



Accredited testing laboratory

DAR registration number: DAT-P-176/94-D1

Test report no. : 2-4883-48-07/08
Type identification : AAD-0352112-BV
Test specification : IEEE P1528/D1.2
FCC-ID : PY7A3052112
IC-ID : 4170B-A3052112

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1 General Information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.

1.1.1 Statement of Compliance

The SAR values found for the AAD-0352112-BV **GSM Mobile Phone** are below the maximum recommended levels of 1.6 W/Kg as averaged over any 1 g tissue according to the FCC rule §2.1093, the ANSI/IEEE C 95.1:1999, the NCRP Report Number 86 for uncontrolled environment, according to the Health Canada's Safety Code 6 and the Industry Canada Radio Standards Specification RSS-102 for General Population/Uncontrolled exposure.

For body worn operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and that positions the handset a minimum of 15 mm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The measurement together with the test system set-up is described in chapter 2.3 of this test report. A detailed description of the equipment under test can be found in chapter 1.5.

Test engineer:

2008-09-09

Oleksandr Hnatovskiy



Date

Name

Signature

Technical responsibility for area of testing:

2008-09-09

Thomas Vogler



Date

Name

Signature

1.2 Testing laboratory

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Internet: <http://www.cetecom-ict.de>

State of accreditation: The Test laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025. DAR registration number: DAT-P-176/94-D1

Test location, if different from CETECOM ICT Services GmbH

Name: ---
Street: ---
Town: ---
Country: ---
Phone: ---
Fax: ---

1.3 Details of applicant

Name: Sony Ericsson Mobile Communications AB
Street: Nya Vattentornet
Town: 22188 Lund
Country: Sweden
Contact: Mr. Peter Lindeborg
Telephone: +46-46-212-6180

1.4 Application details

Date of receipt of application: 2008-07-07
Date of receipt of test item: 2008-08-25
Start/Date of test: 2008-08-25
End of test: 2008-08-28

Person(s) present during the test: ---

1.5 Test item

Description of the test item: GSM Mobile Phone
 Type identification: AAD-0352112-BV
 FCC-ID : PY7A3052112
 IC-ID : 4170B-A3052112
 Serial number: CB5113QQAX

Manufacturer:
 Name: Sony Ericsson Mobile Communications AB
 Street: Nya Vattentorget
 Town: 22188 Lund
 Country: Sweden

| additional information on the DUT: | | |
|---|---|--------------------------|
| device type : | portable device | |
| IMEI No : | 00440107394651-5 | |
| exposure category: | uncontrolled environment / general population | |
| test device production information | production unit | |
| device operating configurations : | | |
| operating mode(s) | GSM, DCS, PCS, UMTS/WCDMA, Bluetooth | |
| modulation | GMSK, 8-PSK, QPSK(dl), 2*BPSK/HPSK(ul) | |
| GPRS mobile station class : | B | |
| GPRS multislot class : | 10 | voice mode : --- |
| EGPRS multislot class | 10 | voice mode : --- |
| maximum no. of timeslots in uplink: | 2 | |
| operating frequency range(s) | transmitter frequency range | receiver frequency range |
| PCS 1900 (tested): | 1850.2 MHz ~ 1909.8 MHz | 1930.2 MHz ~ 1989.8 MHz |
| PCS 850 (tested): | 824.2 MHz ~ 848.8 MHz | 869.2 MHz ~ 893.8 MHz |
| DCS 1800 | 1710 MHz ~ 1785 MHz | 1805 MHz ~ 1880 MHz |
| GSM 900 | 880 MHz ~ 915 MHz | 925 MHz ~ 960 MHz |
| FDD I | 1922.4 MHz ~ 1977.6 MHz | 2112.4 MHz ~ 2167.6 MHz |
| Power class : | 1, tested with power level 0 (1900 MHz band) 4, tested with power level 5 (850 MHz band) | |
| measured peak output power (conducted): | 850 MHz band: 33.03dBm (GMSK); 27.51dBm (8-PSK) 1900 MHz band: 30.14dBm (GMSK); 26.16dBm (8-PSK) | |
| test channels (low-mid-high) : | 128-190-251 (850 MHz band) 512-661-810 (1900 MHz band) | |
| hardware version : | TP3 | |
| software version : | R3DA017 | |
| antenna type : | Integrated antenna | |
| accessories/body-worn configurations: | Stereo headset | |
| battery options : | Sony Ericsson Battery BST-33 Li-Polymer 3.6V 950mAh | |

1.6 Test specification(s)

Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01)

IEEE P1528/D1.2 (April 21, 2003)

RSS-102: Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands (Issue 2 of November 2005))

Canada’s Safety Code 6: Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz (99-EHD-237)

IEEE Std C95.3 – 1991, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave.

IEEE Std C95.1 – 1999, IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.

1.6.1 RF exposure limits

| Human Exposure | Uncontrolled Environment General Population | Controlled Environment Occupational |
|--|--|--|
| Spatial Peak SAR* (Brain) | 1.60 mW/g | 8.00 mW/g |
| Spatial Average SAR** (Whole Body) | 0.08 mW/g | 0.40 mW/g |
| Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist) | 4.00 mW/g | 20.00 mW/g |

Table 1: RF exposure limits

The limit applied in this test report is shown in **bold** letters

Notes:

- * The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time
- ** The Spatial Average value of the SAR averaged over the whole body.
- *** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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

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

2 Technical test

2.1 Summary of test results

| | |
|--|-------------------------------------|
| No deviations from the technical specification(s) were ascertained in the course of the tests performed. | <input checked="" type="checkbox"/> |
| The deviations as specified in 2.5 were ascertained in the course of the tests performed. | <input type="checkbox"/> |

2.2 Test environment

General Environment conditions in the test area are as follows:

Ambient temperature: 20°C – 24°C
 Tissue simulating liquid: 20°C – 24°C
 Humidity: 40% – 50%

Exact temperature values for each test are shown in the table(s) under 2.5. and/or on the measurement plots.

2.3 Measurement and test set-up

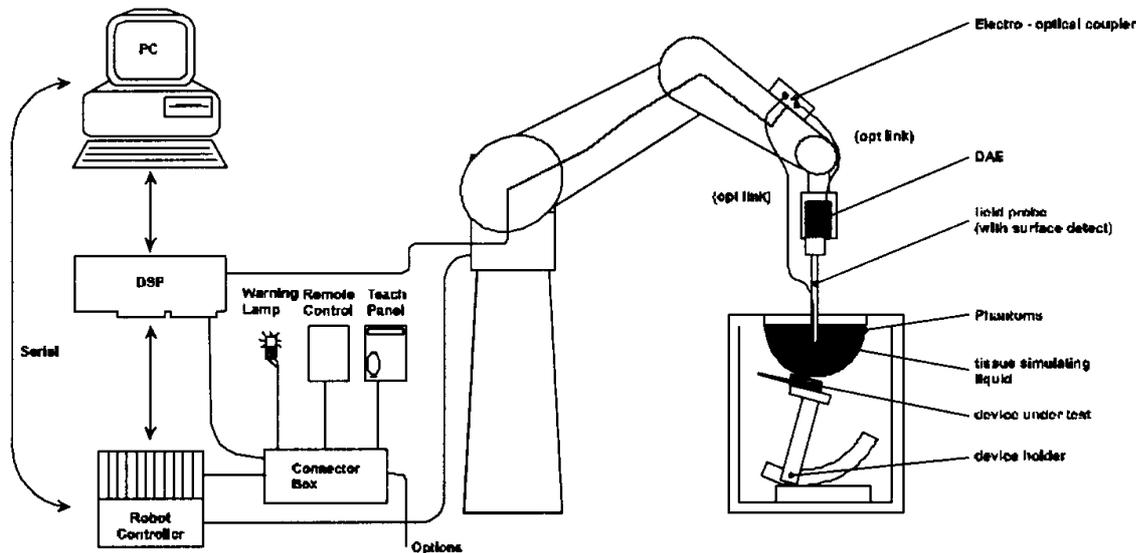
The measurement system is described in chapter 2.4.

The test setup for the system validation can be found in chapter 2.4.14.

A description of positioning and test signal control can be found in chapter 2.5 together with the test results.

2.4 Measurement system

2.4.1 System Description



The DAS4 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- A unit to operate the optical surface detector which is connected to the EOC.
- The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DAS4 measurement server.
- The DAS4 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows 2000
- DAS4 software and SEMCAD data evaluation software.
- Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
- The generic twin phantom enabling the testing of left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- System validation dipoles allowing to validate the proper functioning of the system.

2.4.2 Test environment

The DASY4 measurement system is placed at the head end of a room with dimensions: 5 x 2.5 x 3 m³, the SAM phantom is placed in a distance of 75 cm from the side walls and 1.1m from the rear wall. Above the test system a 1.5 x 1.5 m² array of pyramid absorbers is installed to reduce reflections from the ceiling.

Picture 1 of the photo documentation shows a complete view of the test environment.

The system allows the measurement of SAR values larger than 0.005 mW/g.

2.4.3 Probe description

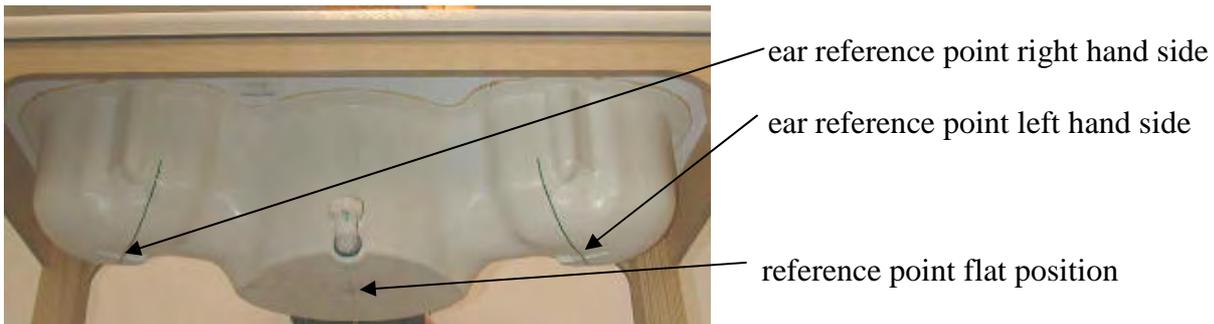
Isotropic E-Field Probe ET3DV6 for Dosimetric Measurements

| Technical data according to manufacturer information | |
|---|--|
| Construction | Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycoether) |
| Calibration | In air from 10 MHz to 2.5 GHz In head tissue simulating liquid (HSL) at 900 (800-1000) MHz and 1.8 GHz (1700-1910 MHz) (accuracy ± 9.5%; k=2) Calibration for other liquids and frequencies upon request |
| Frequency | 10 MHz to 3 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 3 GHz) |
| Directivity | ± 0.2 dB in HSL (rotation around probe axis) ± 0.4 dB in HSL (rotation normal to probe axis) |
| Dynamic range | 5 µW/g to > 100 mW/g; Linearity: ± 0.2 dB |
| Optical Surface Detection | ± 0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces (ET3DV6 only) |
| Dimensions | Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm Distance from probe tip to dipole centers: 2.7 mm |
| Application | General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (ET3DV6) |

2.4.4 Phantom description

The used SAM Phantom meets the requirements specified in Edition 01-01 of Supplement C to OET Bulletin 65 for Specific Absorption Rate (SAR) measurements.

The phantom consists of a fibreglass shell integrated in a wooden table. It allows left-hand and right-hand head as well as body-worn measurements with a maximum liquid depth of 18 cm in head position and 22 cm in planar position (body measurements). The thickness of the Phantom shell is 2 mm +/- 0.1 mm.



2.4.5 Device holder description

The DASY4 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA's only. If necessary an additional support of polystyrene material is used.



Larger DUT's (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values.

Therefore those devices are normally only tested at the flat part of the SAM.

2.4.6 Scanning procedure

The DASY4 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

- The „reference“ and „drift“ measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT's output power and should vary max. +/- 5 %.
- The „surface check“ measurement tests the optical surface detection system of the DASY4 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)
- The „area scan“ measures the SAR above the DUT or verification dipole on a parallel plane to the surface. It is used to locate the approximate location of the peak SAR with 2D spline interpolation. The robot performs a stepped movement along one grid axis while the local electrical field strength is measured by the probe. The probe is touching the surface of the SAM during acquisition of measurement values. The standard scan uses large grid spacing for faster measurement. Standard grid spacing for head measurements is 15 mm in x- and y- dimension. If a finer resolution is needed, the grid spacing can be reduced. Grid spacing and orientation have no influence on the SAR result. For special applications where the standard scan method does not find the peak SAR within the grid, e.g. mobile phones with flip cover, the grid can be adapted in orientation. Results of this coarse scan are shown in annex 2.
- A „7x7x7 zoom scan“ measures the field in a volume around the 2D peak SAR value acquired in the previous „coarse“ scan. This is a fine 7x7 grid where the robot additionally moves the probe in 7 steps along the z-axis away from the bottom of the Phantom. Grid spacing for the cube measurement is 5 mm in x and y-direction and 5 mm in z-direction. DASY4 is also able to perform repeated zoom scans if more than 1 peak is found during area scan. In this document, the evaluated peak 1g and 10g averaged SAR values are shown in the 2D-graphics in annex 2. Test results relevant for the specified standard (see chapter 1.6.) are shown in table form in chapter 2.5.
- A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube 7x7x7 scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 2mm steps. This measurement shows the continuity of the liquid and can - depending in the field strength – also show the liquid depth. A z-axis scan of the measurement with maximum SAR value is shown in annex 2.

2.4.7 Spatial Peak SAR Evaluation

The spatial peak SAR - value for 1 and 10 g is evaluated after the Cube measurements have been done. The basis of the evaluation are the SAR values measured at the points of the fine cube grid consisting of 7 x 7 x 7 points. The algorithm that finds the maximal averaged volume is separated into three different stages.

- The data between the dipole center of the probe and the surface of the phantom are extrapolated. This data cannot be measured since the center of the dipole is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is about 1 mm (see probe calibration sheet). The extrapolated data from a cube measurement can be visualized by selecting 'Graph Evaluated'.
- The maximum interpolated value is searched with a straight-forward algorithm. Around this maximum the SAR - values averaged over the spatial volumes (1g or 10 g) are computed using the 3d-spline interpolation algorithm. If the volume cannot be evaluated (i.e., if a part of the grid was cut off by the boundary of the measurement area) the evaluation will be started on the corners of the bottom plane of the cube.
- All neighboring volumes are evaluated until no neighboring volume with a higher average value is found.

Extrapolation

The extrapolation is based on a least square algorithm [W. Gander, Computermathematik, p.168-180]. Through the points in the first 3 cm along the z-axis, polynomials of order four are calculated. These polynomials are then used to evaluate the points between the surface and the probe tip. The points, calculated from the surface, have a distance of 1 mm from each other.

Interpolation

The interpolation of the points is done with a 3d-Spline. The 3d-Spline is composed of three one-dimensional splines with the "Not a knot"-condition [W. Gander, Computermathematik, p.141-150] (x, y and z -direction) [Numerical Recipes in C, Second Edition, p.123ff].

Volume Averaging

At First the size of the cube is calculated. Then the volume is integrated with the trapezoidal algorithm. 8000 points (20x20x20) are interpolated to calculate the average.

Advanced Extrapolation

DASY4 uses the advanced extrapolation option which is able to compensate boundary effects on E-field probes.

2.4.8 Data Storage and Evaluation

Data Storage

The DASY4 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DA4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

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

Data Evaluation by SEMCAD

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

| | | |
|--------------------|---------------------------|---|
| Probe parameters: | - Sensitivity | Norm _i , a _{i0} , a _{i1} , a _{i2} |
| | - Conversion factor | ConvF _i |
| | - Diode compression point | Dcpi |
| Device parameters: | - Frequency | f |
| | - Crest factor | cf |
| Media parameters: | - Conductivity | σ |
| | - Density | ρ |

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY4 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf/dcp_i$$

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

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

E-field probes: $E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$

H-field probes: $H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$

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

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

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

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

$$SAR = (E_{tot}^2 \cdot \sigma) / (\rho \cdot 1000)$$

with SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in [mho/m] or [Siemens/m]
 ρ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \quad \text{or} \quad P_{pwe} = H_{tot}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm²
 E_{tot} = total electric field strength in V/m
 H_{tot} = total magnetic field strength in A/m

2.4.9 Test equipment utilized

This table gives a complete overview of the SAR measurement equipment

Devices used during the test described in chapter 2.5. are marked ☒

| | Manufacturer | Device | Type | Serial number | Date of last calibration)* |
|---|---------------------------------|--------------------------------------|------------------|---------------|-----------------------------|
| ☒ | Schmid & Partner Engineering AG | Dosimetric E-Field Probe | ET3DV6 | 1554 | May 13, 2008 |
| ☐ | Schmid & Partner Engineering AG | Dosimetric E-Field Probe | ET3DV6 | 1559 | January 23, 2008 |
| ☒ | Schmid & Partner Engineering AG | 900 MHz System Validation Dipole | D900V2 | 099 | May 13, 2008 |
| ☐ | Schmid & Partner Engineering AG | 1800 MHz System Validation Dipole | D1800V2 | 287 | August 21, 2007 |
| ☒ | Schmid & Partner Engineering AG | 1900 MHz System Validation Dipole | D1900V2 | 531 | May 14, 2008 |
| ☐ | Schmid & Partner Engineering AG | 2450 MHz System Validation Dipole | D2450V2 | 710 | August 20, 2007 |
| ☒ | Schmid & Partner Engineering AG | Data acquisition electronics | DAE3V1 | 413 | January 18, 2008 |
| ☒ | Schmid & Partner Engineering AG | Software | DASY 4 V4.5 | --- | N/A |
| ☒ | Schmid & Partner Engineering AG | Phantom | SAM | --- | N/A |
| ☒ | Rohde & Schwarz | Universal Radio Communication Tester | CMU 200 | 832221/055 | March 20, 2008 |
| | | | | | |
| ☒ | Hewlett Packard)* | Network Analyser 300 kHz to 6 GHz | 8753C | 2937U00269 | March 13, 2007 |
| ☒ | Hewlett Packard)* | Network Analyser 300 kHz to 6 GHz | 85047A | 2936A00872 | March 13, 2007 |
| ☒ | Hewlett Packard | Dielectric Probe Kit | 85070C | US99360146 | N/A |
| | | | | | |
| ☒ | Hewlett Packard | Signal Generator | 8665A | 2833A00112 | November 12, 2007 |
| ☒ | Amplifier Reasearch | Amplifier | 25S1G4 (25 Watt) | 20452 | N/A |
| ☒ | Rohde & Schwarz | Power Meter | NRP | 101367 | January 9, 2008 |
| ☒ | Rohde & Schwarz | Power Meter Sensor | NRP Z22 | 100227 | January 9, 2008 |
| ☒ | Rohde & Schwarz | Power Meter Sensor | NRP Z22 | 100234 | January 9, 2008 |

)* : Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.

2.4.11 Tissue simulating liquids: parameters

| Used Target Frequency [MHz] | Target Head Tissue | | Measured Head Tissue | | Measured Date |
|--------------------------------|--------------------|--------------------|----------------------|--------------------|---------------|
| | Permittivity | Conductivity [S/m] | Permittivity | Conductivity [S/m] | |
| 835 | 41.5 | 0.90 | 41.6 | 0.87 | 2008-08-25 |
| 900 | 41.5 | 0.97 | 40.8 | 0.94 | 2008-08-25 |
| 1900 | 40.0 | 1.40 | 39.4 | 1.40 | 2008-08-28 |

Table 4: Parameter of the head tissue simulating liquid

| Used Target Frequency [MHz] | Target Body Tissue | | Measured Body Tissue | | Measured Date |
|--------------------------------|--------------------|--------------------|----------------------|--------------------|---------------|
| | Permittivity | Conductivity [S/m] | Permittivity | Conductivity [S/m] | |
| 835 | 55.2 | 0.97 | 54.4 | 0.98 | 2008-08-25 |
| 900 | 55.0 | 1.05 | 53.8 | 1.04 | 2008-08-25 |
| 1900 | 53.3 | 1.52 | 52.6 | 1.53 | 2008-08-27 |

Table 5: Parameter of the body tissue simulating liquid

Note: The dielectric properties have been measured using the contact probe method at 22°C.

2.4.12 Measurement uncertainty evaluation for SAR test

The overall combined measurement uncertainty of the measurement system is $\pm 10,3\%$ ($K=1$).

The expanded uncertainty ($k=2$) is assessed to be $\pm 20.6\%$

This measurement uncertainty budget is suggested by IEEE P1528 and determined by Schmid & Partner Engineering AG. The breakdown of the individual uncertainties is as follows:

| Error Sources | Uncertainty Value | Probability Distribution | Divisor | c_i 1g | c_i 10g | Standard Uncertainty 1g | Standard Uncertainty 10g | v_i^2 or v_{eff} |
|----------------------------------|-------------------|--------------------------|------------|-------------|--------------|----------------------------|-----------------------------|-------------------------|
| Measurement System | | | | | | | | |
| Probe calibration | $\pm 4.8\%$ | Normal | 1 | 1 | 1 | $\pm 4.8\%$ | $\pm 4.8\%$ | ∞ |
| Axial isotropy | $\pm 4.7\%$ | Rectangular | $\sqrt{3}$ | 0.7 | 0.7 | $\pm 1.9\%$ | $\pm 1.9\%$ | ∞ |
| Hemispherical isotropy | $\pm 9.6\%$ | Rectangular | $\sqrt{3}$ | 0.7 | 0.7 | $\pm 3.9\%$ | $\pm 3.9\%$ | ∞ |
| Spatial resolution | $\pm 0.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 0.0\%$ | $\pm 0.0\%$ | ∞ |
| Boundary effects | $\pm 1.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 0.6\%$ | $\pm 0.6\%$ | ∞ |
| Probe linearity | $\pm 4.7\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 2.7\%$ | $\pm 2.7\%$ | ∞ |
| System detection limits | $\pm 1.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 0.6\%$ | $\pm 0.6\%$ | ∞ |
| Readout electronics | $\pm 1.0\%$ | Normal | 1 | 1 | 1 | $\pm 1.0\%$ | $\pm 1.0\%$ | ∞ |
| Response time | $\pm 0.8\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 0.5\%$ | $\pm 0.5\%$ | ∞ |
| Integration time | $\pm 2.6\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 1.5\%$ | $\pm 1.5\%$ | ∞ |
| RF ambient conditions | $\pm 3.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 1.7\%$ | $\pm 1.7\%$ | ∞ |
| Probe positioner | $\pm 0.4\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 0.2\%$ | $\pm 0.2\%$ | ∞ |
| Probe positioning | $\pm 2.9\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 1.7\%$ | $\pm 1.7\%$ | ∞ |
| Max. SAR evaluation | $\pm 1.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 0.6\%$ | $\pm 0.6\%$ | ∞ |
| Test Sample Related | | | | | | | | |
| Device positioning | $\pm 2.9\%$ | Normal | 1 | 1 | 1 | $\pm 2.9\%$ | $\pm 2.9\%$ | 145 |
| Device holder uncertainty | $\pm 3.6\%$ | Normal | 1 | 1 | 1 | $\pm 3.6\%$ | $\pm 3.6\%$ | 5 |
| Power drift | $\pm 5.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 2.9\%$ | $\pm 2.9\%$ | ∞ |
| Phantom and Set-up | | | | | | | | |
| Phantom uncertainty | $\pm 4.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 2.3\%$ | $\pm 2.3\%$ | ∞ |
| Liquid conductivity (target) | $\pm 5.0\%$ | Rectangular | $\sqrt{3}$ | 0.64 | 0.43 | $\pm 1.8\%$ | $\pm 1.2\%$ | ∞ |
| Liquid conductivity (meas.) | $\pm 2.5\%$ | Normal | 1 | 0.64 | 0.43 | $\pm 1.6\%$ | $\pm 1.1\%$ | ∞ |
| Liquid permittivity (target) | $\pm 5.0\%$ | Rectangular | $\sqrt{3}$ | 0.6 | 0.49 | $\pm 1.7\%$ | $\pm 1.4\%$ | ∞ |
| Liquid permittivity (meas.) | $\pm 2.5\%$ | Normal | 1 | 0.6 | 0.49 | $\pm 1.5\%$ | $\pm 1.2\%$ | ∞ |
| Combined Uncertainty | | | | | | $\pm 10.3\%$ | $\pm 10.0\%$ | 330 |
| Expanded Std. Uncertainty | | | | | | $\pm 20.6\%$ | $\pm 20.1\%$ | |

Table 6: Measurement uncertainties

2.4.13 Measurement uncertainty evaluation for system validation

The overall combined measurement uncertainty of the measurement system is $\pm 8.4\%$ ($K=1$).

The expanded uncertainty ($k=2$) is assessed to be $\pm 16.8\%$

This measurement uncertainty budget is suggested by IEEE P1528 and determined by Schmid & Partner Engineering AG. The breakdown of the individual uncertainties is as follows:

| Error Sources | Uncertainty Value | Probability Distribution | Divisor | c_i 1g | c_i 10g | Standard Uncertainty 1g | Standard Uncertainty 10g | v_i^2 or v_{eff} |
|----------------------------------|-------------------|--------------------------|------------|----------|-----------|--------------------------------|--------------------------------|----------------------|
| Measurement System | | | | | | | | |
| Probe calibration | $\pm 4.8\%$ | Normal | 1 | 1 | 1 | $\pm 4.8\%$ | $\pm 4.8\%$ | ∞ |
| Axial isotropy | $\pm 4.7\%$ | Rectangular | $\sqrt{3}$ | 0.7 | 0.7 | $\pm 1.9\%$ | $\pm 1.9\%$ | ∞ |
| Hemispherical isotropy | $\pm 0.0\%$ | Rectangular | $\sqrt{3}$ | 0.7 | 0.7 | $\pm 0.0\%$ | $\pm 3.9\%$ | ∞ |
| Boundary effects | $\pm 1.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 0.6\%$ | $\pm 0.6\%$ | ∞ |
| Probe linearity | $\pm 4.7\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 2.7\%$ | $\pm 2.7\%$ | ∞ |
| System detection limits | $\pm 1.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 0.6\%$ | $\pm 0.6\%$ | ∞ |
| Readout electronics | $\pm 1.0\%$ | Normal | 1 | 1 | 1 | $\pm 1.0\%$ | $\pm 1.0\%$ | ∞ |
| Response time | $\pm 0.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 0.0\%$ | $\pm 0.0\%$ | ∞ |
| Integration time | $\pm 0.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 0.0\%$ | $\pm 0.0\%$ | ∞ |
| RF ambient conditions | $\pm 3.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 1.7\%$ | $\pm 1.7\%$ | ∞ |
| Probe positioner | $\pm 0.4\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 0.2\%$ | $\pm 0.2\%$ | ∞ |
| Probe positioning | $\pm 2.9\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 1.7\%$ | $\pm 1.7\%$ | ∞ |
| Max. SAR evaluation | $\pm 1.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 0.6\%$ | $\pm 0.6\%$ | ∞ |
| Test Sample Related | | | | | | | | |
| Dipole axis to liquid distance | $\pm 2.0\%$ | Normal | 1 | 1 | 1 | $\pm 1.2\%$ | $\pm 1.2\%$ | ∞ |
| Power drift | $\pm 4.7\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 2.7\%$ | $\pm 2.7\%$ | ∞ |
| Phantom and Set-up | | | | | | | | |
| Phantom uncertainty | $\pm 4.0\%$ | Rectangular | $\sqrt{3}$ | 1 | 1 | $\pm 2.3\%$ | $\pm 2.3\%$ | ∞ |
| Liquid conductivity (target) | $\pm 5.0\%$ | Rectangular | $\sqrt{3}$ | 0.64 | 0.43 | $\pm 1.8\%$ | $\pm 1.2\%$ | ∞ |
| Liquid conductivity (meas.) | $\pm 2.5\%$ | Normal | 1 | 0.64 | 0.43 | $\pm 1.6\%$ | $\pm 1.1\%$ | ∞ |
| Liquid permittivity (target) | $\pm 5.0\%$ | Rectangular | $\sqrt{3}$ | 0.6 | 0.49 | $\pm 1.7\%$ | $\pm 1.4\%$ | ∞ |
| Liquid permittivity (meas.) | $\pm 2.5\%$ | Normal | 1 | 0.6 | 0.49 | $\pm 1.5\%$ | $\pm 1.2\%$ | ∞ |
| Combined Uncertainty | | | | | | $\pm 8.4\%$ | $\pm 8.1\%$ | |
| Expanded Std. Uncertainty | | | | | | $\pm 16.8\%$ | $\pm 16.2\%$ | |

Table 7: Measurement uncertainties

2.4.14 System validation

The system validation is performed for verifying the accuracy of the complete measurement system and performance of the software. The system validation is performed with tissue equivalent material according to IEEE P1528 (described above). The following table shows validation results for all frequency bands and tissue liquids used during the tests of the test item described in chapter 1.5. (graphic plot(s) see annex 1).

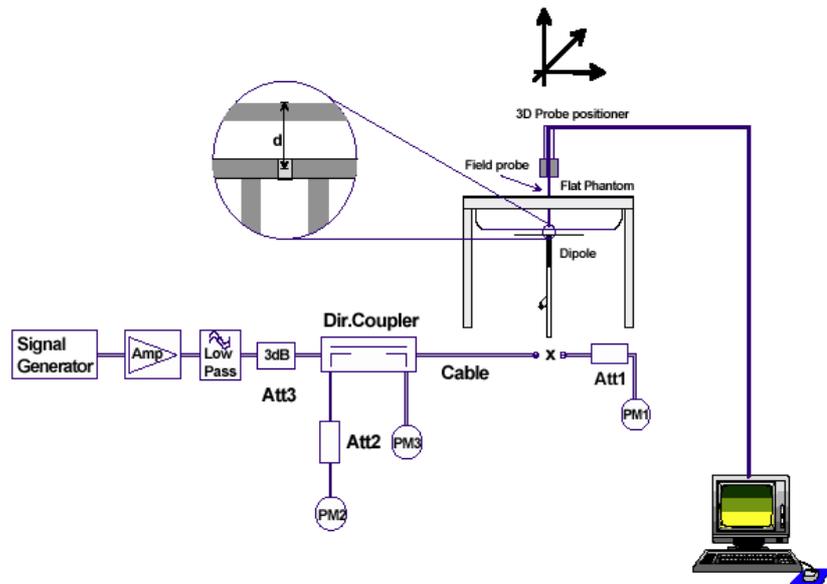
| Validation Kit | Frequency | Target Peak SAR (1000 mW) (+/- 10%) | Target SAR_{1g} (1000 mW) (+/- 10%) | Measured Peak SAR | Measured SAR_{1g} | Measured date |
|-----------------------------|--------------------------|--|--|--------------------------|----------------------------------|----------------------|
| D900V2 S/N: 099 | 900 MHz head | 15.7 mW/g | 10.6 mW/g | 15.8 mW/g | 11.0 mW/g | 2008-08-25 |
| D900V2 S/N: 099 | 900 MHz body | 16.6 mW/g | 11.0 mW/g | 15.9 mW/g | 11.0 mW/g | 2008-08-25 |
| D1900V2 S/N: 531 | 1900 MHz head | 71.6 mW/g | 37.6 mW/g | 67.2 mW/g | 38.1 mW/g | 2008-08-28 |
| D1900V2 S/N: 531 | 1900 MHz body | 69.6 mW/g | 38.3 mW/g | 73.6 mW/g | 40.2 mW/g | 2008-08-27 |

Table 8: Results system validation

2.4.15 Validation procedure

The validation is performed by using a validation dipole which is positioned parallel to the planar part of the SAM phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a plexiglass spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 1000 mW. To adjust this power a power meter is used. The power sensor is connected to the cable before the validation to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the validation to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

Validation results have to be equal or near the values determined during dipole calibration (target SAR in table above) with the relevant liquids and test system.



2.5 Test results (Head and Body SAR)

| The table contains the measured SAR values averaged over a mass of 1 g | | | | | |
|--|------------|--------------------|---------------------|----------|--------------------|
| Channel / frequency | Position | Left hand position | Right hand position | Limit | Liquid temperature |
| Slide-in | | | | | |
| 128 / 824.2 MHz | cheek | 1.110 W/kg | 1.220 W/kg | 1.6 W/kg | 22.2/22.1 °C |
| 190 / 836.6 MHz | cheek | 1.240 W/kg | 1.330 W/kg | 1.6 W/kg | 22.2/22.1 °C |
| 251 / 848.8 MHz | cheek | 1.250 W/kg | 1.350 W/kg | 1.6 W/kg | 22.2/22.1 °C |
| 128 / 824.2 MHz | tilted 15° | 0.543 W/kg | 0.608 W/kg | 1.6 W/kg | 22.2/22.1 °C |
| 190 / 836.6 MHz | tilted 15° | 0.597 W/kg | 0.660 W/kg | 1.6 W/kg | 22.2/22.1 °C |
| 251 / 848.8 MHz | tilted 15° | 0.600 W/kg | 0.660 W/kg | 1.6 W/kg | 22.2/22.1 °C |
| Slide opened | | | | | |
| 128 / 824.2 MHz | cheek | 0.946 W/kg | 0.949 W/kg | 1.6 W/kg | 22.2/22.1 °C |
| 190 / 836.6 MHz | cheek | 1.030 W/kg | 1.040 W/kg | 1.6 W/kg | 22.2/22.1 °C |
| 251 / 848.8 MHz | cheek | 1.090 W/kg | 1.080 W/kg | 1.6 W/kg | 22.2/22.1 °C |
| 128 / 824.2 MHz | tilted 15° | 0.401 W/kg | 0.461 W/kg | 1.6 W/kg | 22.2/22.1 °C |
| 190 / 836.6 MHz | tilted 15° | 0.431 W/kg | 0.487 W/kg | 1.6 W/kg | 22.2/22.1 °C |
| 251 / 848.8 MHz | tilted 15° | 0.465 W/kg | 0.506 W/kg | 1.6 W/kg | 22.2/22.1 °C |

Table 9: Test results (Head SAR 850 MHz)

| The table contains the measured SAR values averaged over a mass of 1 g | | | | |
|--|-----------|-------------------|----------|--------------------|
| Channel / frequency | Position | Body worn | Limit | Liquid temperature |
| 128 / 824.2 MHz | front | 0.550 W/kg | 1.6 W/kg | 22.1 °C |
| 190 / 836.6 MHz | front | 0.618 W/kg | 1.6 W/kg | 22.1 °C |
| 251 / 848.8 MHz | front | 0.594 W/kg | 1.6 W/kg | 22.1 °C |
| 128 / 824.2 MHz | rear | 0.913 W/kg | 1.6 W/kg | 22.1 °C |
| 190 / 836.6 MHz | rear | 1.010 W/kg | 1.6 W/kg | 22.1 °C |
| 251 / 848.8 MHz | rear | 0.964 W/kg | 1.6 W/kg | 22.1 °C |
| 190 / 836.6 MHz | rear EDGE | 0.640 W/kg | 1.6 W/kg | 22.1 °C |
| 190 / 836.6 MHz | rear 1TS | 0.923 W/kg | 1.6 W/kg | 22.1 °C |

Table 10: Test results (Body SAR 850 MHz)

Note: The SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit (< 0.8 W/kg), testing at the high and low channels is optional.

Tests in body position were performed with 15 mm air gap between DUT and SAM to simulate the use of a non-metallic belt-clip or holster.

| The table contains the measured SAR values averaged over a mass of 1 g | | | | | |
|--|------------|--------------------|---------------------|----------|--------------------|
| Channel / frequency | Position | Left hand position | Right hand position | Limit | Liquid temperature |
| Slide-in | | | | | |
| 512 / 1850.2 MHz | cheek | 0.780 W/kg | 0.557 W/kg | 1.6 W/kg | 21.7/21.8 °C |
| 661 / 1880.0 MHz | cheek | 0.825 W/kg | 0.597 W/kg | 1.6 W/kg | 21.7/21.8 °C |
| 810 / 1909.8 MHz | cheek | 0.931 W/kg | 0.708 W/kg | 1.6 W/kg | 21.7/21.8 °C |
| 512 / 1850.2 MHz | tilted 15° | 0.274 W/kg | 0.282 W/kg | 1.6 W/kg | 21.7/21.8 °C |
| 661 / 1880.0 MHz | tilted 15° | 0.307 W/kg | 0.249 W/kg | 1.6 W/kg | 21.7/21.8 °C |
| 810 / 1909.8 MHz | tilted 15° | 0.391 W/kg | 0.309 W/kg | 1.6 W/kg | 21.7/21.8 °C |
| Slide opened | | | | | |
| 512 / 1850.2 MHz | cheek | 0.413 W/kg | 0.515 W/kg | 1.6 W/kg | 21.8/21.8 °C |
| 661 / 1880.0 MHz | cheek | 0.465 W/kg | 0.539 W/kg | 1.6 W/kg | 21.8/21.8 °C |
| 810 / 1909.8 MHz | cheek | 0.530 W/kg | 0.598 W/kg | 1.6 W/kg | 21.8/21.8 °C |
| 512 / 1850.2 MHz | tilted 15° | 0.287 W/kg | 0.376 W/kg | 1.6 W/kg | 21.8/21.8 °C |
| 661 / 1880.0 MHz | tilted 15° | 0.309 W/kg | 0.381 W/kg | 1.6 W/kg | 21.8/21.8 °C |
| 810 / 1909.8 MHz | tilted 15° | 0.377 W/kg | 0.445 W/kg | 1.6 W/kg | 21.8/21.8 °C |

Table 11: Test results (Head SAR 1900 MHz)

| The table contains the measured SAR values averaged over a mass of 1 g | | | | |
|--|-----------|-------------------|----------|--------------------|
| Channel / frequency | Position | Body worn | Limit | Liquid temperature |
| 512 / 1850.2 MHz | front | 0.218 W/kg | 1.6 W/kg | 22.0 °C |
| 661 / 1880.0 MHz | front | 0.212 W/kg | 1.6 W/kg | 22.0 °C |
| 810 / 1909.8 MHz | front | 0.205 W/kg | 1.6 W/kg | 22.0 °C |
| 512 / 1850.2 MHz | rear | 0.393 W/kg | 1.6 W/kg | 21.8 °C |
| 661 / 1880.0 MHz | rear | 0.412 W/kg | 1.6 W/kg | 21.8 °C |
| 810 / 1909.8 MHz | rear | 0.414 W/kg | 1.6 W/kg | 21.8 °C |
| 810 / 1909.8 MHz | rear EDGE | 0.171 W/kg | 1.6 W/kg | 21.8 °C |
| 810 / 1909.8 MHz | rear ITS | 0.431 W/kg | 1.6 W/kg | 21.8 °C |

Table 12: Test results (Body SAR 1900 MHz)

Note: The SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit (< 0.8 W/kg), testing at the high and low channels is optional.

Tests in body position were performed with 15 mm air gap between DUT and SAM to simulate the use of a non-metallic belt-clip or holster.

2.5.1 General description of test procedures

The DUT is tested using a CMU 200 communications tester as controller unit to set test channels and maximum output power to the DUT, as well as for measuring the conducted peak power. Test positions as described in the tables above are in accordance with the specified test standard. Tests in body position are performed with the maximum number of timeslots in uplink. Tests in head position are performed in voice mode with 1 timeslot unless GPRS/EGPRS function allows parallel voice and data traffic on 2 or more timeslots (see chapter 1.5 for details). Conducted output power was measured using an integrated RF connector and attached RF cable.

2.6 Test results (conducted power measurement)

For the measurements a Rohde & Schwarz Radio Communication Tester CMU 200 was used. The output power was measured using an integrated RF connector and attached RF cable. The conducted output power was measured before and after each SAR measurement. The resulting power values were within a 0.2 dB tolerance of the values shown below.

| PCS 850 | | |
|---------------------|-----------|-----------|
| Channel / frequency | GMSK | 8-PSK |
| 128 / 824.2 MHz | 33.02 dBm | 27.32 dBm |
| 190 / 836.6 MHz | 33.03 dBm | 27.34 dBm |
| 251 / 848.8 MHz | 33.00 dBm | 27.51 dBm |
| PCS 1900 | | |
| Channel / frequency | GMSK | 8-PSK |
| 512 / 1850.2 MHz | 30.14 dBm | 26.16 dBm |
| 661 / 1880.0 MHz | 29.98 dBm | 26.00 dBm |
| 810 / 1909.8 MHz | 30.02 dBm | 26.02 dBm |

Table 13: Test results conducted peak power measurement

2.6.1 Multiple Transmitter Information

The DUT incorporates a Bluetooth module with 2.5 mW output power. At issue date of this test report no additional standalone or simultaneous transmit measurements together with the GSM transmitter were regarded as necessary by the FCC because BT output power remains below 12 mW.

Annex 1 System performance verification

Date/Time: 2008-08-25 09:15:13 Date/Time: 2008-08-25 09:21:11

System Performance Check-D850 head 2008-08

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN: 099

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 40.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.4, 6.4, 6.4); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=15mm, Pin=1000mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.1 mW/g

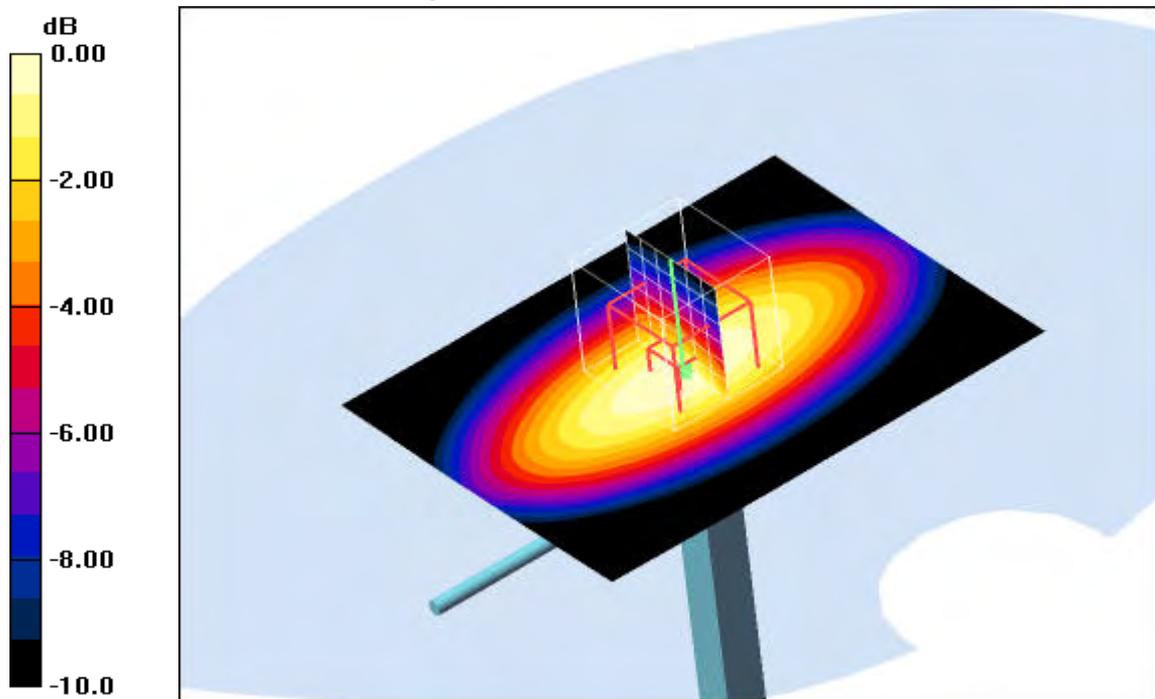
d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 116.8 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 15.8 W/kg

SAR(1 g) = 11 mW/g; SAR(10 g) = 7.19 mW/g

Maximum value of SAR (measured) = 12.0 mW/g



0 dB = 12.0mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.2°C; liquid temperature: 22.2°C

Date/Time: 2008-08-25 19:04:01 Date/Time: 2008-08-25 19:08:47

System Performance Check-D900-850 body 2008-08-25

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN: 099

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: M850 Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 1.04 \text{ mho/m}$; $\epsilon_r = 53.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.31, 6.31, 6.31); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=15mm, Pin=1000mW/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.9 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

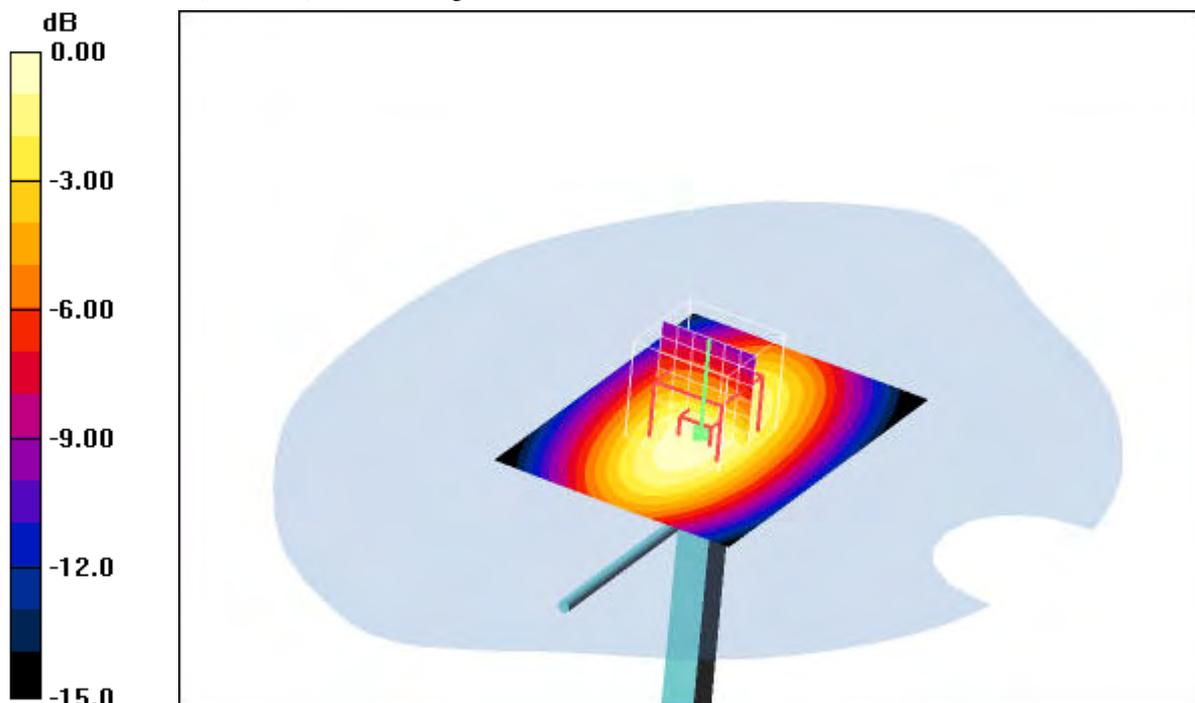
dz=5mm

Reference Value = 110.9 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 11 mW/g; SAR(10 g) = 7.2 mW/g

Maximum value of SAR (measured) = 12.0 mW/g



0 dB = 12.0mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.9°C; liquid temperature: 22.1°C

Date/Time: 2008-08-28 07:29:39 Date/Time: 2008-08-28 07:33:38

System Performance Check-D1900 head 2008-08-28

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:531

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

Medium: HSL1900 Medium parameters used (interpolated): $f = 1900 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Pin=1000mW/Area Scan (51x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 47.6 mW/g

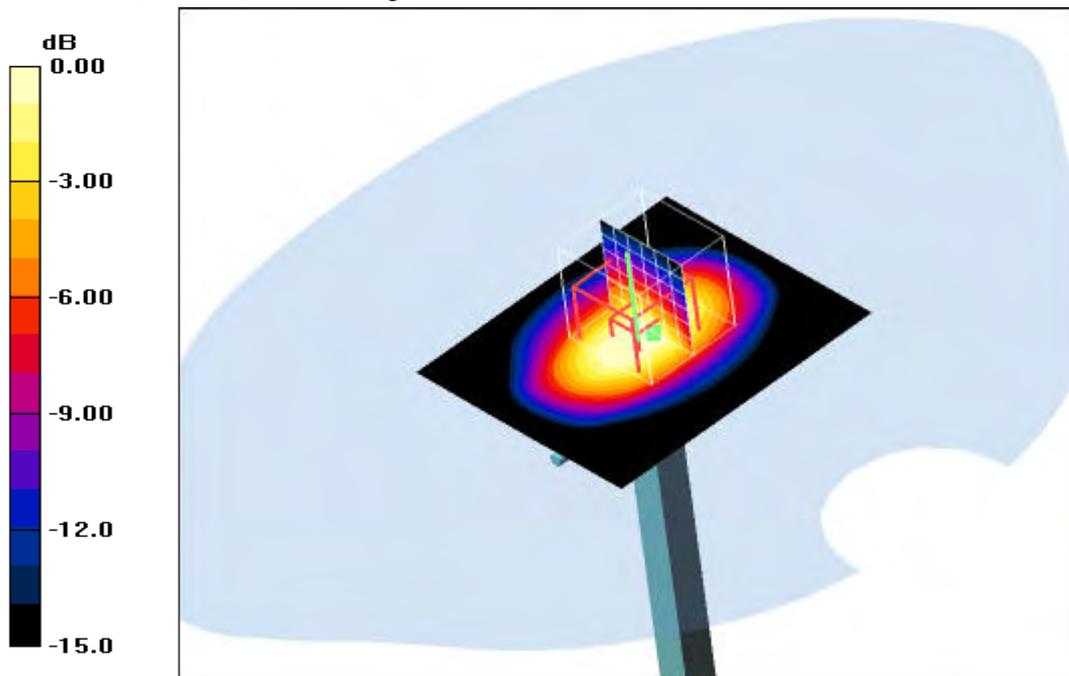
d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 179.1 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 67.2 W/kg

SAR(1 g) = 38.1 mW/g; SAR(10 g) = 20.2 mW/g

Maximum value of SAR (measured) = 42.2 mW/g



0 dB = 42.2mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 23.0°C; liquid temperature: 22.6°C

Date/Time: 2008-08-27 07:03:31 Date/Time: 2008-08-27 07:21:56

System Performance Check-D1900 body 2008-08-27

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:531

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

Medium: M1900 Medium parameters used (interpolated): $f = 1900 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

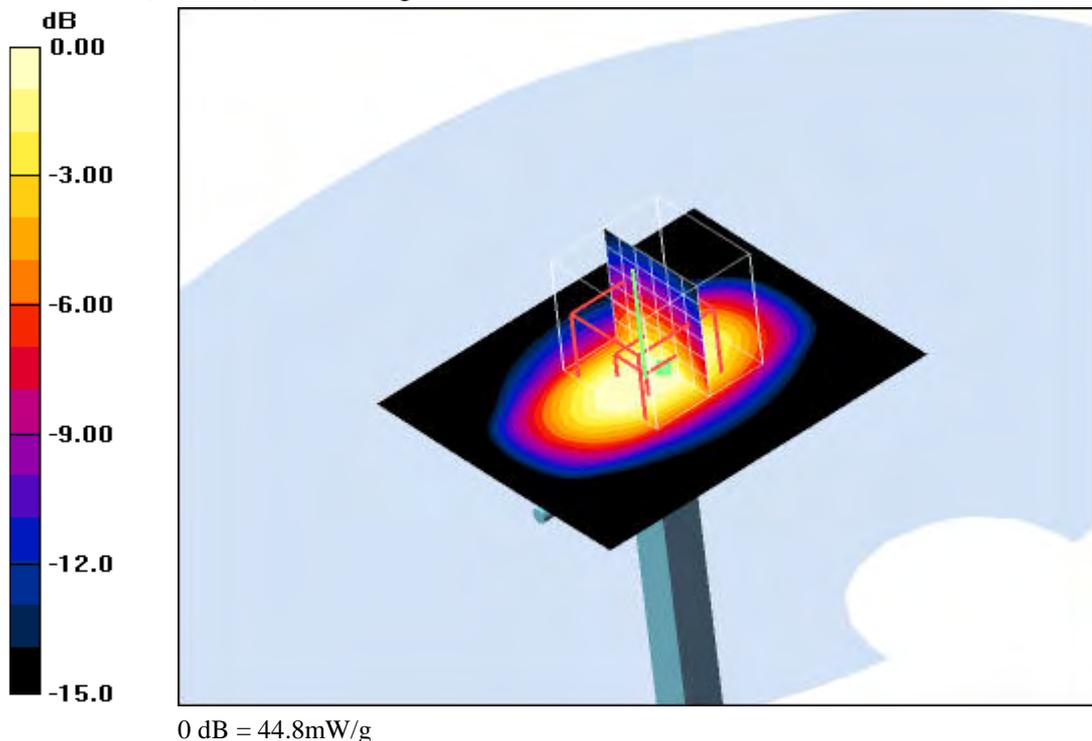
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(4.48, 4.48, 4.48); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Pin=1000mW/Area Scan (51x61x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 55.9 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 176.6 V/m; Power Drift = -0.021 dB
 Peak SAR (extrapolated) = 73.6 W/kg
SAR(1 g) = 40.2 mW/g; SAR(10 g) = 21.3 mW/g
 Maximum value of SAR (measured) = 44.8 mW/g



Additional information:

position or distance of DUT to SAM (if not standard head positions) :
 ambient temperature: 23.0°C; liquid temperature: 22.3°C

Annex 2 Measurement results (printout from DASY TM)

Remark: results of conducted power measurements: see chapter 2.5/2.6 (if applicable)

Annex 2.1 PCS 850 MHz head

Date/Time: 2008-08-25 09:36:33 Date/Time: 2008-08-25 09:42:36

P1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.18 mW/g

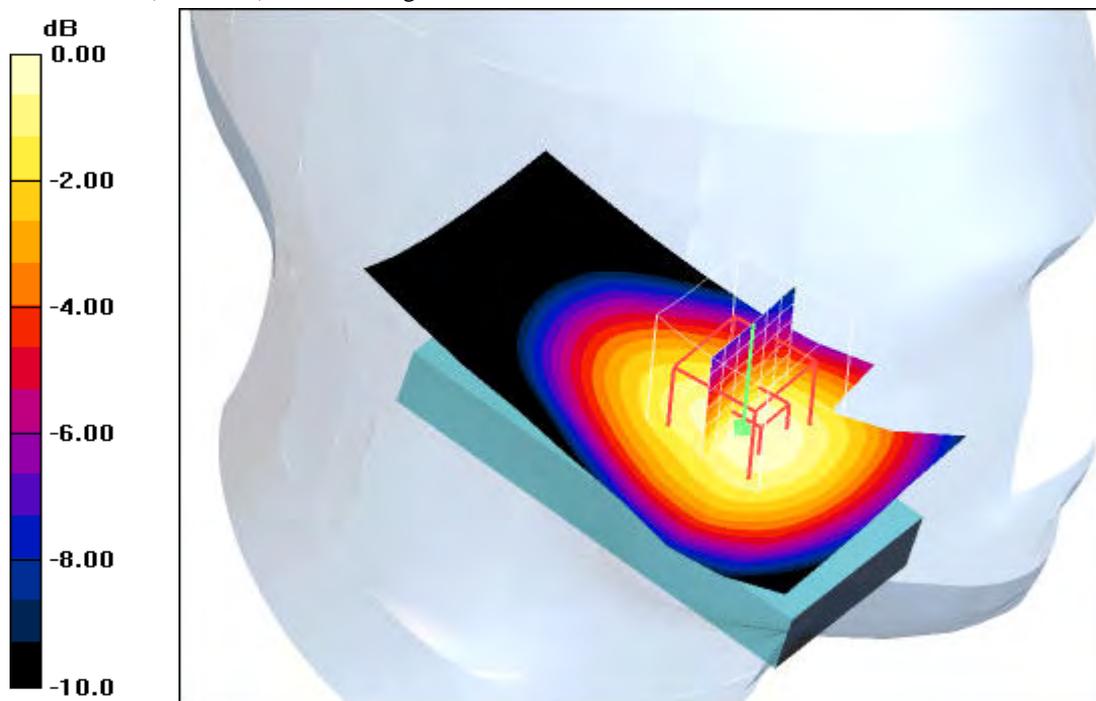
Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 38.2 V/m; Power Drift = -0.068 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.799 mW/g

Maximum value of SAR (measured) = 1.18 mW/g



0 dB = 1.18mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.2°C; liquid temperature: 22.2°C

Date/Time: 2008-08-25 09:59:08 Date/Time: 2008-08-25 10:04:51

P1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.34 mW/g

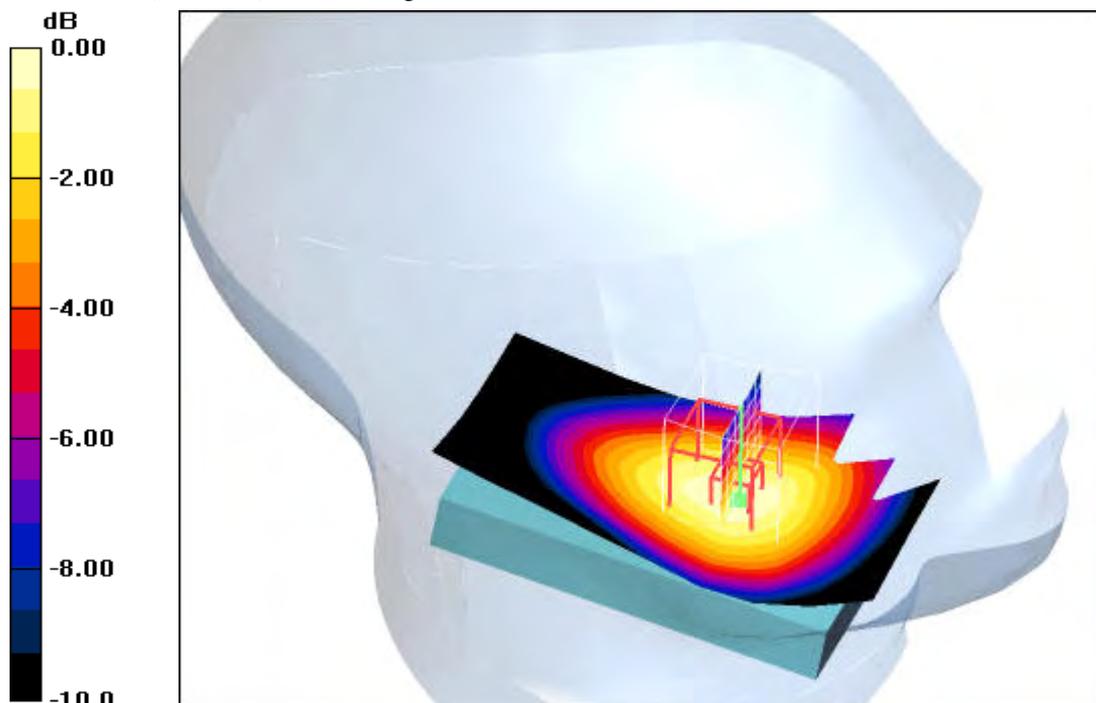
Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 40.8 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.889 mW/g

Maximum value of SAR (measured) = 1.33 mW/g



0 dB = 1.33mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.2°C; liquid temperature: 22.2°C

Date/Time: 2008-08-25 10:21:47 Date/Time: 2008-08-25 10:28:27

P1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.36 mW/g

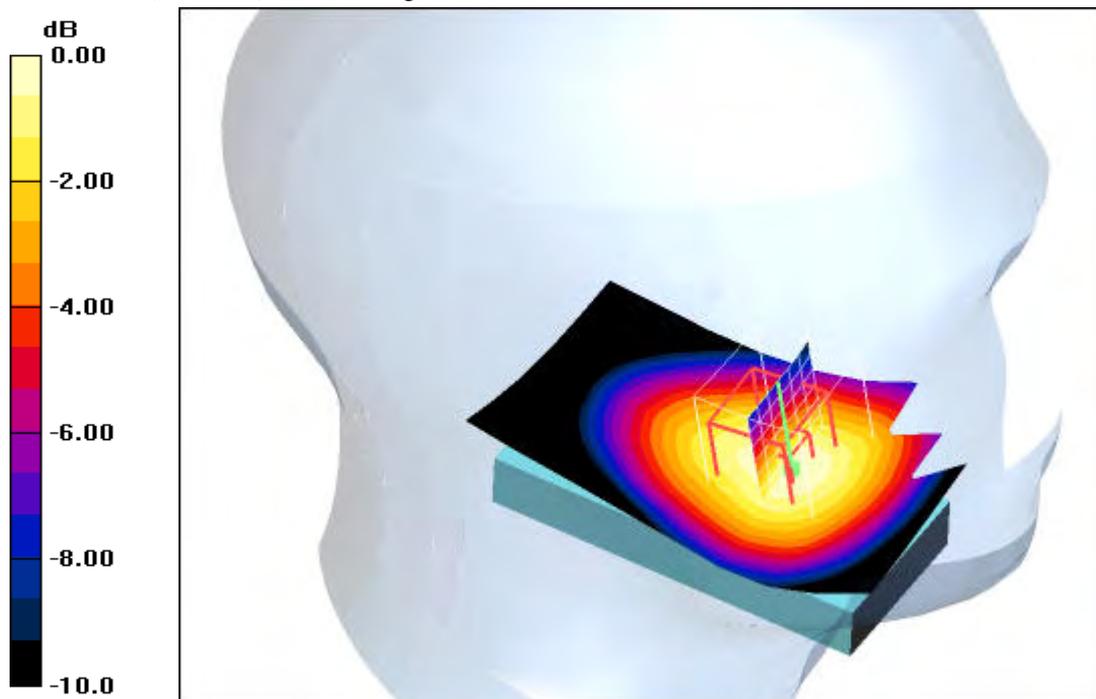
Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 40.9 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.896 mW/g

Maximum value of SAR (measured) = 1.33 mW/g



0 dB = 1.33mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.3°C; liquid temperature: 22.2°C

Date/Time: 2008-08-25 10:43:56 Date/Time: 2008-08-25 10:50:01

P1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.579 mW/g

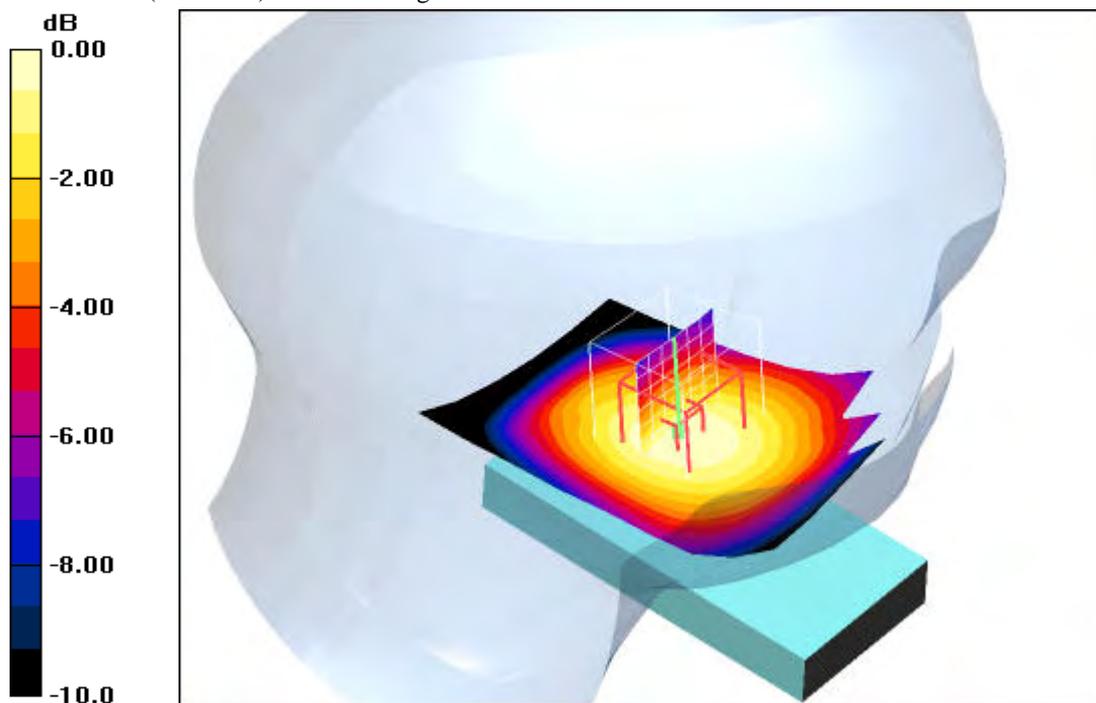
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.3 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.645 W/kg

SAR(1 g) = 0.543 mW/g; SAR(10 g) = 0.406 mW/g

Maximum value of SAR (measured) = 0.574 mW/g



0 dB = 0.574mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.3°C; liquid temperature: 22.2°C

P1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.625 mW/g

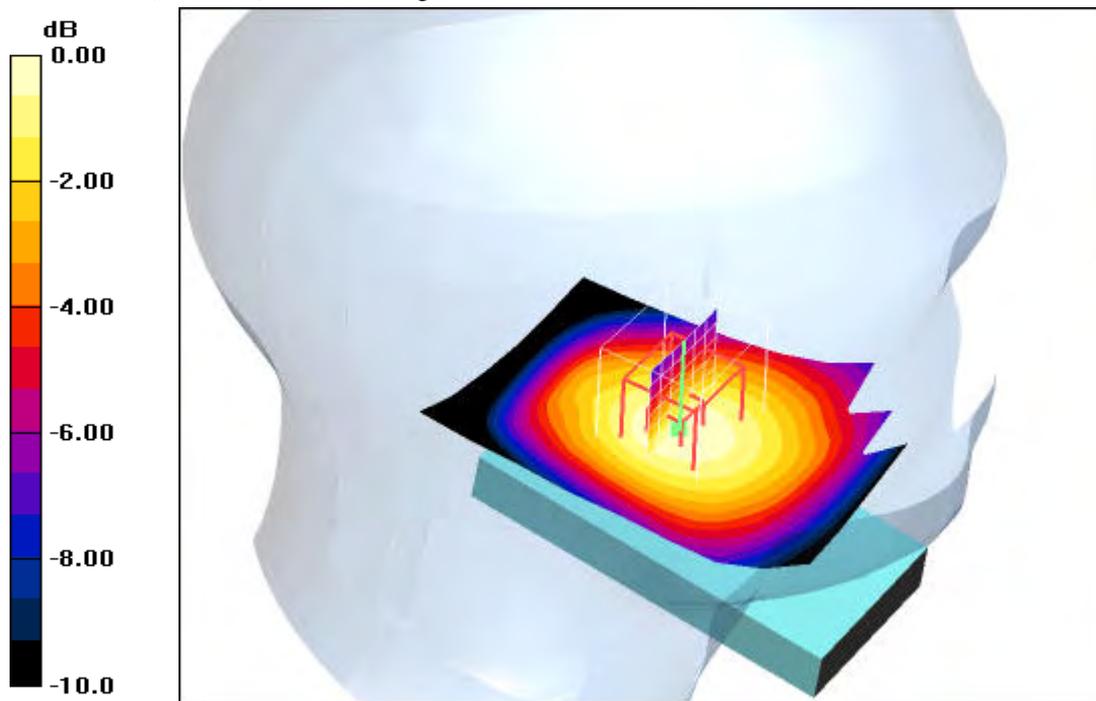
Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.4 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.708 W/kg

SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.442 mW/g

Maximum value of SAR (measured) = 0.630 mW/g



0 dB = 0.630mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.3°C; liquid temperature: 22.2°C

Date/Time: 2008-08-25 11:24:06 Date/Time: 2008-08-25 11:29:50

P1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.634 mW/g

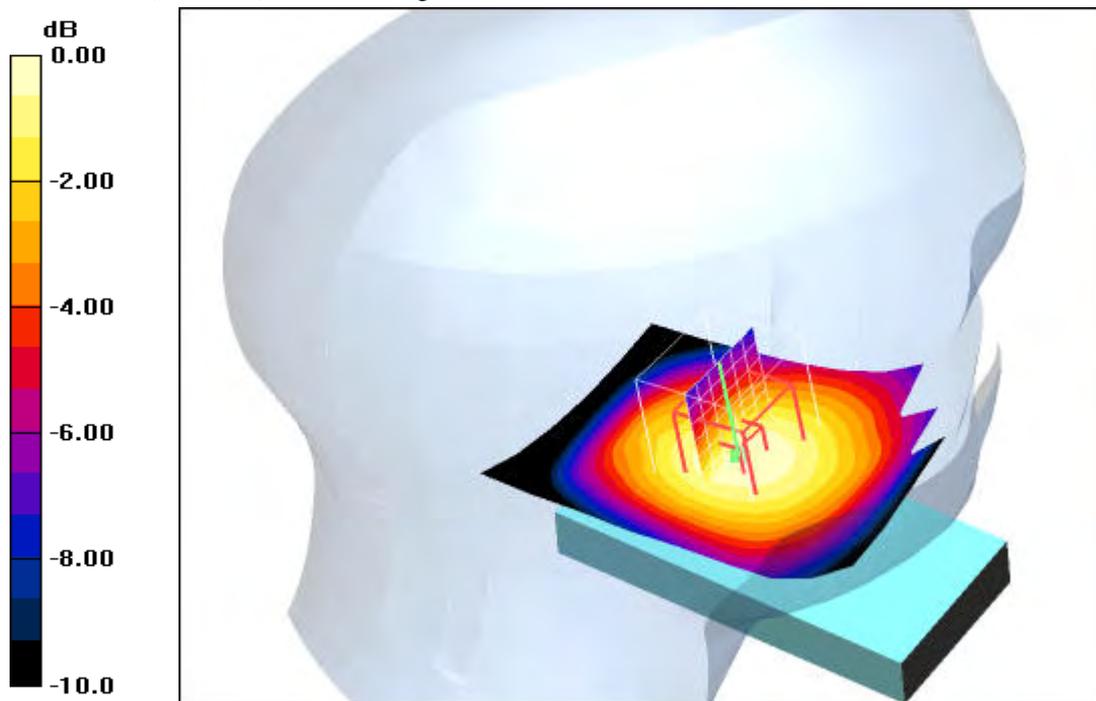
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.6 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.702 W/kg

SAR(1 g) = 0.600 mW/g; SAR(10 g) = 0.446 mW/g

Maximum value of SAR (measured) = 0.634 mW/g



0 dB = 0.634mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.3°C; liquid temperature: 22.2°C

Date/Time: 2008-08-25 12:45:51 Date/Time: 2008-08-25 12:51:57

P1528_OET65-LeftHandSide-GSM850-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.993 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

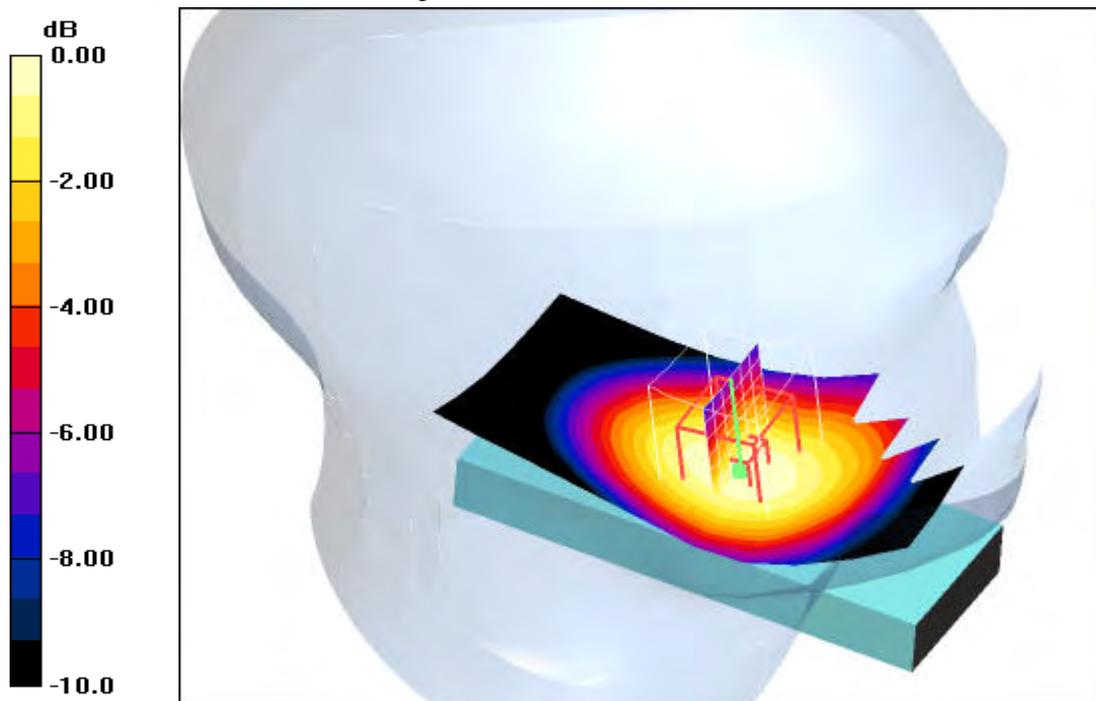
$dz=5\text{mm}$

Reference Value = 33.8 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.946 mW/g; SAR(10 g) = 0.708 mW/g

Maximum value of SAR (measured) = 0.993 mW/g



0 dB = 0.993mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.5°C; liquid temperature: 22.2°C

Date/Time: 2008-08-25 13:07:23 Date/Time: 2008-08-25 13:13:32

P1528_OET65-LeftHandSide-GSM850-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.10 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

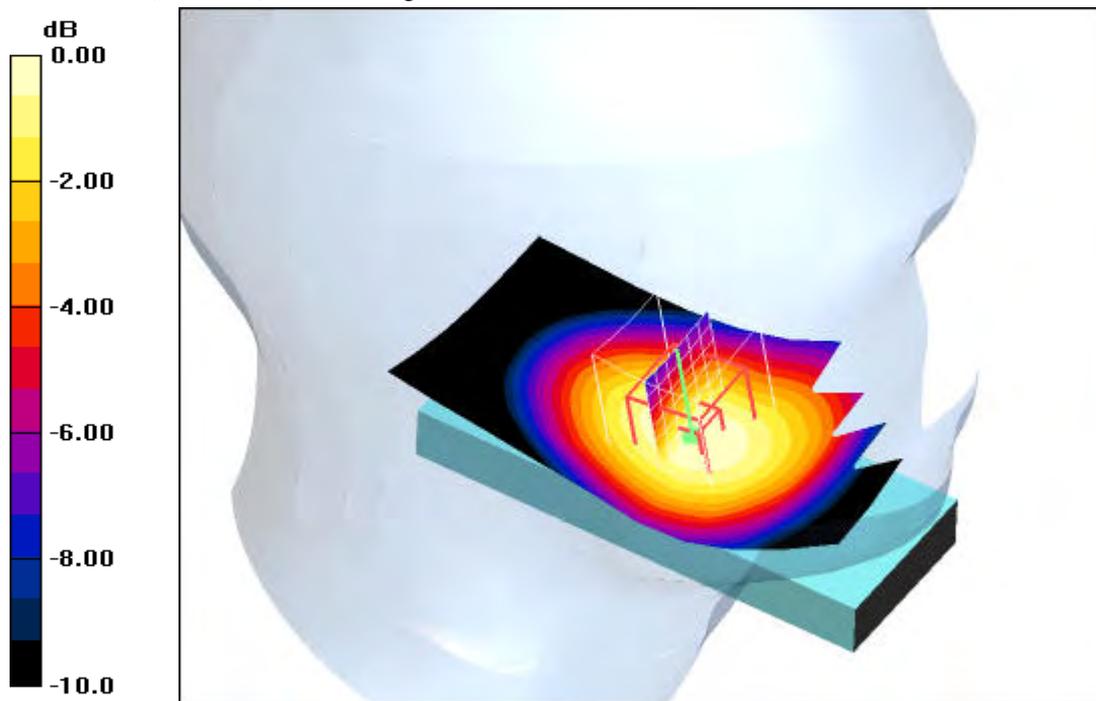
$dz=5\text{mm}$

Reference Value = 35.3 V/m; Power Drift = -0.058 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.769 mW/g

Maximum value of SAR (measured) = 1.09 mW/g



Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.5°C; liquid temperature: 22.2°C

Date/Time: 2008-08-25 13:29:51 Date/Time: 2008-08-25 13:35:57

P1528_OET65-LeftHandSide-GSM850-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.16 mW/g

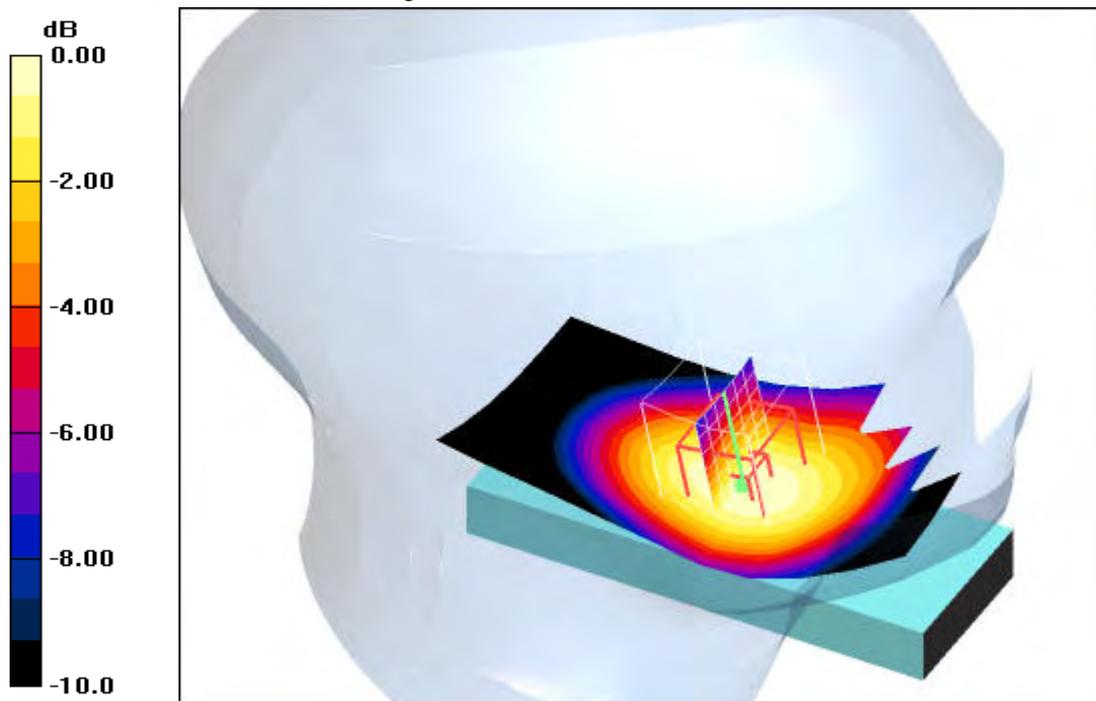
Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 36.9 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.812 mW/g

Maximum value of SAR (measured) = 1.15 mW/g



0 dB = 1.15mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.5°C; liquid temperature: 22.2°C

Date/Time: 2008-08-25 11:46:49 Date/Time: 2008-08-25 11:52:55

P1528_OET65-LeftHandSide-GSM850-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.427 mW/g

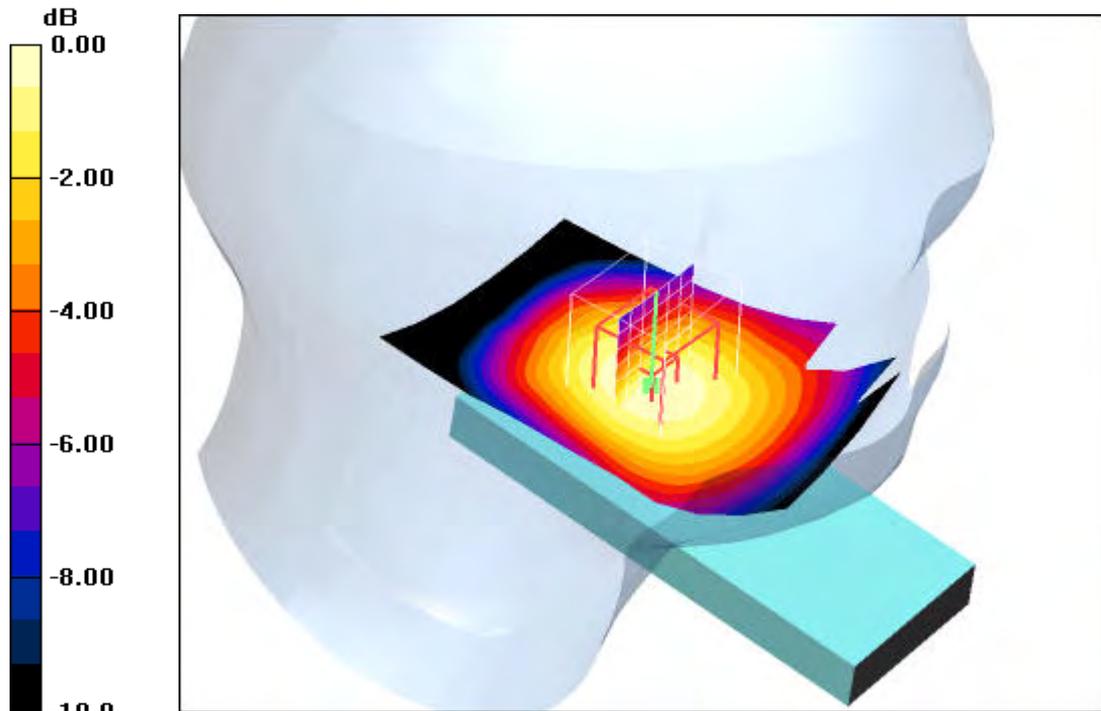
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.6 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.473 W/kg

SAR(1 g) = 0.401 mW/g; SAR(10 g) = 0.299 mW/g

Maximum value of SAR (measured) = 0.423 mW/g



0 dB = 0.423mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.4°C; liquid temperature: 22.2°C

Date/Time: 2008-08-25 12:06:34 Date/Time: 2008-08-25 12:12:47

P1528_OET65-LeftHandSide-GSM850-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.450 mW/g

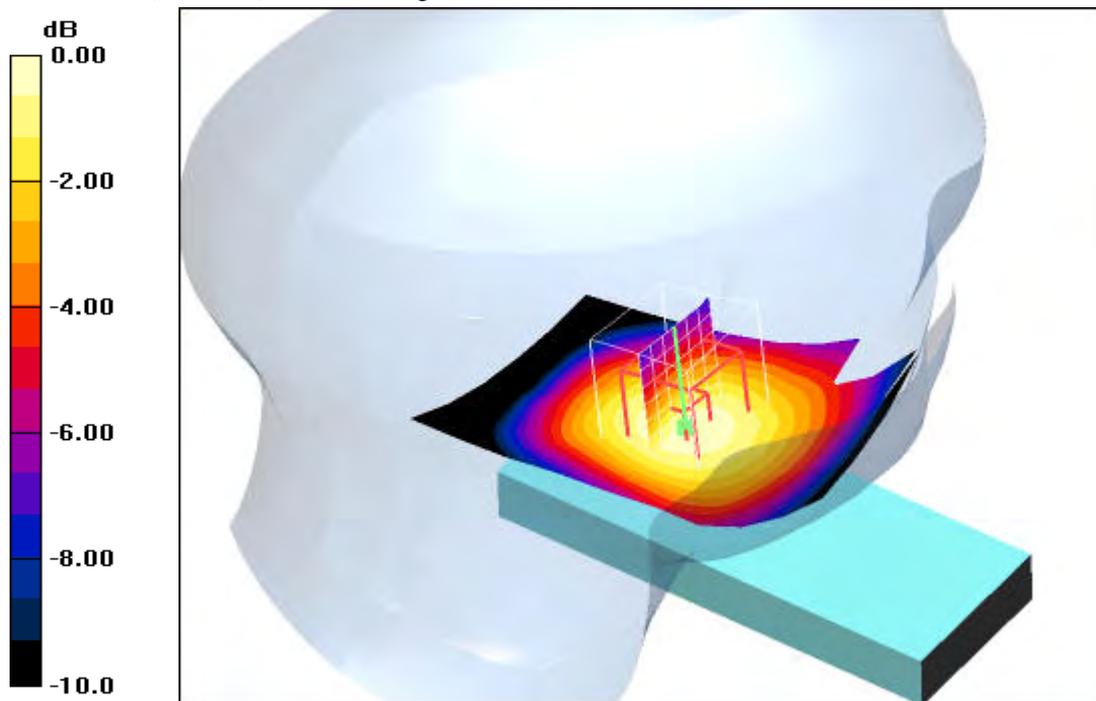
Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.0 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.513 W/kg

SAR(1 g) = 0.431 mW/g; SAR(10 g) = 0.319 mW/g

Maximum value of SAR (measured) = 0.454 mW/g



0 dB = 0.454mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.4°C; liquid temperature: 22.2°C

Date/Time: 2008-08-25 12:25:01 Date/Time: 2008-08-25 12:32:26

P1528_OET65-LeftHandSide-GSM850-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.485 mW/g

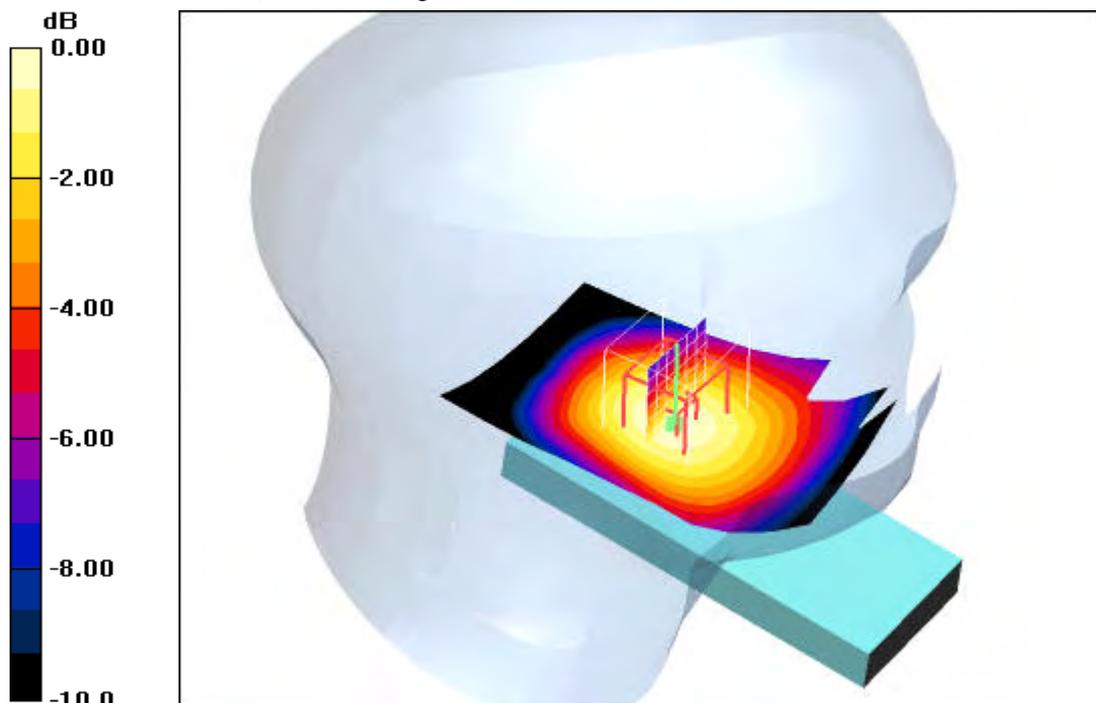
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.1 V/m; Power Drift = -0.081 dB

Peak SAR (extrapolated) = 0.556 W/kg

SAR(1 g) = 0.465 mW/g; SAR(10 g) = 0.343 mW/g

Maximum value of SAR (measured) = 0.493 mW/g



0 dB = 0.493mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.4°C; liquid temperature: 22.2°C

Date/Time: 2008-08-25 13:54:09 Date/Time: 2008-08-25 14:00:26

P1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.34 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

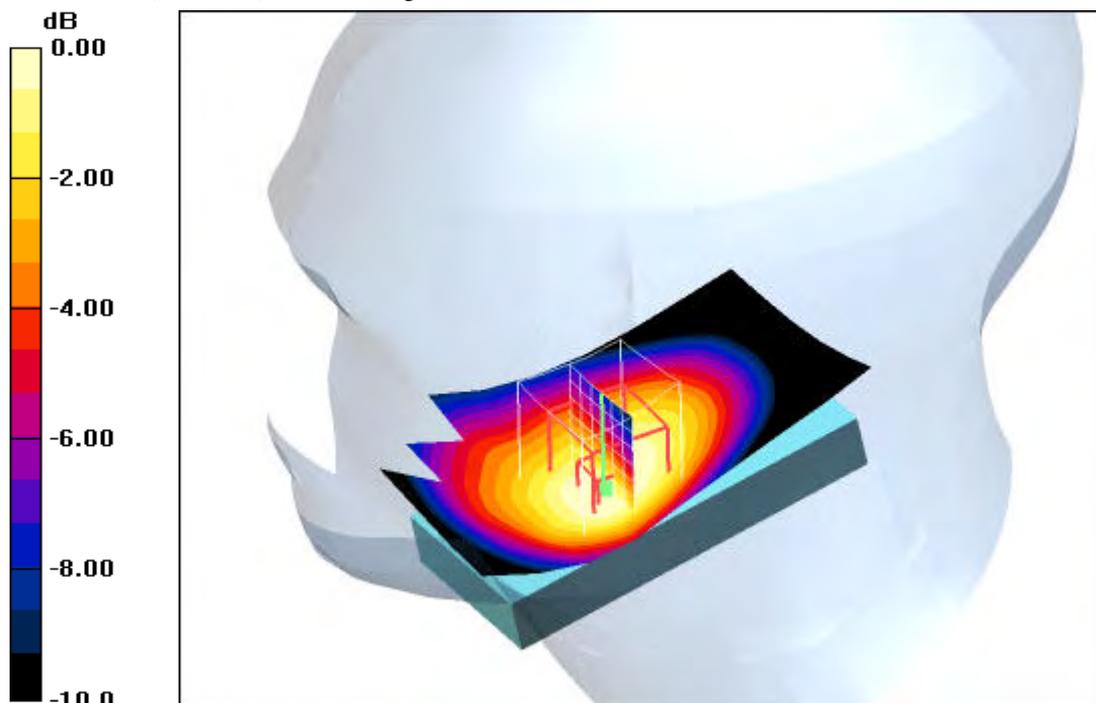
$dz=5\text{mm}$

Reference Value = 39.5 V/m; Power Drift = -0.066 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.857 mW/g

Maximum value of SAR (measured) = 1.29 mW/g



0 dB = 1.29mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.6°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 14:15:58 Date/Time: 2008-08-25 14:21:32

P1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.45 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

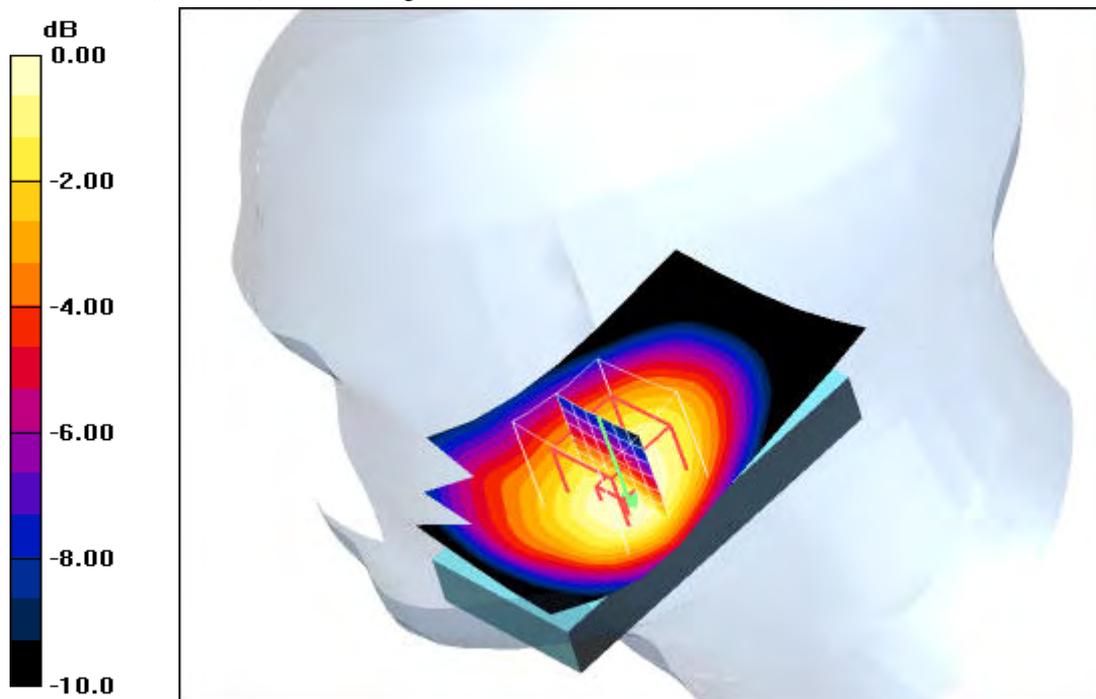
$dz=5\text{mm}$

Reference Value = 41.1 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.929 mW/g

Maximum value of SAR (measured) = 1.42 mW/g



0 dB = 1.42mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.6°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 14:35:53 Date/Time: 2008-08-25 14:41:29

P1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.46 mW/g

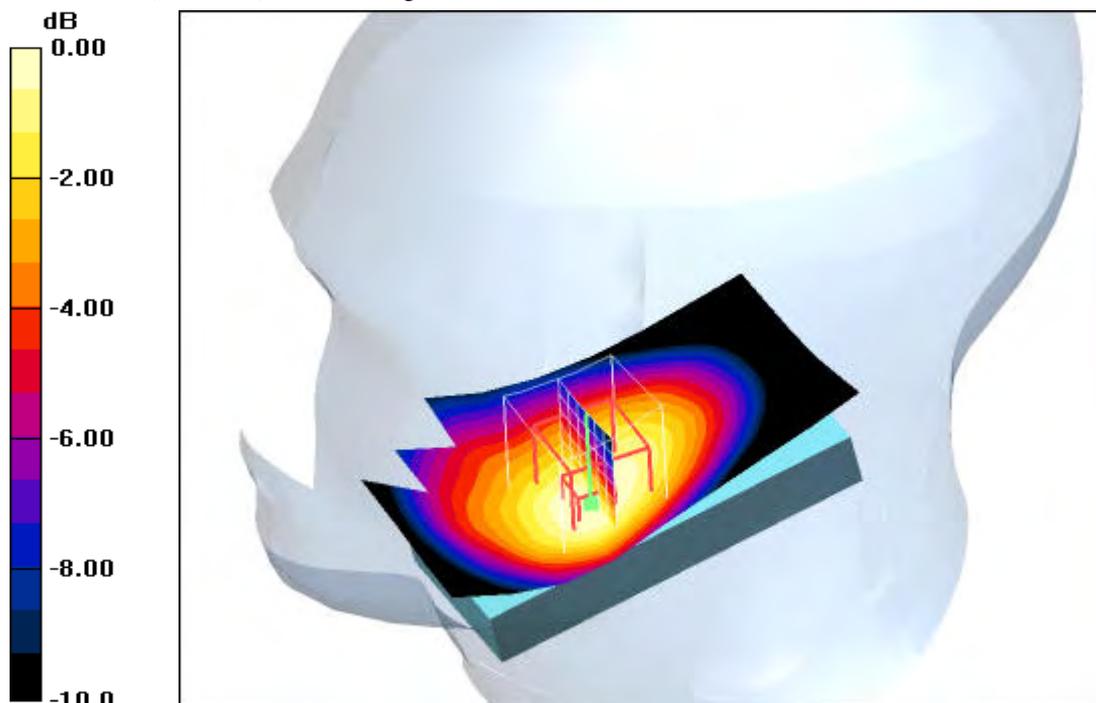
Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 41.7 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.943 mW/g

Maximum value of SAR (measured) = 1.45 mW/g



0 dB = 1.45mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.6°C; liquid temperature: 22.1°C

P1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.646 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

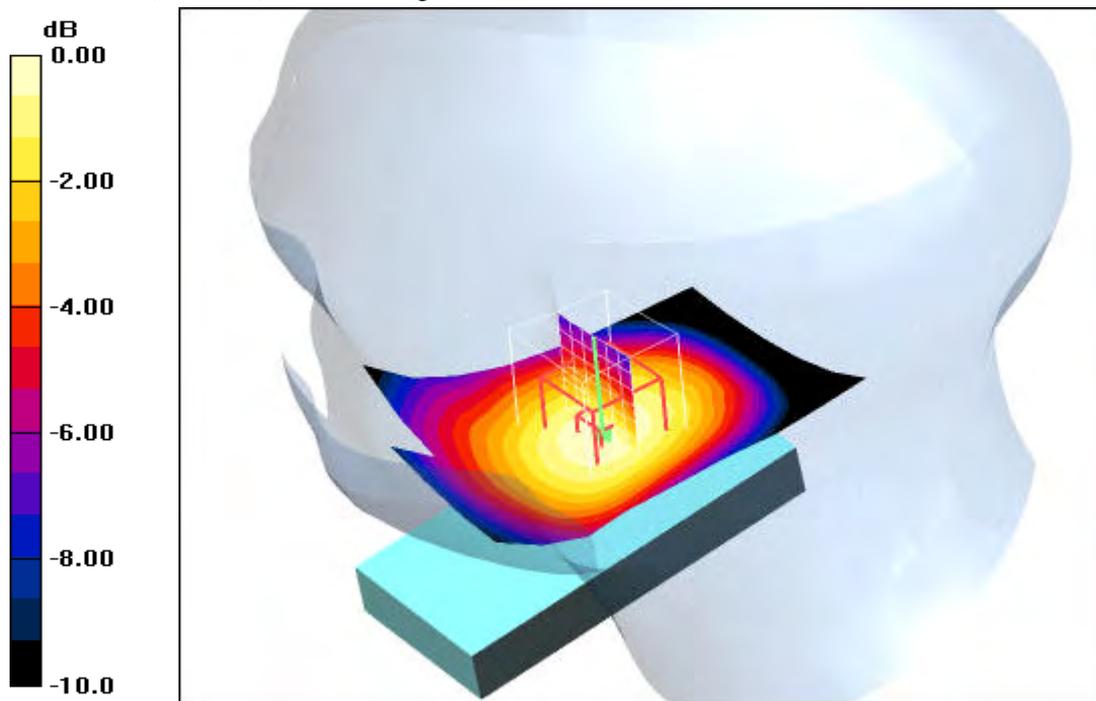
$dz=5\text{mm}$

Reference Value = 27.5 V/m; Power Drift = 0.039 dB

Peak SAR (extrapolated) = 0.728 W/kg

SAR(1 g) = 0.608 mW/g; SAR(10 g) = 0.449 mW/g

Maximum value of SAR (measured) = 0.643 mW/g



0 dB = 0.643mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 22.1°C

P1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.694 mW/g

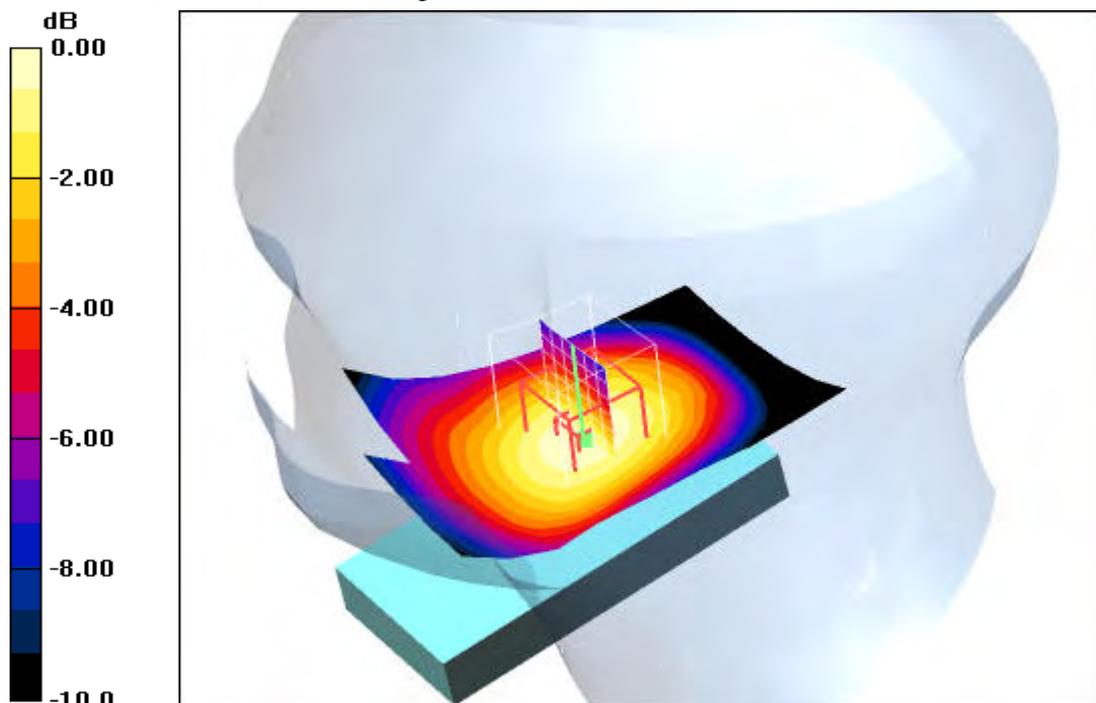
Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.7 V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 0.803 W/kg

SAR(1 g) = 0.660 mW/g; SAR(10 g) = 0.484 mW/g

Maximum value of SAR (measured) = 0.702 mW/g



Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 14:56:24 Date/Time: 2008-08-25 15:02:12

P1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.701 mW/g

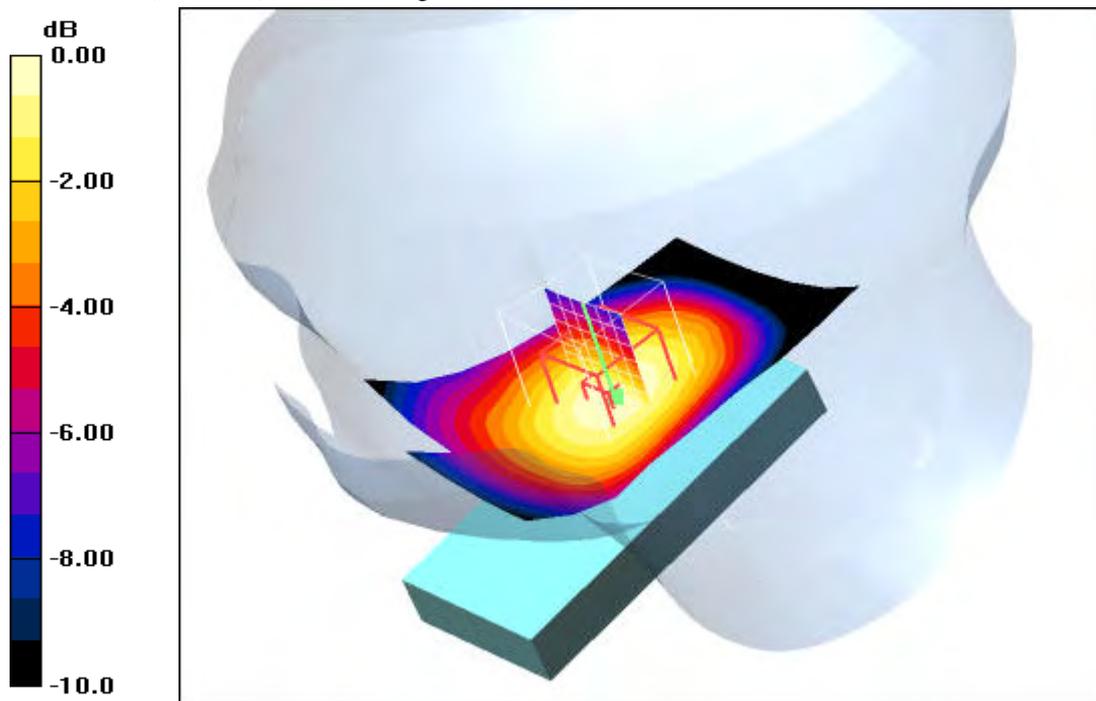
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.7 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.804 W/kg

SAR(1 g) = 0.660 mW/g; SAR(10 g) = 0.483 mW/g

Maximum value of SAR (measured) = 0.704 mW/g



0 dB = 0.704mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 15:59:54 Date/Time: 2008-08-25 16:07:11

P1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.02 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

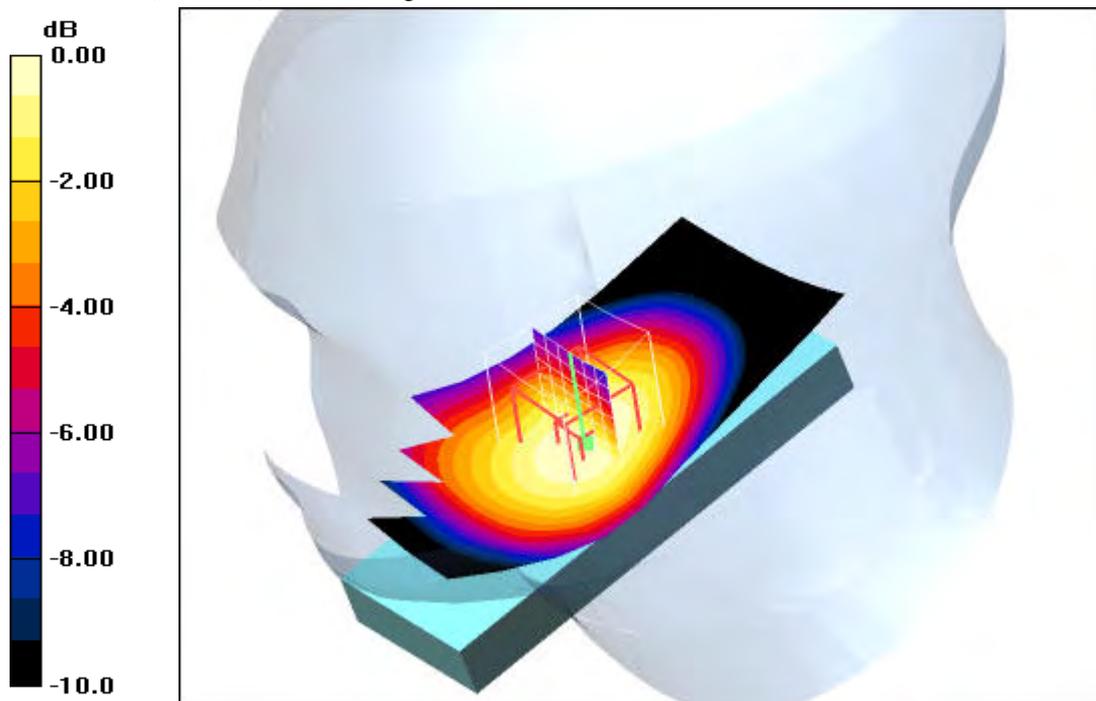
$dz=5\text{mm}$

Reference Value = 34.9 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.949 mW/g; SAR(10 g) = 0.712 mW/g

Maximum value of SAR (measured) = 1.01 mW/g



0 dB = 1.01 mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.8°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 16:20:28 Date/Time: 2008-08-25 16:27:36

P1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.12 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

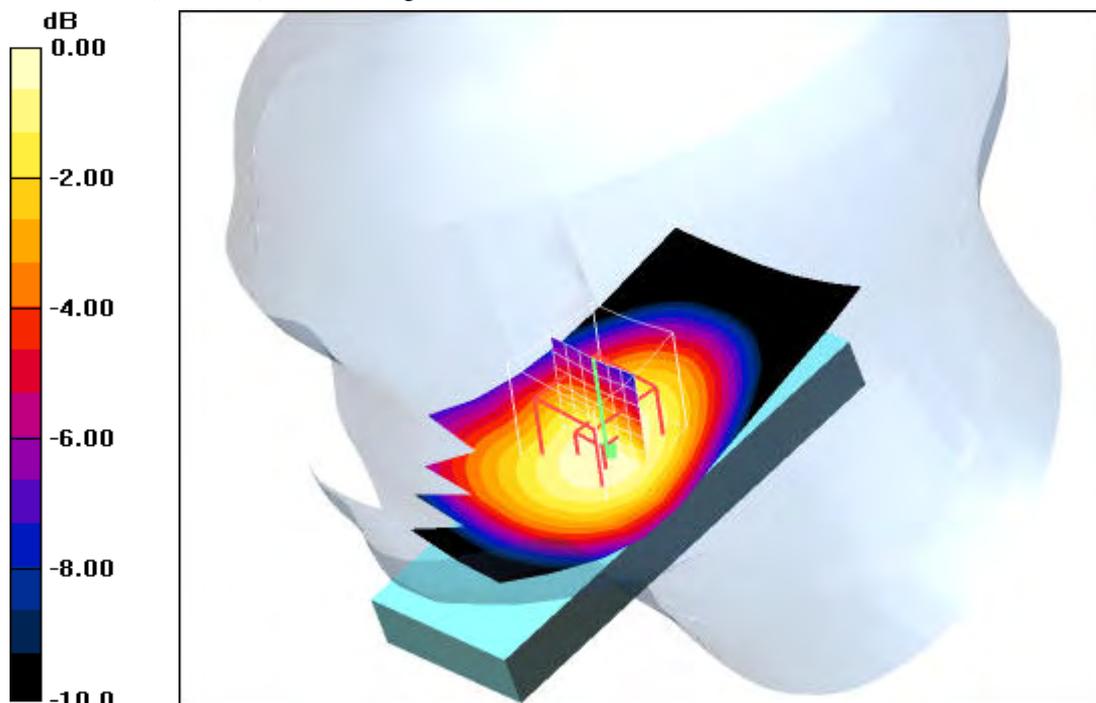
$dz=5\text{mm}$

Reference Value = 36.4 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.777 mW/g

Maximum value of SAR (measured) = 1.11 mW/g



0 dB = 1.11mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.8°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 16:41:35 Date/Time: 2008-08-25 16:47:34

P1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.17 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

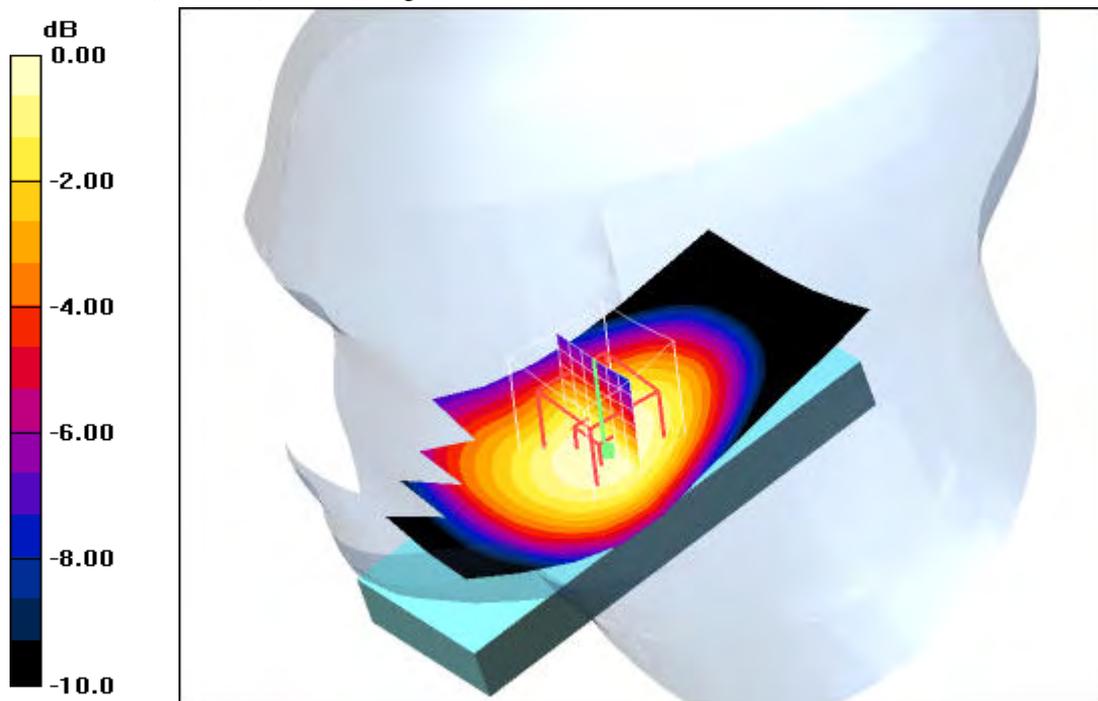
$dz=5\text{mm}$

Reference Value = 36.3 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.809 mW/g

Maximum value of SAR (measured) = 1.14 mW/g



0 dB = 1.14mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.8°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 17:02:53 Date/Time: 2008-08-25 17:09:10

P1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.479 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

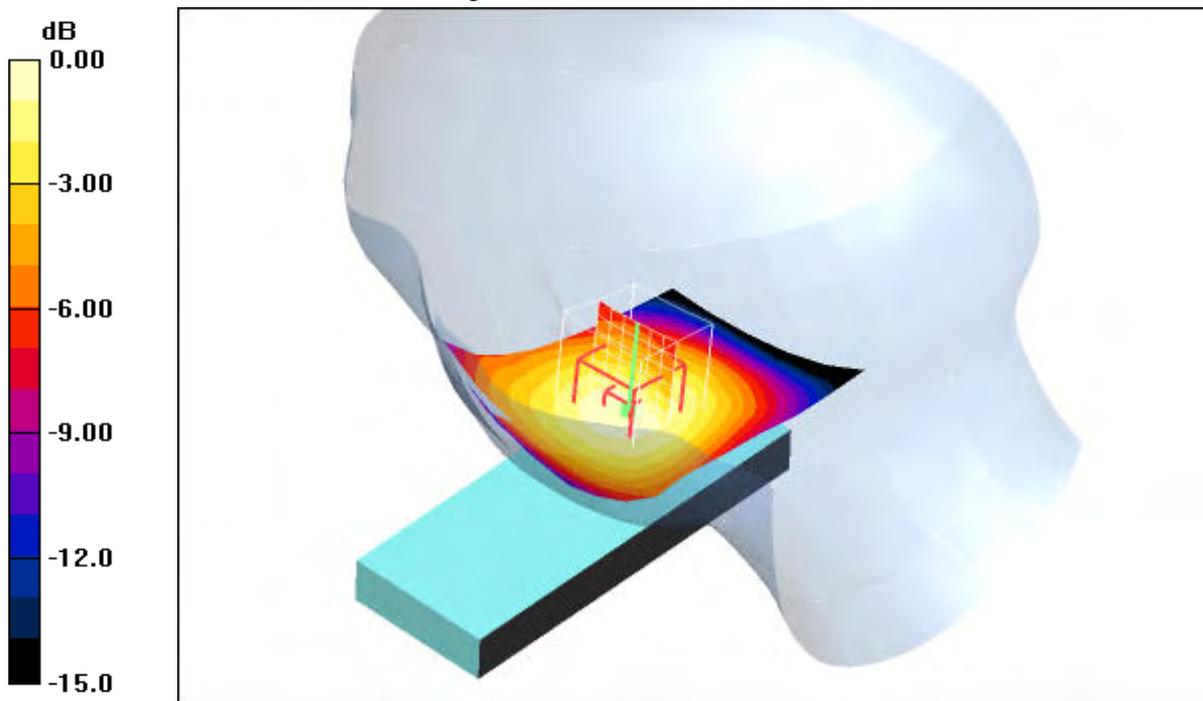
$dz=5\text{mm}$

Reference Value = 24.1 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.551 W/kg

SAR(1 g) = 0.461 mW/g; SAR(10 g) = 0.342 mW/g

Maximum value of SAR (measured) = 0.488 mW/g



0 dB = 0.488mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.8°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 17:28:06 Date/Time: 2008-08-25 17:34:18

P1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.517 mW/g

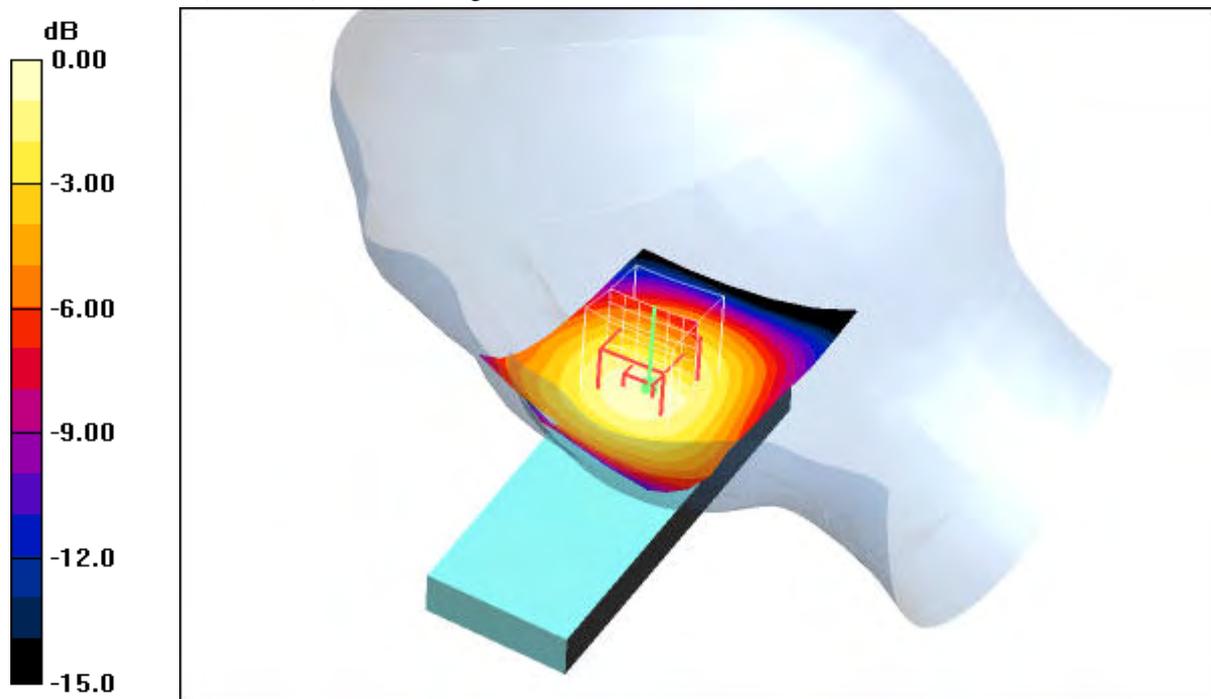
Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.9 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 0.583 W/kg

SAR(1 g) = 0.487 mW/g; SAR(10 g) = 0.360 mW/g

Maximum value of SAR (measured) = 0.519 mW/g



0 dB = 0.519mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.8°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 17:48:43 Date/Time: 2008-08-25 17:55:16

P1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.65, 6.65, 6.65); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.536 mW/g

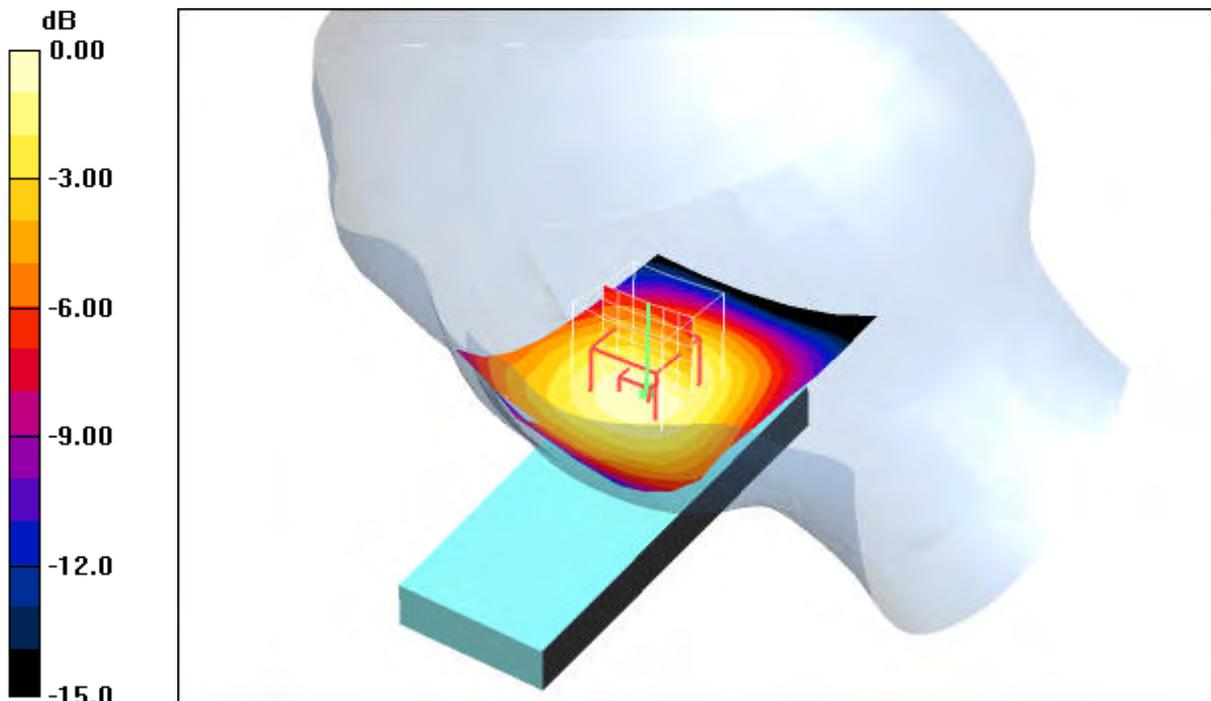
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.5 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.612 W/kg

SAR(1 g) = 0.506 mW/g; SAR(10 g) = 0.372 mW/g

Maximum value of SAR (measured) = 0.538 mW/g



0 dB = 0.538mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.8°C; liquid temperature: 22.1°C

Annex 2.2 PCS 850 MHz body

Date/Time: 2008-08-25 20:13:21 Date/Time: 2008-08-25 20:18:55

P1528_OET65-Body-GSM850 GPRS class 10 / 2 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850 GPRS class 10; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

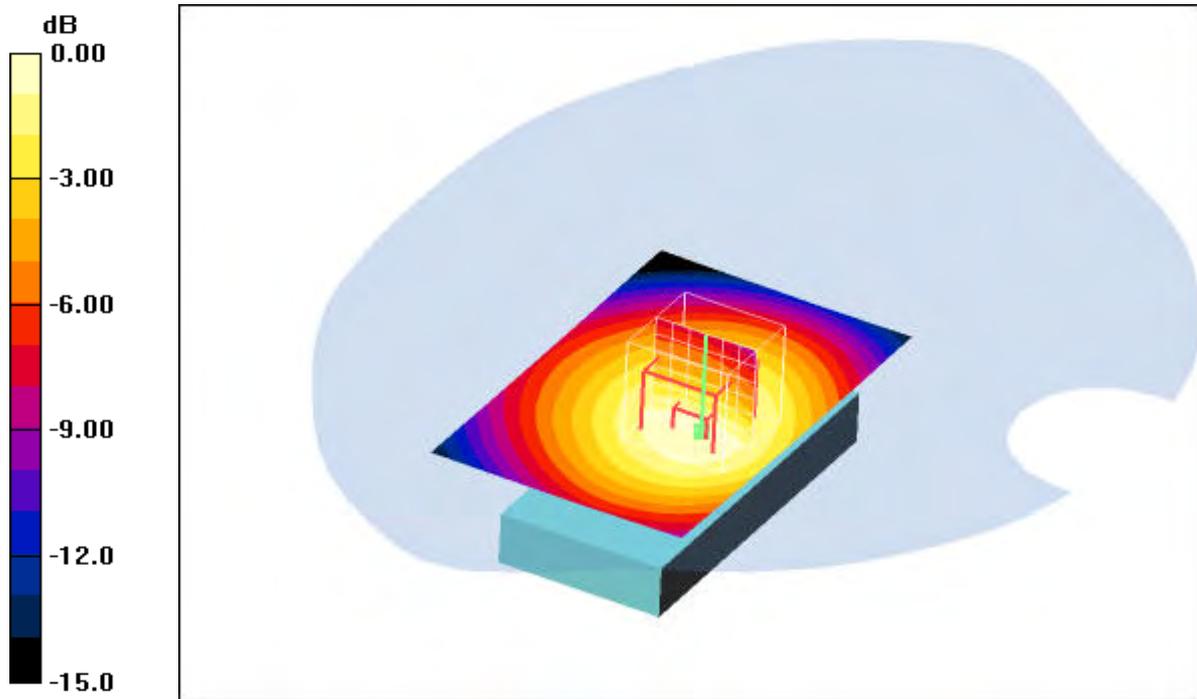
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.55, 6.55, 6.55); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.591 mW/g

Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 24.7 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.686 W/kg
SAR(1 g) = 0.550 mW/g; SAR(10 g) = 0.400 mW/g
Maximum value of SAR (measured) = 0.585 mW/g



0 dB = 0.585mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.0°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 19:54:06 Date/Time: 2008-08-25 19:59:49

P1528_OET65-Body-GSM850 GPRS class 10 / 2 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850 GPRS class 10; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.55, 6.55, 6.55); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.673 mW/g

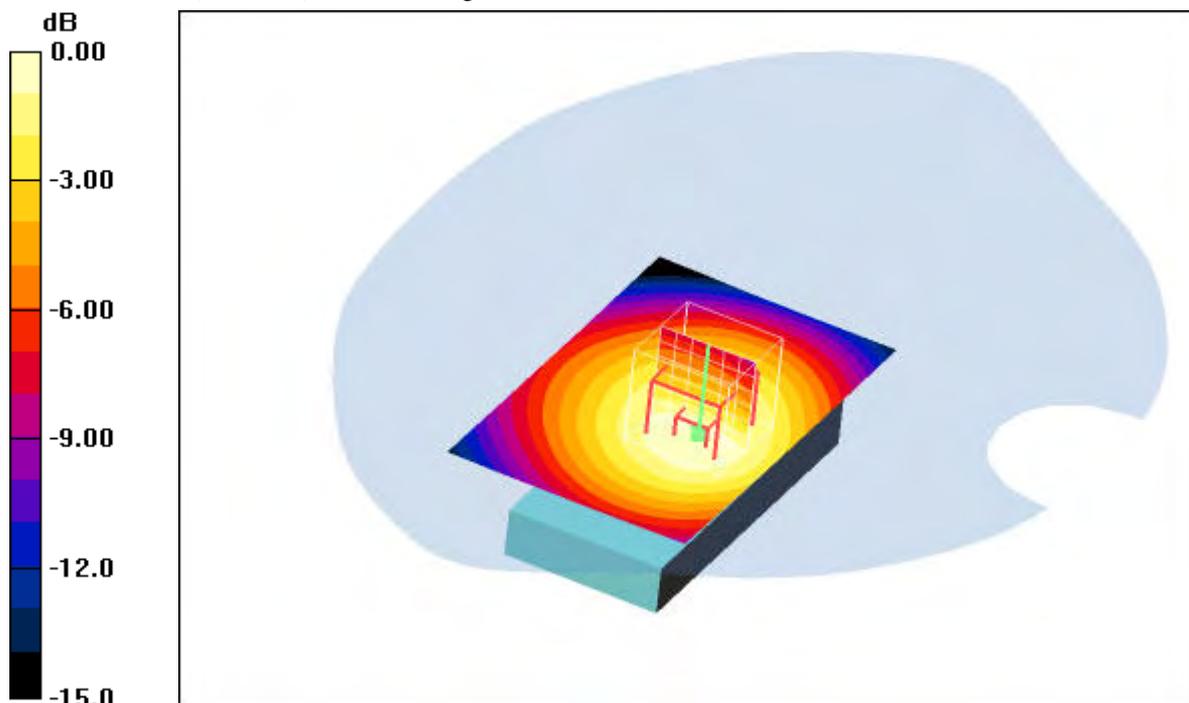
Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.4 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.786 W/kg

SAR(1 g) = 0.618 mW/g; SAR(10 g) = 0.449 mW/g

Maximum value of SAR (measured) = 0.655 mW/g



0 dB = 0.655mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.0°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 19:33:32 Date/Time: 2008-08-25 19:39:03

P1528_OET65-Body-GSM850 GPRS class 10 / 2 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850 GPRS class 10; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.55, 6.55, 6.55); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.666 mW/g

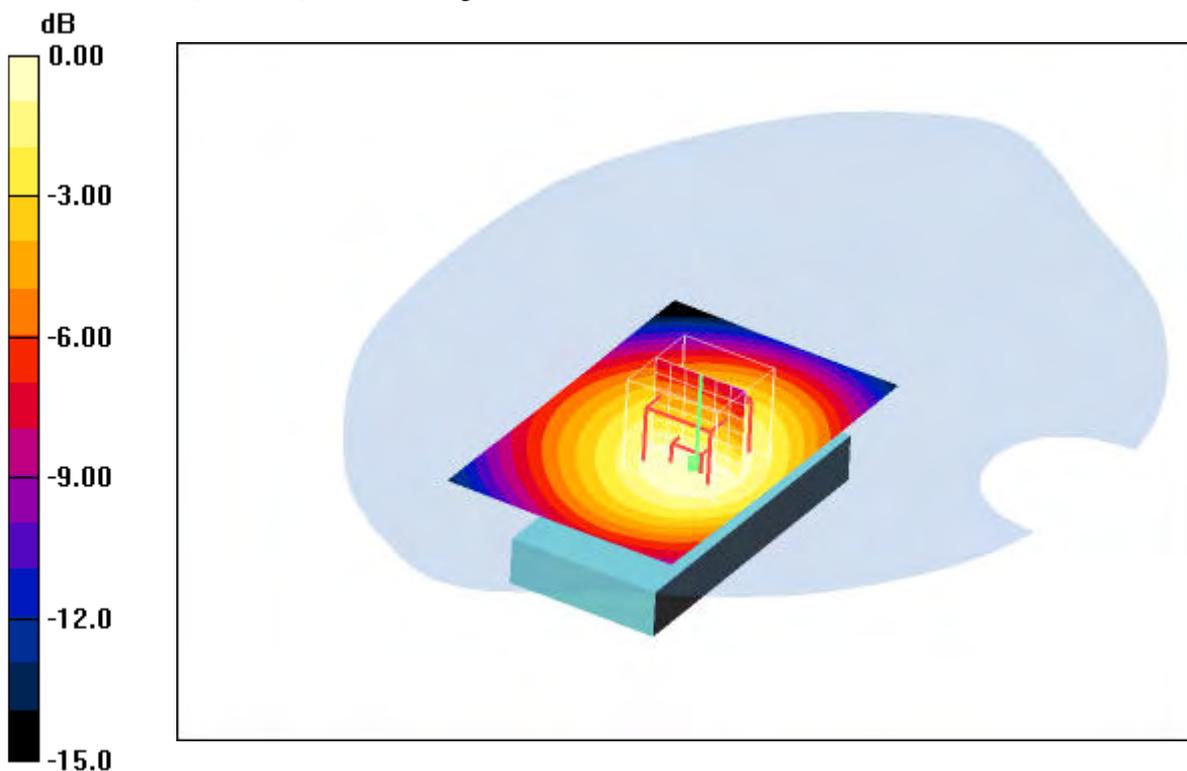
Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.9 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 0.742 W/kg

SAR(1 g) = 0.594 mW/g; SAR(10 g) = 0.430 mW/g

Maximum value of SAR (measured) = 0.629 mW/g



0 dB = 0.629mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.0°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 20:48:13 Date/Time: 2008-08-25 20:53:53

P1528_OET65-Body-GSM850 GPRS class 10 / 2 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850 GPRS class 10; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.55, 6.55, 6.55); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Rear position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

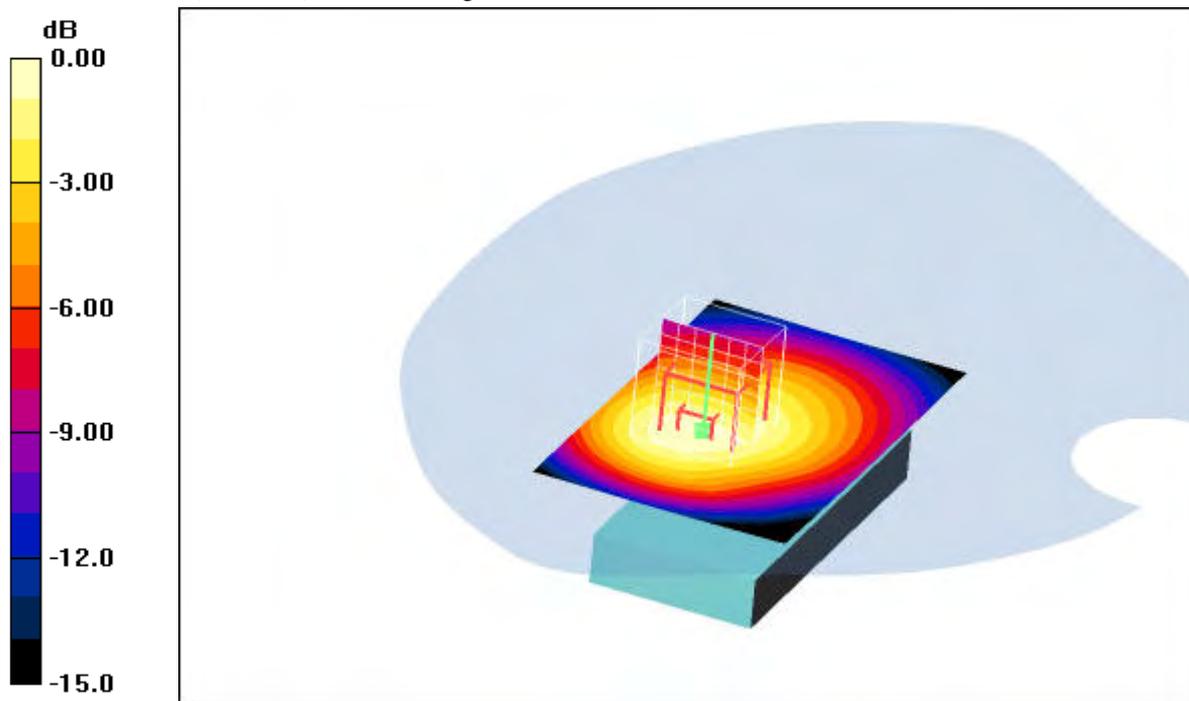
$dz=5\text{mm}$

Reference Value = 32.3 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.913 mW/g; SAR(10 g) = 0.638 mW/g

Maximum value of SAR (measured) = 0.978 mW/g



0 dB = 0.978mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.0°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 21:29:23 Date/Time: 2008-08-25 21:35:18

P1528_OET65-Body-GSM850 GPRS class 10 / 2 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850 GPRS class 10; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.55, 6.55, 6.55); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.09 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

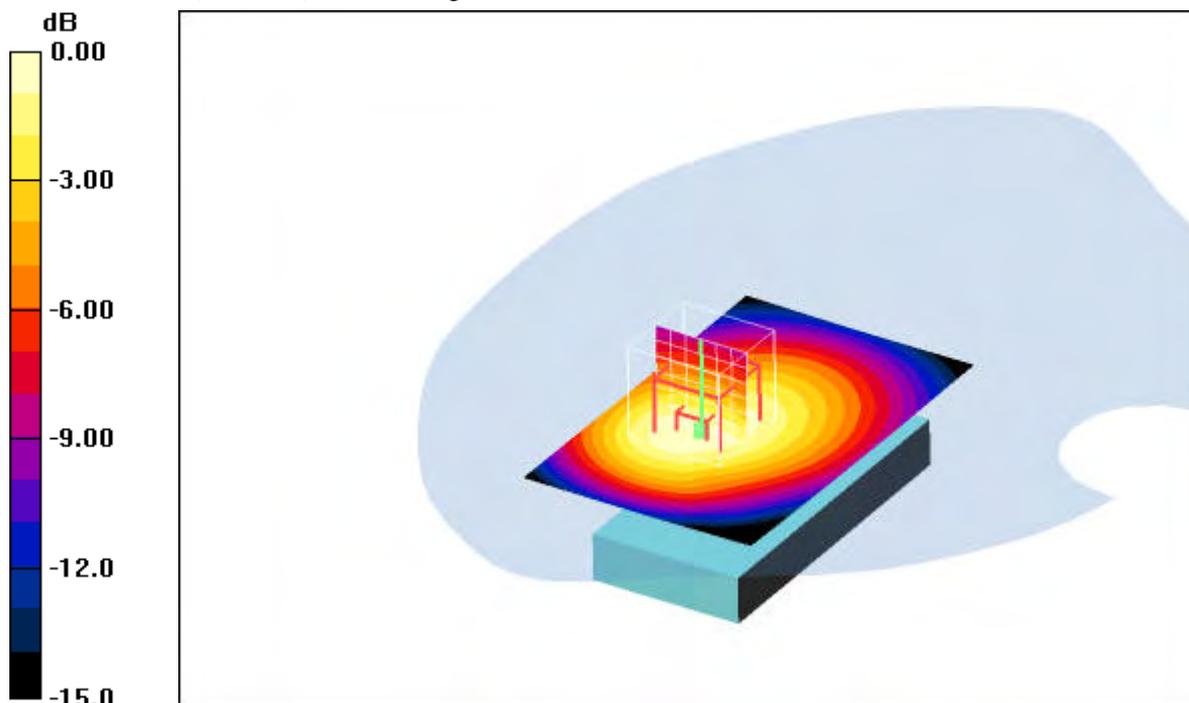
dz=5mm

Reference Value = 33.9 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.704 mW/g

Maximum value of SAR (measured) = 1.09 mW/g



0 dB = 1.09mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.0°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 21:09:38 Date/Time: 2008-08-25 21:15:32

P1528_OET65-Body-GSM850 GPRS class 10 / 2 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850 GPRS class 10; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.55, 6.55, 6.55); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.05 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

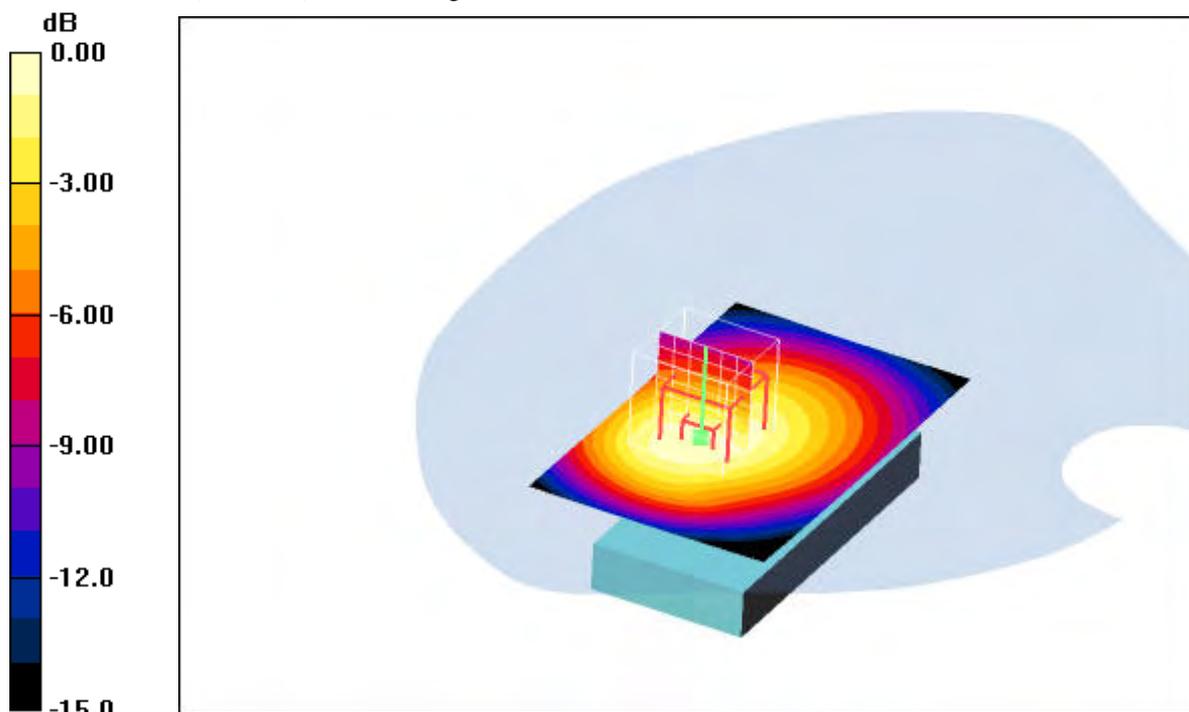
$dz=5\text{mm}$

Reference Value = 33.3 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.964 mW/g; SAR(10 g) = 0.672 mW/g

Maximum value of SAR (measured) = 1.04 mW/g



0 dB = 1.04mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.0°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 22:12:25 Date/Time: 2008-08-25 22:17:51

P1528_OET65-Body-GSM850 EGPRS class 10 / 2 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850 EGPRS class 10; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.55, 6.55, 6.55); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.697 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

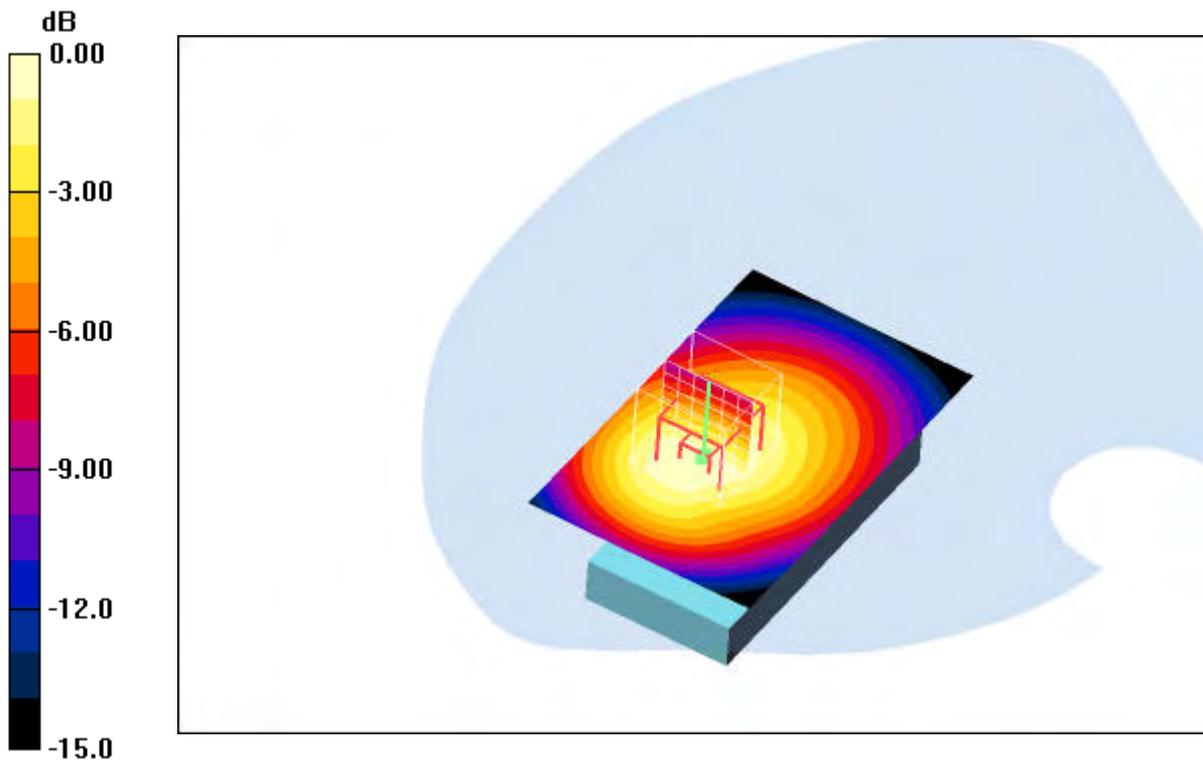
dz=5mm

Reference Value = 27.6 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 0.827 W/kg

SAR(1 g) = 0.640 mW/g; SAR(10 g) = 0.448 mW/g

Maximum value of SAR (measured) = 0.683 mW/g



0 dB = 0.683mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.0°C; liquid temperature: 22.1°C

Date/Time: 2008-08-25 21:49:47 Date/Time: 2008-08-25 21:55:29

P1528_OET65-Body-GSM850 GPRS class 8 / 1 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(6.55, 6.55, 6.55); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.992 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

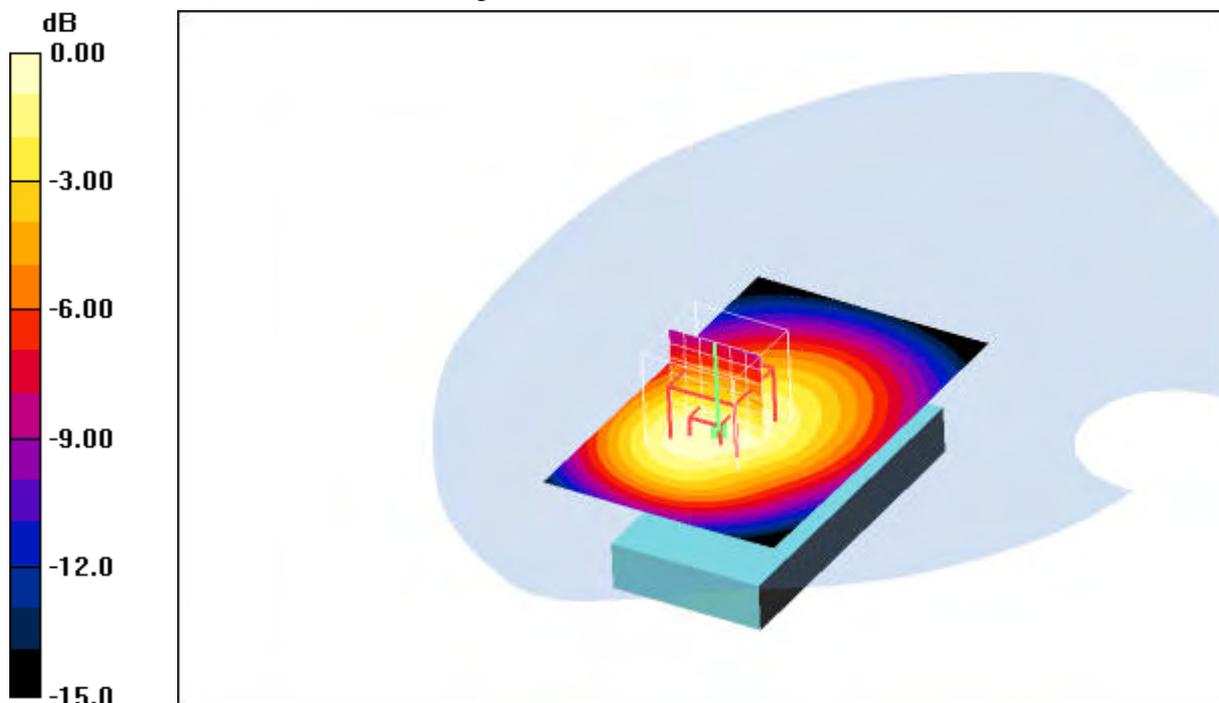
dz=5mm

Reference Value = 33.4 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.923 mW/g; SAR(10 g) = 0.641 mW/g

Maximum value of SAR (measured) = 0.992 mW/g



0 dB = 0.992mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.0°C; liquid temperature: 22.1°C

Annex 2.3 PCS 1900 MHz head

Date/Time: 2008-08-28 16:06:25 Date/Time: 2008-08-28 16:11:57

P1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.830 mW/g

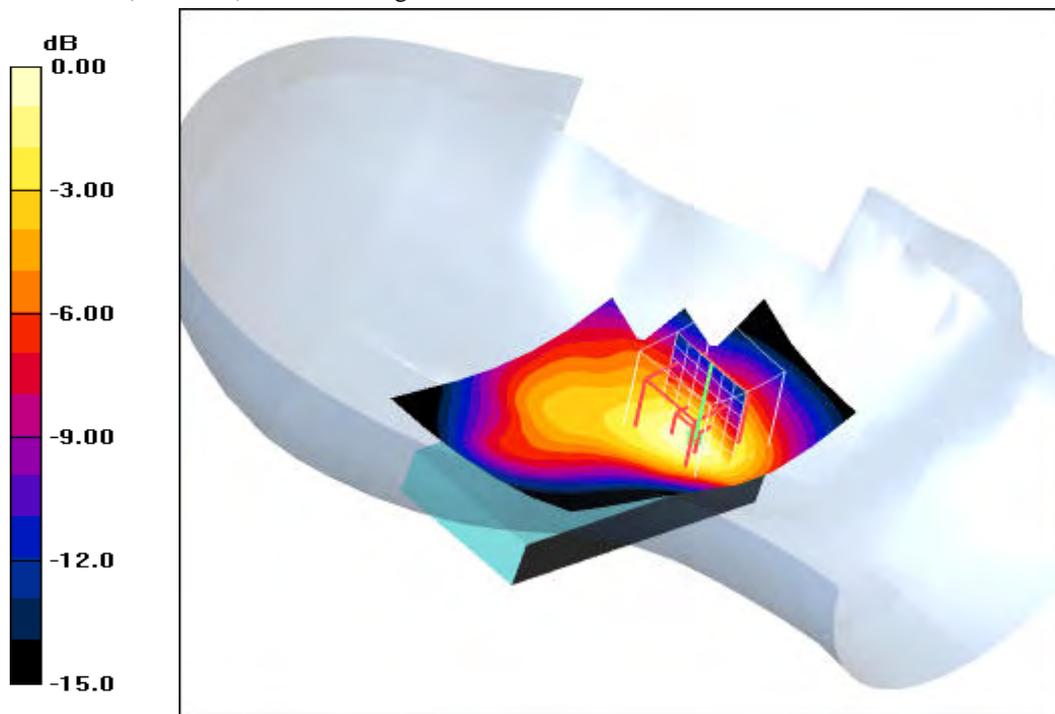
Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.5 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.780 mW/g; SAR(10 g) = 0.451 mW/g

Maximum value of SAR (measured) = 0.862 mW/g



Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.9°C; liquid temperature: 21.7°C

Date/Time: 2008-08-28 16:26:33 Date/Time: 2008-08-28 16:33:01

P1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.876 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

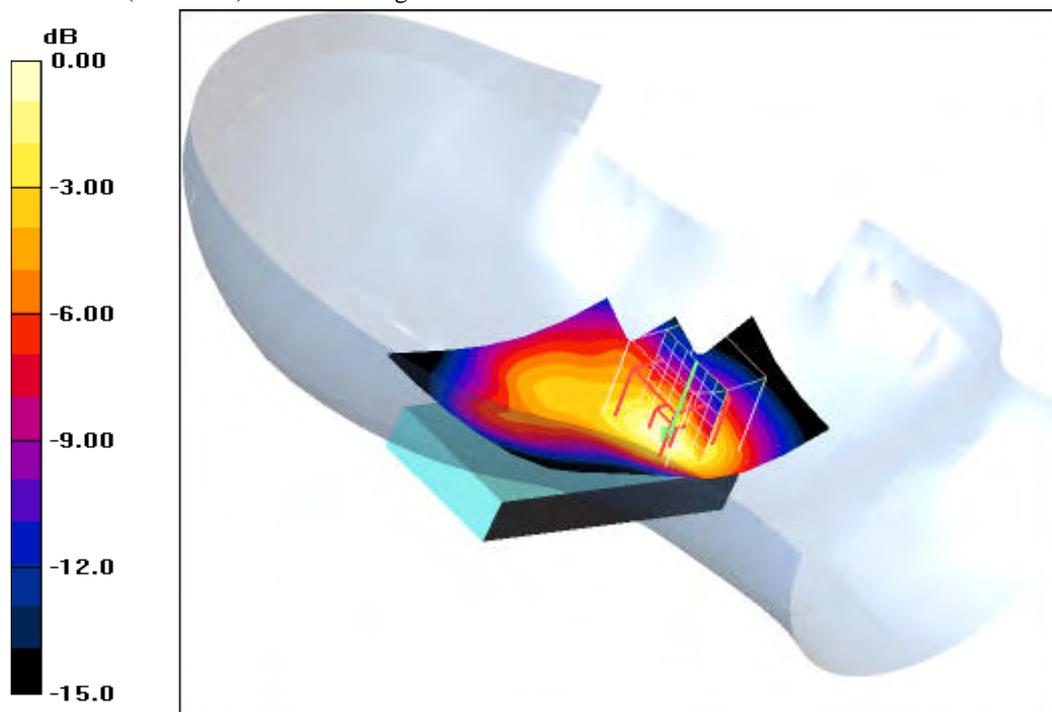
$dz=5\text{mm}$

Reference Value = 10.9 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.825 mW/g; SAR(10 g) = 0.466 mW/g

Maximum value of SAR (measured) = 0.922 mW/g



0 dB = 0.922mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.9°C; liquid temperature: 21.7°C

Date/Time: 2008-08-28 16:49:31 Date/Time: 2008-08-28 16:55:50

P1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.995 mW/g

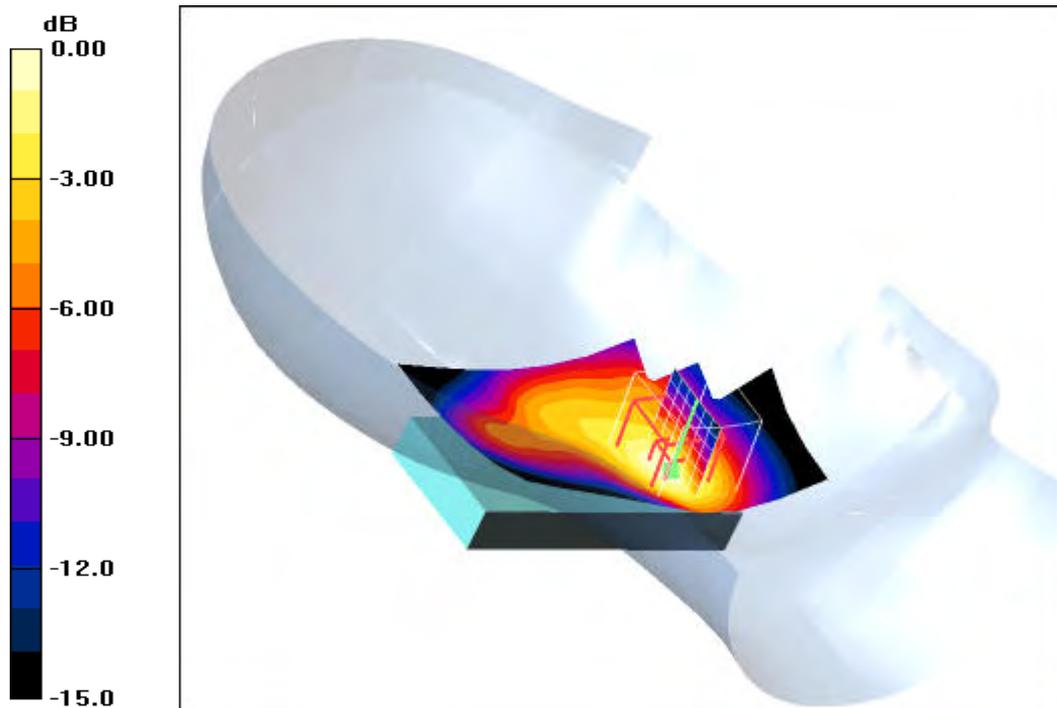
Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.6 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.522 mW/g

Maximum value of SAR (measured) = 1.05 mW/g



0 dB = 1.05mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.9°C; liquid temperature: 21.7°C

Date/Time: 2008-08-28 17:16:17 Date/Time: 2008-08-28 17:23:18

P1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.335 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

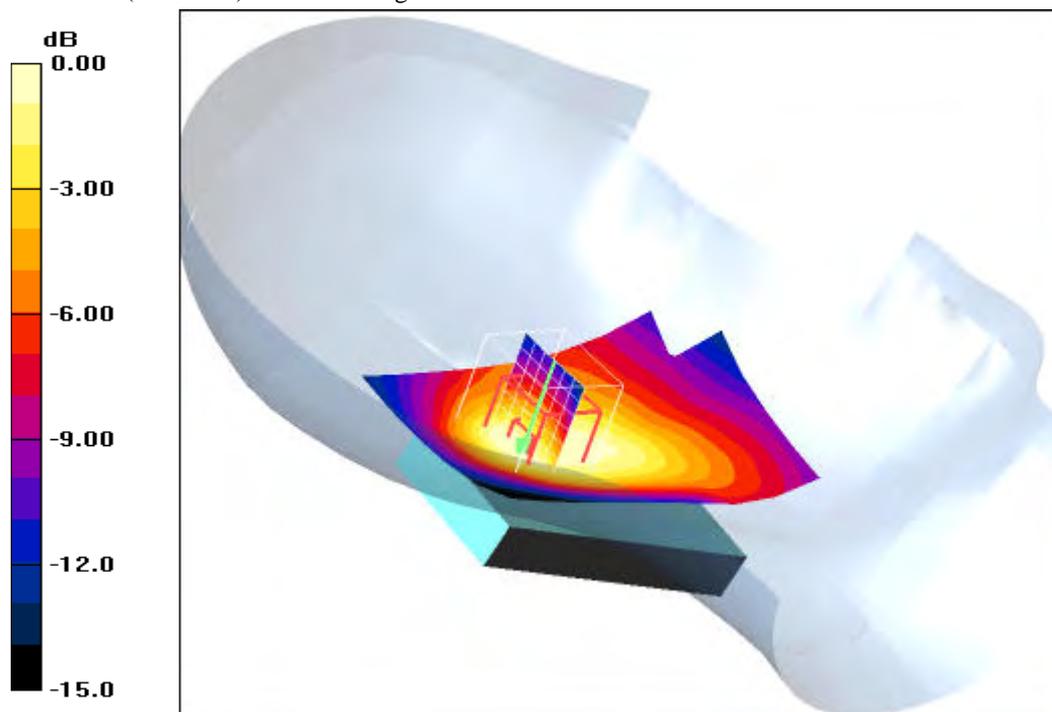
$dz=5\text{mm}$

Reference Value = 13.1 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.398 W/kg

SAR(1 g) = 0.274 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.294 mW/g



0 dB = 0.294mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.9°C; liquid temperature: 21.7°C

Date/Time: 2008-08-28 17:38:01 Date/Time: 2008-08-28 17:43:49

P1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.372 mW/g

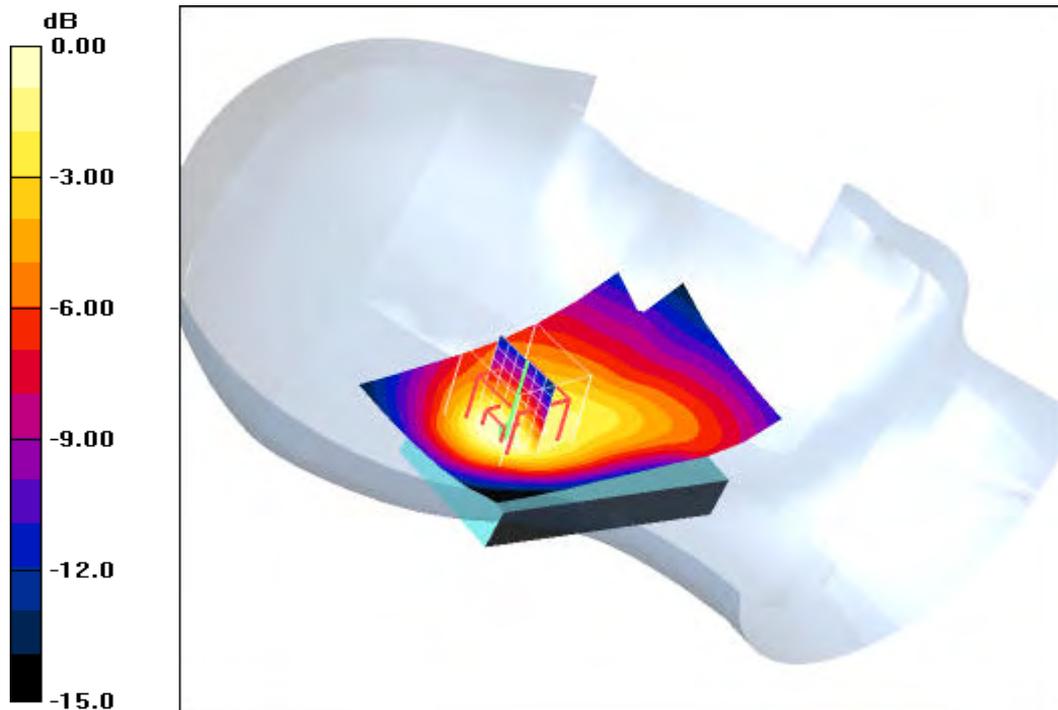
Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.5 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.470 W/kg

SAR(1 g) = 0.307 mW/g; SAR(10 g) = 0.186 mW/g

Maximum value of SAR (measured) = 0.332 mW/g



0 dB = 0.332mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.9°C; liquid temperature: 21.7°C

Date/Time: 2008-08-28 17:57:03 Date/Time: 2008-08-28 18:02:51

P1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

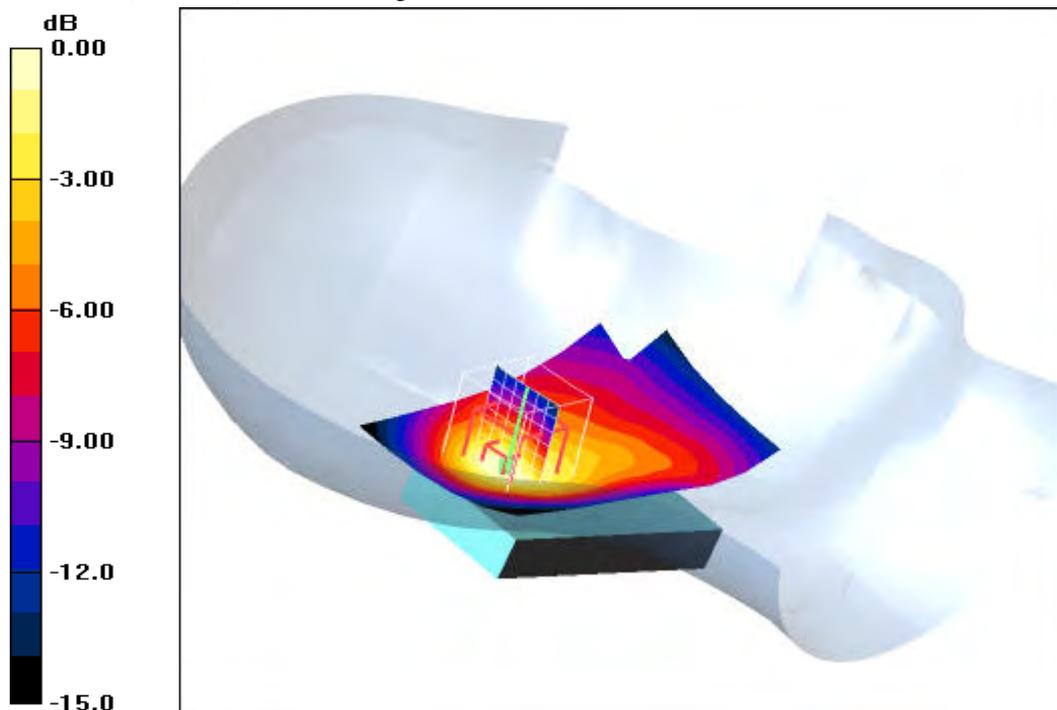
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.5 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 0.599 W/kg

SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.229 mW/g

Maximum value of SAR (measured) = 0.428 mW/g



0 dB = 0.428mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.9°C; liquid temperature: 21.7°C

Date/Time: 2008-08-28 19:27:27 Date/Time: 2008-08-28 19:33:31

P1528_OET65-LeftHandSide-GSM1900-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.421 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

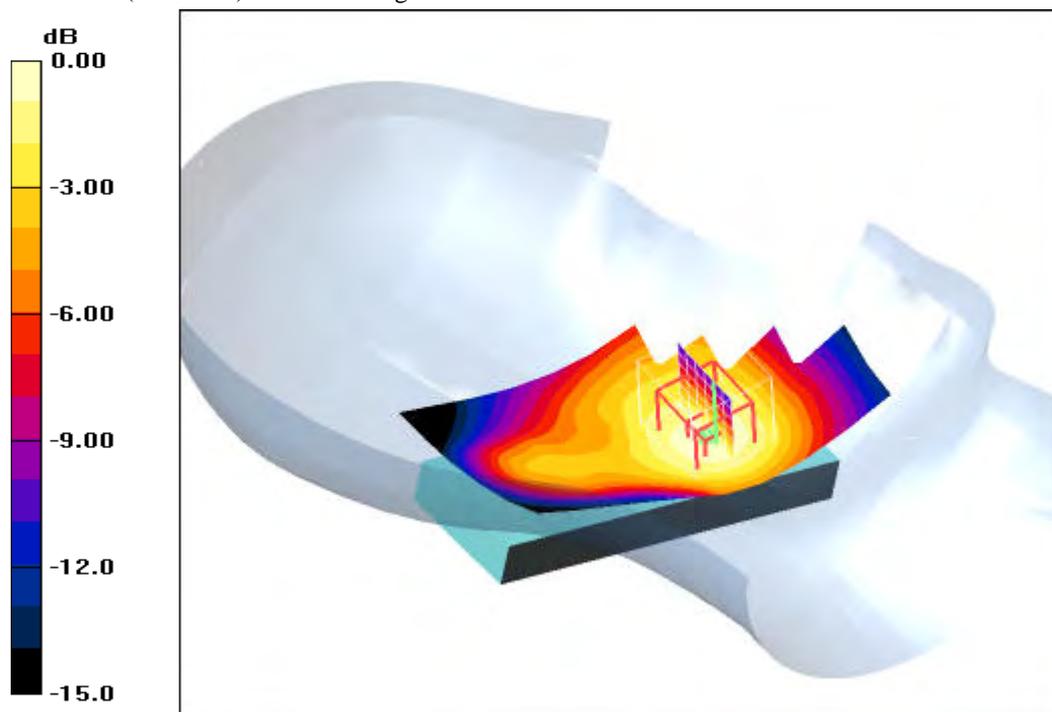
$dz=5\text{mm}$

Reference Value = 18.0 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.587 W/kg

SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.263 mW/g

Maximum value of SAR (measured) = 0.443 mW/g



0 dB = 0.443mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 23.8°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 19:50:29 Date/Time: 2008-08-28 19:56:54

P1528_OET65-LeftHandSide-GSM1900-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.479 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

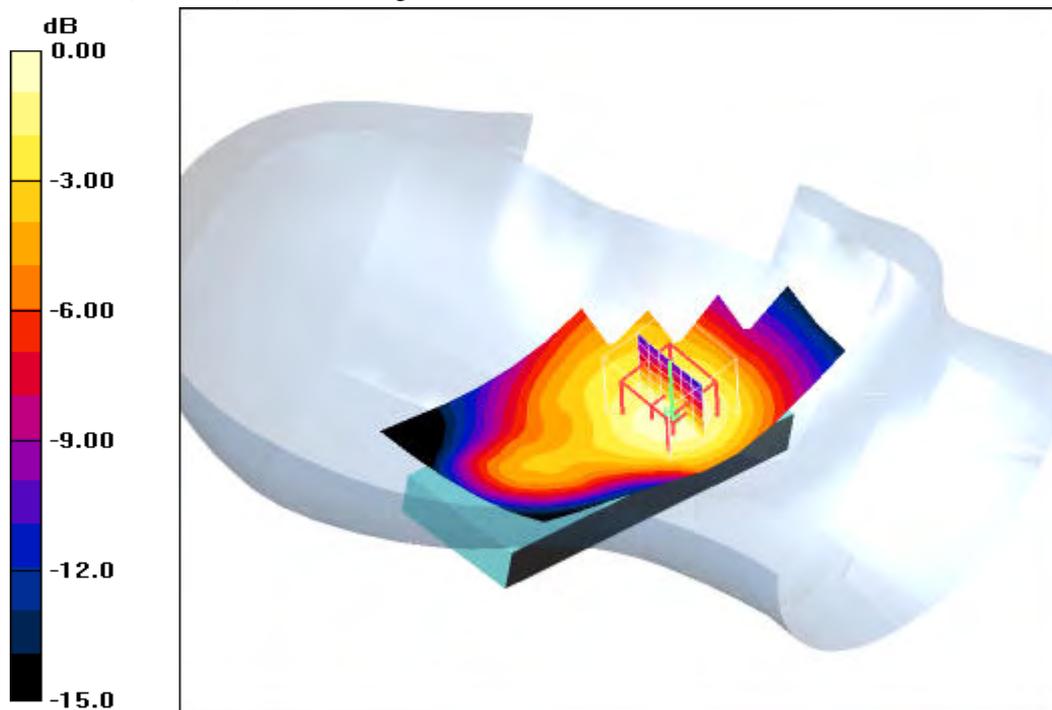
$dz=5\text{mm}$

Reference Value = 19.0 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.668 W/kg

SAR(1 g) = 0.465 mW/g; SAR(10 g) = 0.292 mW/g

Maximum value of SAR (measured) = 0.499 mW/g



0 dB = 0.499mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 23.0°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 20:15:37 Date/Time: 2008-08-28 20:22:19

P1528_OET65-LeftHandSide-GSM1900-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.522 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

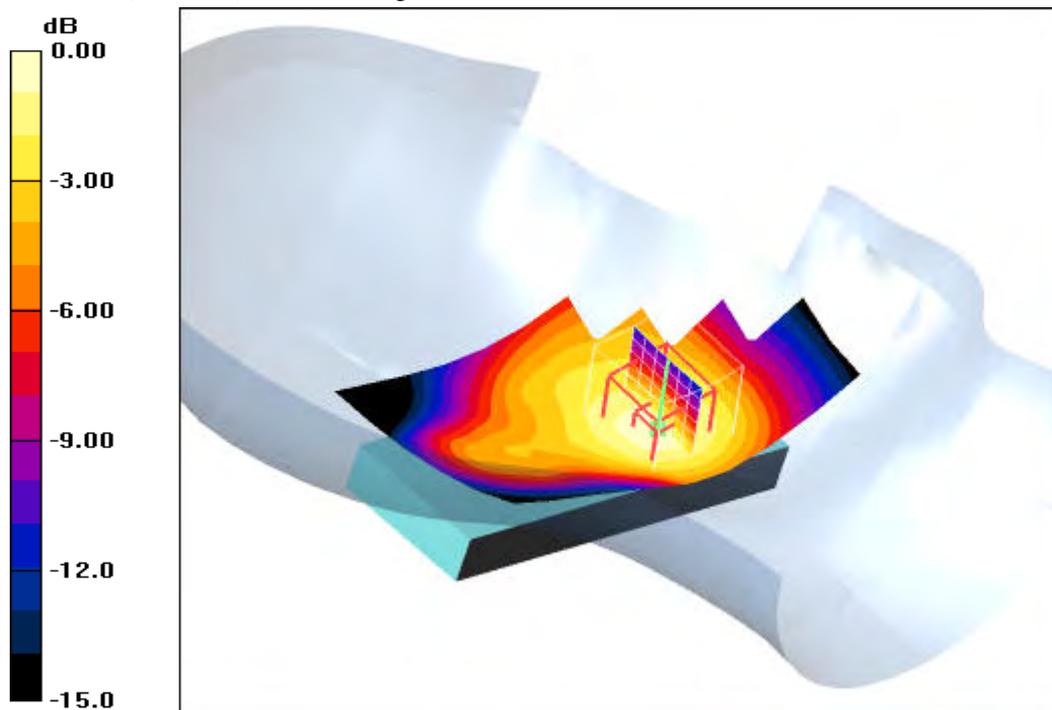
$dz=5\text{mm}$

Reference Value = 20.0 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 0.792 W/kg

SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.329 mW/g

Maximum value of SAR (measured) = 0.575 mW/g



0 dB = 0.575mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 23.0°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 19:01:06 Date/Time: 2008-08-28 19:07:16

P1528_OET65-LeftHandSide-GSM1900-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.340 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

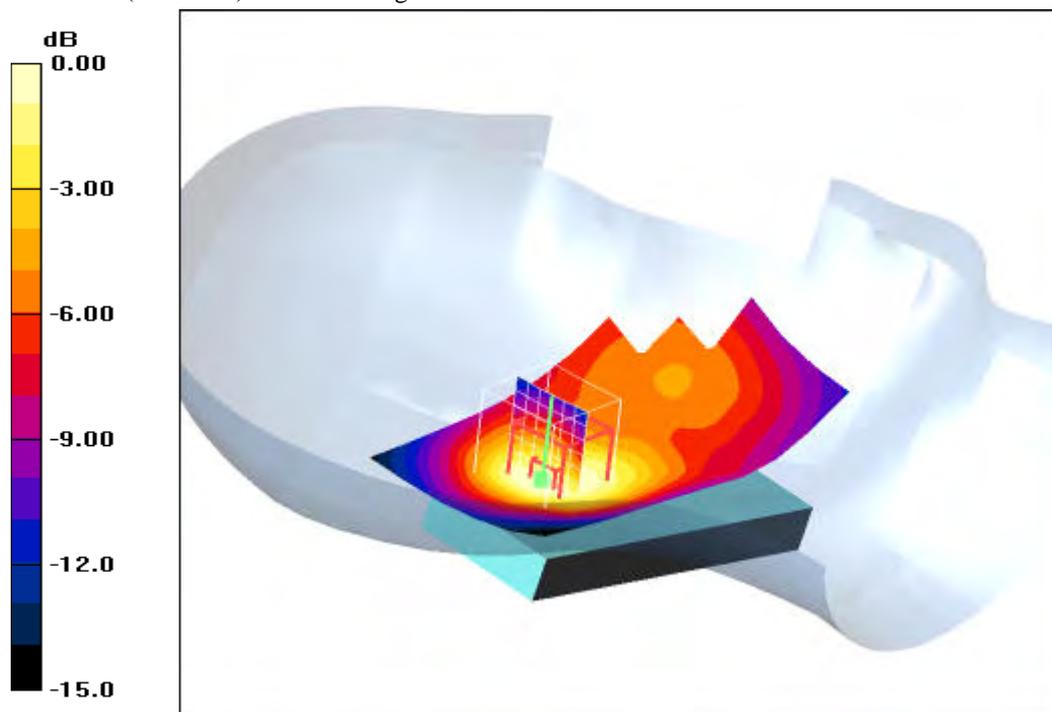
$dz=5\text{mm}$

Reference Value = 15.1 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.390 W/kg

SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.184 mW/g

Maximum value of SAR (measured) = 0.307 mW/g



0 dB = 0.307mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 23.0°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 18:40:22 Date/Time: 2008-08-28 18:46:33

P1528_OET65-LeftHandSide-GSM1900-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.369 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

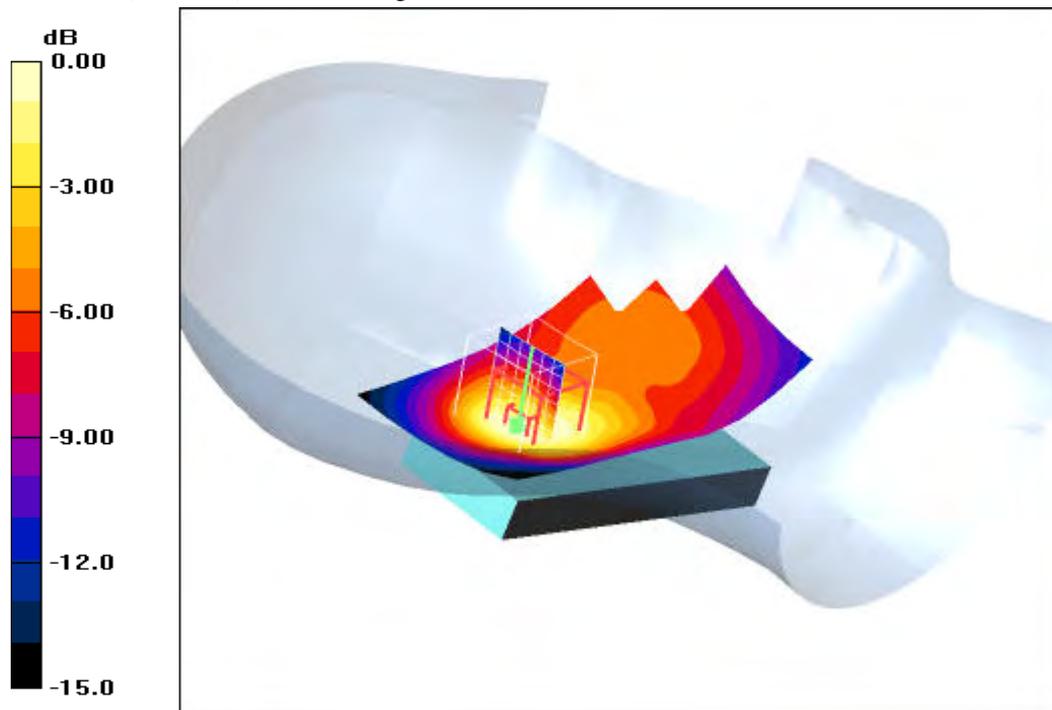
$dz=5\text{mm}$

Reference Value = 15.6 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.434 W/kg

SAR(1 g) = 0.309 mW/g; SAR(10 g) = 0.197 mW/g

Maximum value of SAR (measured) = 0.331 mW/g



0 dB = 0.331mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 23.0°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 18:18:12 Date/Time: 2008-08-28 18:25:20

P1528_OET65-LeftHandSide-GSM1900-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.457 mW/g

Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

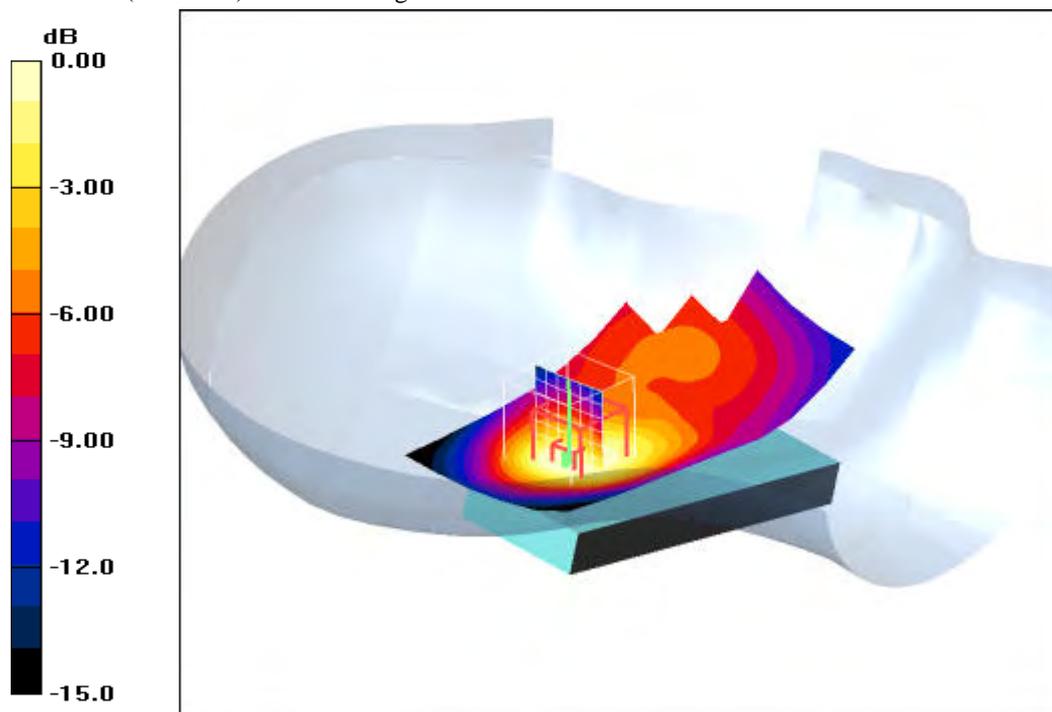
$dz=5\text{mm}$

Reference Value = 17.1 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 0.542 W/kg

SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.237 mW/g

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



0 dB = 0.409mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 23.0°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 10:57:26 Date/Time: 2008-08-28 11:03:17 Date/Time: 2008-08-28 11:16:25

P1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.565 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.3 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 0.810 W/kg

SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.327 mW/g

Maximum value of SAR (measured) = 0.553 mW/g

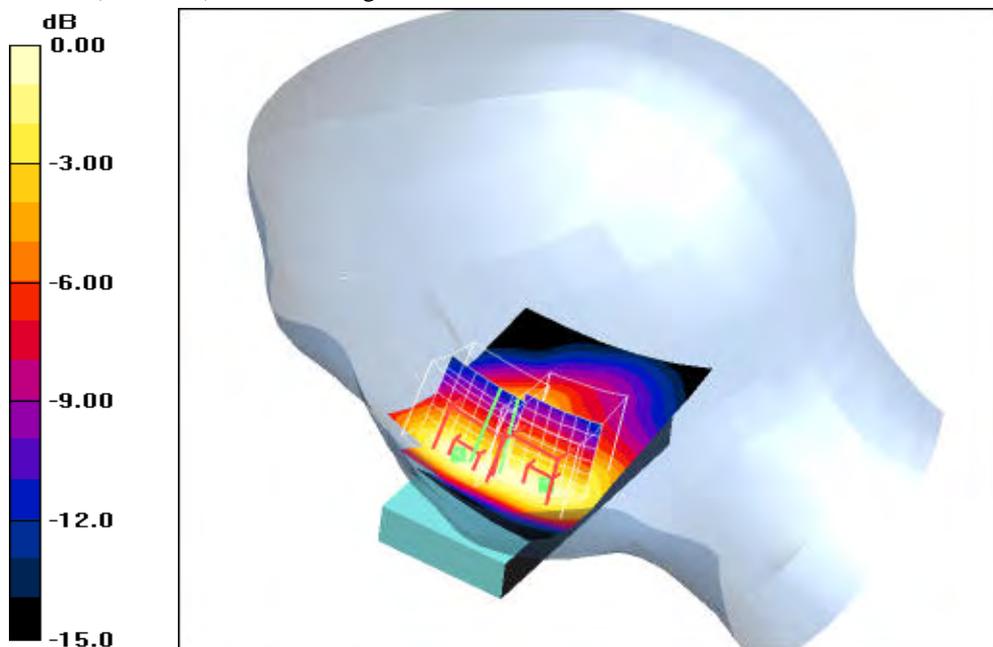
Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.3 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 0.856 W/kg

SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.342 mW/g

Maximum value of SAR (measured) = 0.601 mW/g



0 dB = 0.601mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 11:31:16 Date/Time: 2008-08-28 11:37:00 Date/Time: 2008-08-28 11:49:16

P1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.673 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.9 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 0.921 W/kg

SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.364 mW/g

Maximum value of SAR (measured) = 0.648 mW/g

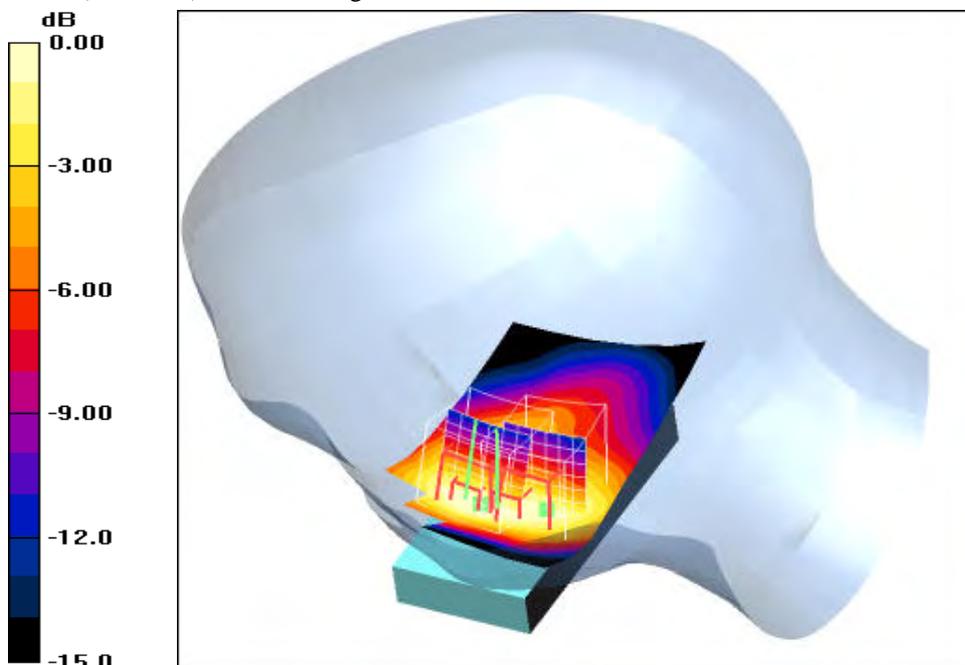
Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.9 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 0.865 W/kg

SAR(1 g) = 0.555 mW/g; SAR(10 g) = 0.344 mW/g

Maximum value of SAR (measured) = 0.608 mW/g



0 dB = 0.608mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 12:03:55 Date/Time: 2008-08-28 12:09:31

P1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.752 mW/g

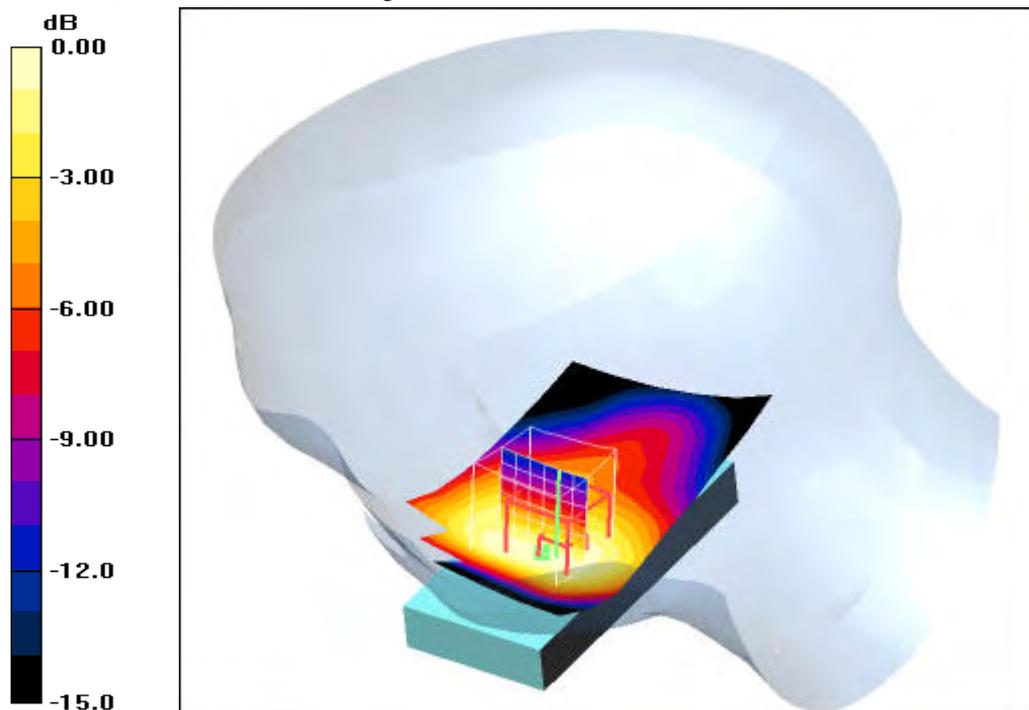
Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.9 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.708 mW/g; SAR(10 g) = 0.434 mW/g

Maximum value of SAR (measured) = 0.775 mW/g



0 dB = 0.775mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 12:50:54 Date/Time: 2008-08-28 12:56:41

P1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.335 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

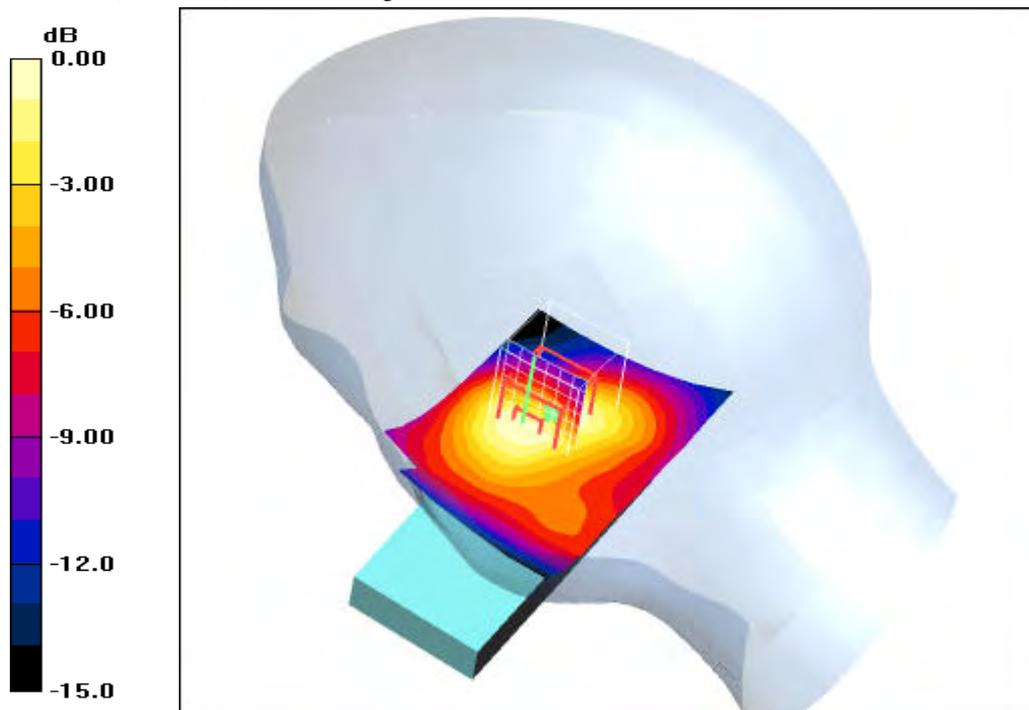
$dz=5\text{mm}$

Reference Value = 15.3 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 0.422 W/kg

SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.173 mW/g

Maximum value of SAR (measured) = 0.301 mW/g



0 dB = 0.301mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 13:10:15 Date/Time: 2008-08-28 13:16:09

P1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.301 mW/g

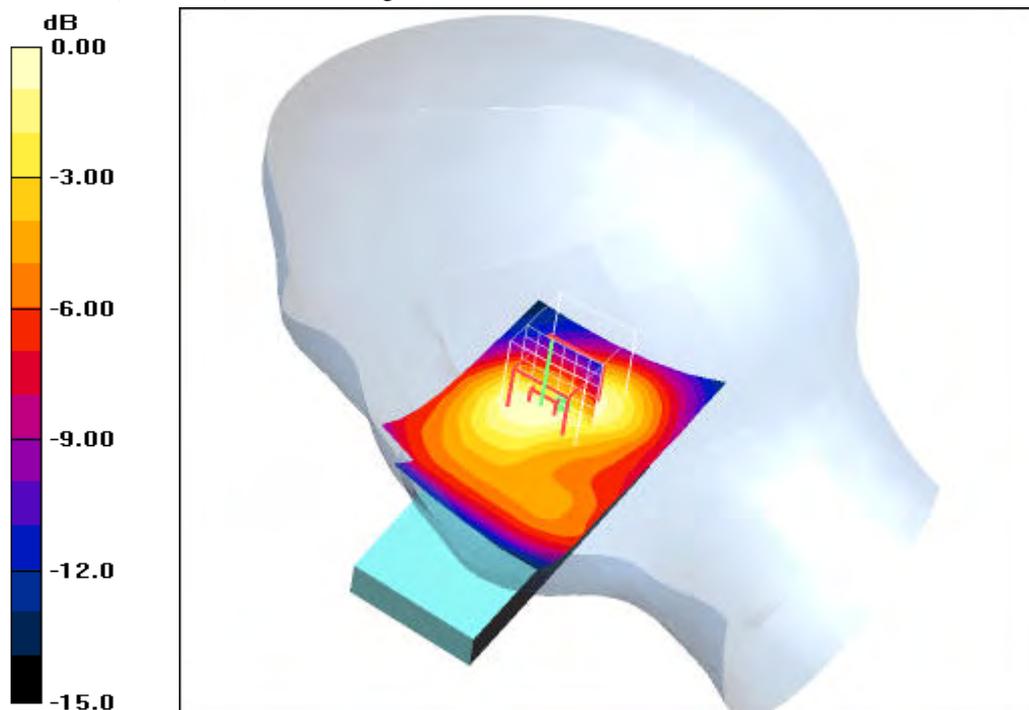
Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.2 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.371 W/kg

SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.157 mW/g

Maximum value of SAR (measured) = 0.270 mW/g



0 dB = 0.270mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 13:29:19 Date/Time: 2008-08-28 13:35:09

P1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.368 mW/g

Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

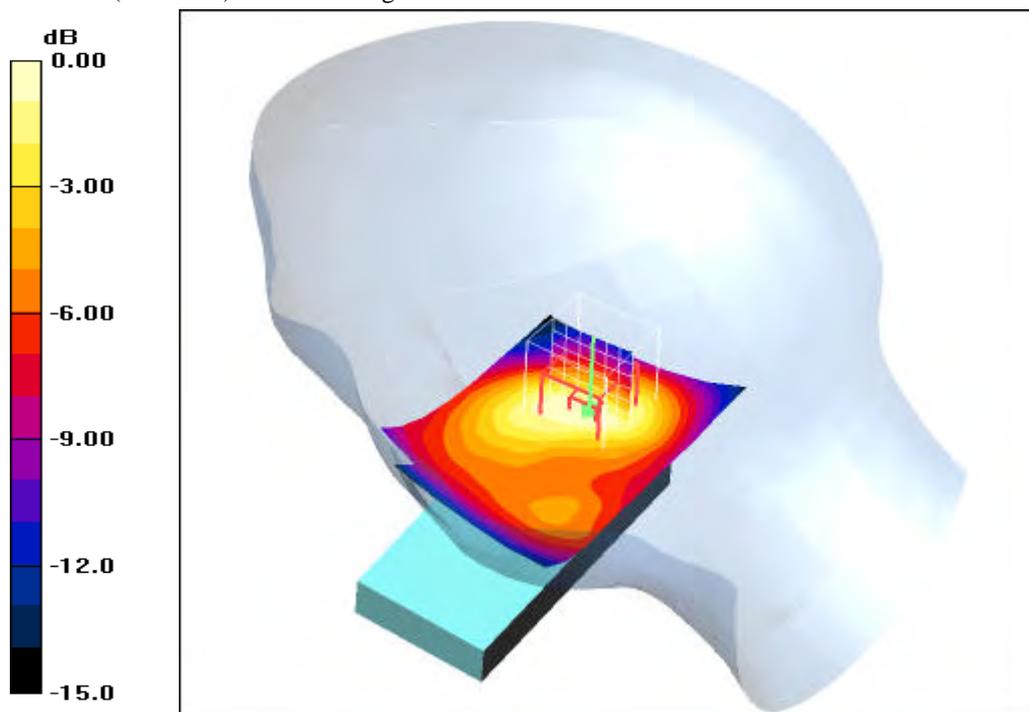
$dz=5\text{mm}$

Reference Value = 15.9 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.459 W/kg

SAR(1 g) = 0.309 mW/g; SAR(10 g) = 0.189 mW/g

Maximum value of SAR (measured) = 0.337 mW/g



0 dB = 0.337mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 14:47:58 Date/Time: 2008-08-28 14:53:57

P1528_OET65-RightHandSide-GSM1900-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.567 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

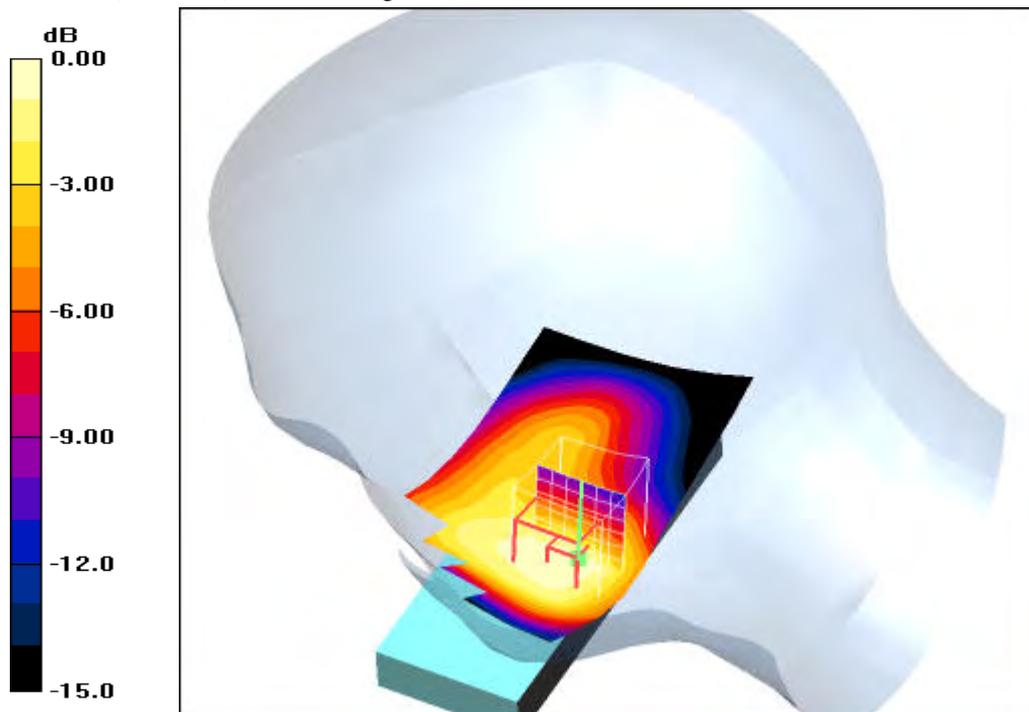
$dz=5\text{mm}$

Reference Value = 19.6 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.745 W/kg

SAR(1 g) = 0.515 mW/g; SAR(10 g) = 0.332 mW/g

Maximum value of SAR (measured) = 0.555 mW/g



0 dB = 0.555mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 15:08:50 Date/Time: 2008-08-28 15:14:49

P1528_OET65-RightHandSide-GSM1900-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.604 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

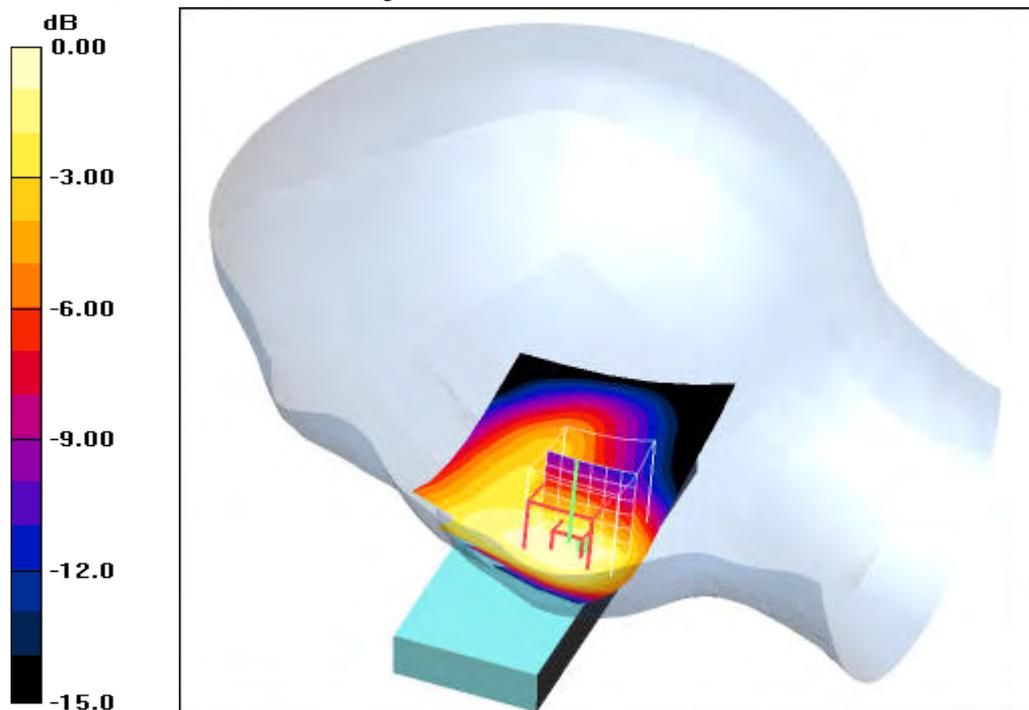
$dz=5\text{mm}$

Reference Value = 20.3 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.766 W/kg

SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.347 mW/g

Maximum value of SAR (measured) = 0.572 mW/g



Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 15:29:50 Date/Time: 2008-08-28 15:35:51

P1528_OET65-RightHandSide-GSM1900-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.687 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

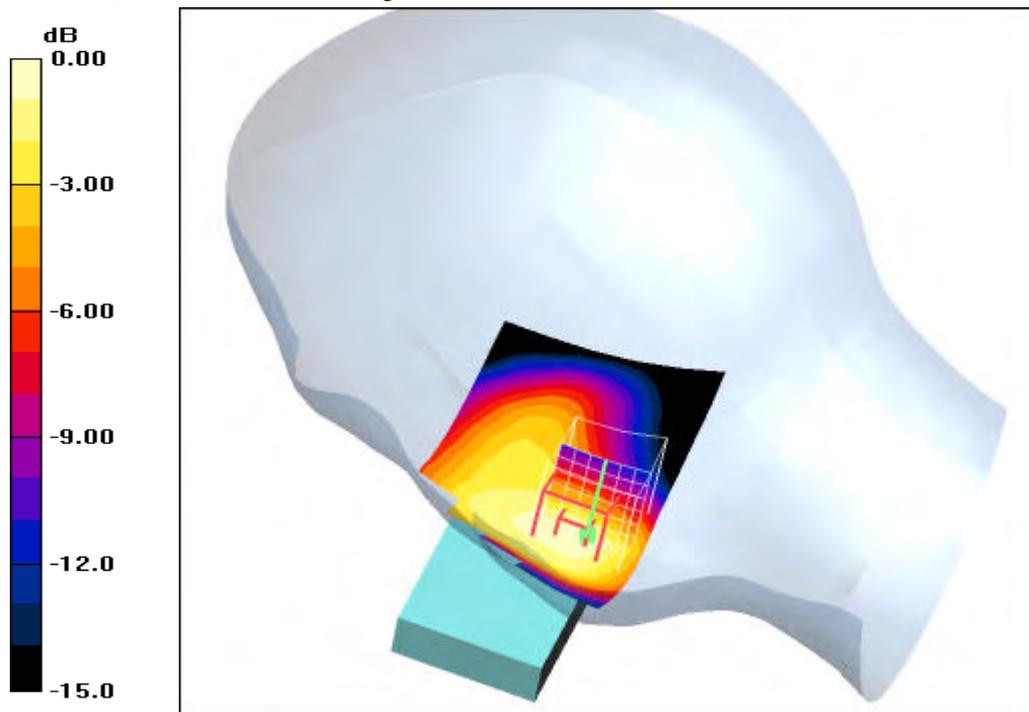
$dz=5\text{mm}$

Reference Value = 21.6 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.872 W/kg

SAR(1 g) = 0.598 mW/g; SAR(10 g) = 0.380 mW/g

Maximum value of SAR (measured) = 0.641 mW/g



0 dB = 0.641mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 14:28:04 Date/Time: 2008-08-28 14:34:11

P1528_OET65-RightHandSide-GSM1900-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.470 mW/g

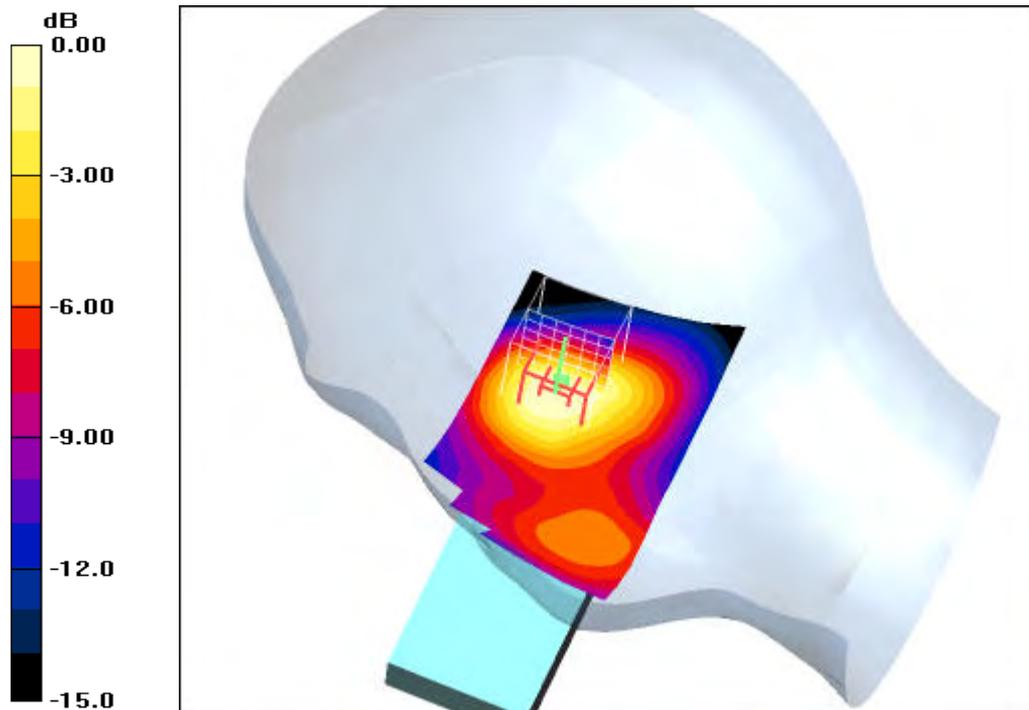
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.2 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 0.550 W/kg

SAR(1 g) = 0.376 mW/g; SAR(10 g) = 0.232 mW/g

Maximum value of SAR (measured) = 0.407 mW/g



0 dB = 0.407mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 14:08:34 Date/Time: 2008-08-28 14:14:39

P1528_OET65-RightHandSide-GSM1900-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.475 mW/g

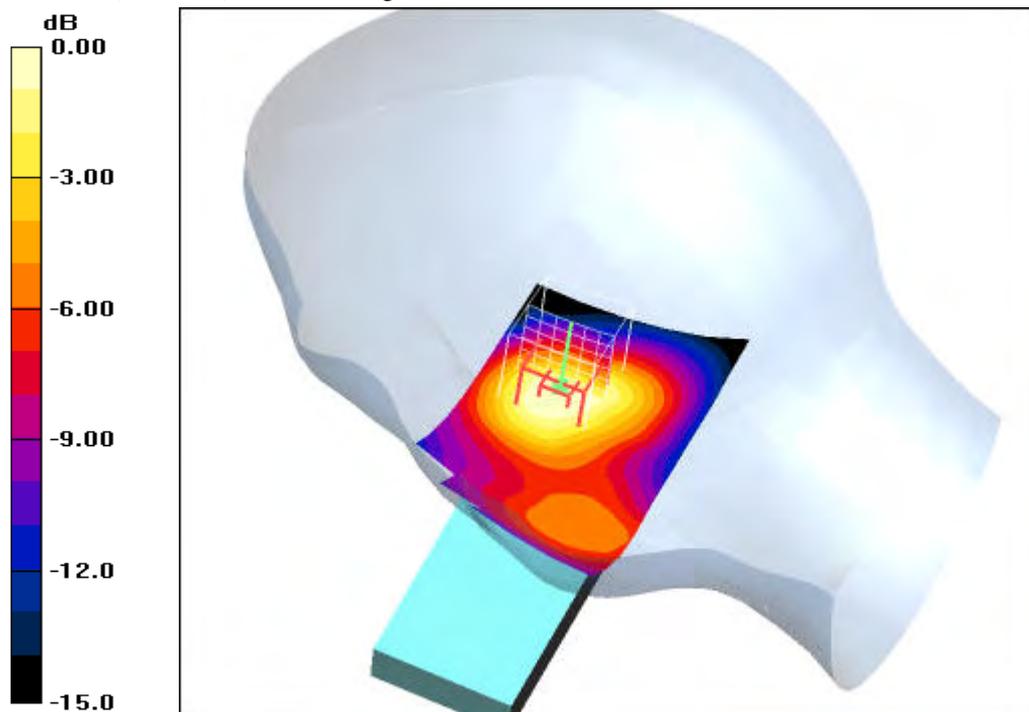
Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.2 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.563 W/kg

SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.234 mW/g

Maximum value of SAR (measured) = 0.414 mW/g



0 dB = 0.414mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 21.8°C

Date/Time: 2008-08-28 13:49:15 Date/Time: 2008-08-28 13:55:17

P1528_OET65-RightHandSide-GSM1900-open

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(5.09, 5.09, 5.09); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.555 mW/g

Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

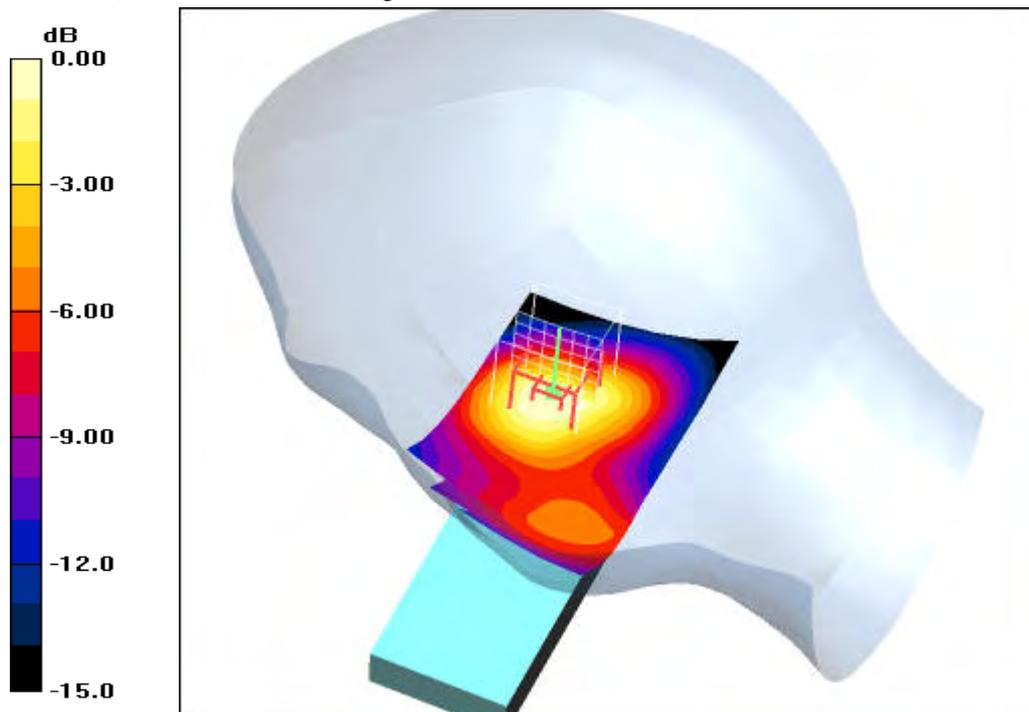
$dz=5\text{mm}$

Reference Value = 18.4 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.670 W/kg

SAR(1 g) = 0.445 mW/g; SAR(10 g) = 0.269 mW/g

Maximum value of SAR (measured) = 0.487 mW/g



0 dB = 0.487mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.7°C; liquid temperature: 21.8°C

Annex 2.4 PCS 1900 MHz body

Date/Time: 2008-08-27 10:37:55 Date/Time: 2008-08-27 10:43:46

P1528_OET65-Body-GSM1900 GPRS class 10 / 2 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900 GPRS class 10; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(4.48, 4.48, 4.48); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.233 mW/g

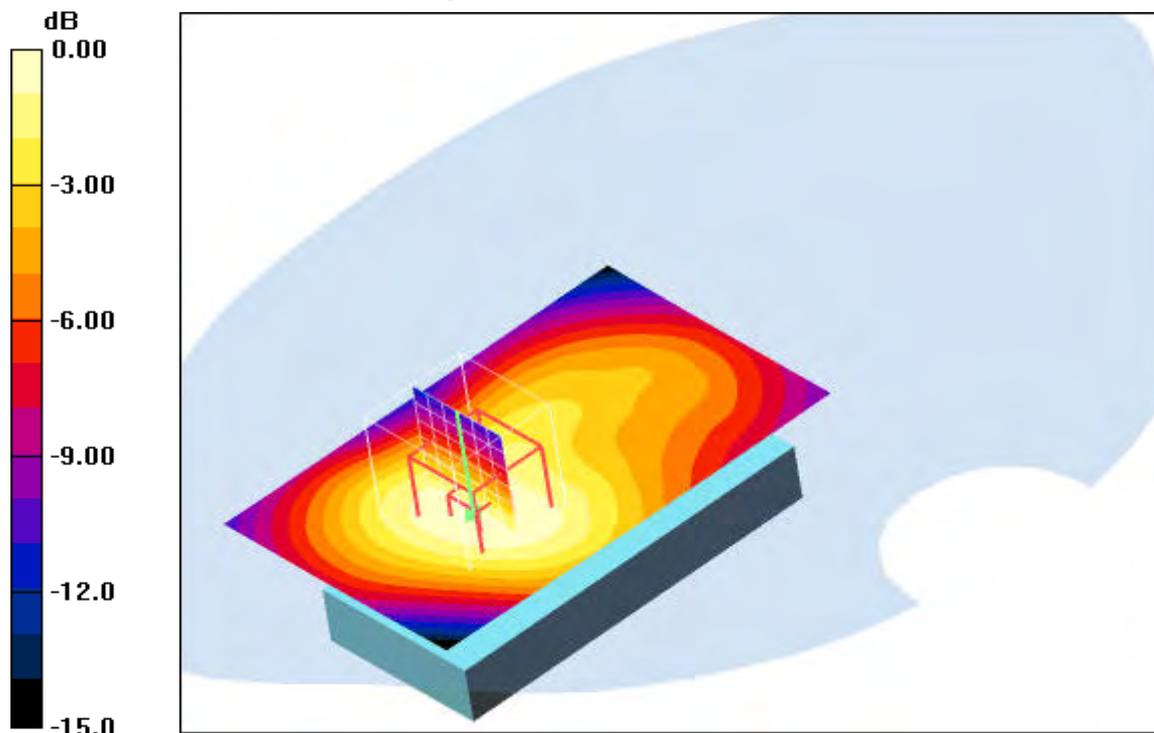
Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.6 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 0.348 W/kg

SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.140 mW/g

Maximum value of SAR (measured) = 0.234 mW/g



0 dB = 0.234mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2008-08-27 10:58:08 Date/Time: 2008-08-27 11:03:37

P1528_OET65-Body-GSM1900 GPRS class 10

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900 GPRS class 10; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(4.48, 4.48, 4.48); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.224 mW/g

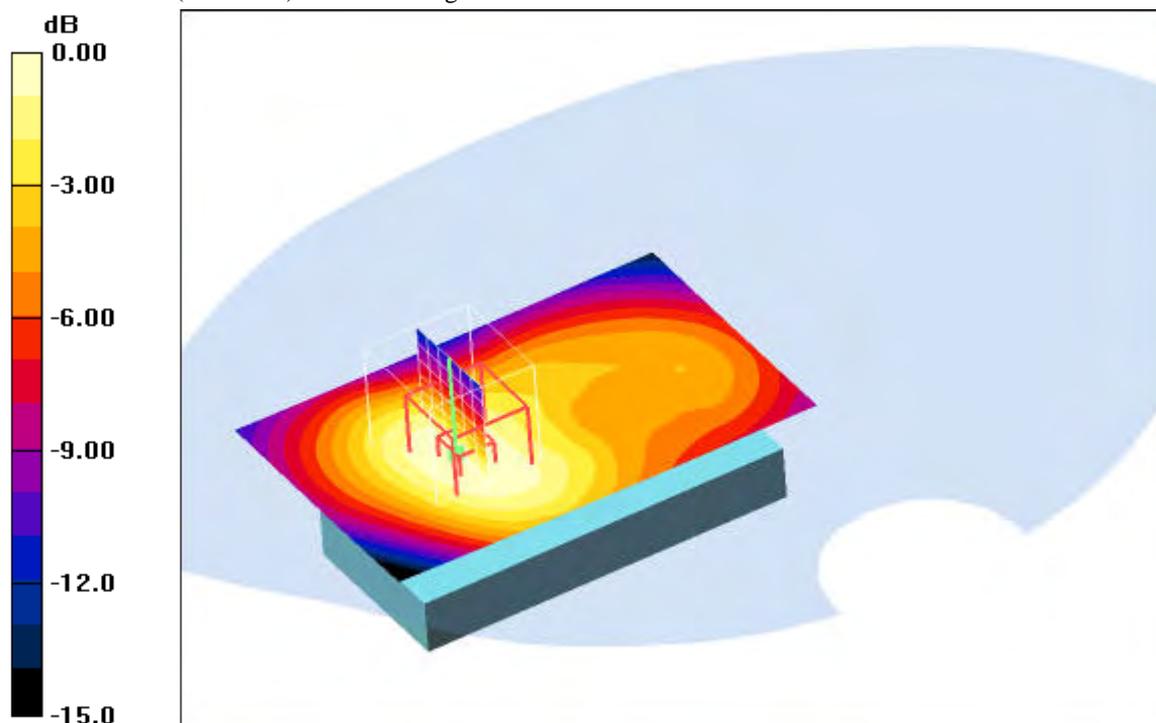
Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.3 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.349 W/kg

SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.134 mW/g

Maximum value of SAR (measured) = 0.226 mW/g



0 dB = 0.226mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2008-08-27 11:17:40 Date/Time: 2008-08-27 11:23:11

P1528_OET65-Body-GSM1900 GPRS class 10

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900 GPRS class 10; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(4.48, 4.48, 4.48); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.219 mW/g

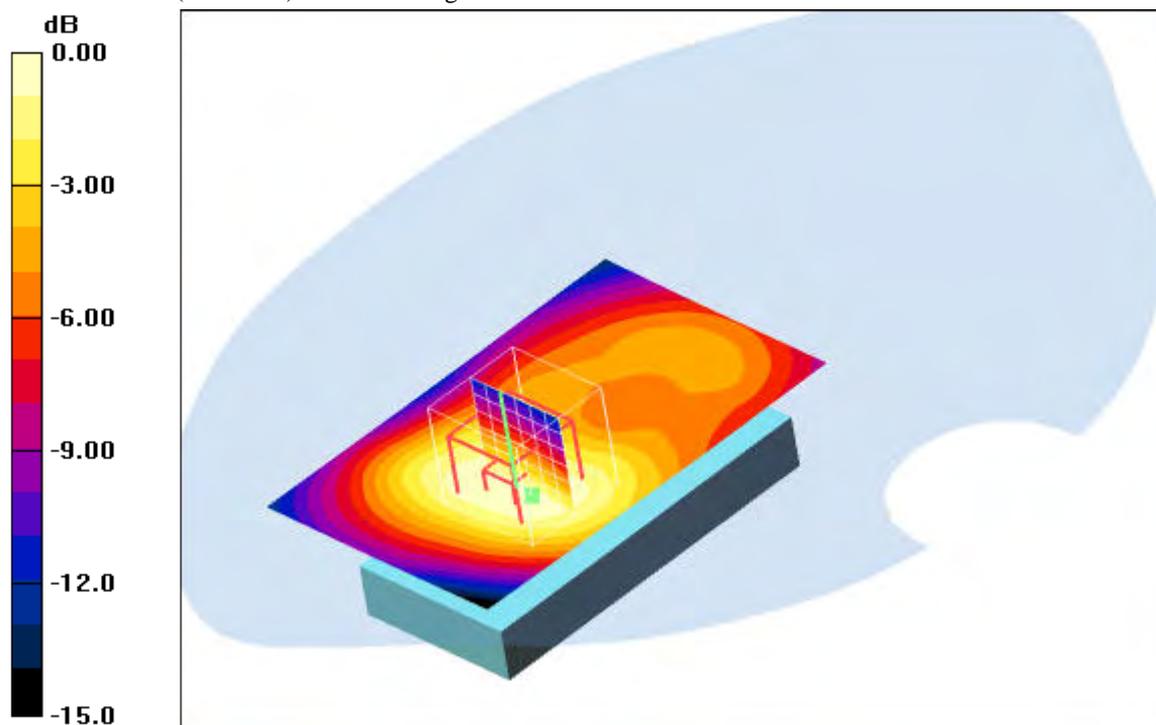
Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.1 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.344 W/kg

SAR(1 g) = 0.205 mW/g; SAR(10 g) = 0.128 mW/g

Maximum value of SAR (measured) = 0.220 mW/g



0 dB = 0.220mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2008-08-27 12:18:33 Date/Time: 2008-08-27 12:24:09

P1528_OET65-Body-GSM1900 GPRS class 10/ 2 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900 GPRS class 10; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(4.48, 4.48, 4.48); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.428 mW/g

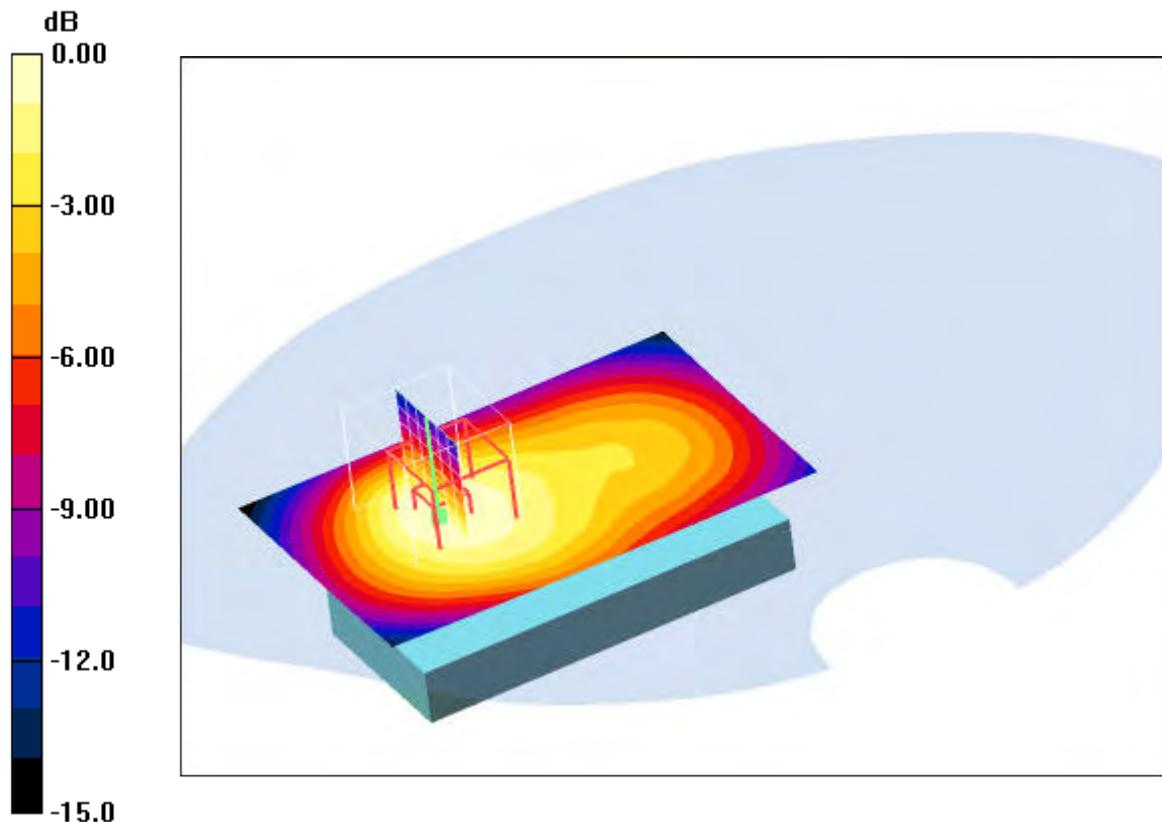
Rear position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.8 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.657 W/kg

SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.246 mW/g

Maximum value of SAR (measured) = 0.417 mW/g



0 dB = 0.417mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.6°C; liquid temperature: 21.8°C

Date/Time: 2008-08-27 11:58:22 Date/Time: 2008-08-27 12:04:04

P1528_OET65-Body-GSM1900 GPRS class 10/ 2 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900 GPRS class 10; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(4.48, 4.48, 4.48); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.450 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

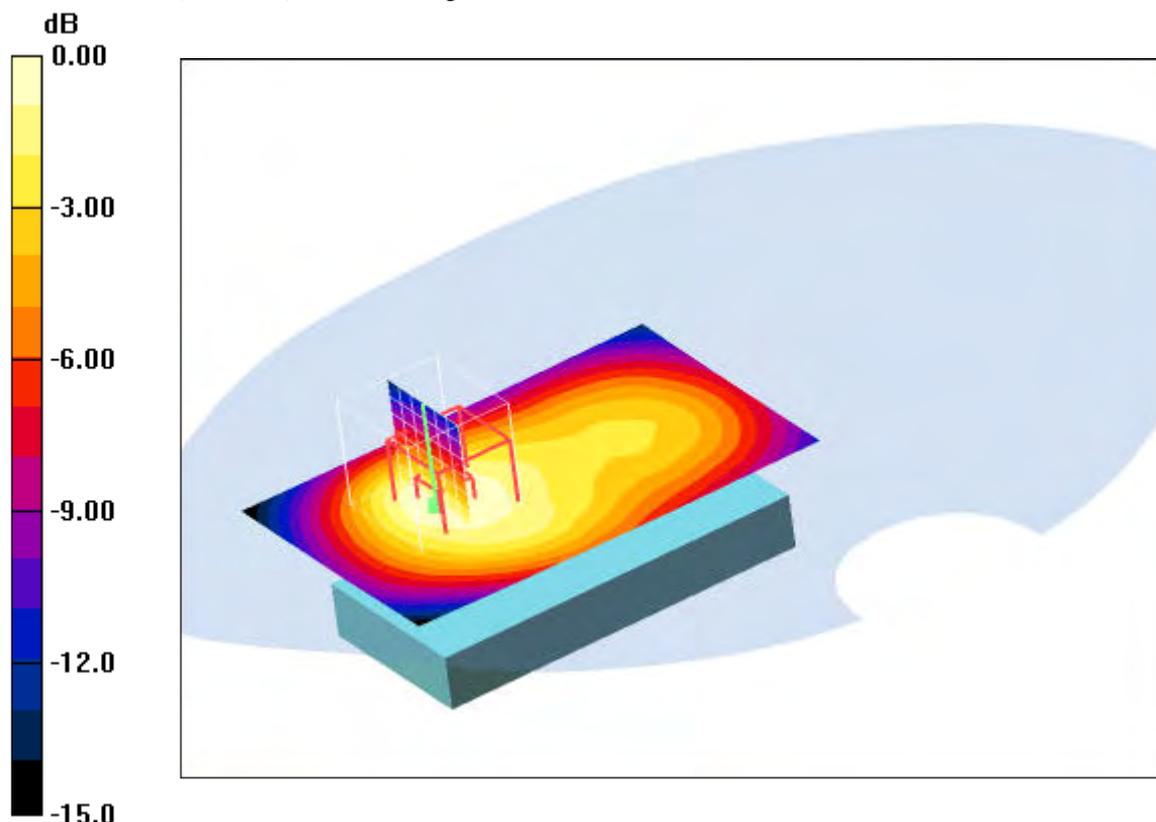
$dz=5\text{mm}$

Reference Value = 17.2 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 0.703 W/kg

SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.438 mW/g



0 dB = 0.438mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.6°C; liquid temperature: 21.8°C

Date/Time: 2008-08-27 11:38:17 Date/Time: 2008-08-27 11:43:51

P1528_OET65-Body-GSM1900 GPRS class 10 / 2 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900 GPRS class 10; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(4.48, 4.48, 4.48); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position -High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.449 mW/g

Rear position -High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

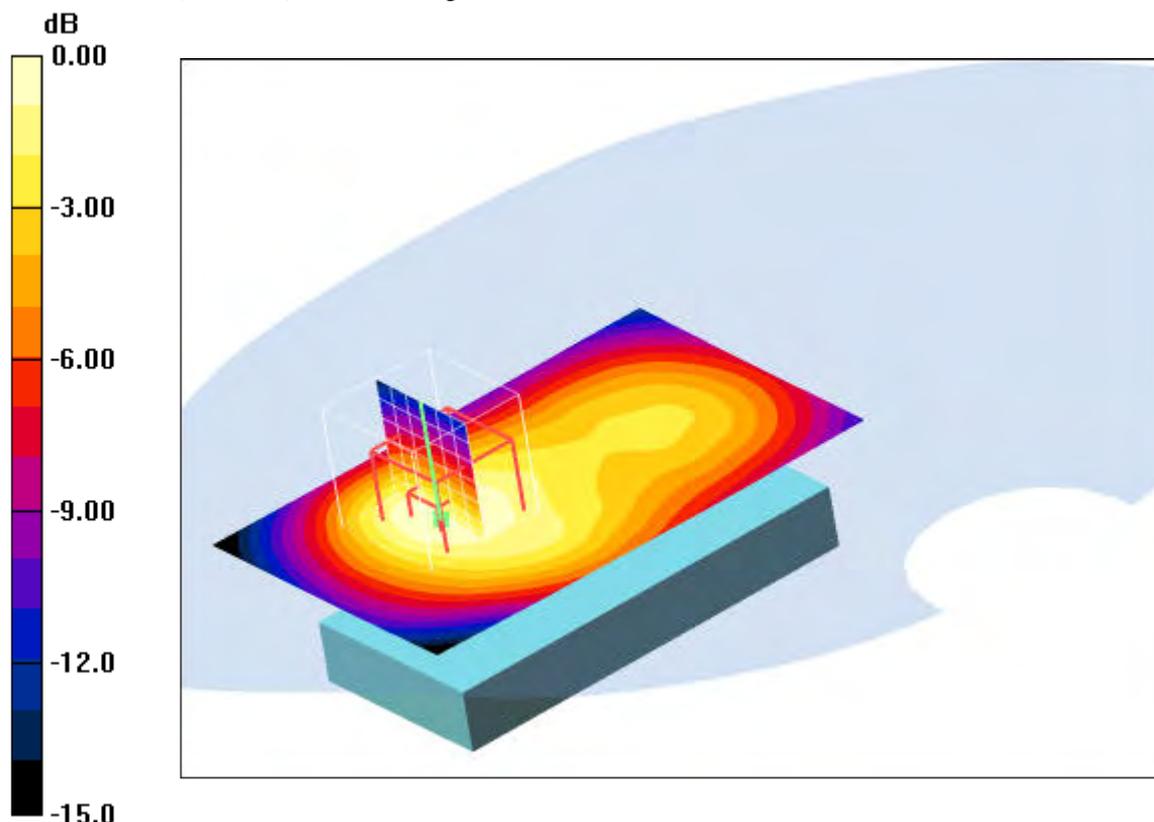
$dz=5\text{mm}$

Reference Value = 17.1 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.718 W/kg

SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.251 mW/g

Maximum value of SAR (measured) = 0.438 mW/g



0 dB = 0.438mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.6°C; liquid temperature: 21.8°C

Date/Time: 2008-08-27 13:00:15 Date/Time: 2008-08-27 13:05:54

P1528_OET65-Body-GSM1900 EGPRS class 8 / 1 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900 EGPRS class 8; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(4.48, 4.48, 4.48); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position -High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.186 mW/g

Rear position -High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

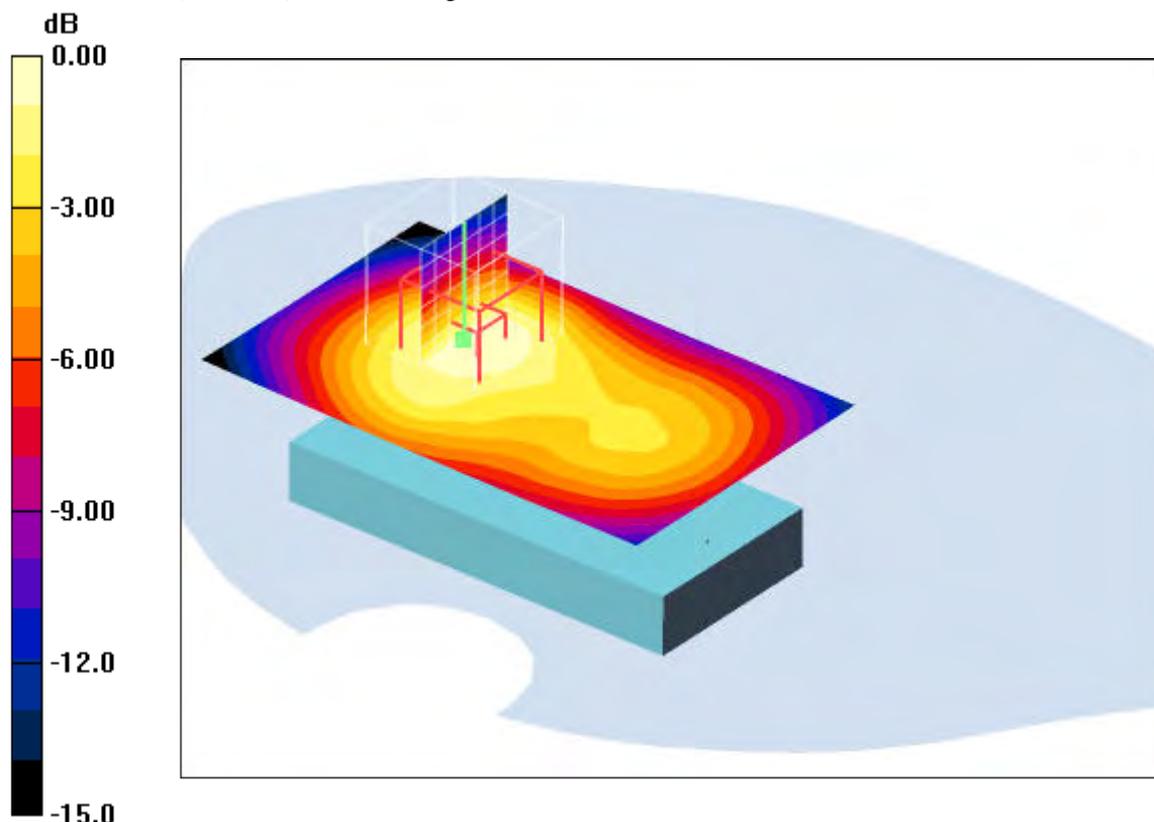
$dz=5\text{mm}$

Reference Value = 11.0 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.103 mW/g

Maximum value of SAR (measured) = 0.184 mW/g



0 dB = 0.184mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.6°C; liquid temperature: 21.8°C

Date/Time: 2008-08-27 12:40:24 Date/Time: 2008-08-27 12:46:01

P1528_OET65-Body-GSM1900 GPRS class 8 / 1 TS

DUT: Sony Ericsson; Type: AAD-0352112-BV; Serial: CB5113QQAX

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(4.48, 4.48, 4.48); Calibrated: 2008-05-13
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2008-01-18
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position -High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.469 mW/g

Rear position -High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$,

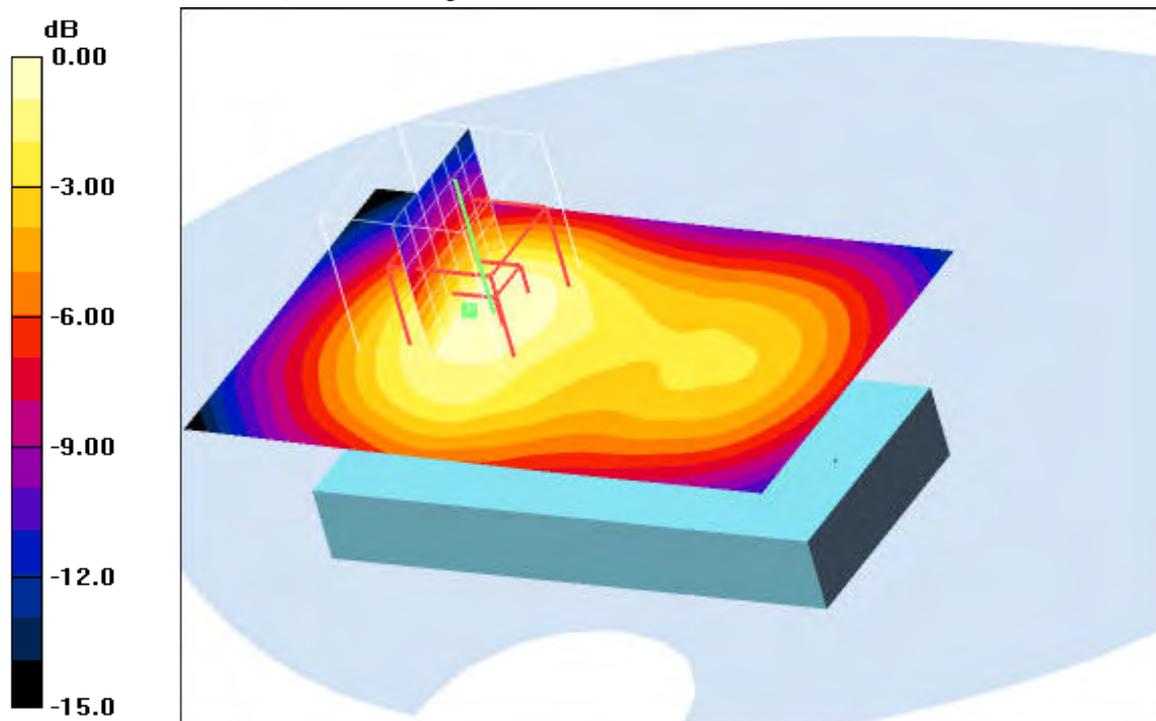
$dz=5\text{mm}$

Reference Value = 17.5 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.757 W/kg

SAR(1 g) = 0.431 mW/g; SAR(10 g) = 0.261 mW/g

Maximum value of SAR (measured) = 0.457 mW/g



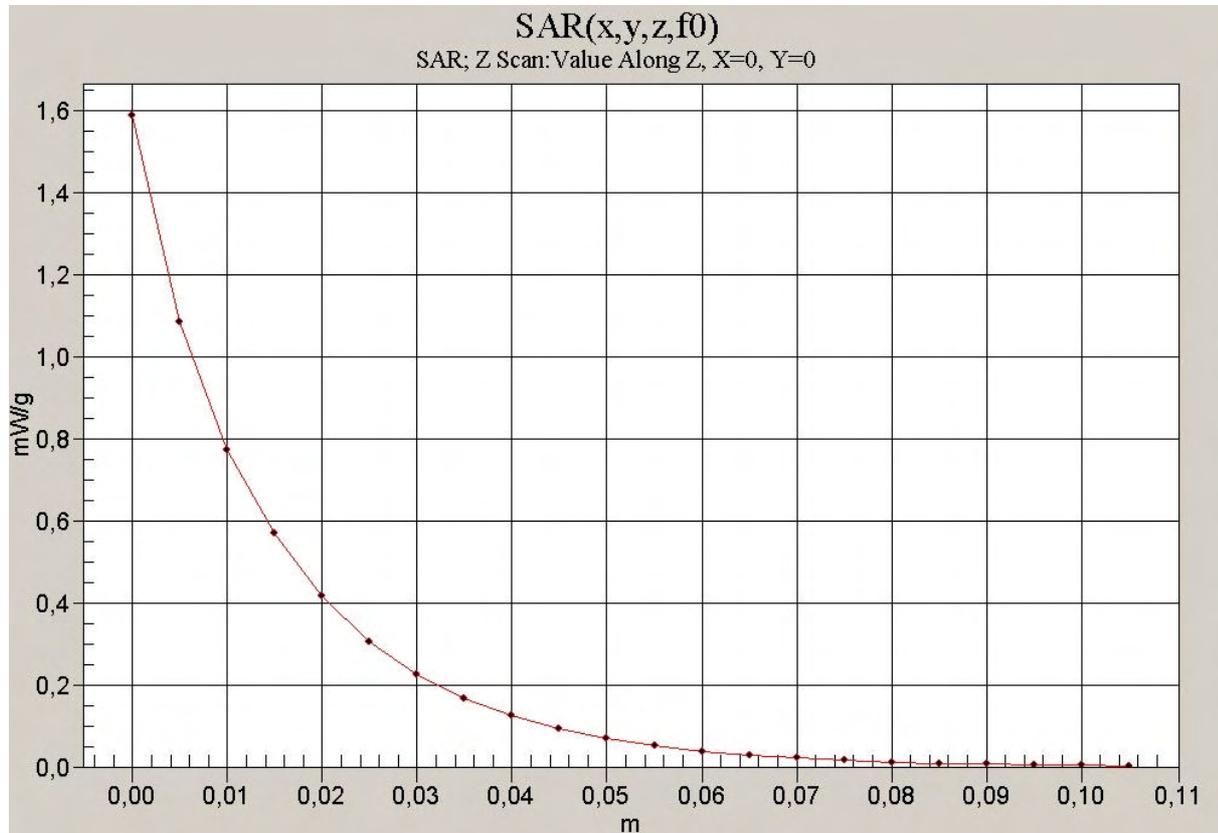
0 dB = 0.457mW/g

Additional information:

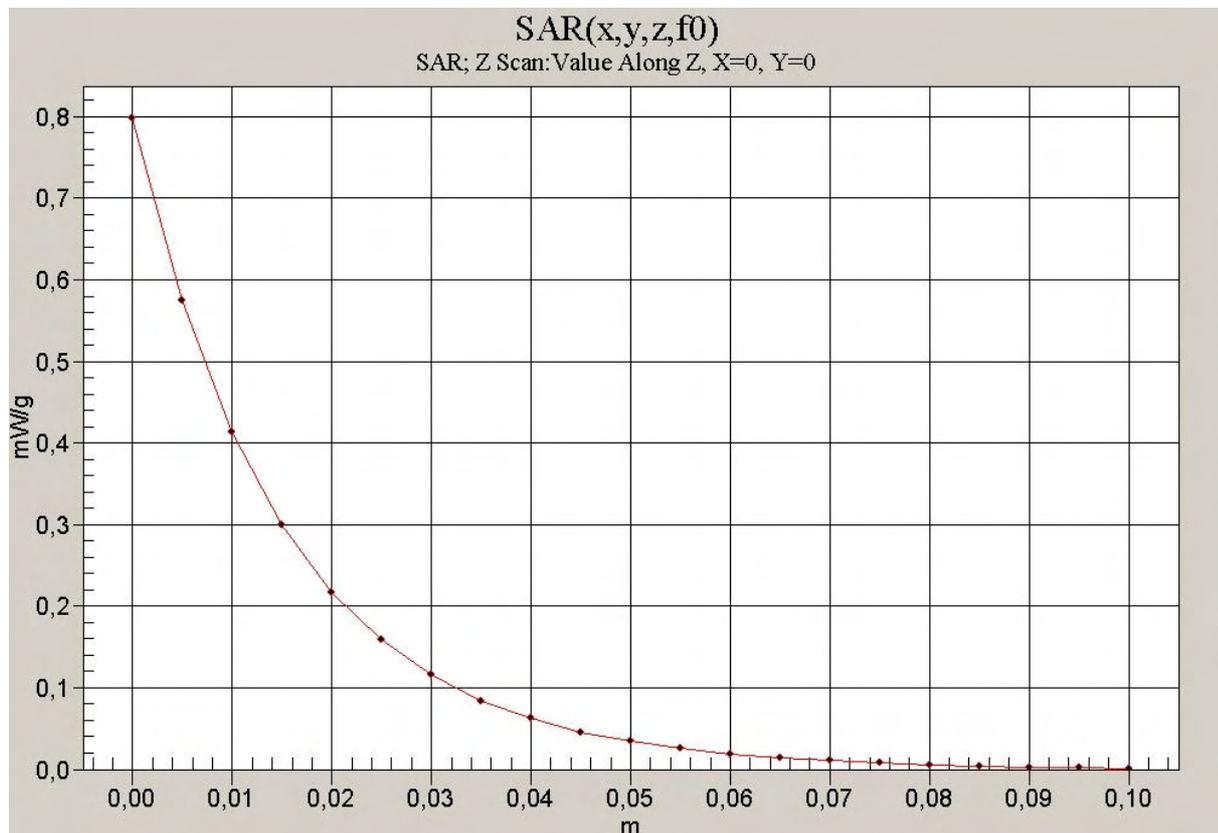
position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.6°C; liquid temperature: 21.8°C

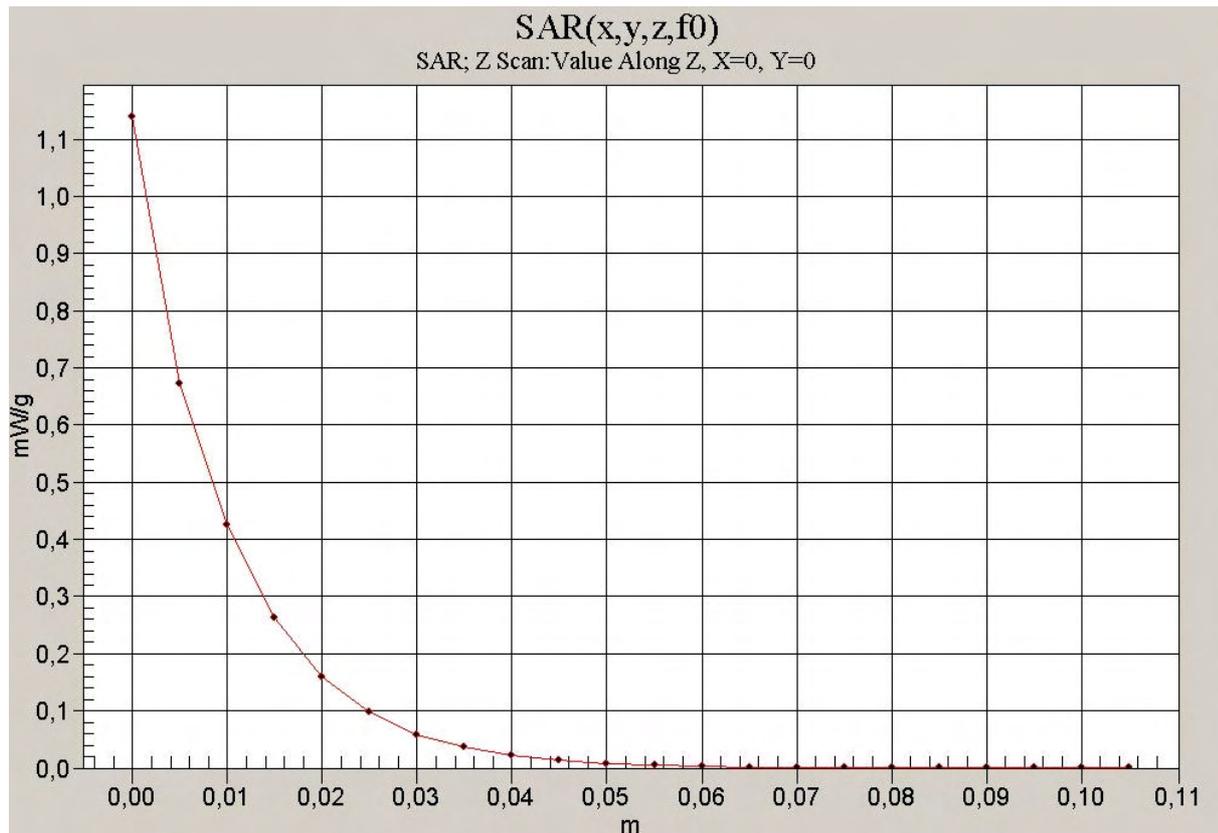
Annex 2.5 Z-axis scans



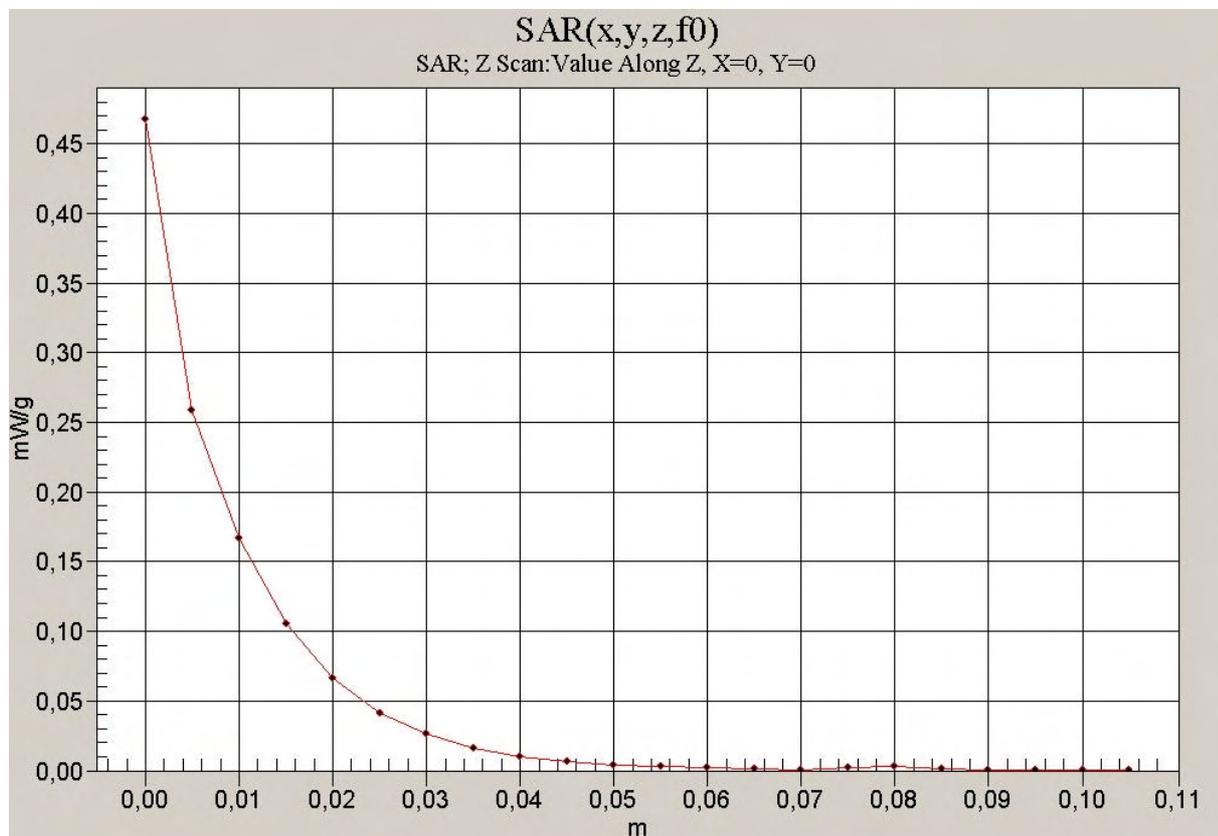
850 head



850 body



1900 head



1900 body

Annex 3 RF Technical Brief Cover Sheet acc. to RSS-102

1. COMPANY NUMBER: 4170B

2. MODEL NUMBER: A3052112

3. MANUFACTURER: Sony Ericsson Mobile Communications AB

4. TYPE OF EVALUATION:

(a) SAR Evaluation: Device used in the Vicinity of the Human Head

- **Multiple transmitters:** Yes No
- **Evaluated against exposure limits:** General Public Use Controlled Use
- **Duty cycle used in evaluation:** 12.5 %
- **Standard used for evaluation:** RSS-102 Issue 2 (2005-11)
- **SAR value:** 1.350 W/kg. Measured Computed Calculated

(b) SAR Evaluation: Body-worn Device

- **Multiple transmitters:** Yes No
- **Evaluated against exposure limits:** General Public Use Controlled Use
- **Duty cycle used in evaluation:** 25 %
- **Standard used for evaluation:** RSS-102 Issue 2 (2005-11)
- **SAR value:** 1.010 W/kg. Measured Computed Calculated

Annex 3.1 Declaration of RF Exposure Compliance

ATTESTATION: I attest that the information provided in Annex 3 is correct; that a Technical Brief was prepared and the information it contains is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed and that the device meets the SAR and/or RF exposure limits of RSS-102.

Signature: 

Date: 2008-09-09

NAME : Thomas Vogler

TITLE : Dipl.-Ing. (FH)

COMPANY : CETECOM ICT Services GmbH

Annex 4 Photo documentation

Appendix to test report no. 2-4883-48-07/08‘

Annex 5 Calibration parameters

Calibration parameters are described in the additional document :

**Appendix to test report no. 2-4883-48-07/08‘
Calibration data, Phantom certificate
and detail information of the DASY4 System**