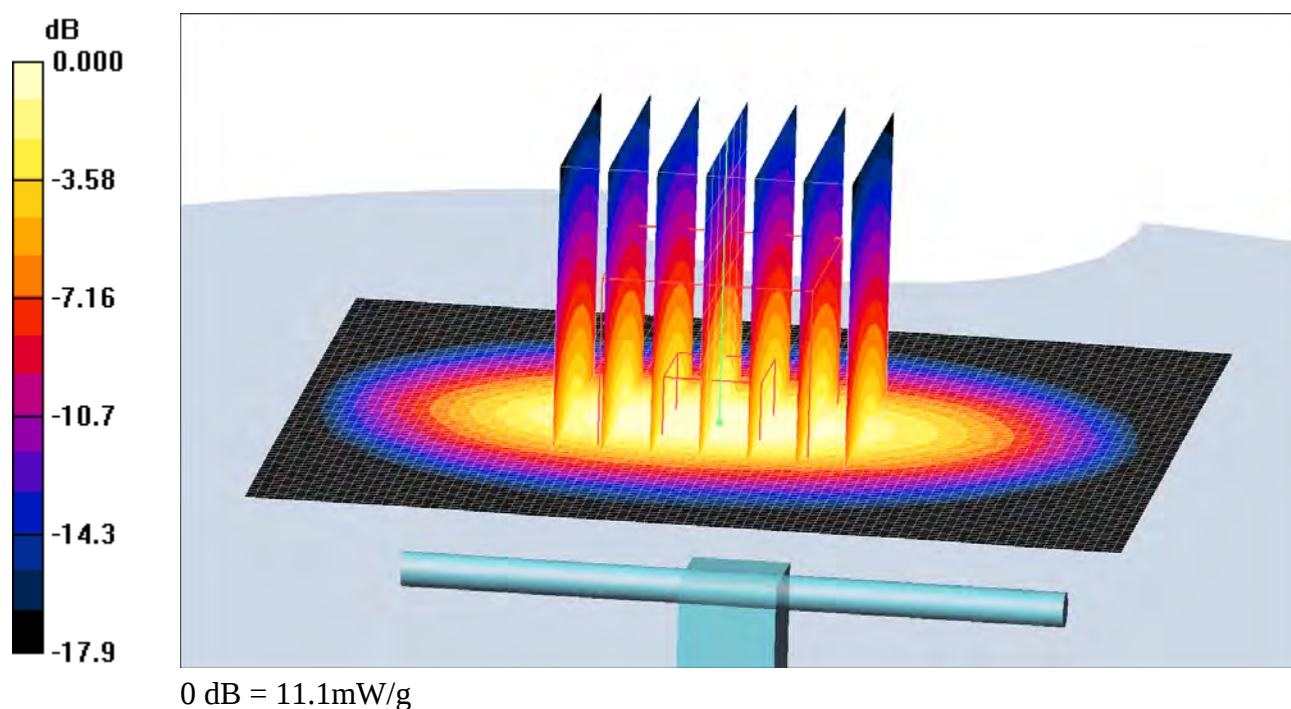
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 38$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 11.1 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  
dx=5mm, dy=5mm, dz=5mm  
Reference Value = 90.7 V/m; Power Drift = -0.013 dB  
Peak SAR (extrapolated) = 17.7 W/kg  
**SAR(1 g) = 9.77 mW/g; SAR(10 g) = 5.08 mW/g**  
Maximum value of SAR (measured) = 11.1 mW/g



Date/Time: 12/15/2008 10:12:34 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D1900-Body-15-12-08****DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5D002**

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

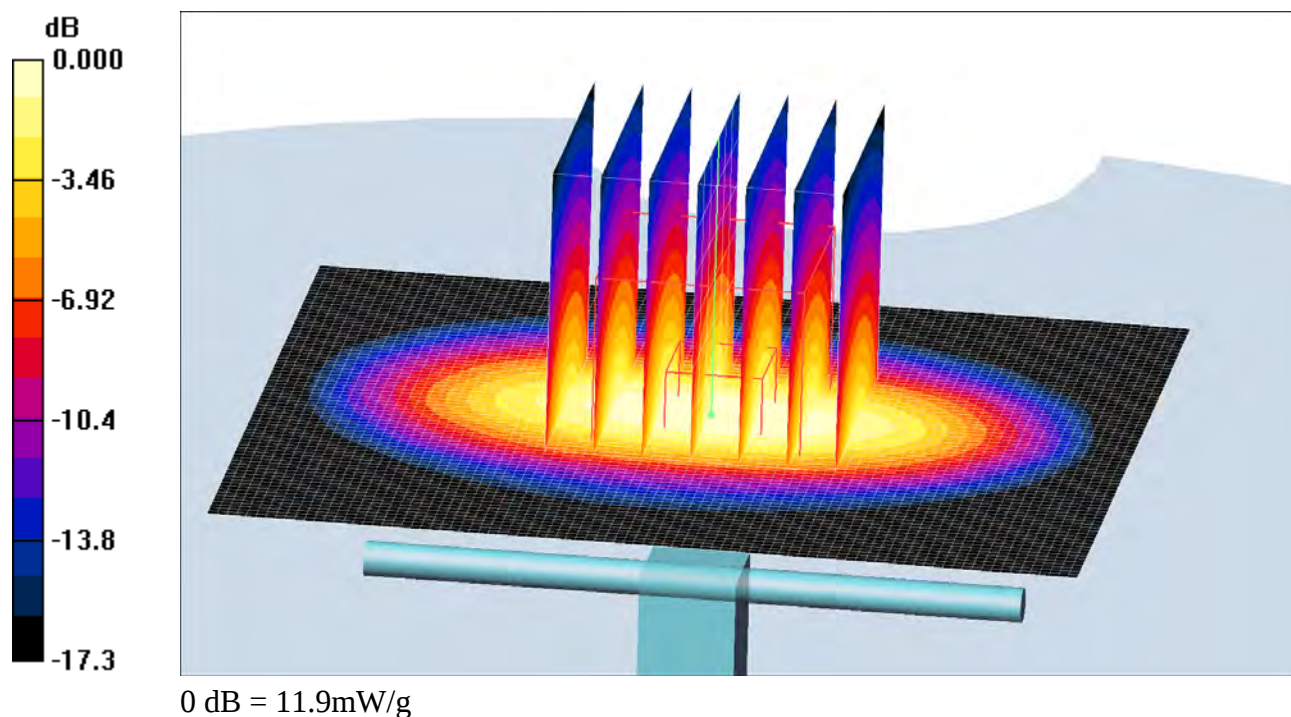
Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.57 \text{ mho/m}$ ;  $\epsilon_r = 50.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-3; Type: SAM; Serial: 1436
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 12.0 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  
dx=5mm, dy=5mm, dz=5mm  
Reference Value = 90.8 V/m; Power Drift = -0.025 dB  
Peak SAR (extrapolated) = 19.1 W/kg  
**SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.49 mW/g**  
Maximum value of SAR (measured) = 11.9 mW/g



Date/Time: 12/16/2008 10:22:14 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D1900-16-12-08****DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5D002**

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

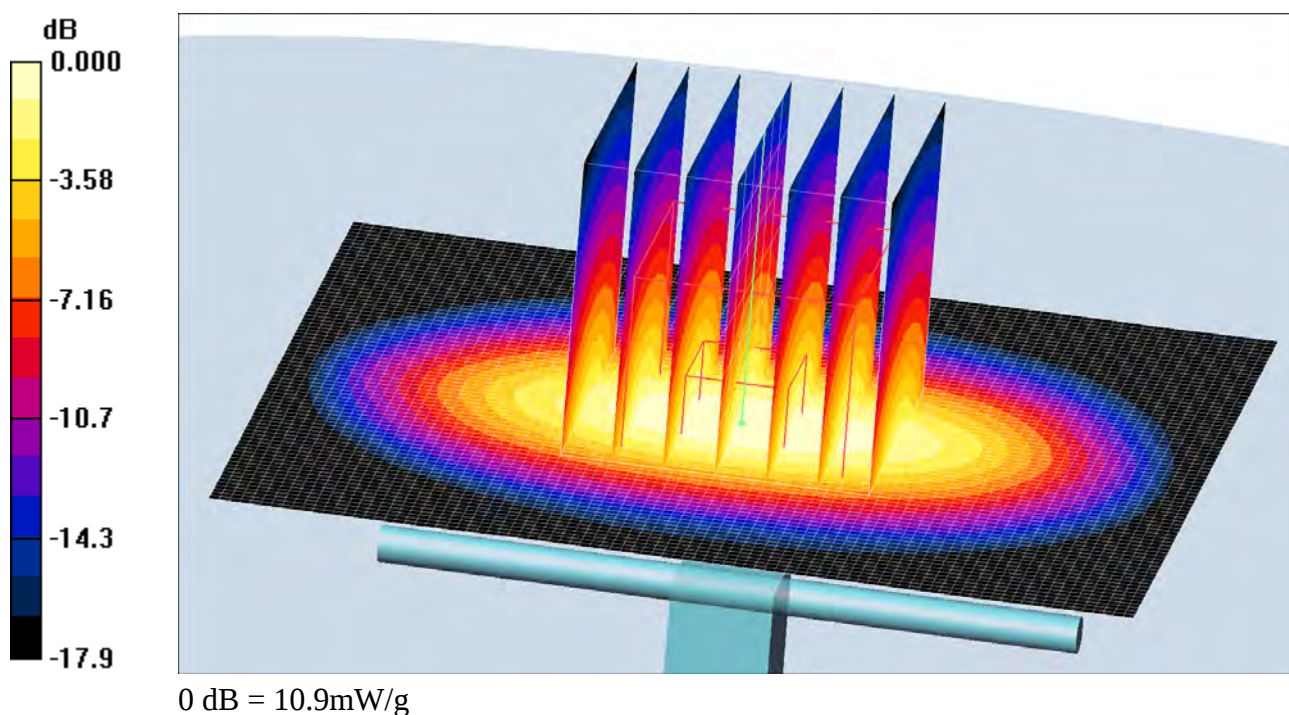
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 11.0 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  
dx=5mm, dy=5mm, dz=5mm  
Reference Value = 91.3 V/m; Power Drift = -0.026 dB  
Peak SAR (extrapolated) = 17.4 W/kg  
**SAR(1 g) = 9.66 mW/g; SAR(10 g) = 5.02 mW/g**  
Maximum value of SAR (measured) = 10.9 mW/g



Date/Time: 12/9/2008 10:43:23 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D1900-Body-09-12-08****DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5D002**

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

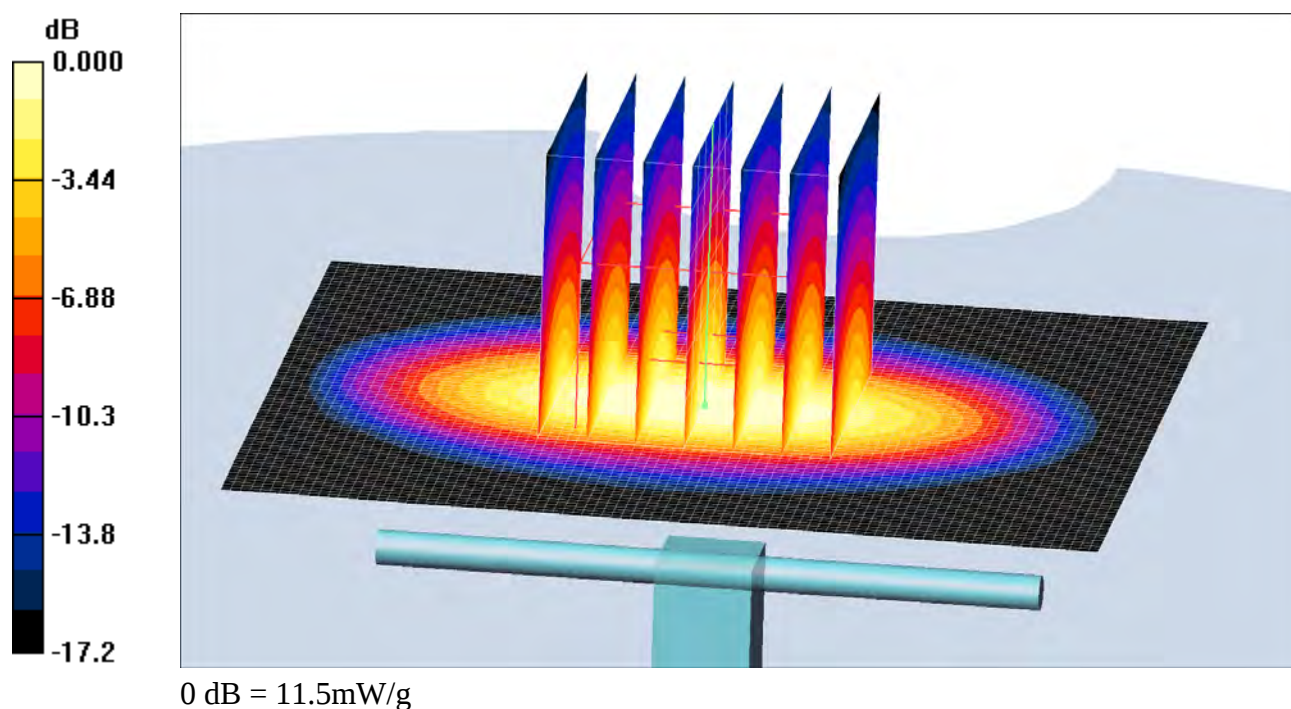
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-3; Type: SAM; Serial: 1436
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 11.6 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  
dx=5mm, dy=5mm, dz=5mm  
Reference Value = 90.4 V/m; Power Drift = -0.016 dB  
Peak SAR (extrapolated) = 18.4 W/kg  
**SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.32 mW/g**  
Maximum value of SAR (measured) = 11.5 mW/g



Date/Time: 12/4/2008 9:41:44 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-LeftHandSide-GSM850-Tilt-Middle****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.87$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.651 mW/g

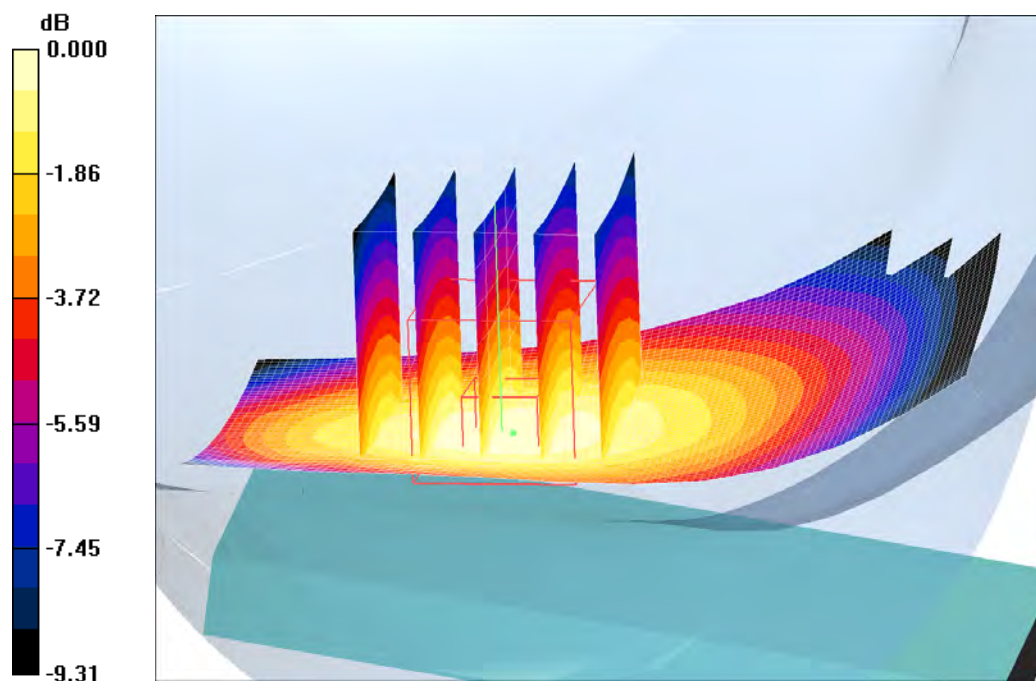
**Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.0 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.746 W/kg

**SAR(1 g) = 0.604 mW/g; SAR(10 g) = 0.439 mW/g**

Maximum value of SAR (measured) = 0.645 mW/g



0 dB = 0.645mW/g

Date/Time: 12/4/2008 10:30:06 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-LeftHandSide-GSM850-Touch-High****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

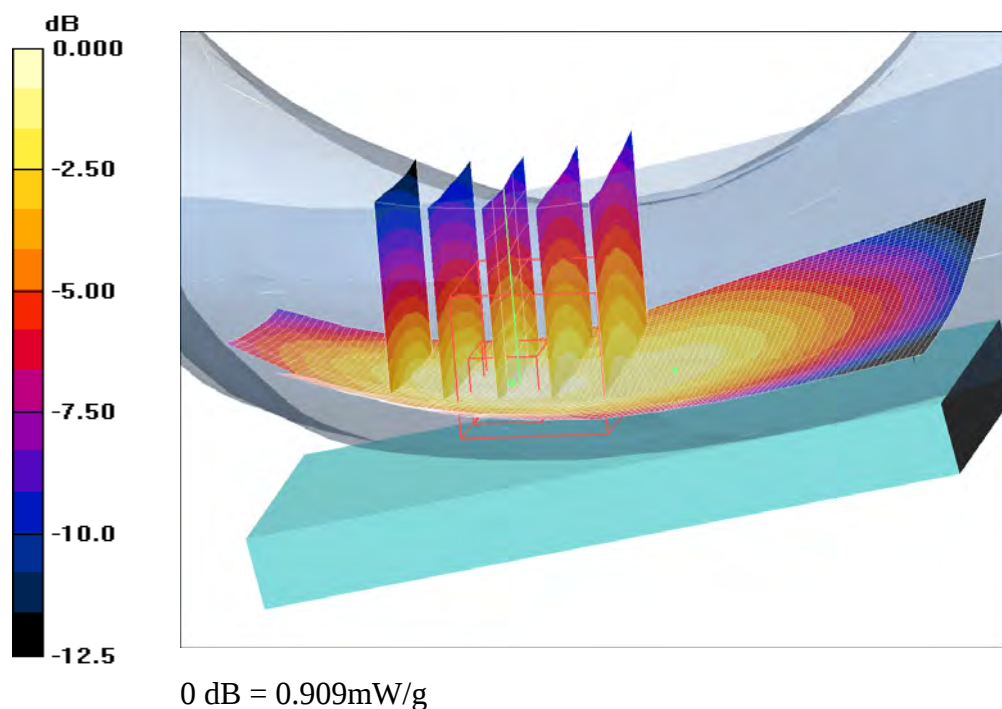
Medium parameters used:  $f = 848.8 \text{ MHz}$ ;  $\sigma = 0.87 \text{ mho/m}$ ;  $\epsilon_r = 40.2$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Touch position - High/Area Scan (61x111x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$ Maximum value of SAR (interpolated) =  $0.898 \text{ mW/g}$ **Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $16.1 \text{ V/m}$ ; Power Drift =  $0.048 \text{ dB}$ Peak SAR (extrapolated) =  $1.15 \text{ W/kg}$ **SAR(1 g) =  $0.822 \text{ mW/g}$ ; SAR(10 g) =  $0.562 \text{ mW/g}$** Maximum value of SAR (measured) =  $0.909 \text{ mW/g}$ 

Date/Time: 12/4/2008 11:11:03 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-RightHandSide-GSM850-Tilt-Middle****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

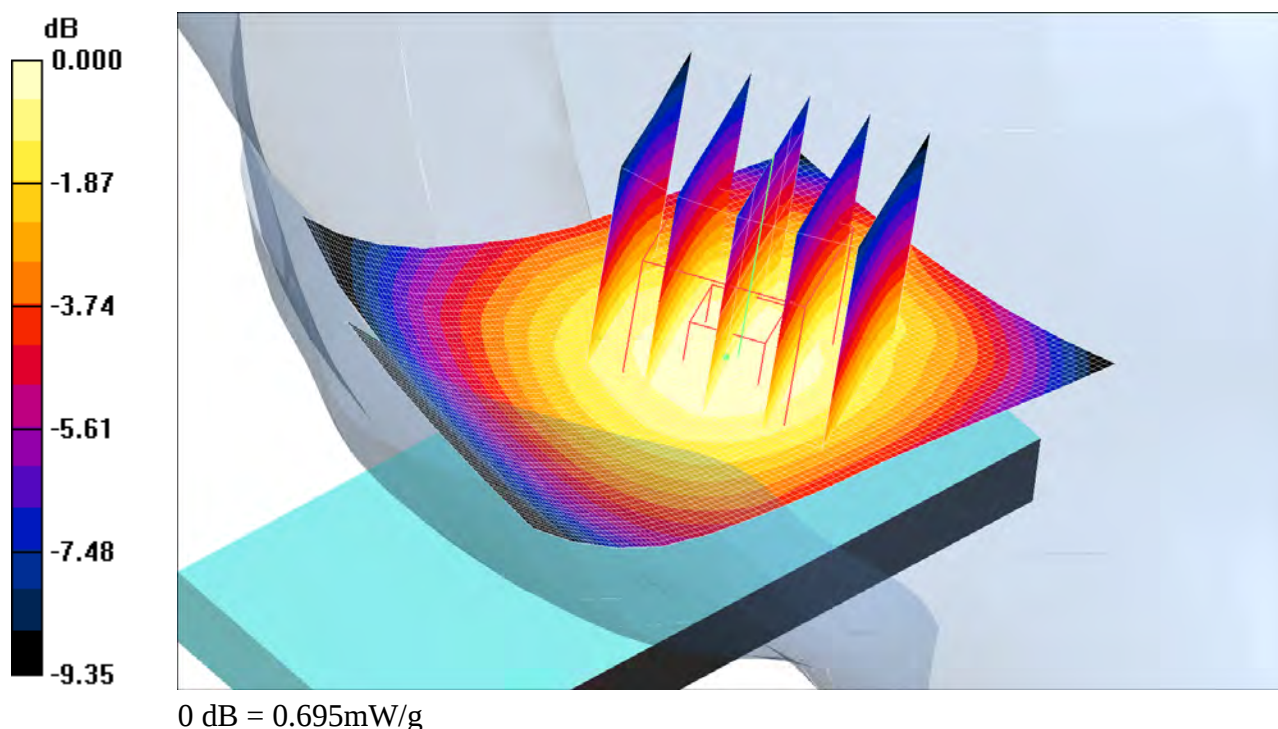
Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.87$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-2; Type: SAM; Serial: 1025
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.705 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 23.1 V/m; Power Drift = -0.017 dB  
Peak SAR (extrapolated) = 0.806 W/kg  
**SAR(1 g) = 0.655 mW/g; SAR(10 g) = 0.478 mW/g**  
Maximum value of SAR (measured) = 0.695 mW/g



Date/Time: 12/4/2008 11:32:02 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-RightHandSide-GSM850-Touch-Low****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.858$  mho/m;  $\epsilon_r = 40.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Touch position - Low/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.896 mW/g

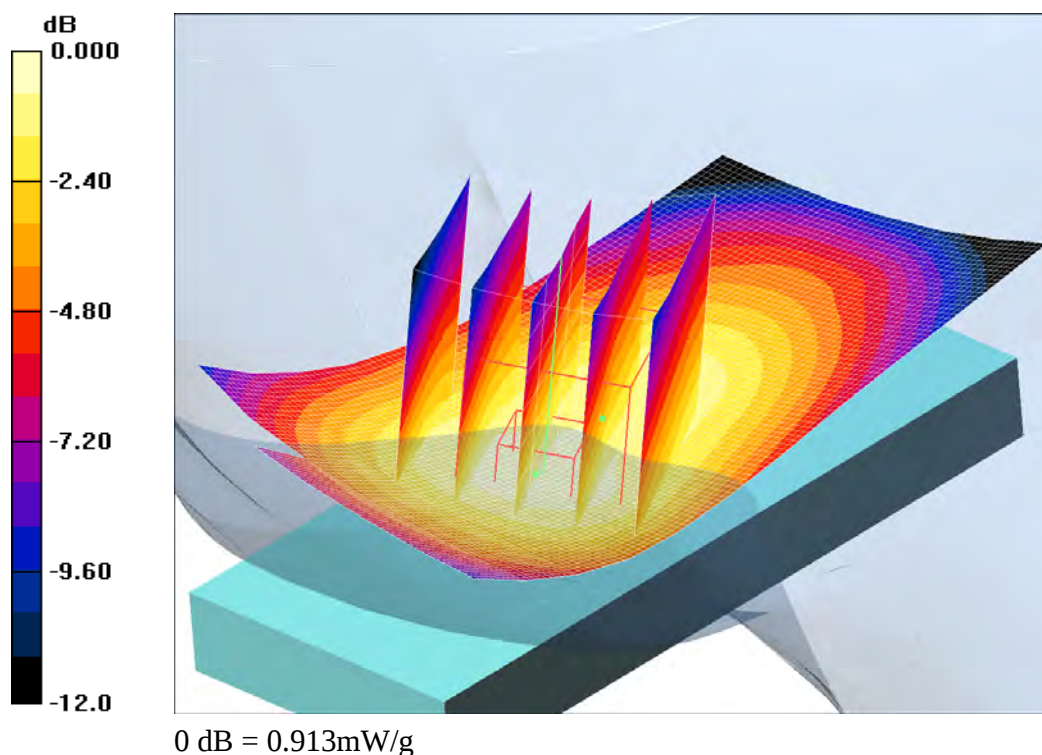
**Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.5 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.839 mW/g; SAR(10 g) = 0.597 mW/g**

Maximum value of SAR (measured) = 0.913 mW/g



Date/Time: 12/5/2008 10:52:26 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-LeftHandSide-GSM1900-Tilt-Middle****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

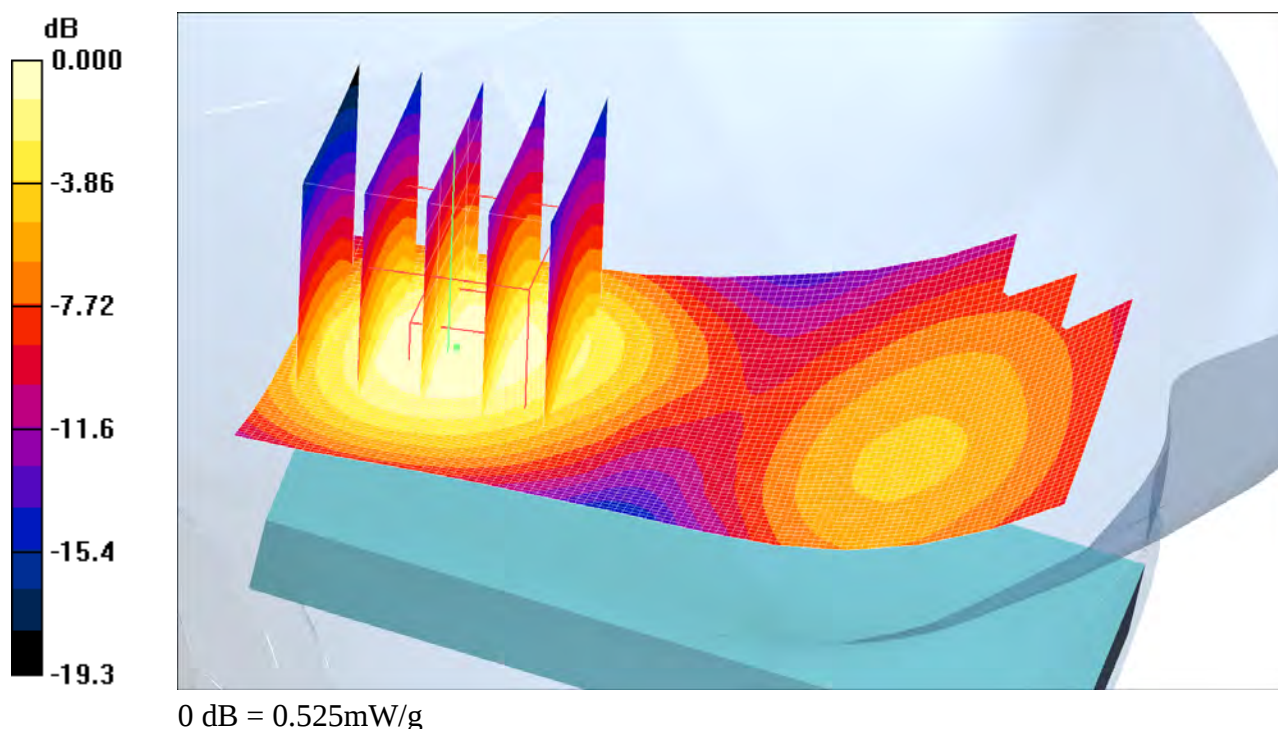
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.540 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 16.8 V/m; Power Drift = -0.017 dB  
Peak SAR (extrapolated) = 0.742 W/kg  
**SAR(1 g) = 0.482 mW/g; SAR(10 g) = 0.282 mW/g**  
Maximum value of SAR (measured) = 0.525 mW/g



Date/Time: 12/5/2008 11:29:03 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-LeftHandSide-GSM1900-Touch-High****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

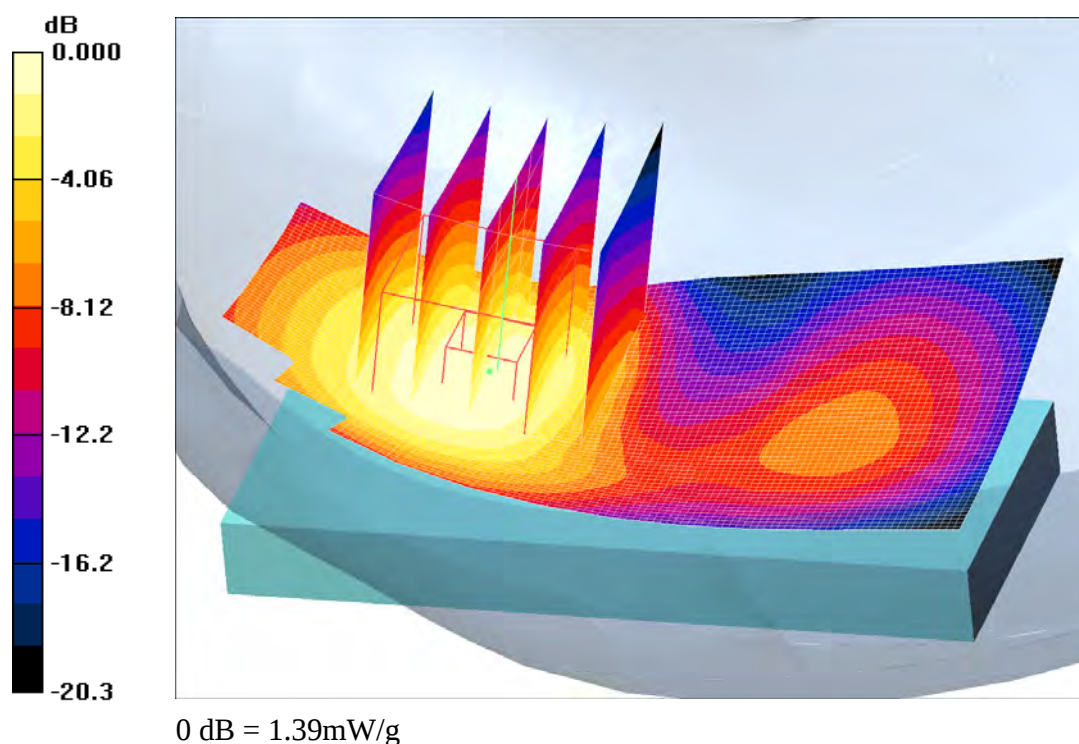
Medium parameters used:  $f = 1909.8 \text{ MHz}$ ;  $\sigma = 1.47 \text{ mho/m}$ ;  $\epsilon_r = 38$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Touch - High/Area Scan (61x111x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$ Maximum value of SAR (interpolated) =  $1.38 \text{ mW/g}$ **Touch - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $10.4 \text{ V/m}$ ; Power Drift =  $-0.107 \text{ dB}$ Peak SAR (extrapolated) =  $1.85 \text{ W/kg}$ **SAR(1 g) =  $1.27 \text{ mW/g}$ ; SAR(10 g) =  $0.775 \text{ mW/g}$** Maximum value of SAR (measured) =  $1.39 \text{ mW/g}$ 

Date/Time: 12/5/2008 12:07:45 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-RightHandSide-GSM1900-Tilt-Middle****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.394 mW/g

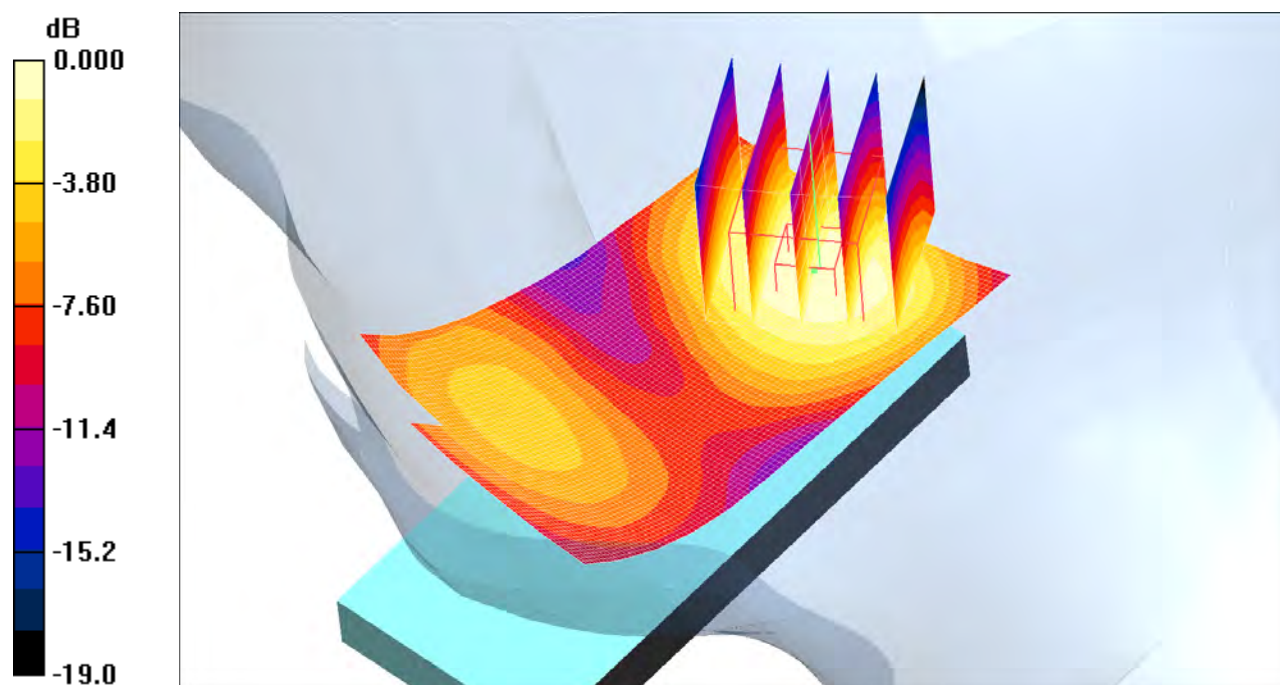
**Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.544 W/kg

**SAR(1 g) = 0.360 mW/g; SAR(10 g) = 0.215 mW/g**

Maximum value of SAR (measured) = 0.393 mW/g



0 dB = 0.393mW/g

Date/Time: 12/5/2008 11:52:04 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-RightHandSide-GSM1900-Touch-Middle****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

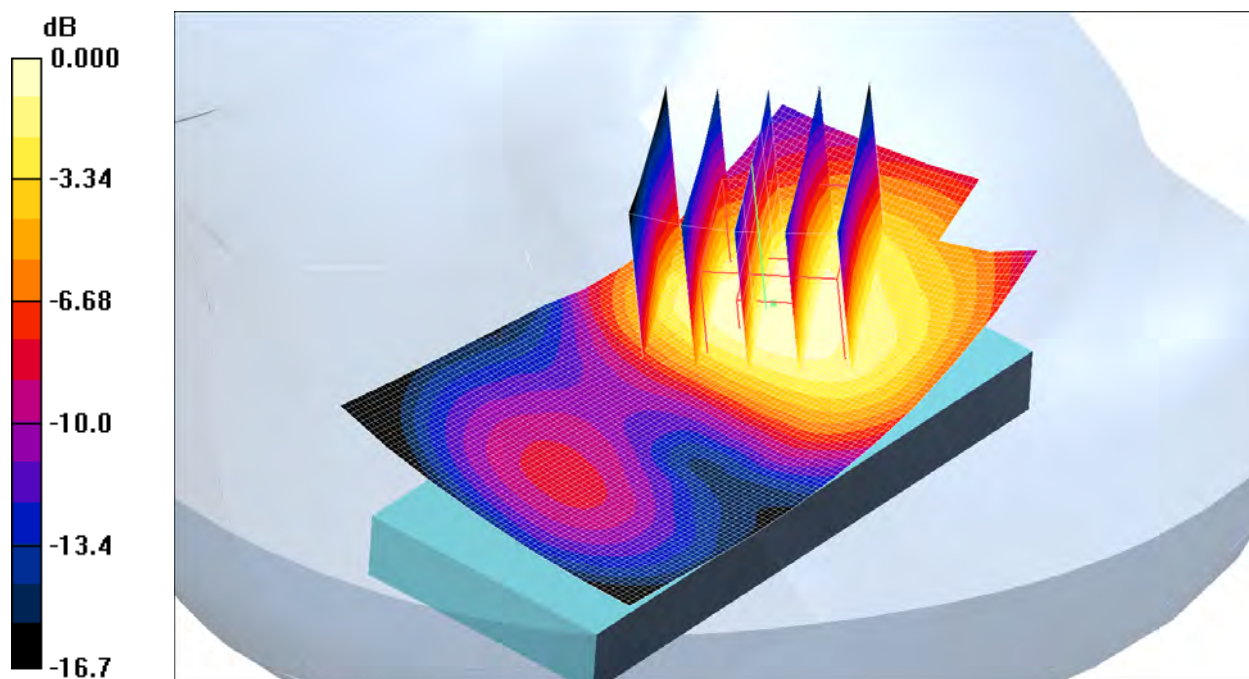
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 1.23 mW/g  
**Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 10.2 V/m; Power Drift = -0.212 dB  
Peak SAR (extrapolated) = 1.60 W/kg  
**SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.682 mW/g**  
Maximum value of SAR (measured) = 1.23 mW/g



0 dB = 1.23mW/g

Date/Time: 12/16/2008 11:22:28 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-LeftHandSide-UMTS2-Tilt-Middle****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

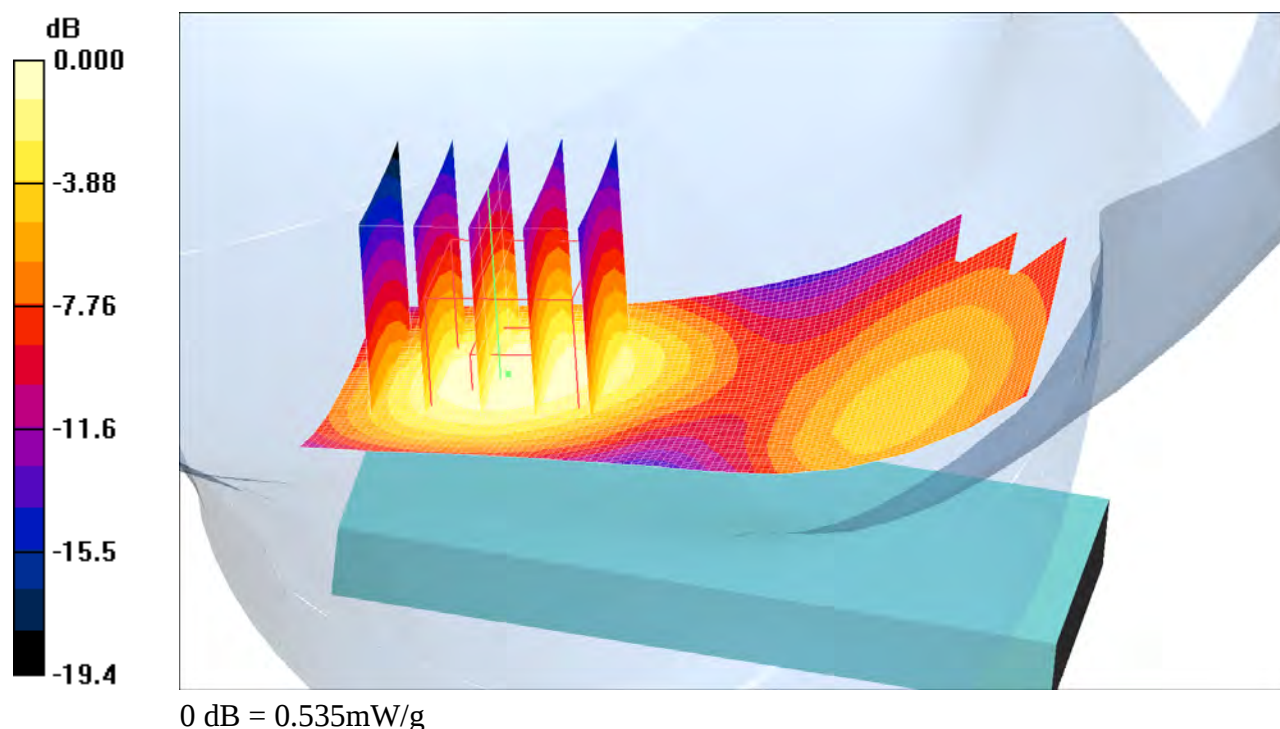
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.545 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 15.0 V/m; Power Drift = 0.023 dB  
Peak SAR (extrapolated) = 0.752 W/kg  
**SAR(1 g) = 0.491 mW/g; SAR(10 g) = 0.290 mW/g**  
Maximum value of SAR (measured) = 0.535 mW/g



Date/Time: 12/16/2008 11:37:30 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-LeftHandSide-UMTS2-Touch-Low****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 38.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Touch position - Low/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.51 mW/g

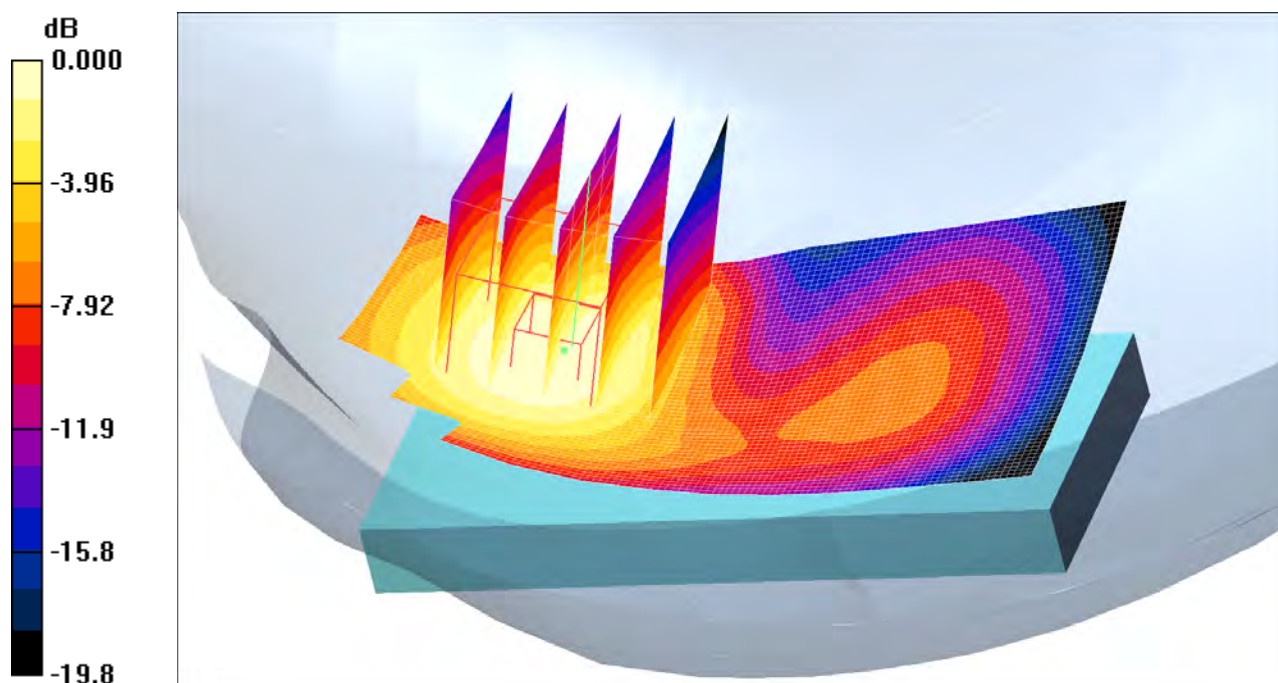
**Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.69 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 1.97 W/kg

**SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.827 mW/g**

Maximum value of SAR (measured) = 1.44 mW/g



0 dB = 1.44mW/g

Date/Time: 12/16/2008 2:05:09 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-RightHandSide-UMTS2-Tilt-Middle****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.453 mW/g

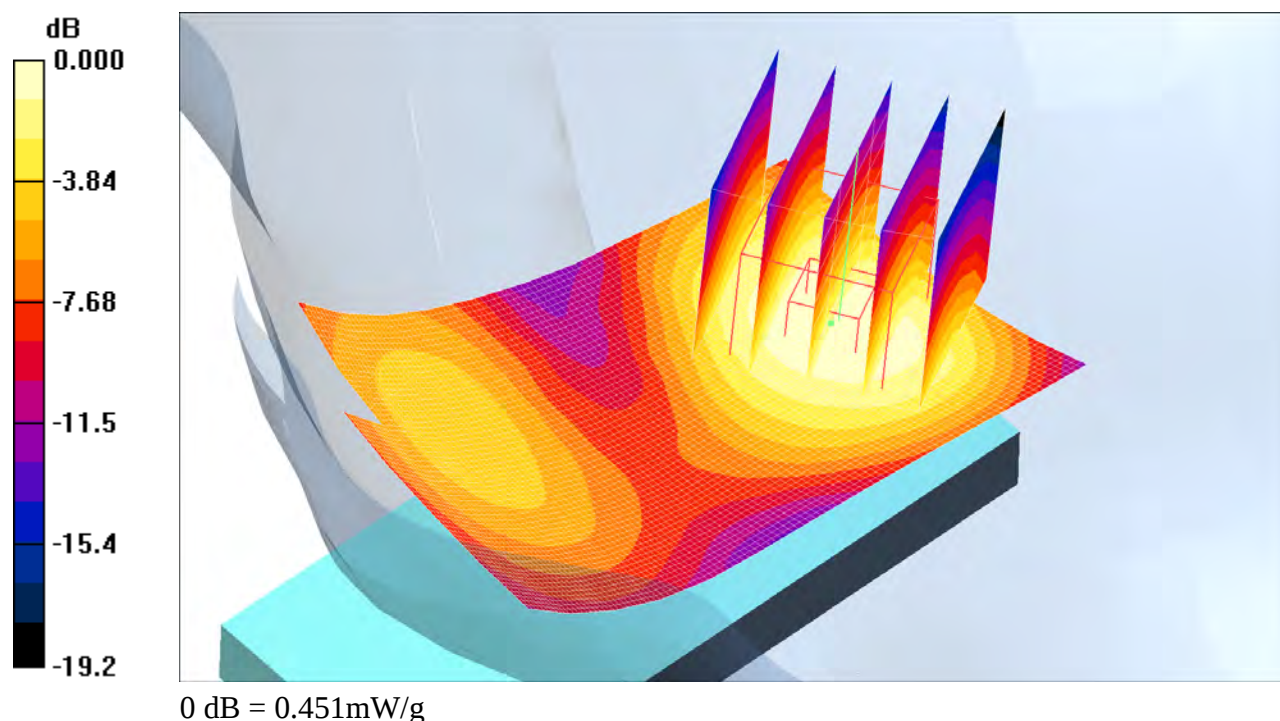
**Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.9 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 0.622 W/kg

**SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.247 mW/g**

Maximum value of SAR (measured) = 0.451 mW/g



Date/Time: 12/16/2008 1:49:45 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-RightHandSide-UMTS2-Touch-Middle****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

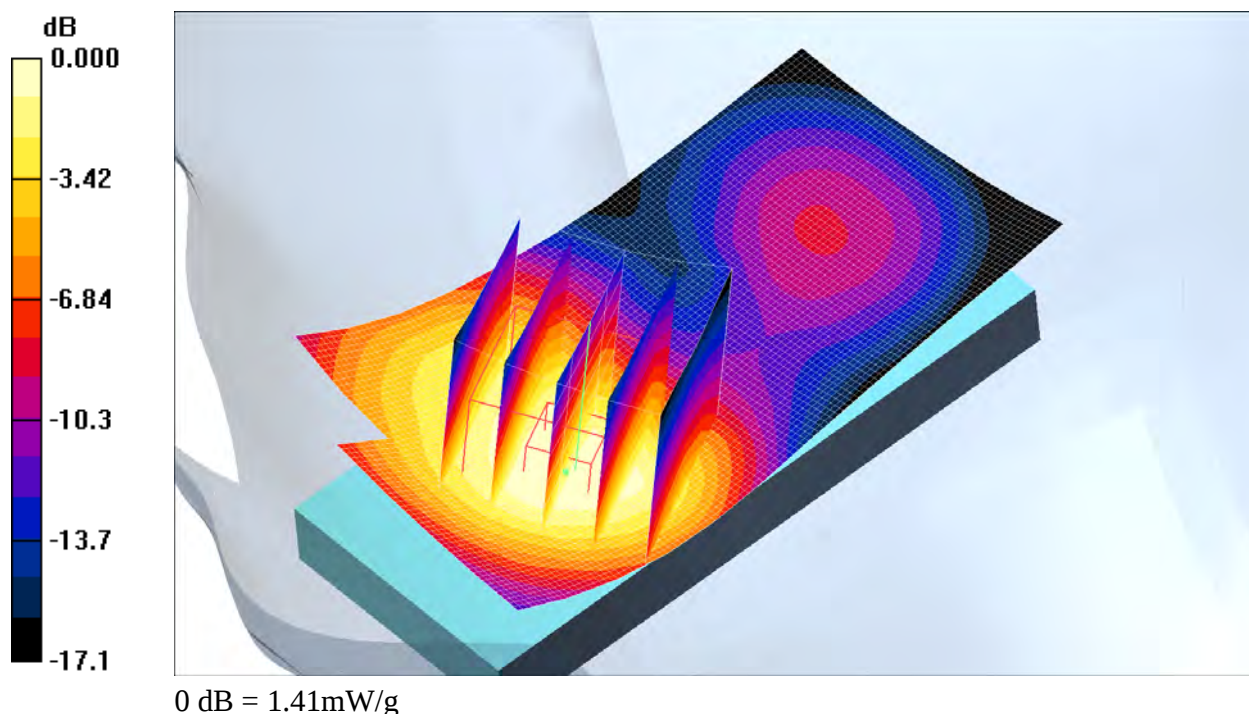
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 1.42 mW/g
- Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 9.55 V/m; Power Drift = -0.075 dB  
Peak SAR (extrapolated) = 1.89 W/kg  
**SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.778 mW/g**  
Maximum value of SAR (measured) = 1.41 mW/g



Date/Time: 12/15/2008 1:55:22 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-LeftHandSide-UMTS5-Tilt-Middle****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 836.6 MHz; Duty Cycle: 1:1

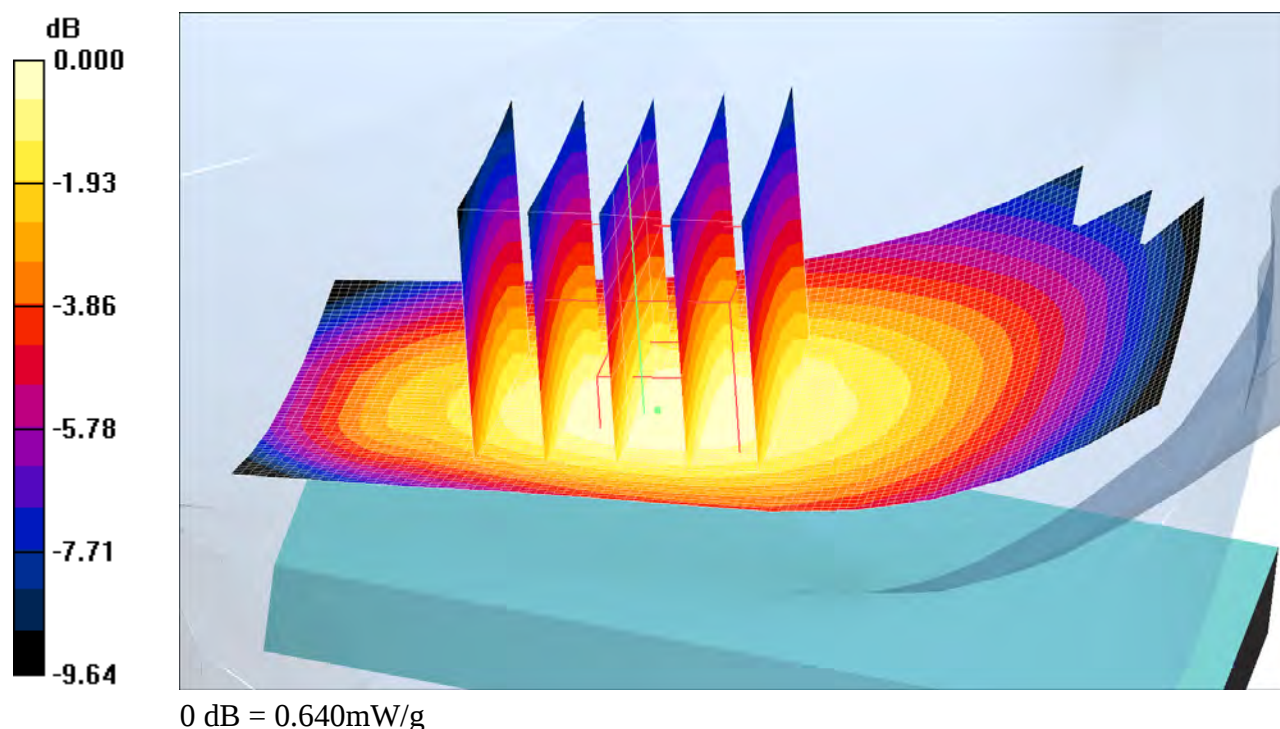
Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.86$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-2; Type: SAM; Serial: 1025
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.640 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 20.3 V/m; Power Drift = 0.070 dB  
Peak SAR (extrapolated) = 0.741 W/kg  
**SAR(1 g) = 0.599 mW/g; SAR(10 g) = 0.435 mW/g**  
Maximum value of SAR (measured) = 0.640 mW/g



Date/Time: 12/15/2008 2:46:10 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-LeftHandSide-UMTS5-Touch-High****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 846.6 MHz; Duty Cycle: 1:1

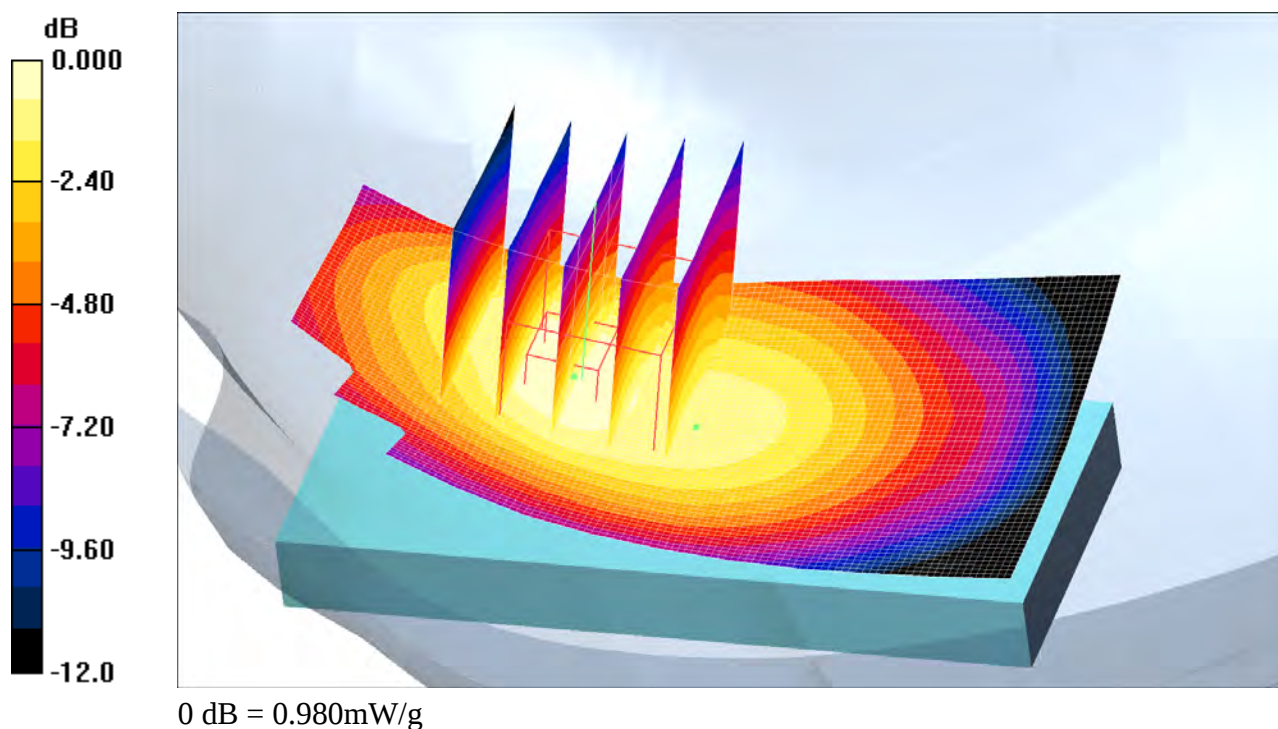
Medium parameters used:  $f = 846.6$  MHz;  $\sigma = 0.87$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-2; Type: SAM; Serial: 1025
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - High/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.965 mW/g
- Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 15.3 V/m; Power Drift = -0.044 dB  
Peak SAR (extrapolated) = 1.25 W/kg  
**SAR(1 g) = 0.893 mW/g; SAR(10 g) = 0.610 mW/g**  
Maximum value of SAR (measured) = 0.980 mW/g



Date/Time: 12/15/2008 3:28:50 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-RightHandSide-UMTS5-Tilt-Middle****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.86$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.631 mW/g

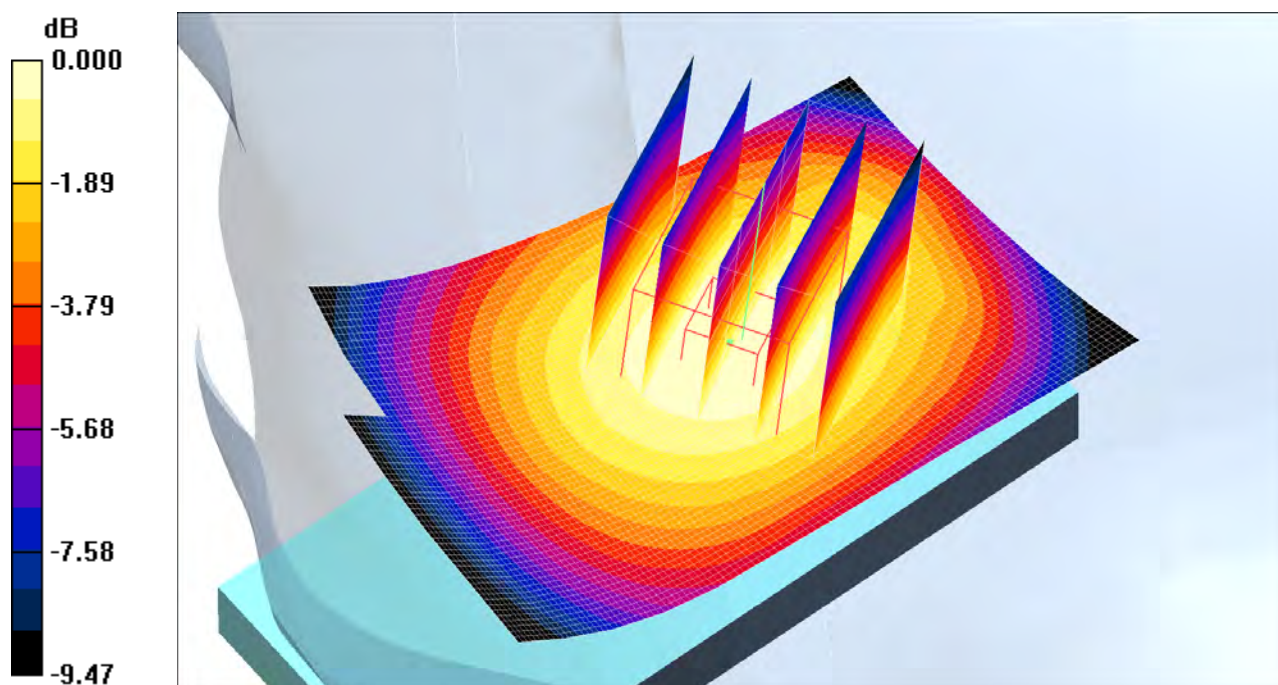
**Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.8 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.721 W/kg

**SAR(1 g) = 0.587 mW/g; SAR(10 g) = 0.431 mW/g**

Maximum value of SAR (measured) = 0.621 mW/g



0 dB = 0.621mW/g

Date/Time: 12/16/2008 9:11:11 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Kate-RightHandSide-UMTS5-Touch-High****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 846.6$  MHz;  $\sigma = 0.87$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Touch position - High/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.960 mW/g

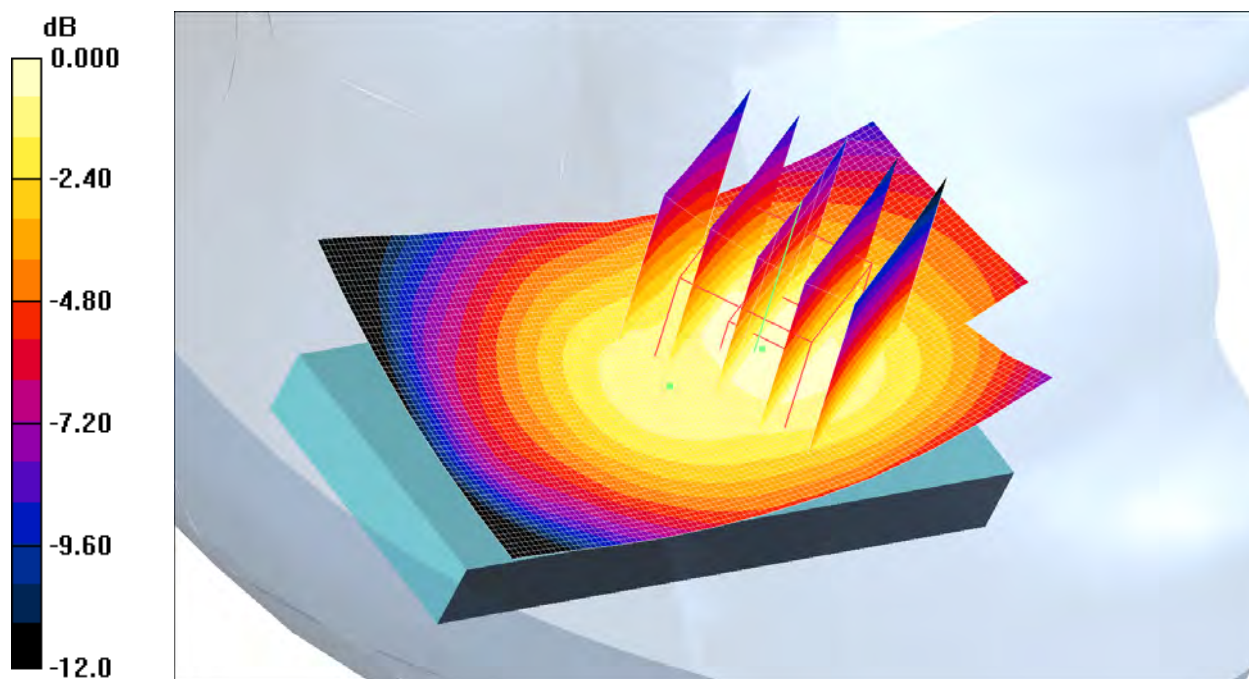
**Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.7 V/m; Power Drift = 0.131 dB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.877 mW/g; SAR(10 g) = 0.613 mW/g**

Maximum value of SAR (measured) = 0.950 mW/g



0 dB = 0.950mW/g

Date/Time: 12/17/2008 11:13:56 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-850-Speech-Middle****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body 2/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.959 mW/g

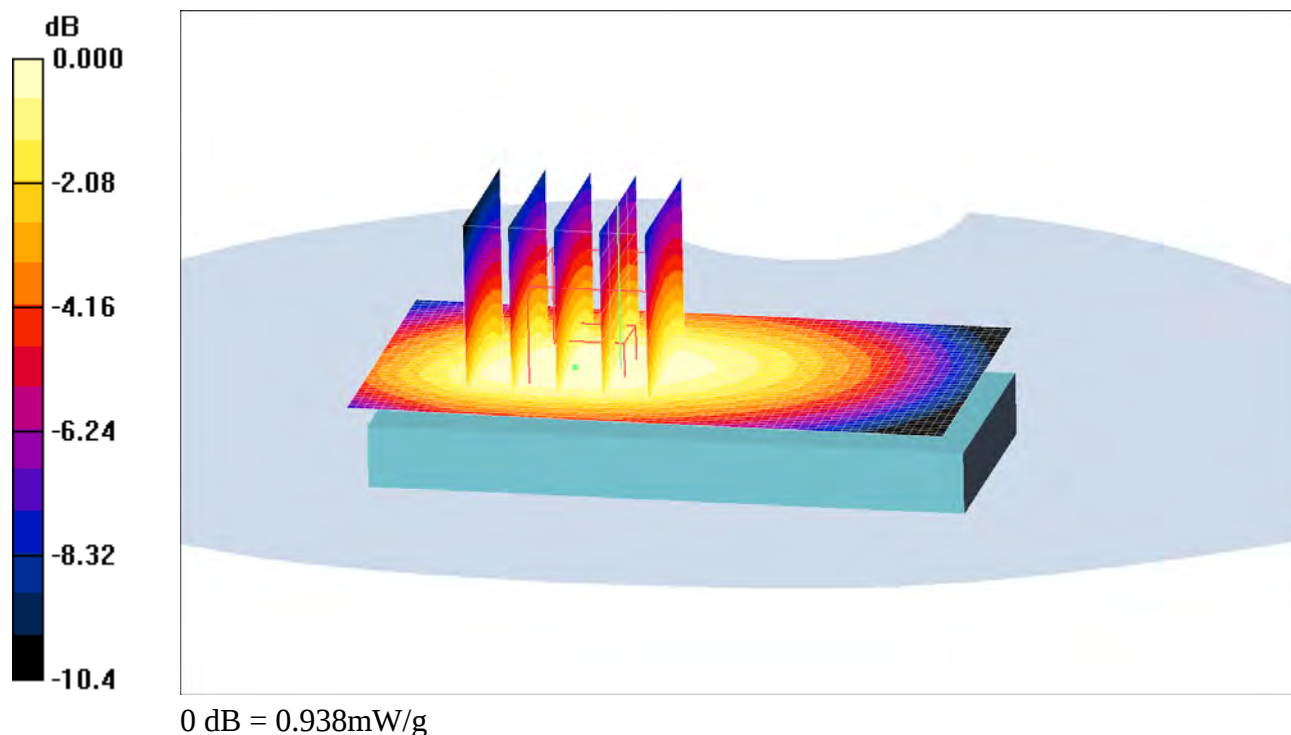
**Body 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.5 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.891 mW/g; SAR(10 g) = 0.647 mW/g**

Maximum value of SAR (measured) = 0.938 mW/g



Date/Time: 12/17/2008 11:26:24 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-850-Speech-Middle-PHF****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

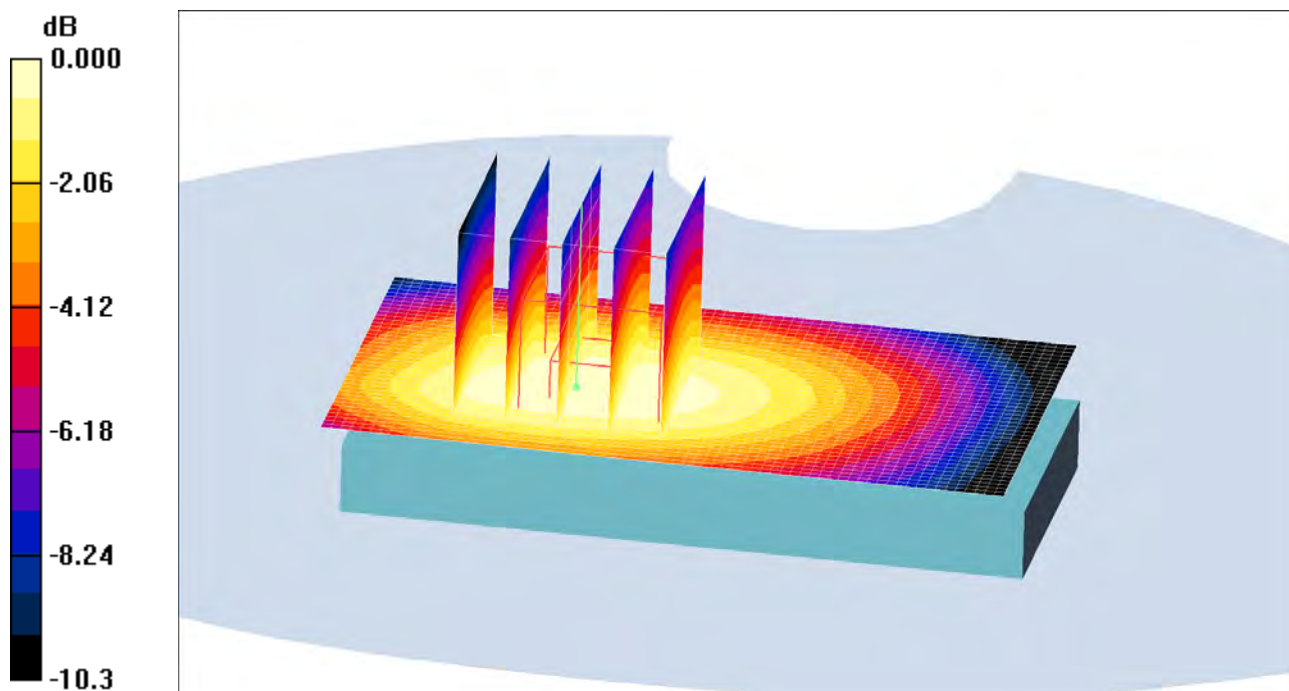
Medium parameters used:  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 53.6$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body PHF/Area Scan (41x71x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ Maximum value of SAR (interpolated) =  $0.661 \text{ mW/g}$ **Body PHF/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $25.0 \text{ V/m}$ ; Power Drift =  $0.105 \text{ dB}$ Peak SAR (extrapolated) =  $0.784 \text{ W/kg}$ **SAR(1 g) =  $0.624 \text{ mW/g}$ ; SAR(10 g) =  $0.454 \text{ mW/g}$** Maximum value of SAR (measured) =  $0.665 \text{ mW/g}$ 

Date/Time: 12/17/2008 10:13:06 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-850-GPRS-Low****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.952 mW/g

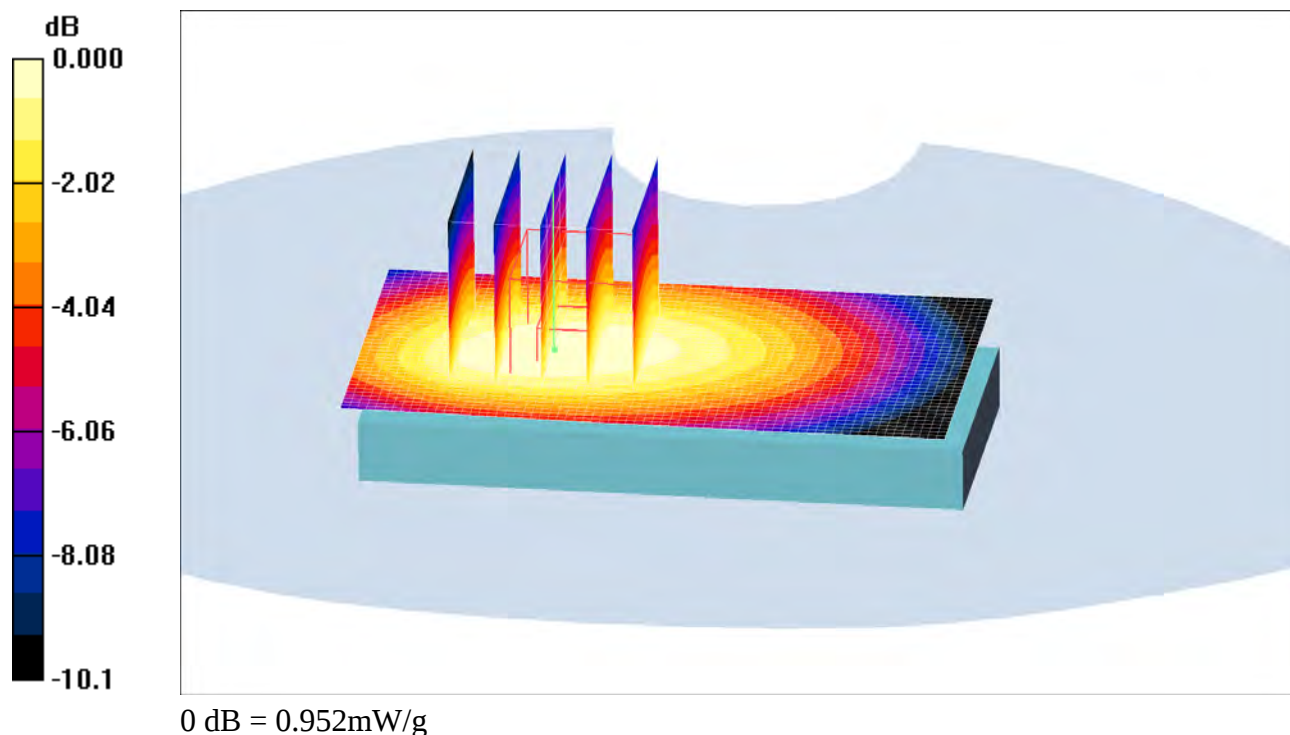
**Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.6 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.894 mW/g; SAR(10 g) = 0.652 mW/g**

Maximum value of SAR (measured) = 0.952 mW/g



Date/Time: 12/17/2008 10:55:54 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-850-GPRS-Low-Front****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:4.15

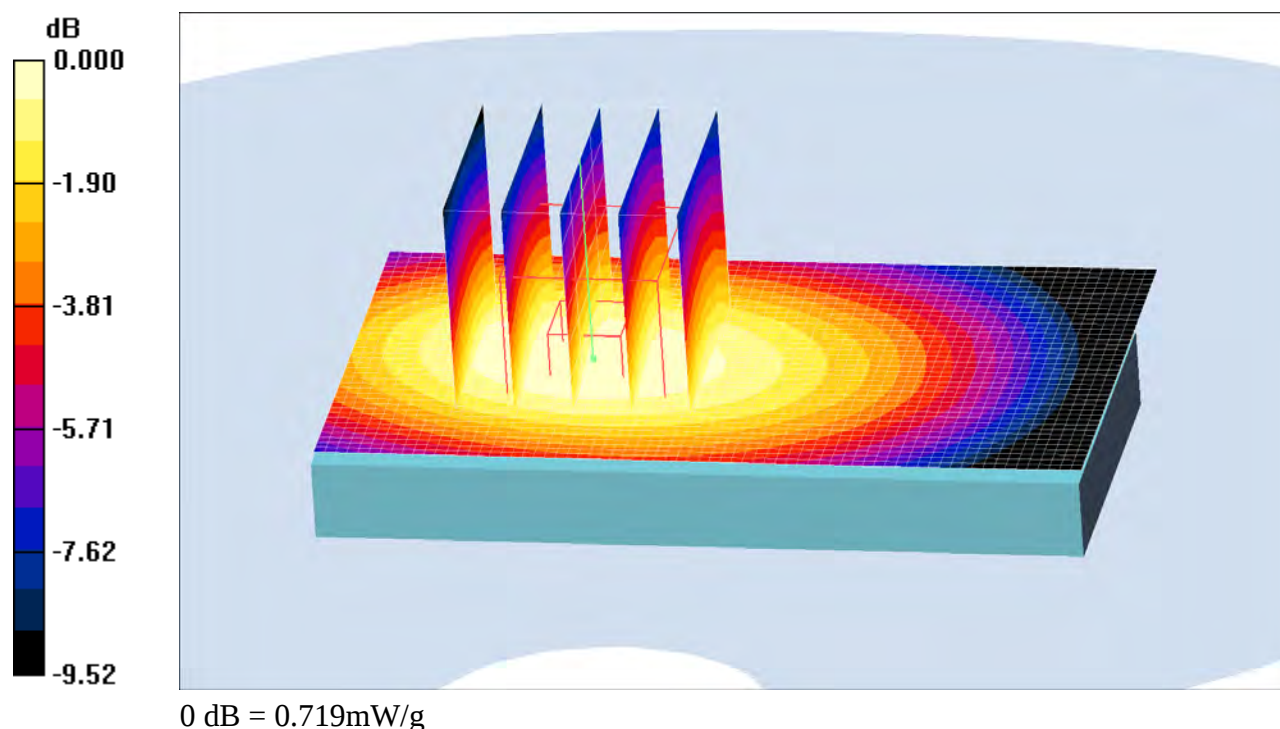
Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-3; Type: SAM; Serial: 1436
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Body Front To Phantom/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.726 mW/g
- Body Front To Phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 26.9 V/m; Power Drift = -0.051 dB  
Peak SAR (extrapolated) = 0.821 W/kg  
**SAR(1 g) = 0.677 mW/g; SAR(10 g) = 0.497 mW/g**  
Maximum value of SAR (measured) = 0.719 mW/g



Date/Time: 12/15/2008 10:43:38 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-1900-Speech-Middle****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 50.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body 2/Area Scan (41x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.474 mW/g

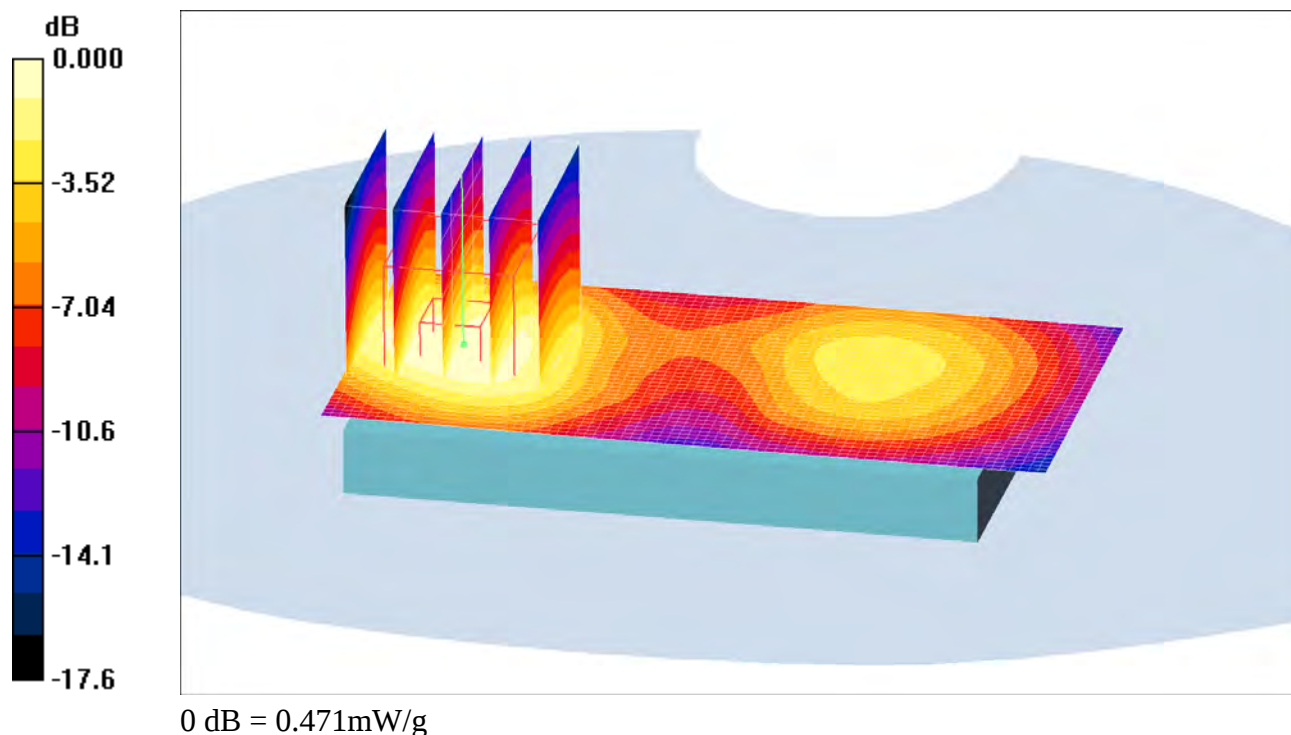
**Body 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.14 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.736 W/kg

**SAR(1 g) = 0.433 mW/g; SAR(10 g) = 0.257 mW/g**

Maximum value of SAR (measured) = 0.471 mW/g



Date/Time: 12/15/2008 10:56:28 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-1900-Speech-Middle-PHF****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

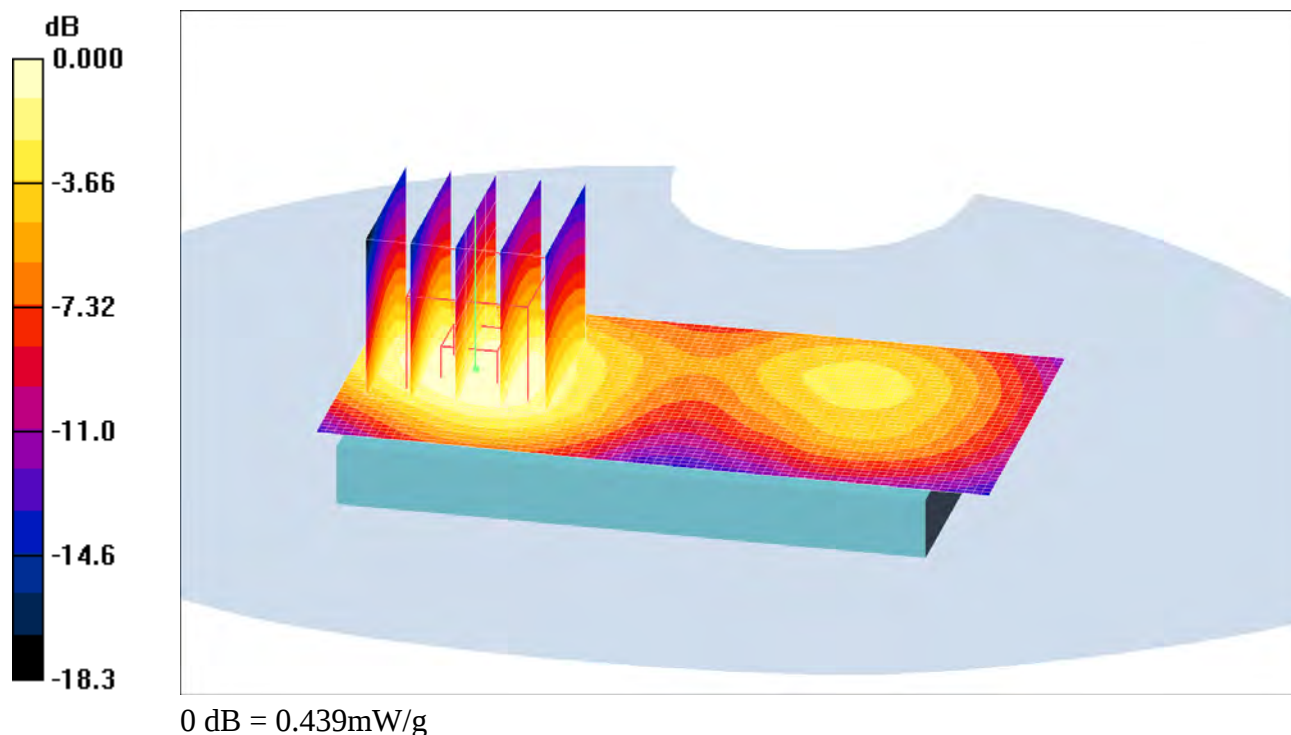
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 50.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body PHF/Area Scan (41x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ Maximum value of SAR (interpolated) =  $0.454 \text{ mW/g}$ **Body PHF/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $7.68 \text{ V/m}$ ; Power Drift =  $0.189 \text{ dB}$ Peak SAR (extrapolated) =  $0.665 \text{ W/kg}$ **SAR(1 g) =  $0.406 \text{ mW/g}$ ; SAR(10 g) =  $0.243 \text{ mW/g}$** Maximum value of SAR (measured) =  $0.439 \text{ mW/g}$ 

Date/Time: 12/9/2008 11:52:09 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-1900-GPRS-High****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

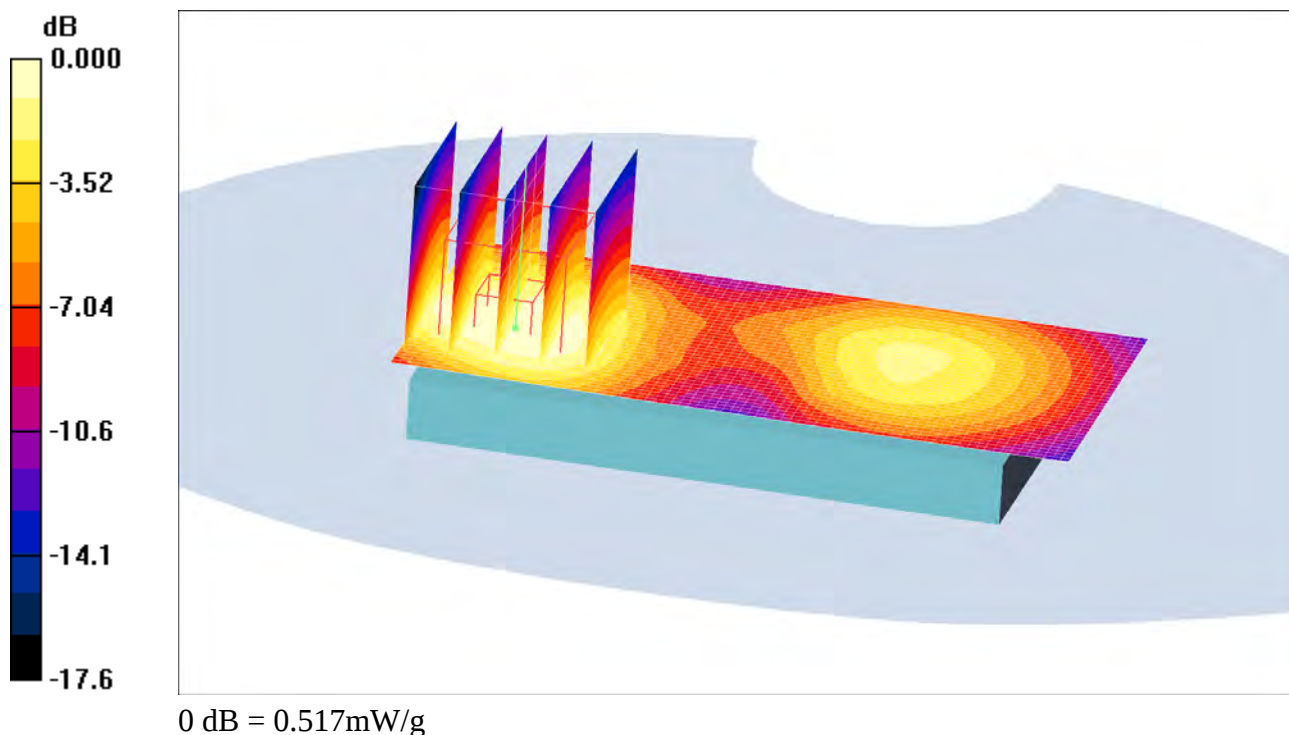
Medium parameters used:  $f = 1909.8 \text{ MHz}$ ;  $\sigma = 1.59 \text{ mho/m}$ ;  $\epsilon_r = 50.8$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body 3/Area Scan (41x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ Maximum value of SAR (interpolated) =  $0.540 \text{ mW/g}$ **Body 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $9.11 \text{ V/m}$ ; Power Drift =  $-0.105 \text{ dB}$ Peak SAR (extrapolated) =  $0.810 \text{ W/kg}$ **SAR(1 g) =  $0.486 \text{ mW/g}$ ; SAR(10 g) =  $0.292 \text{ mW/g}$** Maximum value of SAR (measured) =  $0.517 \text{ mW/g}$ 

Date/Time: 12/9/2008 1:28:43 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-1900-GPRS-High-Front****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

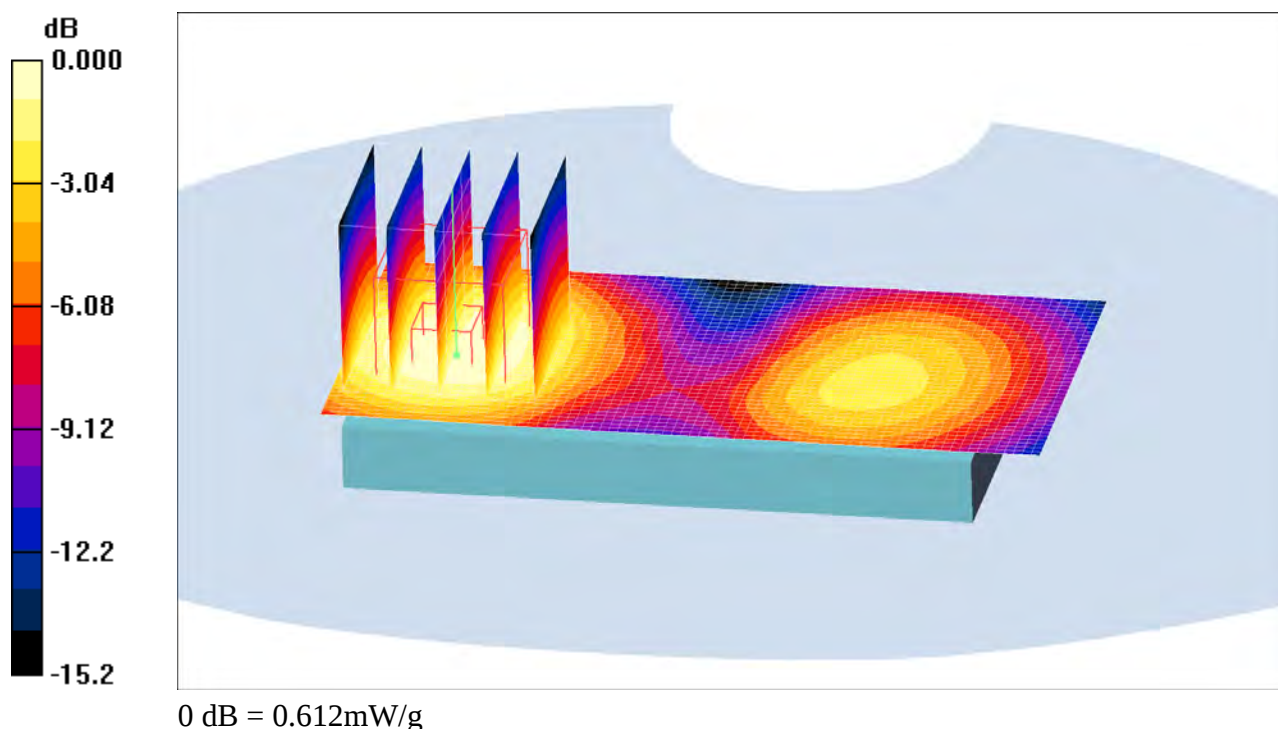
Medium parameters used:  $f = 1909.8 \text{ MHz}$ ;  $\sigma = 1.59 \text{ mho/m}$ ;  $\epsilon_r = 50.8$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-3; Type: SAM; Serial: 1436
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Body Front to Phantom/Area Scan (41x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) =  $0.617 \text{ mW/g}$
- Body Front to Phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $7.09 \text{ V/m}$ ; Power Drift =  $-0.055 \text{ dB}$   
Peak SAR (extrapolated) =  $0.916 \text{ W/kg}$   
**SAR(1 g) =  $0.571 \text{ mW/g}$ ; SAR(10 g) =  $0.350 \text{ mW/g}$**   
Maximum value of SAR (measured) =  $0.612 \text{ mW/g}$



Date/Time: 12/9/2008 3:42:50 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-UMTS2-Speech-Low****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.52$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body Speech/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.491 mW/g

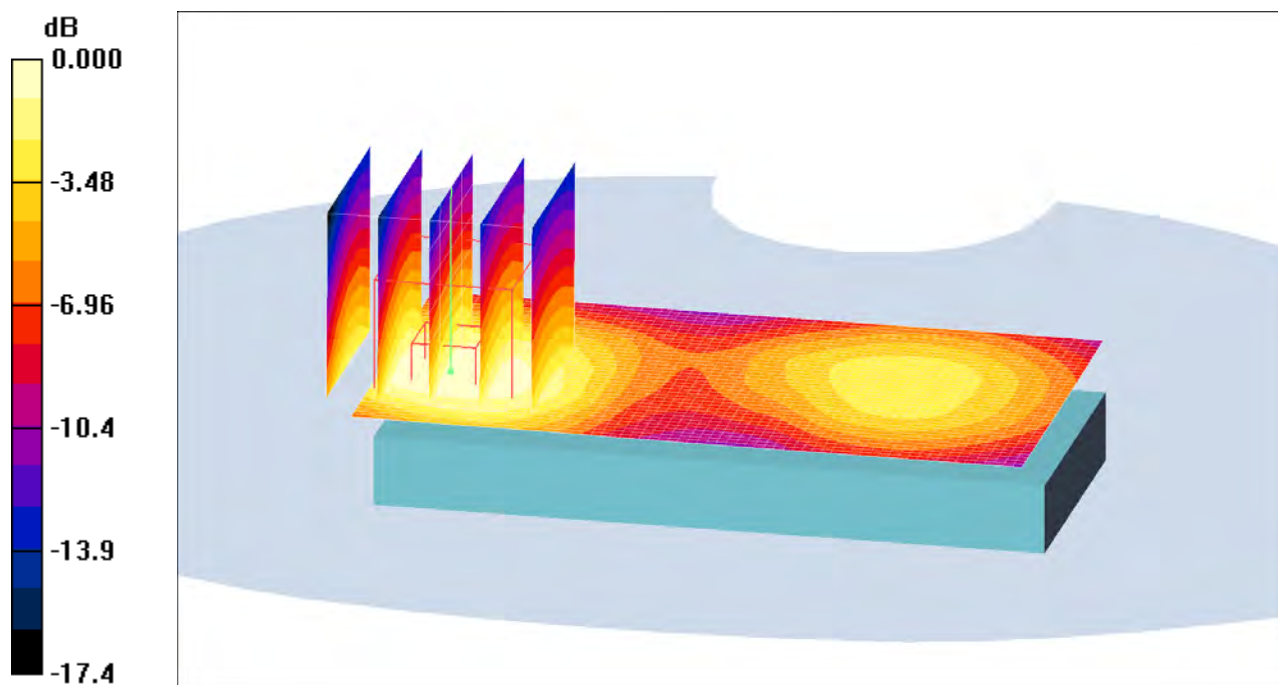
**Body Speech/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.28 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 0.713 W/kg

**SAR(1 g) = 0.435 mW/g; SAR(10 g) = 0.262 mW/g**

Maximum value of SAR (measured) = 0.472 mW/g



0 dB = 0.472mW/g

Date/Time: 12/9/2008 3:28:18 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-UMTS2-Speech-Low-PHF****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.52$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body Speech PHF/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.420 mW/g

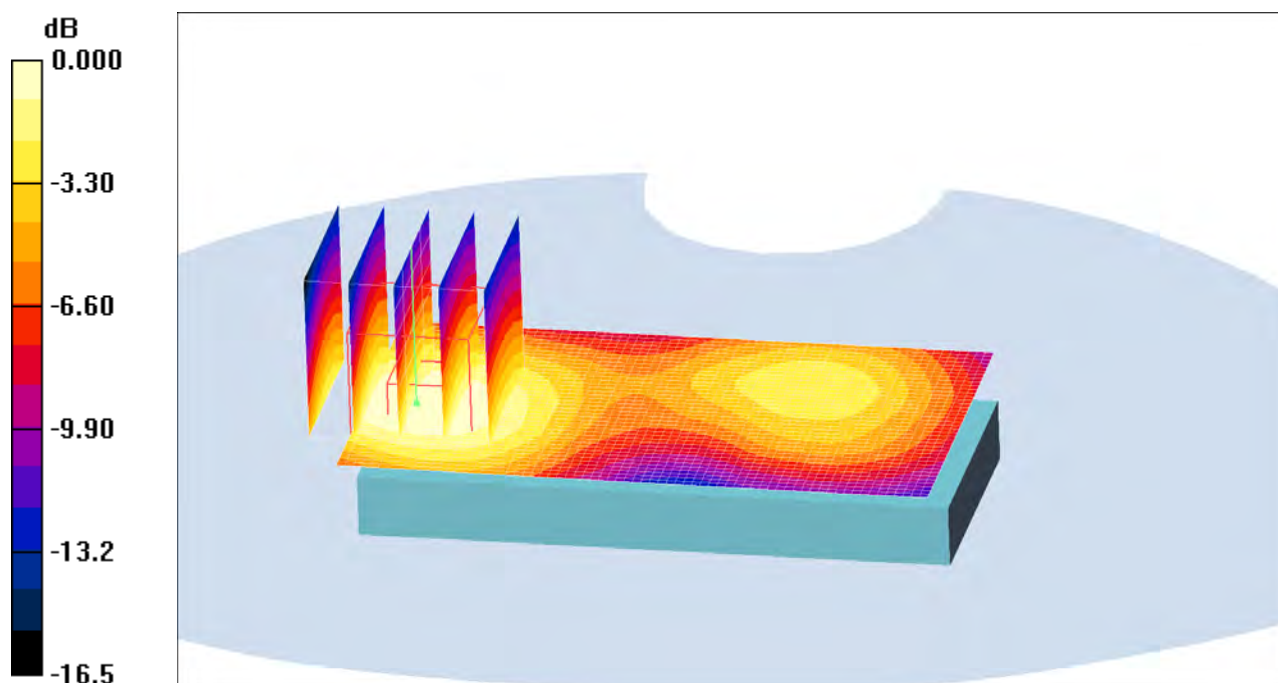
**Body Speech PHF/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.20 V/m; Power Drift = 0.119 dB

Peak SAR (extrapolated) = 0.609 W/kg

**SAR(1 g) = 0.378 mW/g; SAR(10 g) = 0.230 mW/g**

Maximum value of SAR (measured) = 0.409 mW/g



0 dB = 0.409mW/g

Date/Time: 12/9/2008 2:45:04 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-UMTS2-HSDPA-Low****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.52$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body HSDPA/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.505 mW/g

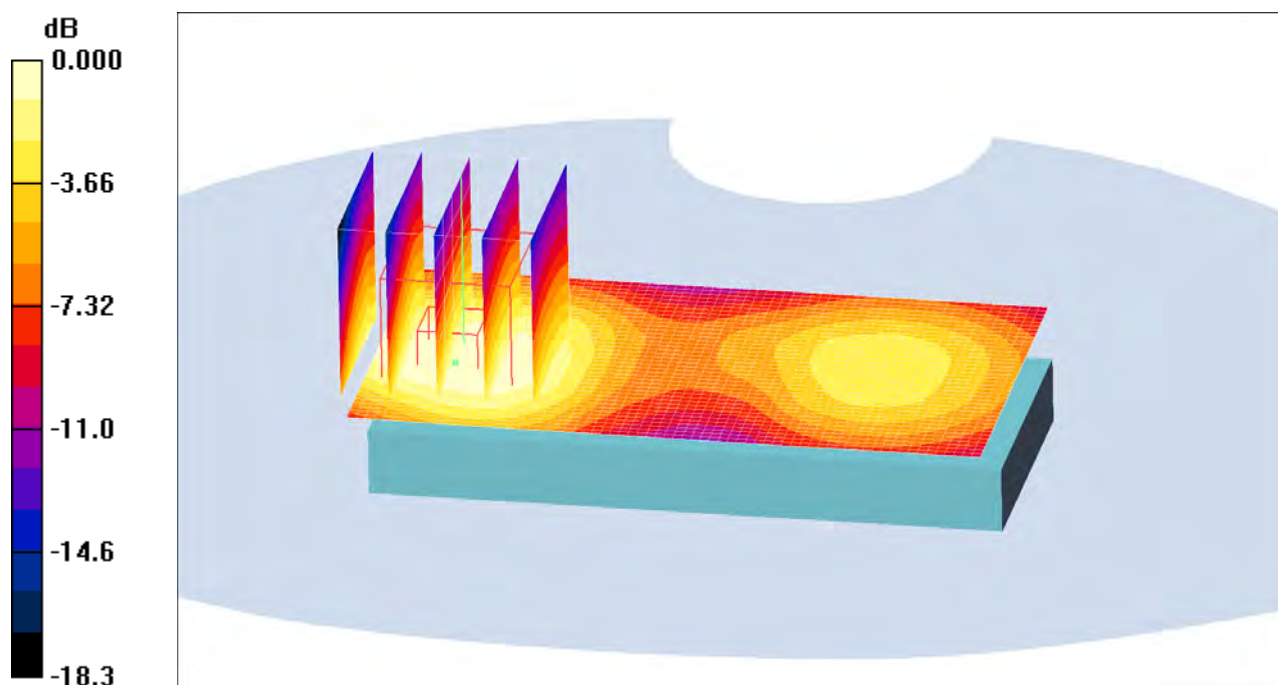
**Body HSDPA/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.63 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.730 W/kg

**SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.270 mW/g**

Maximum value of SAR (measured) = 0.472 mW/g



0 dB = 0.472mW/g

Date/Time: 12/10/2008 8:55:07 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-UMTS2-HSDPA-Low-Front****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

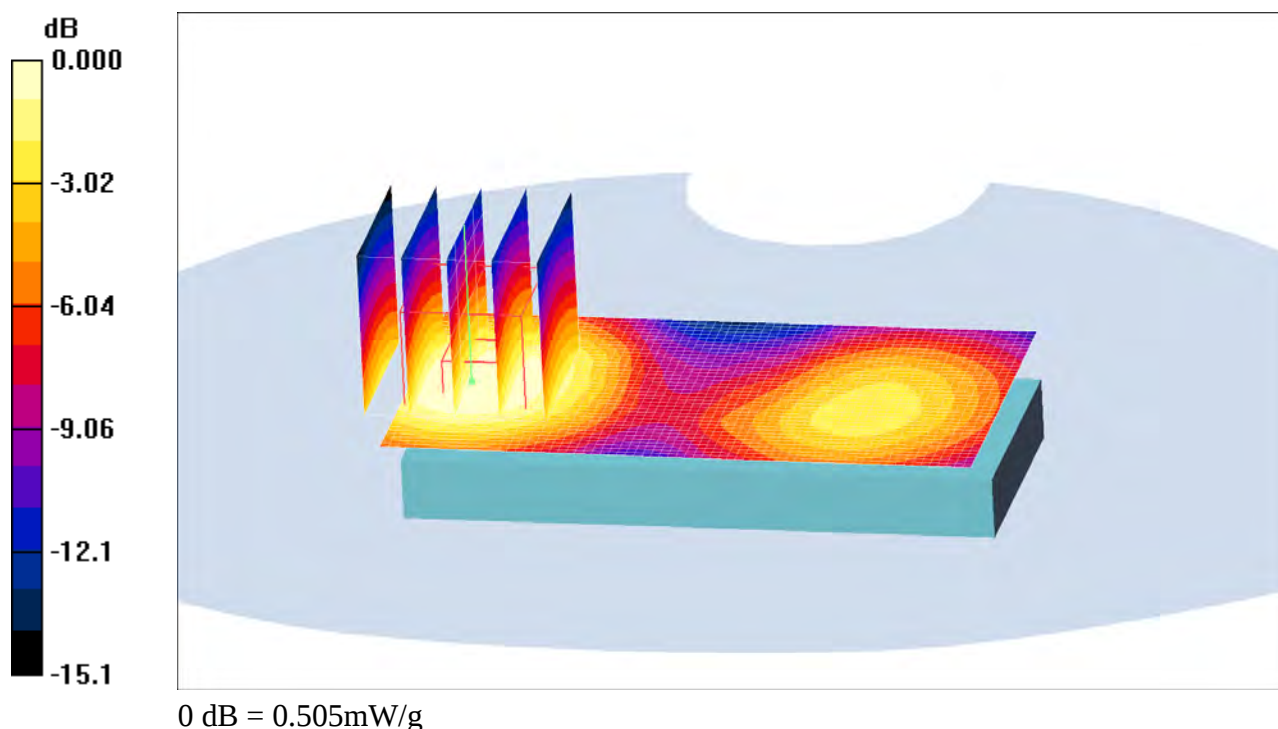
Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.52$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-3; Type: SAM; Serial: 1436
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Body Front To Phantom/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.515 mW/g
- Body Front To Phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.52 V/m; Power Drift = 0.014 dB  
Peak SAR (extrapolated) = 0.734 W/kg  
**SAR(1 g) = 0.467 mW/g; SAR(10 g) = 0.288 mW/g**  
Maximum value of SAR (measured) = 0.505 mW/g



Date/Time: 12/18/2008 11:31:23 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-UMTS5-Speech-High****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 846.6$  MHz;  $\sigma = 0.99$  mho/m;  $\epsilon_r = 53.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body 3/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.976 mW/g

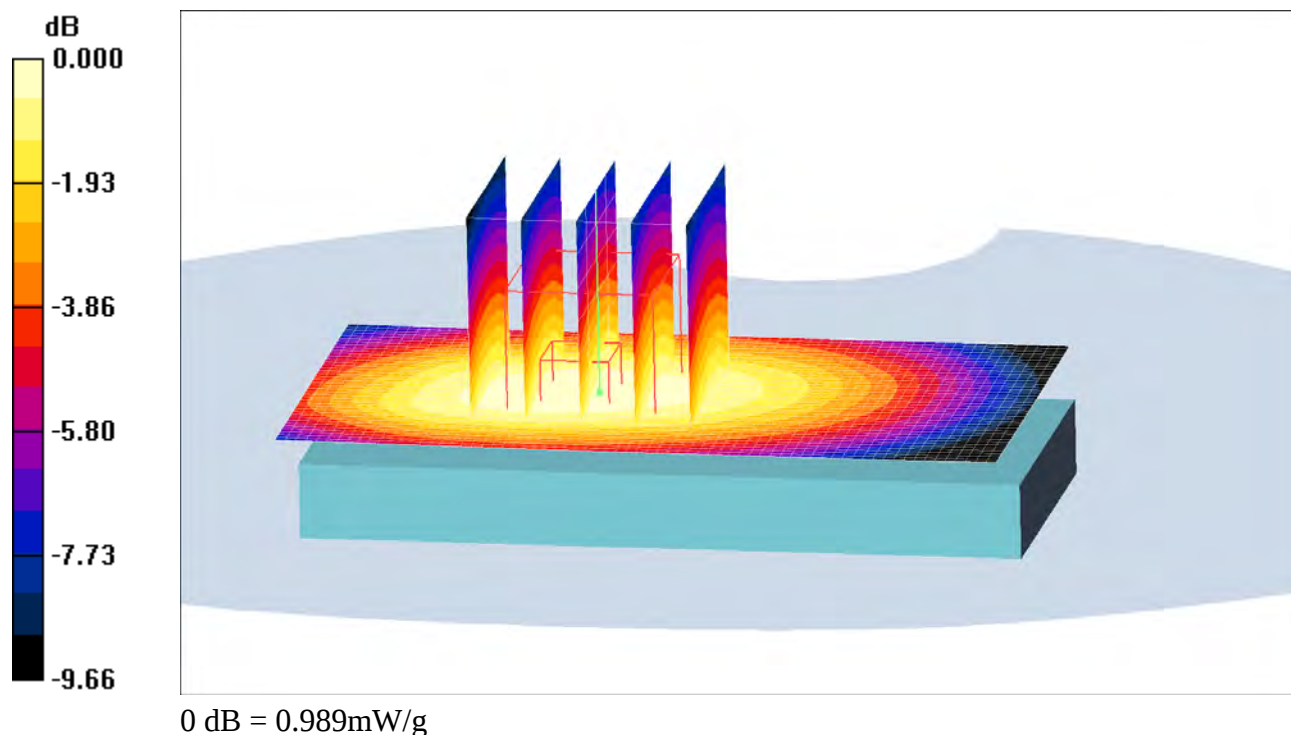
**Body 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.3 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.929 mW/g; SAR(10 g) = 0.674 mW/g**

Maximum value of SAR (measured) = 0.989 mW/g



Date/Time: 12/18/2008 11:45:58 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-UMTS5-Speech-High-Front****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 846.6 MHz; Duty Cycle: 1:1

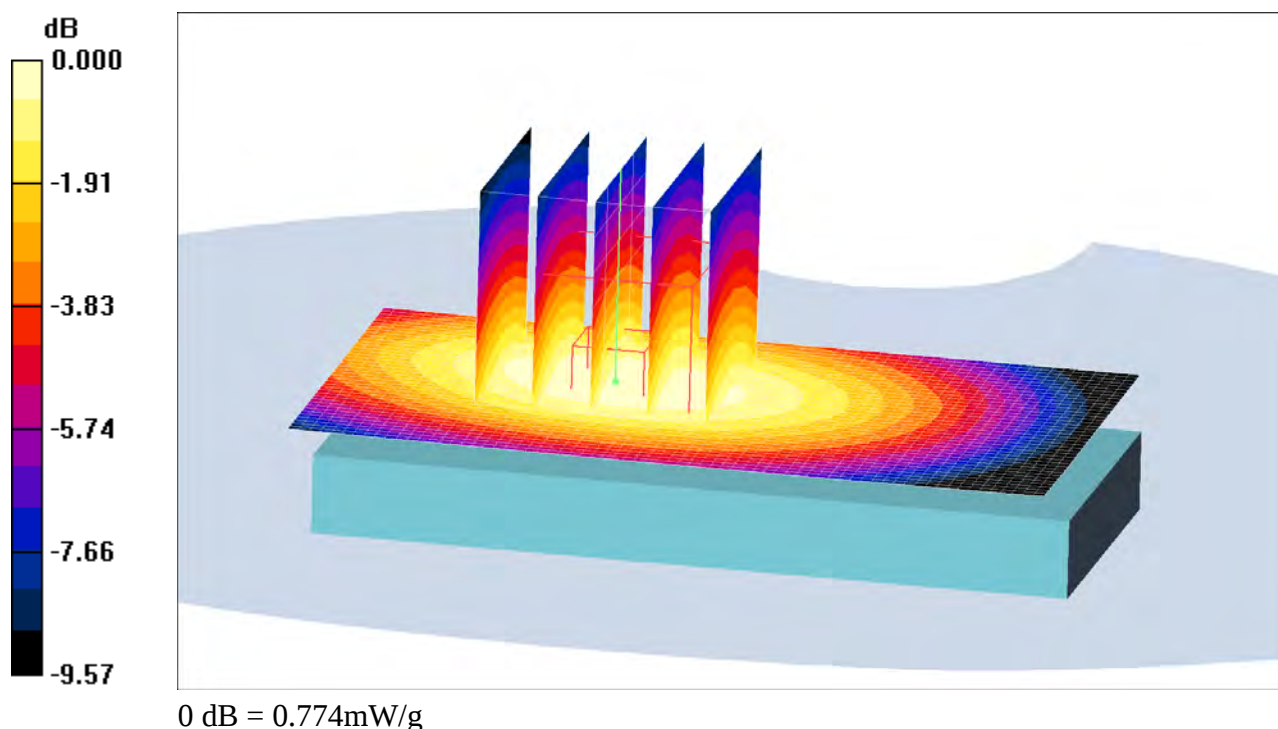
Medium parameters used:  $f = 846.6$  MHz;  $\sigma = 0.99$  mho/m;  $\epsilon_r = 53.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-3; Type: SAM; Serial: 1436
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Body Front To phantom/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.768 mW/g
- Body Front To phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 26.7 V/m; Power Drift = 0.159 dB  
Peak SAR (extrapolated) = 0.888 W/kg  
**SAR(1 g) = 0.727 mW/g; SAR(10 g) = 0.531 mW/g**  
Maximum value of SAR (measured) = 0.774 mW/g



Date/Time: 12/18/2008 10:44:49 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-UMTS5-Speech-Middle-PHF****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 53.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body PHF/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.762 mW/g

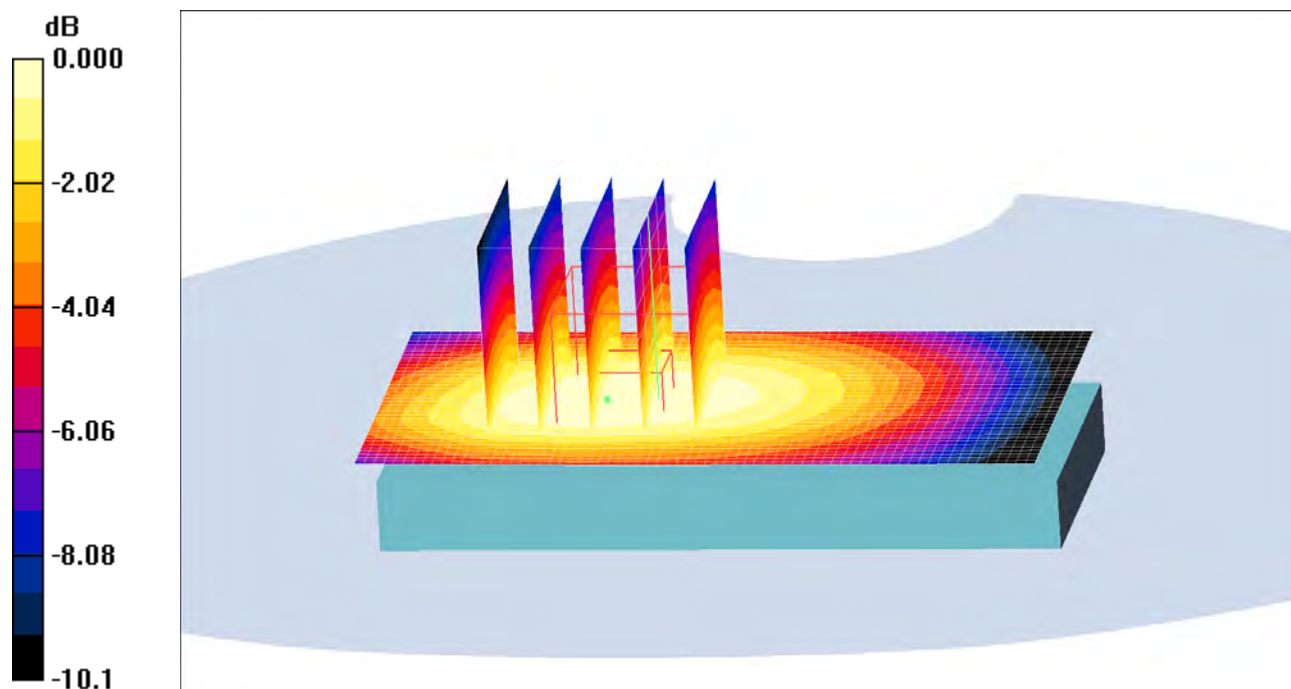
**Body PHF/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.4 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.858 W/kg

**SAR(1 g) = 0.706 mW/g; SAR(10 g) = 0.517 mW/g**

Maximum value of SAR (measured) = 0.745 mW/g



0 dB = 0.745mW/g

Date/Time: 12/18/2008 10:08:27 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Kate-UMTS5-HSDPA-Low****DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.886 mW/g

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

Reference Value = 29.6 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.846 mW/g; SAR(10 g) = 0.615 mW/g**

Maximum value of SAR (measured) = 0.903 mW/g

