

TEST REPORT

Test Report No.: 1-1954-21-02/10-A



Testing Laboratory

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Accredited Test Laboratory:
 The test laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025

DAR registration number: DGA-PL-176/94-D1

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Test Standard/s

IEEE 1528-2003	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
OET Bulletin 65 Supplement C	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields
RSS-102 Issue 4	Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

For further applied test standards please refer to section 3 of this test report.

Test Item	
Kind of test item:	GSM Mobile Phone
Device type:	portable device
Model name:	AAD-3880072-BV
S/N serial number:	CB511H8BNG / CB511H8BQ4 (for WLAN)
FCC-ID:	PY7A3880072
IC:	4170B-A3880072
IMEI-Number:	004400214-048422-5 / 004400214-048209-6 (WLAN)
Hardware status:	AP1.2
Software status:	1.0.A.1.27 / s_atp_delta_0_0_44 (for WLAN)
Frequency:	see technical details
Antenna:	integrated antenna
Battery option:	BST-38 Li-Polymer battery 3.6V / 930mAh
Accessories:	Stereo headset
Test sample status:	identical prototype
Exposure category:	general population / uncontrolled environment



Test performed:

Test Report authorised:

2010-05-06 Oleksandr Hnatovskiy

2010-06-07 Thomas Vogler

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2 General information

2.1 Notes

The test results of this test report relate exclusively to the test item specified in this test report. 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 CETECOM ICT Services GmbH.

2.2 Application details

Date of receipt of order:	2010-04-14
Date of receipt of test item:	2010-04-19
Start of test:	2010-04-19
End of test:	2010-04-30
Person(s) present during the test:	

2.3 Statement of compliance

The SAR values found for the AAD-3880072-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.

2.4 Technical details

Band tested for this SAR test report	Technology	Frequency band	Lowest transmit frequency/MHz	Highest transmit frequency/MHz	Lowest receive Frequency/MHz	Highest receive Frequency/MHz	Kind of modulation	Power Class	Tested power control level	GPRS/EGPRS mobile station class	GPRS/EGPRS multislotted class	(E)GPRS voice mode or DTM	Test channel low	Test channel middle	Test channel high	Maximum output power/dBm)*
<input type="checkbox"/>	GSM	GSM	880.2	914.8	925.2	959.8	GMSK 8-PSK	4 E2	5	B	12	no	975	37	124	---
<input type="checkbox"/>	GSM	DCS	1710.2	1784.8	1805.2	1879.8	GMSK 8-PSK	1 E2	0	B	12	no	512	698	885	---
<input checked="" type="checkbox"/>	GSM	cellular	824.2	848.8	869.2	893.8	GMSK 8-PSK	4 E2	5	B	12	no	128	190	251	33.7
<input checked="" type="checkbox"/>	GSM	PCS	1850.2	1909.8	1930.2	1989.8	GMSK 8-PSK	1 E2	0	B	12	no	512	661	810	30.5
<input type="checkbox"/>	UMTS	FDD I	1922.4	1977.6	2112.4	2167.6	QPSK	3	max	--	--	--	9612	9750	9888	---
<input type="checkbox"/>	UMTS	FDD VIII	882.4	912.6	927.4	957.6	QPSK	3	max	--	--	--	2712	2787	2863	---
<input type="checkbox"/>	WLAN	ISM	2412	2472	2412	2472	CCK OFDM	--	max	--	--	--	1	7	13	---
<input checked="" type="checkbox"/>	WLAN US	ISM	2412	2462	2412	2462	CCK OFDM	--	max	--	--	--	1	6	11	17.9 14.2
<input type="checkbox"/>	BT	ISM	2412	2462	2412	2462	GFSK	3	max	--	--	--	0	39	78	10.0

)*: slotted peak power for GSM, averaged max. power for WLAN and BT.

3 Test standard/s:

Test Standard	Version	Test Standard Description
IEEE 1528-2003	2003-04	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
OET Bulletin 65 Supplement C	1997-01 2001-01	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields
RSS-102 Issue 4	2010-03	Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
Canada's Safety Code No. 6	99-EHD-237	Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz
IEEE Std. C95-3	1991	Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave
IEEE Std. C95-1	1999	Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields

3.1 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).

4 Summary of Measurement Results

<input checked="" type="checkbox"/>	No deviations from the technical specifications ascertained
<input type="checkbox"/>	Deviations from the technical specifications ascertained

5 Test Environment

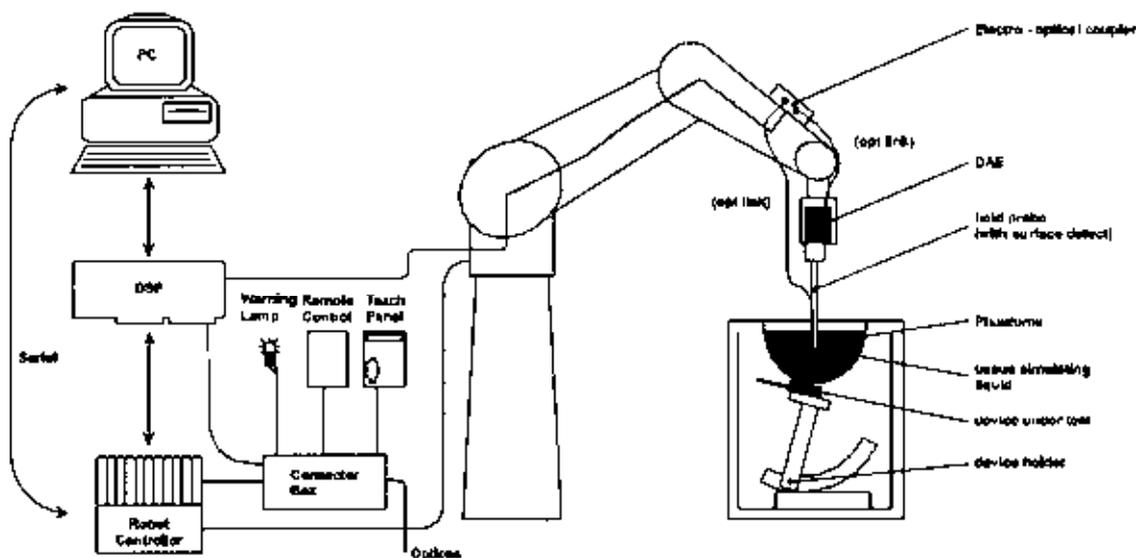
Ambient temperature:	20 – 24 °C
Tissue Simulating liquid:	20 – 24 °C
Relative humidity content:	40 – 50 %
Air pressure:	not relevant for this kind of testing
Power supply:	230 V / 50 Hz

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

6 Test Set-up

6.1 Measurement system

6.1.1 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.

6.1.2 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.

6.1.3 Probe description

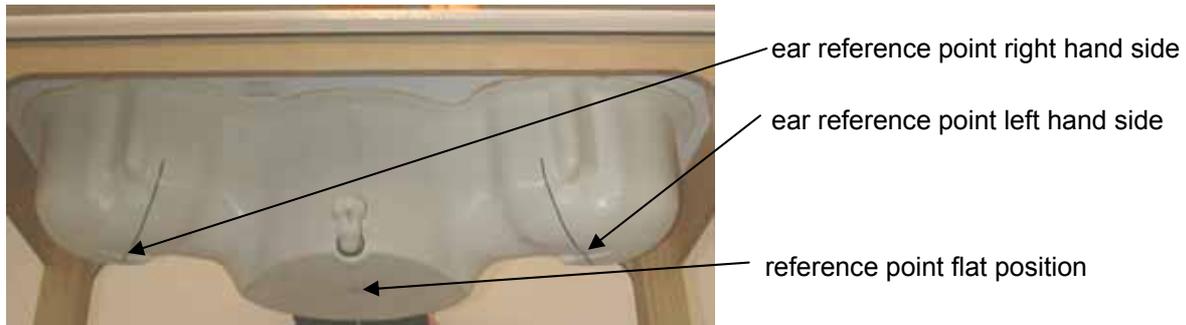
Isotropic E-Field Probe ET3DV6 for Dosimetric Measurements

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 $\pm 9.5\%$; 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 μ W/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)

6.1.4 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.



6.1.5 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.

6.1.6 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 section 3) are shown in table form in section 7.
- 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.

6.1.7 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.

6.1.8 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

6.1.9 Tissue simulating liquids: dielectric properties

The following materials are used for producing the tissue-equivalent materials.

(Liquids used for tests described in section 7. are marked with ☒) :

Ingredients (% of weight)	Frequency (MHz)					
	<input type="checkbox"/> 450	<input checked="" type="checkbox"/> 835	<input type="checkbox"/> 900	<input type="checkbox"/> 1800	<input checked="" type="checkbox"/> 1900	<input checked="" type="checkbox"/> 2450
frequency band	<input type="checkbox"/> 450	<input checked="" type="checkbox"/> 835	<input type="checkbox"/> 900	<input type="checkbox"/> 1800	<input checked="" type="checkbox"/> 1900	<input checked="" type="checkbox"/> 2450
Tissue Type	Head	Head	Head	Head	Head	Head
Water	38.56	41.45	40.92	52.64	54.9	62.7
Salt (NaCl)	3.95	1.45	1.48	0.36	0.18	0.5
Sugar	56.32	56.0	56.5	0.0	0.0	0.0
HEC	0.98	1.0	1.0	0.0	0.0	0.0
Bactericide	0.19	0.1	0.1	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	36.8
DGBE	0.0	0.0	0.0	47.0	44.92	0.0

Table 2: Head tissue dielectric properties

Ingredients (% of weight)	Frequency (MHz)					
	<input type="checkbox"/> 450	<input checked="" type="checkbox"/> 835	<input type="checkbox"/> 900	<input type="checkbox"/> 1800	<input checked="" type="checkbox"/> 1900	<input checked="" type="checkbox"/> 2450
frequency band	<input type="checkbox"/> 450	<input checked="" type="checkbox"/> 835	<input type="checkbox"/> 900	<input type="checkbox"/> 1800	<input checked="" type="checkbox"/> 1900	<input checked="" type="checkbox"/> 2450
Tissue Type	Body	Body	Body	Body	Body	Body
Water	51.16	52.4	56.0	69.91	69.91	73.2
Salt (NaCl)	1.49	1.40	0.76	0.13	0.13	0.04
Sugar	46.78	45.0	41.76	0.0	0.0	0.0
HEC	0.52	1.0	1.21	0.0	0.0	0.0
Bactericide	0.05	0.1	0.27	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0
DGBE	0.0	0.0	0.0	29.96	29.96	26.7

Table 3: Body tissue dielectric properties

Salt: 99+% Pure Sodium Chloride

Sugar: 98+% Pure Sucrose

Water: De-ionized, 16MΩ+ resistivity

HEC: Hydroxyethyl Cellulose

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

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

Note: Due to their availability body tissue simulating liquids as defined by FCC OET Bulletin 65 Supplement C are generally used for body worn SAR testing according to European standards.

6.1.10 Tissue simulating liquids: parameters

Used Target Frequency	Target Head Tissue		Measured Head Tissue		Measured Date
	Permittivity	Conductivity [S/m]	Permittivity	Conductivity [S/m]	
[MHz]					
835	41.5	0.90	42.0	0.9	2010-04-20
900	41.5	0.97	41.2	0.97	2010-04-20
1900	40.0	1.40	39.3	1.41	2010-04-23
2450	39.2	1.80	38.9	1.89	2010-04-29

Table 4: Parameter of the head tissue simulating liquid

Used Target Frequency	Target Body Tissue		Measured Body Tissue		Measured Date
	Permittivity	Conductivity [S/m]	Permittivity	Conductivity [S/m]	
[MHz]					
835	55.2	0.97	54.1	0.96	2010-04-27
900	55.0	1.05	53.5	1.04	2010-04-27
1900	53.3	1.52	53.1	1.54	2010-04-26
2450	52.7	1.95	51.9	1.99	2010-04-28

Table 5: Parameter of the body tissue simulating liquid

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

6.1.11 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 1528-2003 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

6.1.12 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 1528-2003 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

6.1.13 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 1528. The following table shows validation results for all frequency bands and tissue liquids used during the tests (plot(s) see annex A).

Validation Kit	Frequency	Target Peak SAR (1000 mW) (+/- 10%)	Target SAR _{1g} (1000 mW) (+/- 10%)	Measured Peak SAR (1000 mW)	Measured SAR _{1g} (1000 mW)	Measured date
D900V2 S/N: 102	900 MHz head	16.7 mW/g	11.3 mW/g	17.2 mW/g	11.4 mW/g	2010-04-20
D900V2 S/N: 102	900 MHz head	16.7 mW/g	11.3 mW/g	17.2 mW/g	11.4 mW/g	2010-04-21
D900V2 S/N: 102	900 MHz body	16.8 mW/g	11.3 mW/g	16.5 mW/g	11.3 mW/g	2010-04-27
D1900V2 S/N: 5d009	1900 MHz head	72.4 mW/g	39.7 mW/g	70.1 mW/g	40.2 mW/g	2010-04-23
D1900V2 S/N: 5d009	1900 MHz body	68.1 mW/g	40.1 mW/g	63.0 mW/g	37.2 mW/g	2010-04-26
D2450V2 S/N: 710	2450 MHz head	108.8 mW/g	52.7 mW/g	113.6 mW/g	52.9 mW/g	2010-04-29
D2450V2 S/N: 710	2450 MHz body	109.6 mW/g	51.4 mW/g	111.5 mW/g	52.8 mW/g	2010-04-28

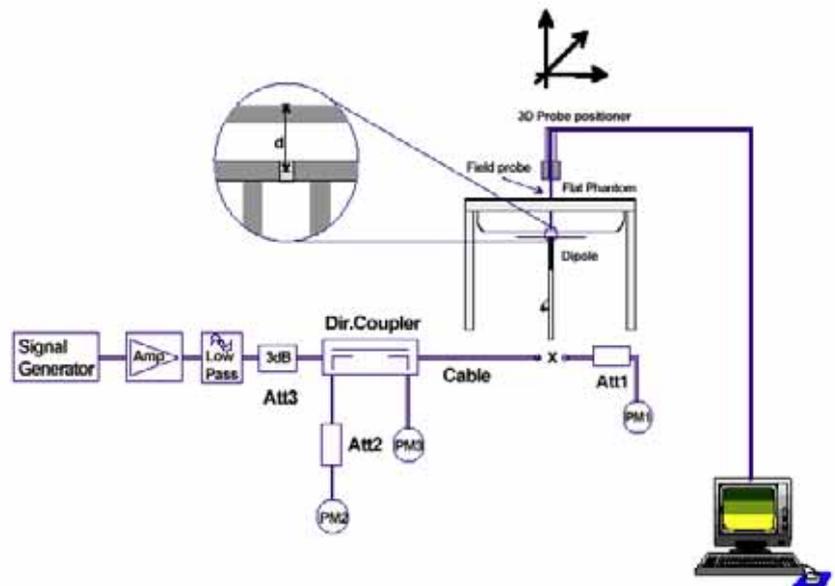
Table 8: Results system validation

Note : 900 MHz probe/dipole calibration is valid +/-100 MHz and fully covers the 850 MHz band.

6.1.14 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.



7 Detailed Test Results

7.1 Conducted power measurements

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 also checked before and after each SAR measurement. The resulting power values were within a 0.2 dB tolerance of the values shown below.

Note: CMU200 measures GSM peak and average output power for active timeslots.
For SAR the timebased average power is relevant. The difference inbetween depends on the duty cycle of the TDMA signal :

No. of timeslots	1	2	3	4
Duty Cycle	1 : 8	1: 4	1 : 2.66	1 : 2
timebased avg. power compared to slotted avg. power	- 9 dB	- 6 dB	- 4.25 dB	- 3 dB

The signalling modes differ as follows :

mode	coding scheme	modulation
GPRS	CS1 to CS4	GMSK
EGPRS (EDGE)	MCS1 to MCS4	GMSK
EGPRS (EDGE)	MCS5 to MCS9	8PSK

Apart from modulation change (GMSK/8PSK) coding schemes differ in code rate without influence on the RF signal. Therefore one coding scheme per mode was selected for conducted power measurements.

7.1.1 Conducted power measurements GSM 850 MHz

Channel / frequency	modulation	timeslots	slotted avg. power	timebased avg. power (calculated)
128 / 824.2 MHz	GMSK	1	33.6dBm	24.6dBm
190 / 836.6 MHz	GMSK	1	33.7dBm	24.7dBm
251 / 848.0 MHz	GMSK	1	33.7dBm	24.7dBm
128 / 824.2 MHz	GMSK	2	30.6dBm	24.6dBm
190 / 836.6 MHz	GMSK	2	30.7dBm	24.7dBm
251 / 848.0 MHz	GMSK	2	30.7dBm	24.7dBm
128 / 824.2 MHz	GMSK	3	28.8dBm	24.6dBm
190 / 836.6 MHz	GMSK	3	28.8dBm	24.6dBm
251 / 848.0 MHz	GMSK	3	28.7dBm	24.5dBm
128 / 824.2 MHz	GMSK	4	27.5dBm	24.5dBm
190 / 836.6 MHz	GMSK	4	27.6dBm	24.5dBm
251 / 848.0 MHz	GMSK	4	27.6dBm	24.6dBm
128 / 824.2 MHz	8PSK	2	26.9dBm	20.9dBm
190 / 836.6 MHz	8PSK	2	27.0dBm	21.0dBm
251 / 848.0 MHz	8PSK	2	27.1dBm	21.1dBm
128 / 824.2 MHz	8PSK	3	24.9dBm	20.7dBm
190 / 836.6 MHz	8PSK	3	25.0dBm	20.8dBm
251 / 848.0 MHz	8PSK	3	25.1dBm	20.9dBm
128 / 824.2 MHz	8PSK	4	22.9dBm	19.9dBm
190 / 836.6 MHz	8PSK	4	23.0dBm	20.0dBm
251 / 848.0 MHz	8PSK	4	23.1dBm	20.1dBm

Table 9: Test results conducted power measurement GSM 850 MHz

7.1.2 Conducted power measurements GSM 1900 MHz

Channel / frequency	modulation	timeslots	slotted avg. power	timebased avg. power (calculated)
512 / 1850.2 MHz	GMSK	1	30.5dBm	21.5dBm
661 / 1880.0 MHz	GMSK	1	30.5dBm	21.5dBm
810 / 1909.8 MHz	GMSK	1	30.3dBm	21.3dBm
512 / 1850.2 MHz	GMSK	2	29.4dBm	23.4dBm
661 / 1880.0 MHz	GMSK	2	29.4dBm	23.4dBm
810 / 1909.8 MHz	GMSK	2	29.2dBm	23.2dBm
512 / 1850.2 MHz	GMSK	3	27.3dBm	23.1dBm
661 / 1880.0 MHz	GMSK	3	27.4dBm	23.2dBm
810 / 1909.8 MHz	GMSK	3	27.2dBm	23.0dBm
512 / 1850.2 MHz	GMSK	4	26.4dBm	23.4dBm
661 / 1880.0 MHz	GMSK	4	26.4dBm	23.4dBm
810 / 1909.8 MHz	GMSK	4	26.2dBm	23.2dBm
512 / 1850.2 MHz	8PSK	2	26.0dBm	20.0dBm
661 / 1880.0 MHz	8PSK	2	26.0dBm	20.0dBm
810 / 1909.8 MHz	8PSK	2	25.9dBm	21.9dBm
512 / 1850.2 MHz	8PSK	3	24.0dBm	19.8dBm
661 / 1880.0 MHz	8PSK	3	24.0dBm	19.8dBm
810 / 1909.8 MHz	8PSK	3	23.9dBm	19.7dBm
512 / 1850.2 MHz	8PSK	4	22.0dBm	19.0dBm
661 / 1880.0 MHz	8PSK	4	22.0dBm	19.0dBm
810 / 1909.8 MHz	8PSK	4	21.9dBm	18.9dBm

Table 10: Test results conducted power measurement GSM 1900 MHz

7.1.3 Justification of SAR measurements in GSM mode

SAR measurements were performed in GPRS mode with 2 or 4 active timeslots because highest timebased averaged output power was calculated for that configurations.

For comparison additional delta measurements were performed in GPRS mode with 2 and 3 timeslots and with 1 timeslot in speech mode. In EDGE mode no delta measurement was performed.

7.1.4 Conducted power measurements WLAN 2.4 GHz

Channel / frequency	modulation	bit rate	timebased avg. power (calculated)
1 / 2412 MHz	CCK	1 MBit/s	17.9dBm
6 / 2437 MHz	CCK	1 MBit/s	17.4dBm
11 / 2462 MHz	CCK	1 MBit/s	17.1dBm
1 / 2412 MHz	OFDM	6 MBit/s	13.7dBm
6 / 2437 MHz	OFDM	6 MBit/s	14.2dBm
11 / 2462 MHz	OFDM	6 MBit/s	14.0dBm

Table 11: Test results conducted power measurement WLAN 2.4 GHz

7.1.5 Multiple Transmitter Information

The following tables list information which is relevant for the decision if a simultaneous transmit evaluation is necessary according to KDB 648474.

important abbreviations :

SPLSR : Antenna pair SAR to Peak Location Separation Ratio $(SAR_x + SAR_y)/d_{xy}$

P_{ref} : 12 mW at 2.4 GHz

a) head position

Tx No.	Communcation system and frequency band	P_{avg} (mW)	single SAR (W/kg) (see ch. 2.6)	remarks
1a	GSM 850 MHz	250	0.171	routine evaluation
1b	GSM 1900 MHz	125	1.210	routine evaluation
2a	WLAN 2450 MHz	50	0.307	routine evaluation
2b	Bluetooth 2450 MHz	10	:=0	$P_2 < P_{ref}$
Sum of all 1g-SAR values			n/a	

Table 12: Communication systems and SAR values in head position

antenna pair (x,y)	antenna hot spot distance d_{xy} (cm)	L_{xy} (cm)	SPLSR _{xy}	sim.-Tx SAR	remarks
(1a,2a)	5.9	n/a	0.081	N	$SPLSR_{1a2a} < 0.3$
(1b,2a)	6.3	n/a	0.241	N	$SPLSR_{1b2a} < 0.3$

Table 13: Antenna distances and SPLSR evaluation in head position

b) body position

Tx No.	Communication system and frequency band	P_{avg} (mW)	single SAR (W/kg) (see ch. 2.6)	remarks
1a	GSM 850 MHz	250	0.148	routine evaluation
1b	GSM 1900 MHz	125	0.453	routine evaluation
2a	WLAN 2450 MHz	50	0.250	routine evaluation
2b	Bluetooth 2450 MHz	10	: =0	$P_{2b} < P_{ref}$
Sum of all 1g-SAR values			n/a	

Table 14: Communication systems and SAR values in body position

antenna pair (x,y)	antenna hot spot distance d_{xy} (cm)	L_{xy} (cm)	SPLSR _{xy}	sim.-Tx SAR	remarks
(1a,2a)	6.2	n/a	0.064	N	$SPLSR_{1a2a} < 0.3$
(1b,2a)	6.4	n/a	0.110	N	$SPLSR_{1b2a} < 0.3$

Table 15: Antenna distances and SPLSR evaluation in body position

7.2 SAR test results

7.2.1 Results overview

Head SAR GSM 850 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature	
					left	right
128 / 824.2 MHz	cheek	0.047 W/kg	0.048 W/kg	1.6 W/kg	22.7 °C	22.8 °C
190 / 836.6 MHz	cheek	0.054 W/kg	0.055 W/kg	1.6 W/kg	22.7 °C	22.8 °C
251 / 848.8 MHz	cheek	0.066 W/kg	0.056 W/kg	1.6 W/kg	22.7 °C	22.8 °C
128 / 824.2 MHz	tilted 15°	0.033 W/kg	0.031 W/kg	1.6 W/kg	22.7 °C	22.6 °C
190 / 836.6 MHz	tilted 15°	0.037 W/kg	0.036 W/kg	1.6 W/kg	22.7 °C	22.6 °C
251 / 848.8 MHz	tilted 15°	0.044 W/kg	0.042 W/kg	1.6 W/kg	22.7 °C	22.6 °C
Slide opened						
128 / 824.2 MHz	cheek	0.138 W/kg	0.112 W/kg	1.6 W/kg	22.7 °C	22.8 °C
190 / 836.6 MHz	cheek	0.148 W/kg	0.134 W/kg	1.6 W/kg	22.7 °C	22.8 °C
251 / 848.8 MHz	cheek	0.171 W/kg	0.151 W/kg	1.6 W/kg	22.7 °C	22.8 °C
128 / 824.2 MHz	tilted 15°	0.052 W/kg	0.051 W/kg	1.6 W/kg	22.7 °C	22.8 °C
190 / 836.6 MHz	tilted 15°	0.056 W/kg	0.059 W/kg	1.6 W/kg	22.7 °C	22.8 °C
251 / 848.8 MHz	tilted 15°	0.061 W/kg	0.069 W/kg	1.6 W/kg	22.7 °C	22.8 °C

Table 16: Test results head SAR GSM 850 MHz

Body SAR GSM 850 MHz (averaged over 1g tissue volume)					
Channel / frequency	Position	test condition	Body worn test result	Limit	Liquid temperature
128 / 824.2 MHz	front	2 time slots	0.017 W/kg	1.6 W/kg	22.8 °C
190 / 836.6 MHz	front	2 time slots	0.026 W/kg	1.6 W/kg	22.8 °C
251 / 848.8 MHz	front	2 time slots	0.037 W/kg	1.6 W/kg	22.8 °C
128 / 824.2 MHz	rear	2 time slots	0.077 W/kg	1.6 W/kg	22.8 °C
190 / 836.6 MHz	rear	2 time slots	0.104 W/kg	1.6 W/kg	22.8 °C
251 / 848.8 MHz	rear	2 time slots	0.148 W/kg	1.6 W/kg	22.8 °C
190 / 836.6 MHz	rear	1 time slot	0.082 W/kg	1.6 W/kg	22.8 °C
190 / 836.6 MHz	rear	3 time slot	0.095 W/kg	1.6 W/kg	22.8 °C
190 / 836.6 MHz	rear	4 time slot	0.099 W/kg	1.6 W/kg	22.8 °C

Table 17: Test results body SAR GSM 850 MHz

Head SAR GSM 1900 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature	
					left	right
512 / 1850.2 MHz	cheek	0.360 W/kg	0.407 W/kg	1.6 W/kg	21.9 °C	22.0 °C
661 / 1880.0 MHz	cheek	0.396 W/kg	0.373 W/kg	1.6 W/kg	21.9 °C	22.0 °C
810 / 1909.8 MHz	cheek	0.409 W/kg	0.327 W/kg	1.6 W/kg	21.9 °C	22.0 °C
512 / 1850.2 MHz	tilted 15°	0.563 W/kg	0.505 W/kg	1.6 W/kg	21.9 °C	22.0 °C
661 / 1880.0 MHz	tilted 15°	0.670 W/kg	0.570 W/kg	1.6 W/kg	21.9 °C	22.0 °C
810 / 1909.8 MHz	tilted 15°	0.673 W/kg	0.554 W/kg	1.6 W/kg	21.9 °C	22.0 °C
Slide opened						
512 / 1850.2 MHz	cheek	1.210 W/kg	0.398 W/kg	1.6 W/kg	21.9 °C	22.0 °C
661 / 1880.0 MHz	cheek	1.180 W/kg	0.415 W/kg	1.6 W/kg	21.9 °C	22.0 °C
810 / 1909.8 MHz	cheek	1.160 W/kg	0.437 W/kg	1.6 W/kg	21.9 °C	22.0 °C
512 / 1850.2 MHz	tilted 15°	0.376 W/kg	0.496 W/kg	1.6 W/kg	21.9 °C	22.0 °C
661 / 1880.0 MHz	tilted 15°	0.347 W/kg	0.520 W/kg	1.6 W/kg	21.9 °C	22.0 °C
810 / 1909.8 MHz	tilted 15°	0.352 W/kg	0.503 W/kg	1.6 W/kg	21.9 °C	22.0 °C

Table 18: Test results head SAR GSM 1900 MHz

Body SAR GSM 1900 MHz (averaged over 1g tissue volume)					
Channel / frequency	Position	test condition	Body worn test result	Limit	Liquid temperature
512 / 1850.2 MHz	front	2 time slots	0.272 W/kg	1.6 W/kg	22.1 °C
661 / 1880.0 MHz	front	2 time slots	0.305 W/kg	1.6 W/kg	22.1 °C
810 / 1909.8 MHz	front	2 time slots	0.291 W/kg	1.6 W/kg	22.1 °C
512 / 1850.2 MHz	rear	2 time slots	0.435 W/kg	1.6 W/kg	22.1 °C
661 / 1880.0 MHz	rear	2 time slots	0.436 W/kg	1.6 W/kg	22.1 °C
810 / 1909.8 MHz	rear	2 time slots	0.409 W/kg	1.6 W/kg	22.1 °C
512 / 1850.2 MHz	front	4 time slots	0.245 W/kg	1.6 W/kg	22.1 °C
661 / 1880.0 MHz	front	4 time slots	0.258 W/kg	1.6 W/kg	22.1 °C
810 / 1909.8 MHz	front	4 time slots	0.248 W/kg	1.6 W/kg	22.1 °C
512 / 1850.2 MHz	rear	4 time slots	0.453 W/kg	1.6 W/kg	22.1 °C
661 / 1880.0 MHz	rear	4 time slots	0.452 W/kg	1.6 W/kg	22.1 °C
810 / 1909.8 MHz	rear	4 time slots	0.426 W/kg	1.6 W/kg	22.1 °C
661 / 1880.0 MHz	rear	1 time slot	0.283 W/kg	1.6 W/kg	22.1 °C
661 / 1880.0 MHz	rear	3 time slot	0.418 W/kg	1.6 W/kg	22.1 °C

Table 19: Test results body SAR GSM 1900 MHz

Head SAR WLAN 2450 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature left	Liquid temperature right
1 / 2412 MHz	cheek	0.151 W/kg	0.267 W/kg	1.6 W/kg	22.3 °C	22.6 °C
6 / 2437 MHz	cheek	0.149 W/kg	0.187 W/kg	1.6 W/kg	22.3 °C	22.6 °C
11 / 2462 MHz	cheek	0.107 W/kg	0.215 W/kg	1.6 W/kg	22.3 °C	22.6 °C
1 / 2412 MHz	tilted 15°	0.180 W/kg	0.252 W/kg	1.6 W/kg	22.3 °C	22.6 °C
6 / 2437 MHz	tilted 15°	0.174 W/kg	0.207 W/kg	1.6 W/kg	22.3 °C	22.6 °C
11 / 2462 MHz	tilted 15°	0.163 W/kg	0.117 W/kg	1.6 W/kg	22.3 °C	22.6 °C
Slide opened						
1 / 2412 MHz	cheek	0.093 W/kg	0.243 W/kg	1.6 W/kg	22.3 °C	22.6 °C
6 / 2437 MHz	cheek	0.103 W/kg	0.259 W/kg	1.6 W/kg	22.3 °C	22.6 °C
11 / 2462 MHz	cheek	0.095 W/kg	0.307 W/kg	1.6 W/kg	22.3 °C	22.6 °C
1 / 2412 MHz	tilted 15°	0.132 W/kg	0.230 W/kg	1.6 W/kg	22.3 °C	22.6 °C
6 / 2437 MHz	tilted 15°	0.136 W/kg	0.293 W/kg	1.6 W/kg	22.3 °C	22.6 °C
11 / 2462 MHz	tilted 15°	0.125 W/kg	0.246 W/kg	1.6 W/kg	22.3 °C	22.6 °C
11 / 2462 MHz	cheek 6Mbps	--- W/kg	0.105 W/kg	1.6 W/kg	--- °C	22.6 °C

Table 20: Test results head SAR WLAN 2450 MHz

Body SAR WLAN 2450 MHz (averaged over 1g tissue volume)					
Channel / frequency	Position	test condition	Body worn test result	Limit	Liquid temperature
1 / 2412 MHz	front	CCK 1 Mbit/s	0.071 W/kg	1.6 W/kg	22.7 °C
6 / 2437 MHz	front	CCK 1 Mbit/s	0.062 W/kg	1.6 W/kg	22.7 °C
11 / 2462 MHz	front	CCK 1 Mbit/s	0.057 W/kg	1.6 W/kg	22.7 °C
1 / 2412 MHz	rear	CCK 1 Mbit/s	0.218 W/kg	1.6 W/kg	22.7 °C
6 / 2437 MHz	rear	CCK 1 Mbit/s	0.250 W/kg	1.6 W/kg	22.7 °C
11 / 2462 MHz	rear	CCK 1 Mbit/s	0.200 W/kg	1.6 W/kg	22.7 °C
6 / 2437 MHz	rear	OFDM 6 Mbit/s	0.128 W/kg	1.6 W/kg	22.7 °C

Table 21: Test results body SAR WLAN 2450 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.

At first the GSM body tests were performed at middle channel rear side with all timeslots configuration in uplink to find the maximum SAR value for timeslots configuration.

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.

7.2.2 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 were performed in that configuration, which generates the highest time based averaged output power (see conducted power results).

Tests in head position with GSM were performed in voice mode with 1 timeslot unless GPRS/EGPRS/DTM function allows parallel voice and data traffic on 2 or more timeslots (see section 2.4 for details).

WLAN was tested in 802.11b mode with 1 MBit/s with one delta measurement in 802.11g mode on worst case position.

8 Test equipment and ancillaries used for tests

To simplify the identification of the test equipment and/or ancillaries which were used, the reporting of the relevant test cases only refer to the test item number as specified in the table below.

No	used	Equipment	Type	Manufacturer	Serial No.	Last Calibration	Frequency (months)
1	<input type="checkbox"/>	Dosimetric E-Field Probe	ET3DV6	Schmid & Partner Engineering AG	1558	August 21, 2009	12
2	<input checked="" type="checkbox"/>	Dosimetric E-Field Probe	ET3DV6	Schmid & Partner Engineering AG	1559	January 20, 2010	12
3	<input checked="" type="checkbox"/>	900 MHz System Validation Dipole	D900V2	Schmid & Partner Engineering AG	102	August 17, 2009	12
4	<input type="checkbox"/>	1800 MHz System Validation Dipole	D1800V2	Schmid & Partner Engineering AG	287	August 18, 2009	12
5	<input checked="" type="checkbox"/>	1900 MHz System Validation Dipole	D1900V2	Schmid & Partner Engineering AG	531	August 18, 2009	12
6	<input checked="" type="checkbox"/>	2450 MHz System Validation Dipole	D2450V2	Schmid & Partner Engineering AG	710	August 17, 2009	12
7	<input type="checkbox"/>	Data acquisition electronics	DAE3V1	Schmid & Partner Engineering AG	413	January 4, 2010	12
8	<input checked="" type="checkbox"/>	Data acquisition electronics	DAE3V1	Schmid & Partner Engineering AG	477	May 14, 2009	12
9	<input checked="" type="checkbox"/>	Software	DASY 4 V4.5	Schmid & Partner Engineering AG	---	N/A	--
10	<input checked="" type="checkbox"/>	Phantom	SAM	Schmid & Partner Engineering AG	---	N/A	--
11	<input checked="" type="checkbox"/>	Universal Radio Communication Tester	CMU 200	Rohde & Schwarz	106826	January 12, 2010	12
12	<input checked="" type="checkbox"/>	Network Analyser 300 kHz to 6 GHz	8753C	Hewlett Packard)*	2937U00269	January 8, 2010	12
13	<input checked="" type="checkbox"/>	Network Analyser 300 kHz to 6 GHz	85047A	Hewlett Packard)*	2936A00872	January 8, 2010	12
14	<input checked="" type="checkbox"/>	Dielectric Probe Kit	85070C	Hewlett Packard	US99360146	N/A	12
15	<input checked="" type="checkbox"/>	Signal Generator	8665A	Hewlett Packard	2833A00112	January 8, 2010	12
16	<input checked="" type="checkbox"/>	Amplifier	25S1G4 (25 Watt)	Amplifier Research	20452	N/A	--
17	<input checked="" type="checkbox"/>	Power Meter	NRP	Rohde & Schwarz	101367	January 8, 2010	12
18	<input checked="" type="checkbox"/>	Power Meter Sensor	NRP Z22	Rohde & Schwarz	100227	January 8, 2010	12
19	<input checked="" type="checkbox"/>	Power Meter Sensor	NRP Z22	Rohde & Schwarz	100234	January 8, 2010	12

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

9 Observations

No observations exceeding those reported with the single test cases have been made.

Annex A: System performance verification

Date/Time: 2010-04-20 12:44:04 Date/Time: 2010-04-20 12:47:34

System Performance Check-D900 head 2010-04-20

DUT: Dipole 900 MHz; Type: D900V2; Serial: 102

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

Medium: HSL900 Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho = 1000 \text{ kg/m}^3$

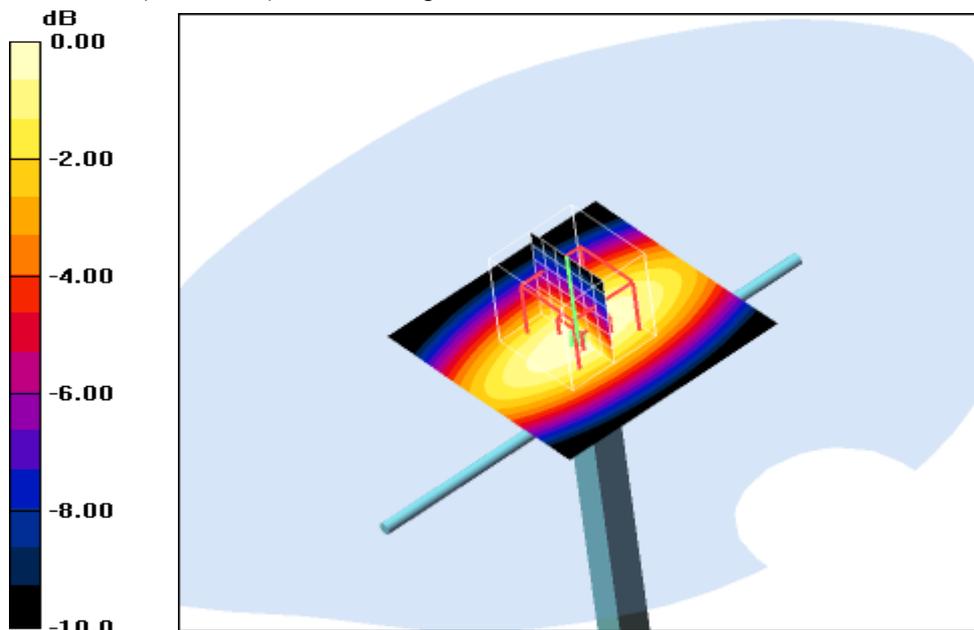
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.21, 6.21, 6.21); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (51x51x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 12.0 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 116.0 V/m; Power Drift = 0.018 dB
 Peak SAR (extrapolated) = 17.2 W/kg
SAR(1 g) = 11.4 mW/g; SAR(10 g) = 7.27 mW/g
 Maximum value of SAR (measured) = 12.3 mW/g



Additional information:

ambient temperature: 23.7°C; liquid temperature: 22.3°C

Date/Time: 2010-04-21 15:25:28 Date/Time: 2010-04-21 15:29:01

System Performance Check-D900 head 2010-04-21

DUT: Dipole 900 MHz; Type: D900V2; Serial: 102

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

Medium: HSL850 Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho = 1000 \text{ kg/m}^3$

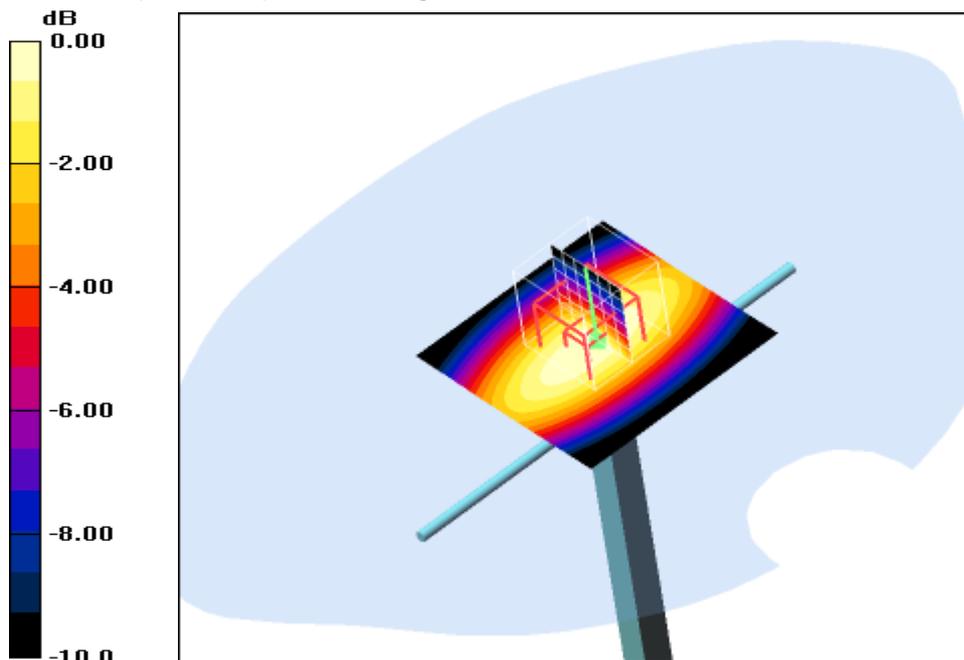
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.21, 6.21, 6.21); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (51x51x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 12.1 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 116.0 V/m; Power Drift = -0.011 dB
 Peak SAR (extrapolated) = 17.2 W/kg
SAR(1 g) = 11.4 mW/g; SAR(10 g) = 7.3 mW/g
 Maximum value of SAR (measured) = 12.3 mW/g



Additional information:
 ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-27 15:27:12 Date/Time: 2010-04-27 15:30:42

System Performance Check-D900 body 2010-04-27

DUT: Dipole 900 MHz; Type: D900V2; Serial: 102

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

Medium: M850 Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 1.04 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.04, 6.04, 6.04); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (51x51x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 12.1 mW/g

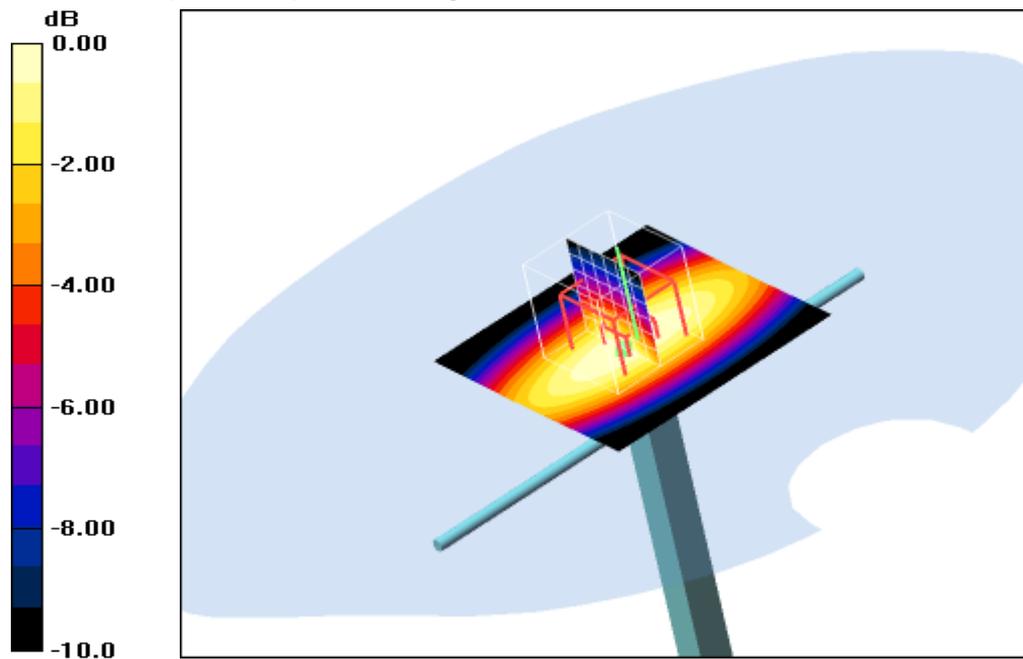
d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 113.4 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 11.3 mW/g; SAR(10 g) = 7.35 mW/g

Maximum value of SAR (measured) = 12.3 mW/g



0 dB = 12.3mW/g

Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.8°C

Date/Time: 2010-04-23 15:38:49 Date/Time: 2010-04-23 15:42:31

System Performance Check-D1900 head 2010-04-23

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009

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

Medium: HSL1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

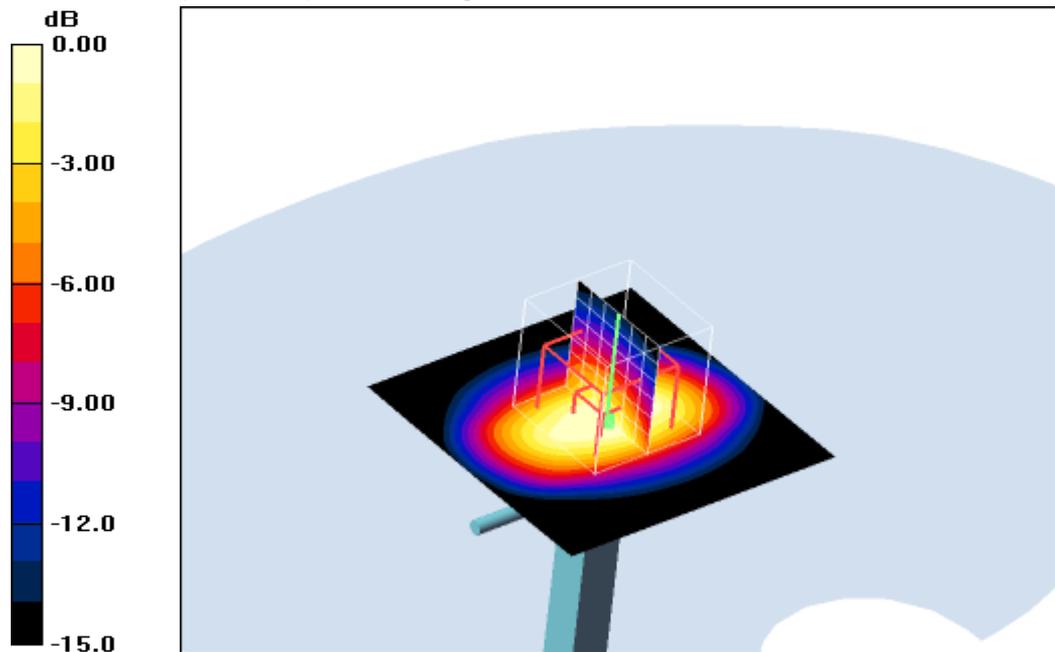
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (51x51x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 54.6 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 189.9 V/m; Power Drift = -0.034 dB
 Peak SAR (extrapolated) = 70.1 W/kg
SAR(1 g) = 40.2 mW/g; SAR(10 g) = 21.1 mW/g
 Maximum value of SAR (measured) = 45.9 mW/g



Additional information:

ambient temperature: 22.9°C; liquid temperature: 22.0°C

Date/Time: 2010-04-26 11:30:13 Date/Time: 2010-04-26 11:48:36

System Performance Check-D1900 body 2010-04-26

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009

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

Medium: M1900 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (51x51x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 51.5 mW/g

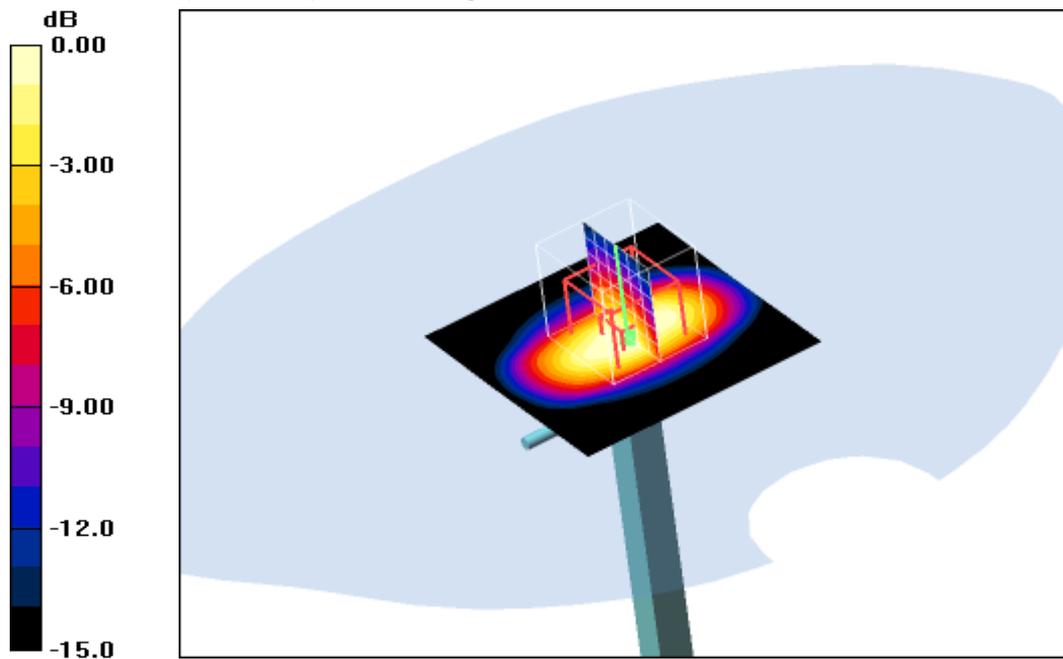
d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 181.9 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 63.0 W/kg

SAR(1 g) = 37.2 mW/g; SAR(10 g) = 20.1 mW/g

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



0 dB = 42.2mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.1°C

Date/Time: 2010-04-29 10:45:53 Date/Time: 2010-04-29 10:49:57

System Performance Check-D2450 head 2010-04-29

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 710

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

Medium: HSL2450 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

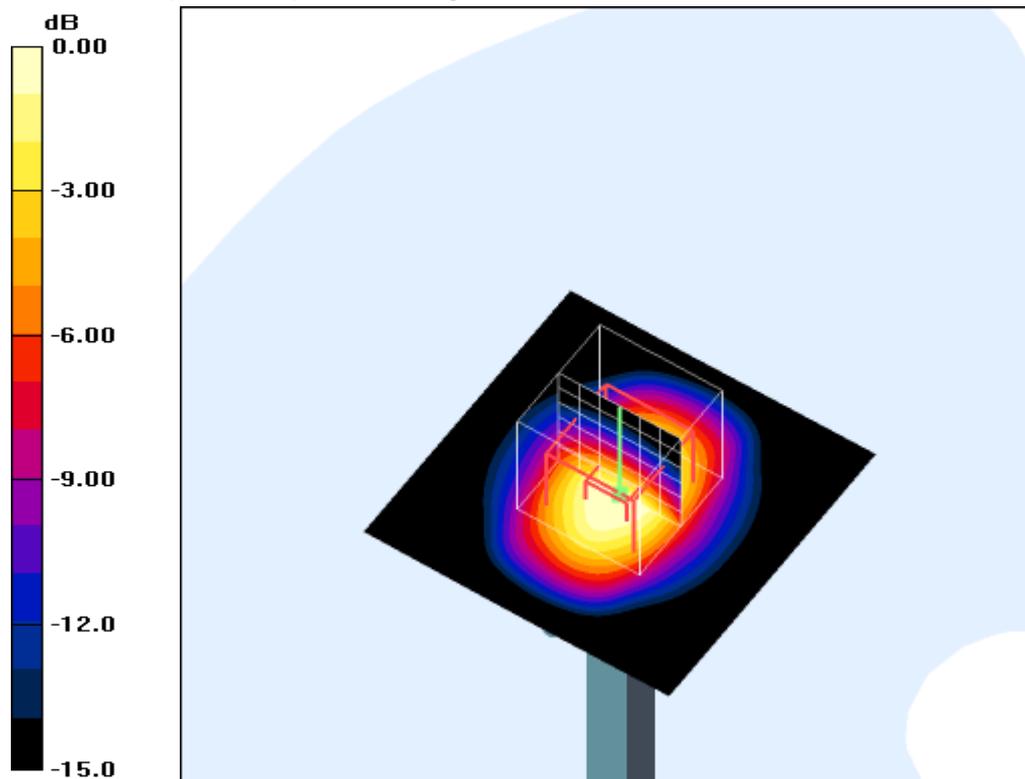
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (51x51x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 76.9 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 187.3 V/m; Power Drift = -0.034 dB
 Peak SAR (extrapolated) = 113.6 W/kg
SAR(1 g) = 52.9 mW/g; SAR(10 g) = 24.7 mW/g
 Maximum value of SAR (measured) = 59.8 mW/g



0 dB = 59.8mW/g

Additional information:

ambient temperature: 23.7°C; liquid temperature: 22.8°C

Date/Time: 2010-04-28 13:01:39 Date/Time: 2010-04-28 13:05:24

System Performance Check-D2450 body 2010-04-28

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 710

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

Medium: M2450 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

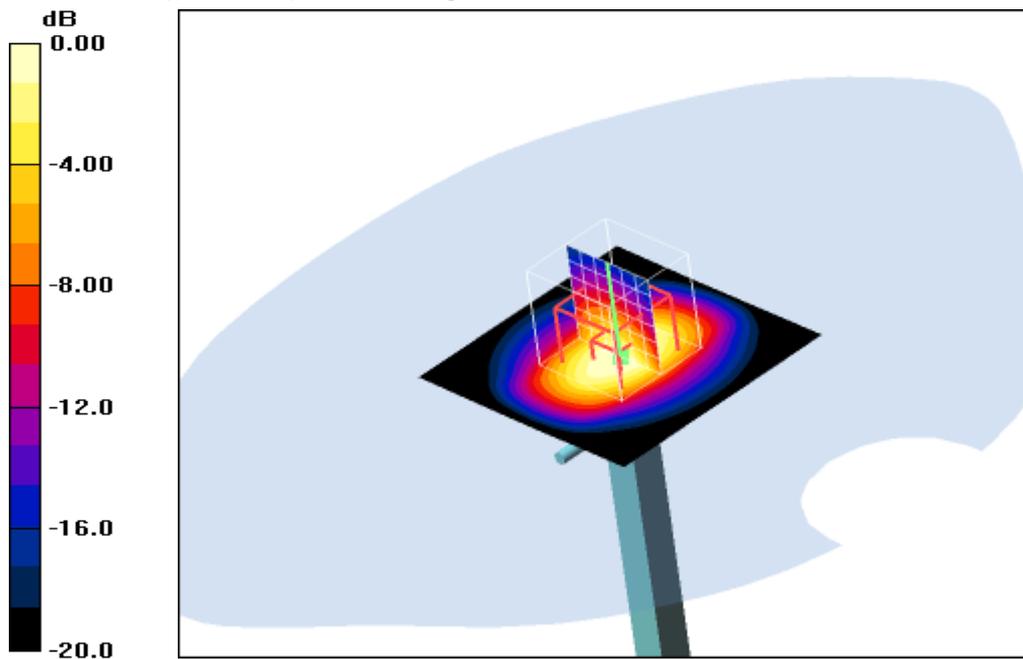
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.04, 4.04, 4.04); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (51x51x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 80.1 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 184.1 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 111.5 W/kg
SAR(1 g) = 52.8 mW/g; SAR(10 g) = 24.8 mW/g
 Maximum value of SAR (measured) = 59.6 mW/g



0 dB = 59.6mW/g

Additional information:

ambient temperature: 23.8°C; liquid temperature: 22.7°C

Annex B: DASY4 measurement results

Annex B.1: GSM 850MHz head

Date/Time: 2010-04-21 12:33:01 Date/Time: 2010-04-21 12:39:07

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn477; Calibrated: 2009-05-14

- 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) = 0.049 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

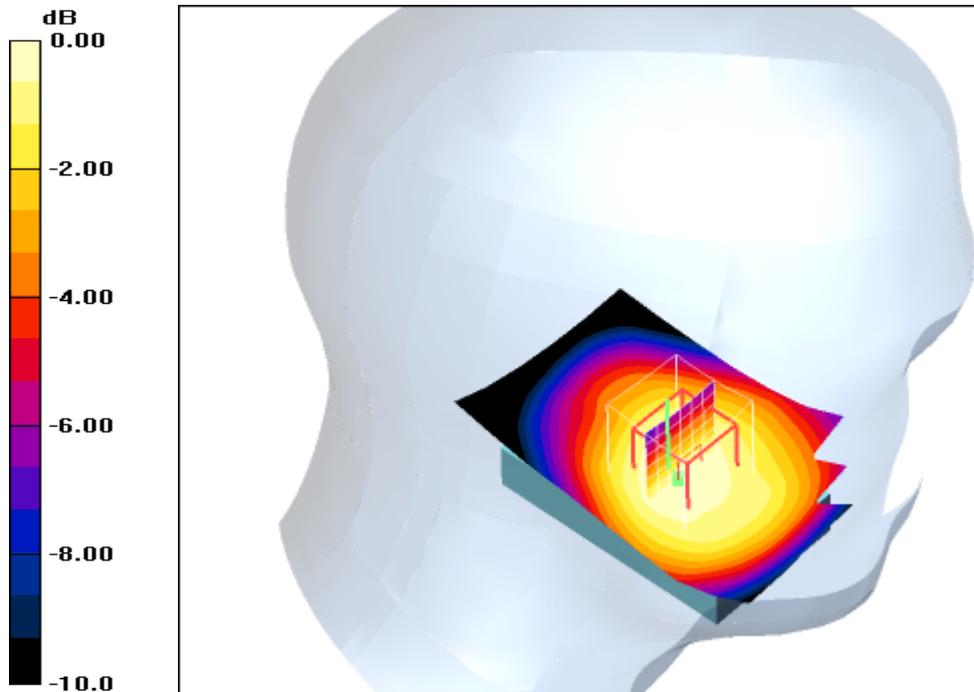
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.53 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.060 W/kg

SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.035 mW/g

Maximum value of SAR (measured) = 0.049 mW/g



Additional information:

ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-21 11:50:18 Date/Time: 2010-04-21 11:56:19

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

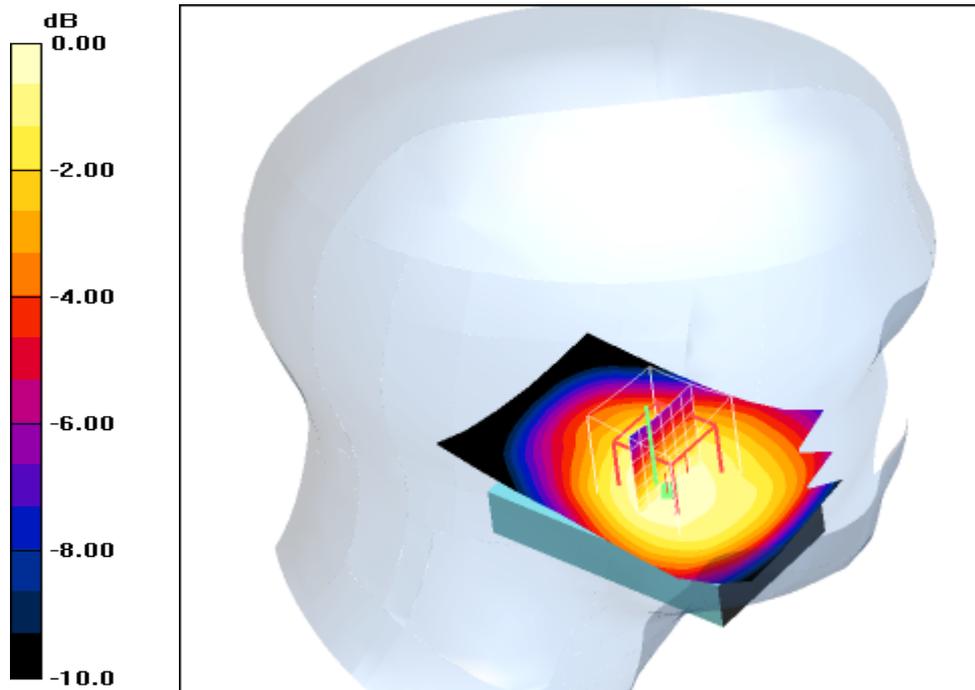
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.056 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 = 8.09 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 0.069 W/kg
SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.041 mW/g
 Maximum value of SAR (measured) = 0.057 mW/g



0 dB = 0.057mW/g

Additional information:

ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-21 12:11:23 Date/Time: 2010-04-21 12:17:27

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.068 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

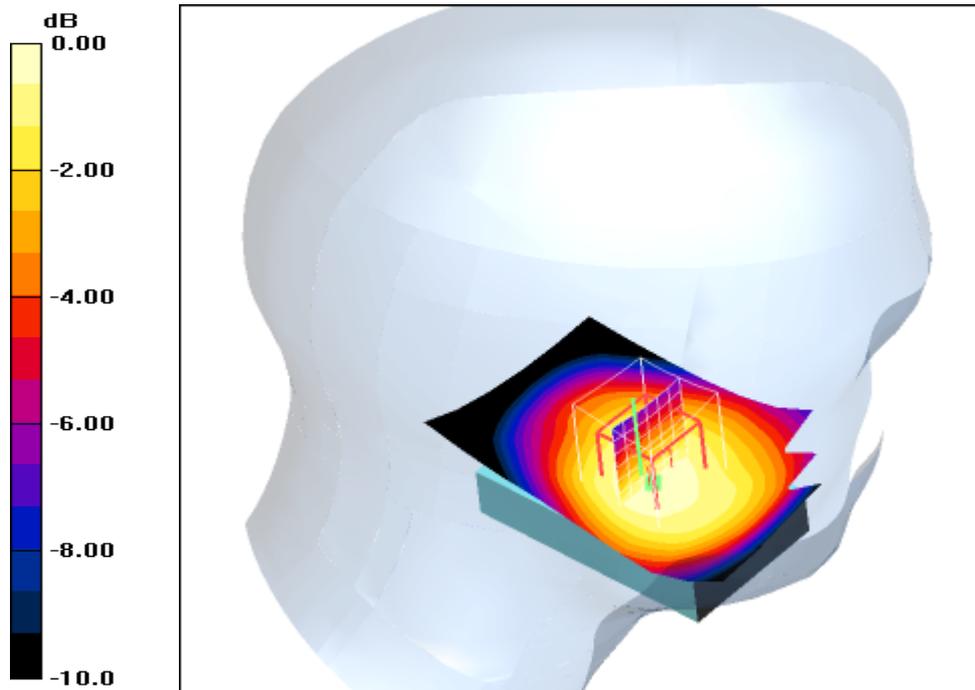
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.97 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.082 W/kg

SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.050 mW/g

Maximum value of SAR (measured) = 0.070 mW/g



0 dB = 0.070mW/g

Additional information:

ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-21 10:54:30 Date/Time: 2010-04-21 11:00:31 Date/Time: 2010-04-21 11:11:55

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.034 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 = 6.29 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.042 W/kg

SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.024 mW/g

Maximum value of SAR (measured) = 0.034 mW/g

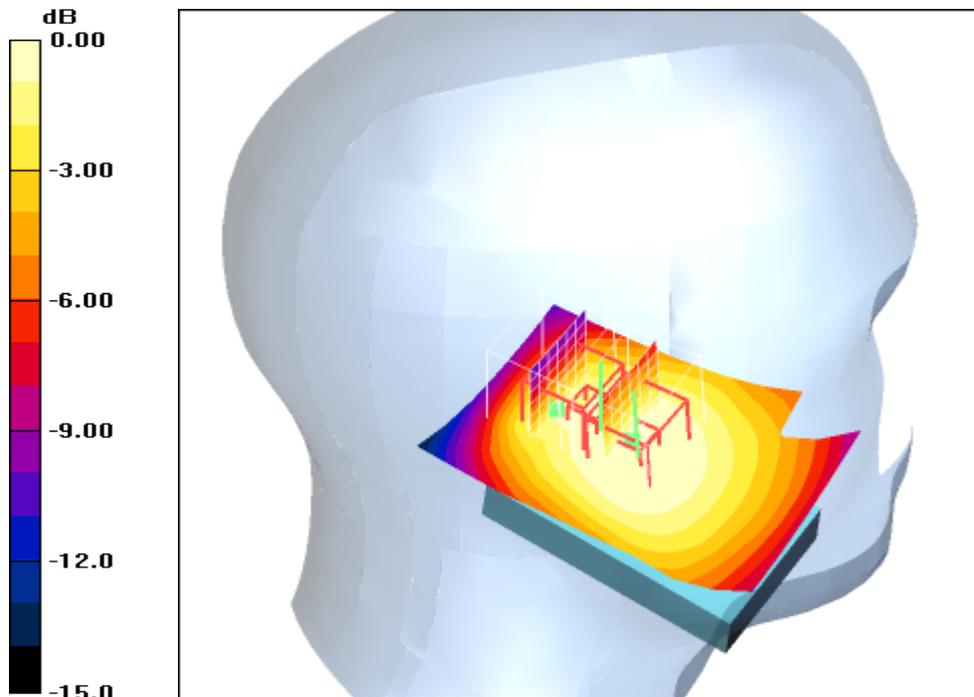
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.29 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.038 W/kg

SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.030 mW/g



0 dB = 0.030mW/g

Additional information:

ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-21 10:33:25 Date/Time: 2010-04-21 10:39:42

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.039 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

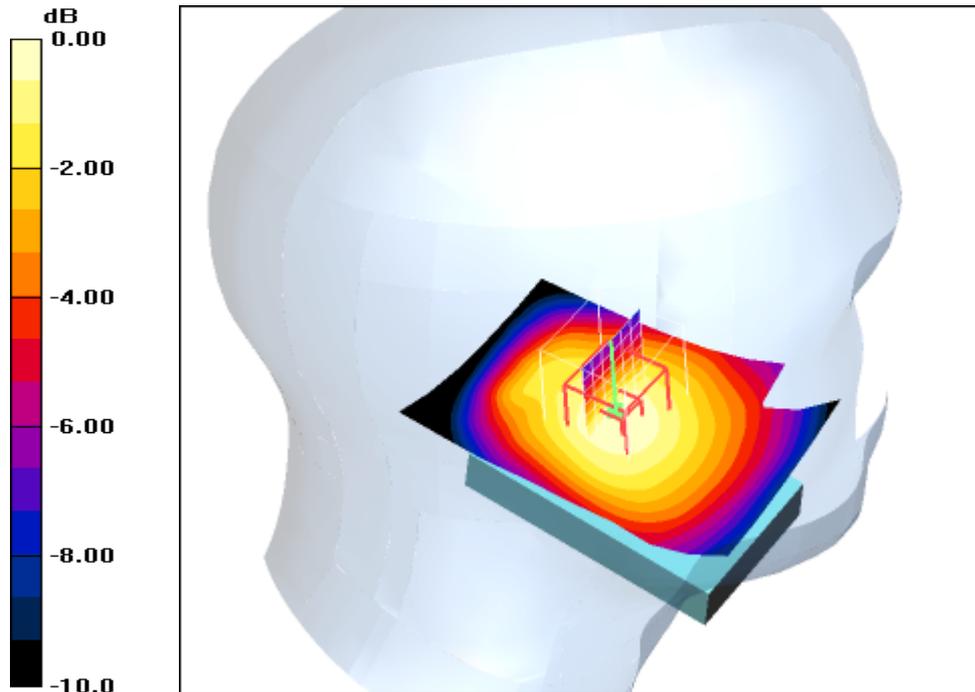
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.71 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.047 W/kg

SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.027 mW/g

Maximum value of SAR (measured) = 0.039 mW/g



Additional information:

ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-21 11:25:27 Date/Time: 2010-04-21 11:31:32

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.046 mW/g

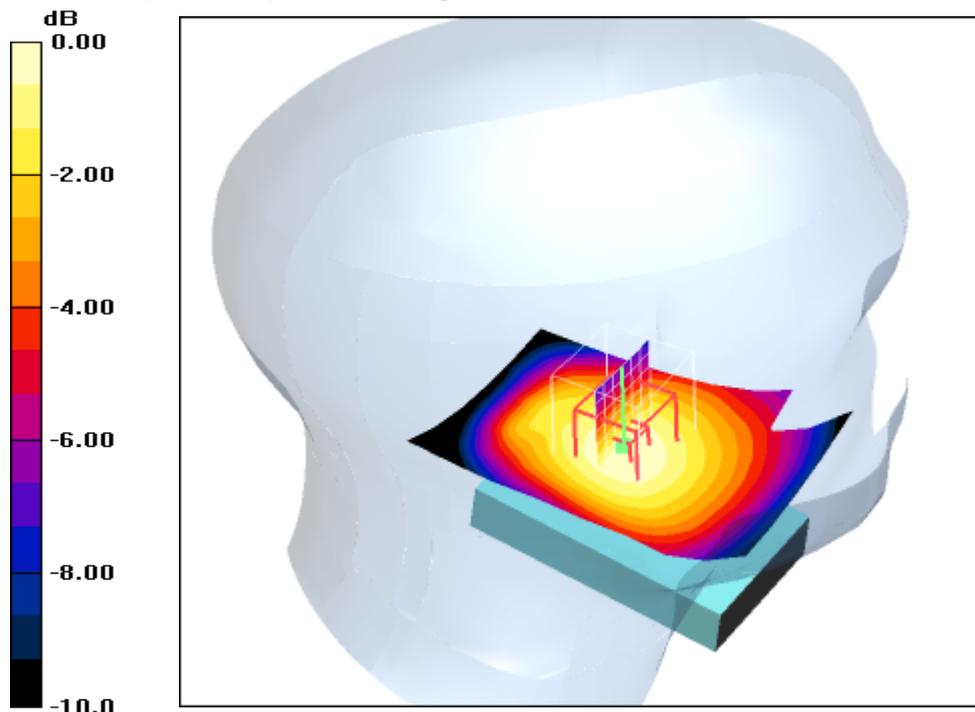
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.32 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.056 W/kg

SAR(1 g) = 0.044 mW/g; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.046 mW/g



0 dB = 0.046mW/g

Additional information:

ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-21 13:24:13 Date/Time: 2010-04-21 13:32:34

IEEE1528_OET65-LeftHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.138 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

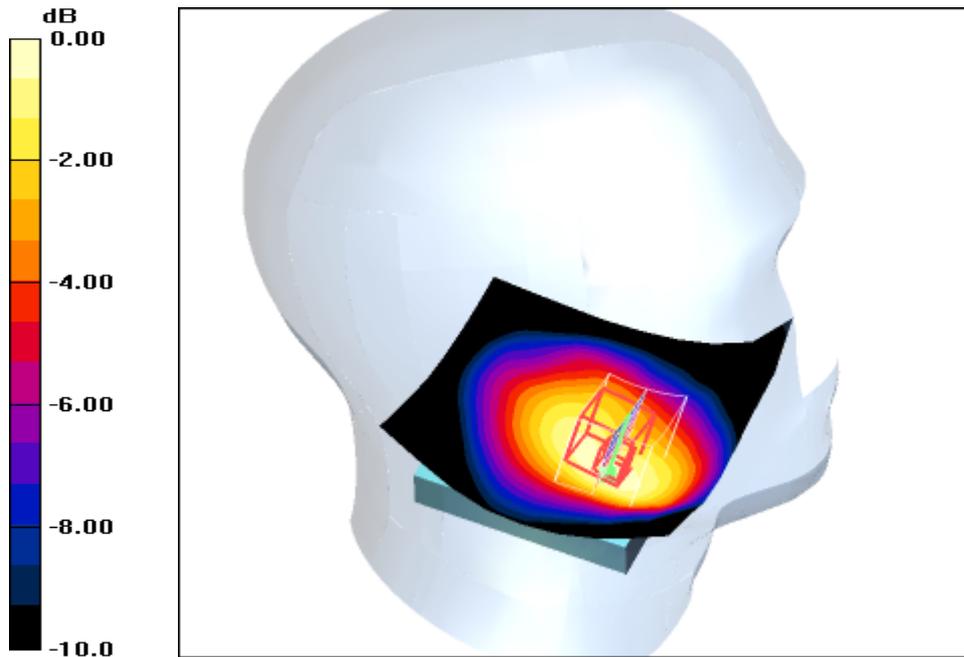
dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.4 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.209 W/kg

SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.090 mW/g

Maximum value of SAR (measured) = 0.144 mW/g



0 dB = 0.144mW/g

Additional information:

ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-21 13:00:52 Date/Time: 2010-04-21 13:09:12

IEEE1528_OET65-LeftHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

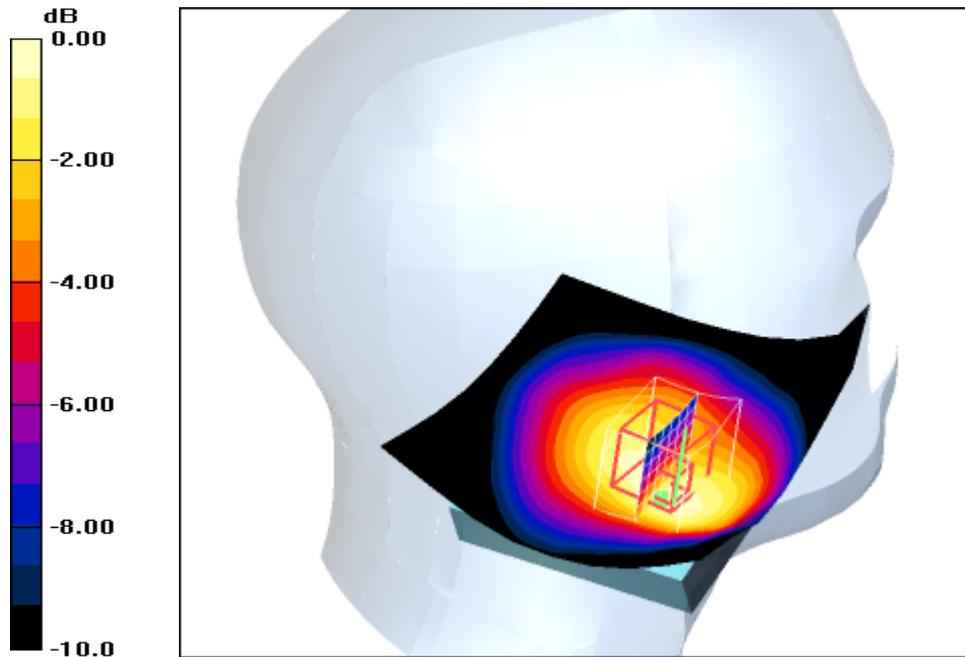
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.143 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 = 12.8 V/m; Power Drift = 0.062 dB
 Peak SAR (extrapolated) = 0.224 W/kg
SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.095 mW/g
 Maximum value of SAR (measured) = 0.150 mW/g



Additional information:
 ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-21 13:47:40 Date/Time: 2010-04-21 13:56:04

IEEE1528_OET65-LeftHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.165 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

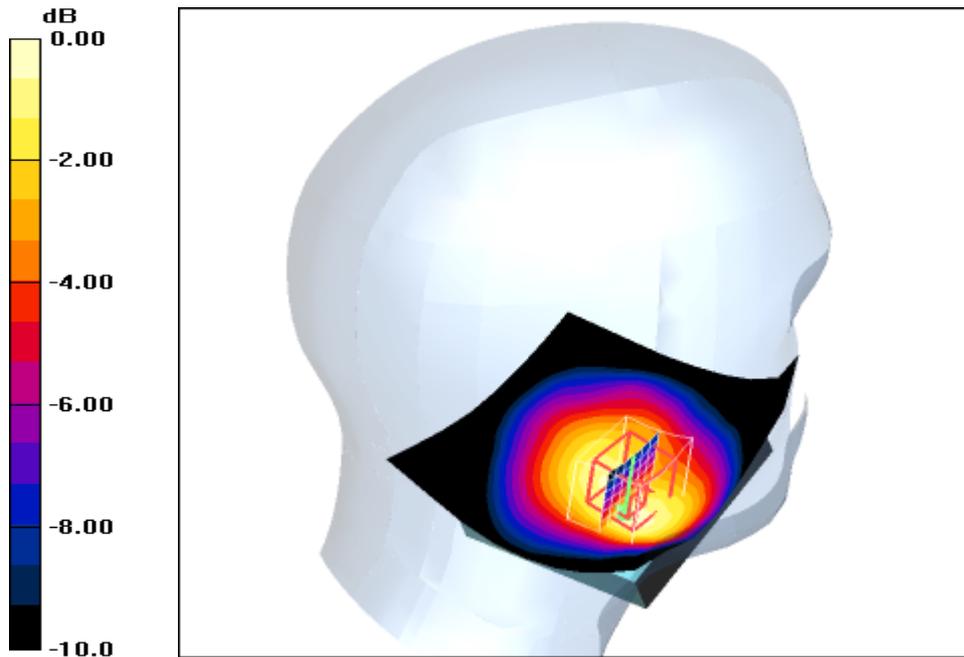
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.6 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.261 W/kg

SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.178 mW/g



0 dB = 0.178mW/g

Additional information:

ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-21 14:35:42 Date/Time: 2010-04-21 14:43:50

IEEE1528_OET65-LeftHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.054 mW/g

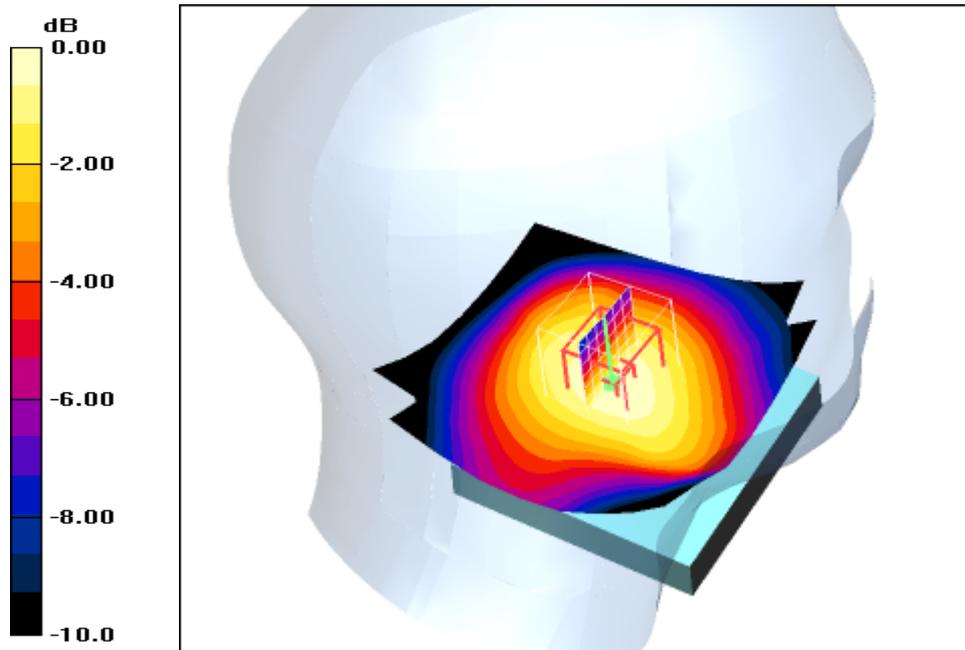
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.92 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 0.068 W/kg

SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.038 mW/g

Maximum value of SAR (measured) = 0.055 mW/g



0 dB = 0.055mW/g

Additional information:

ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-21 14:13:24 Date/Time: 2010-04-21 14:21:29

IEEE1528_OET65-LeftHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.058 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

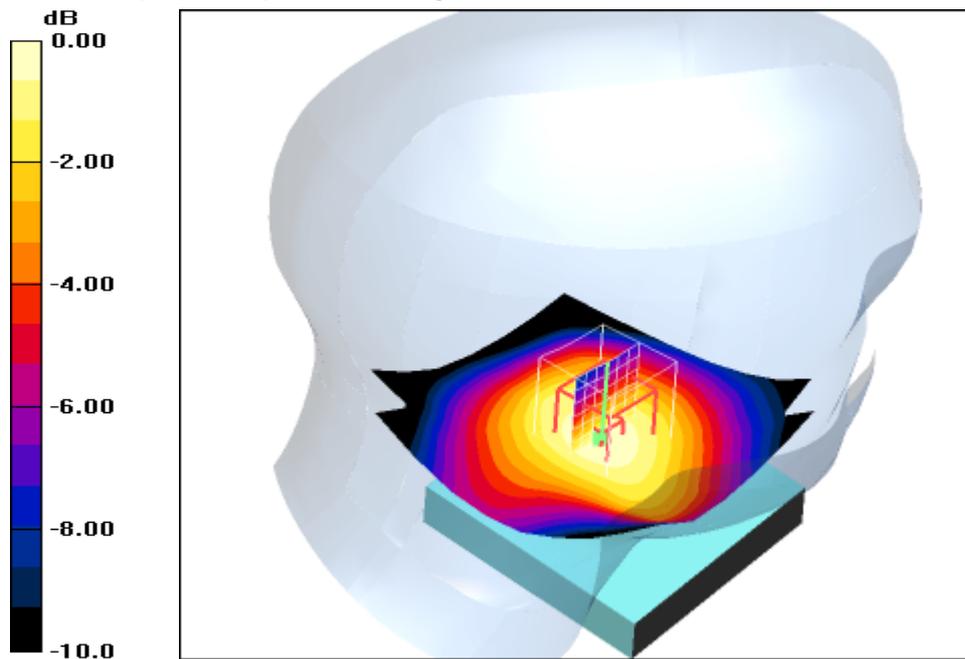
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.19 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 0.075 W/kg

SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.041 mW/g

Maximum value of SAR (measured) = 0.060 mW/g



0 dB = 0.060mW/g

Additional information:

ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-21 14:57:53 Date/Time: 2010-04-21 15:06:03

IEEE1528_OET65-LeftHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.063 mW/g

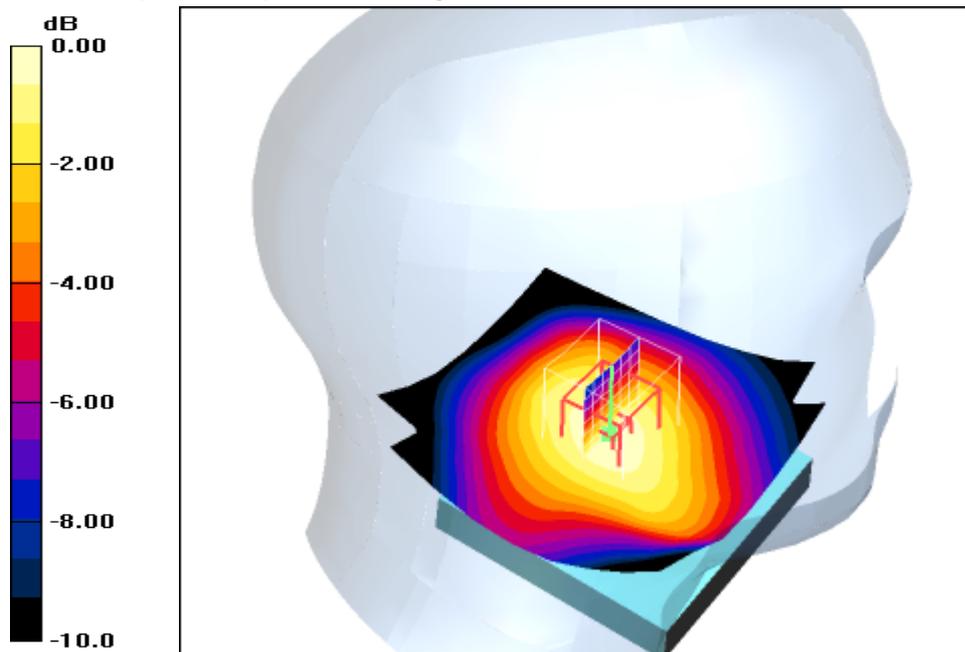
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.51 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.081 W/kg

SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.044 mW/g

Maximum value of SAR (measured) = 0.065 mW/g



0 dB = 0.065mW/g

Additional information:

ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 2010-04-20 20:13:50 Date/Time: 2010-04-20 20:20:04

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.049 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

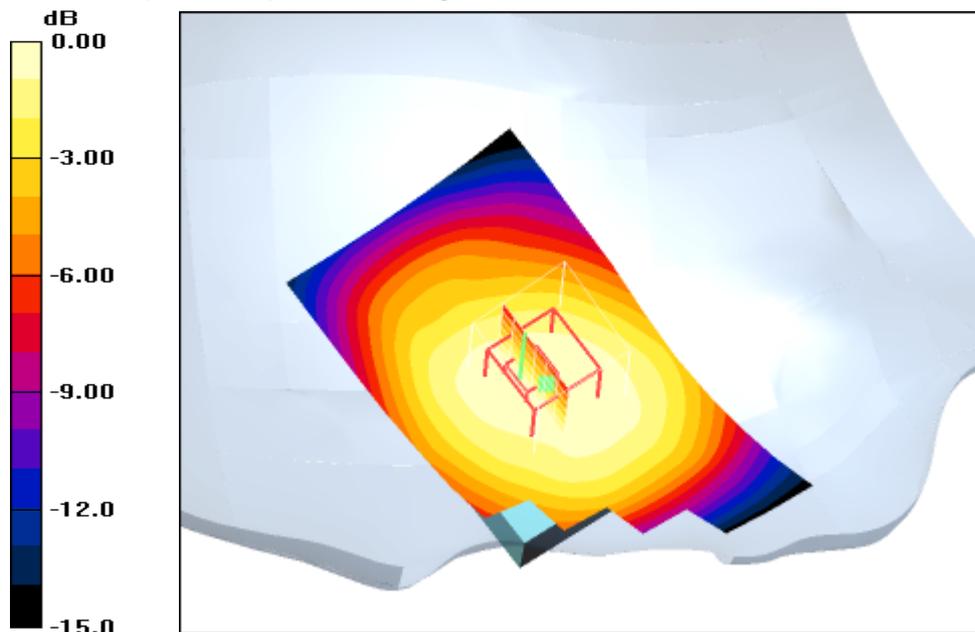
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.59 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 0.061 W/kg

SAR(1 g) = 0.048 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.051 mW/g



0 dB = 0.051mW/g

Additional information:

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

ambient temperature: 22.7°C; liquid temperature: 22.8°C

Date/Time: 2010-04-20 20:42:57 Date/Time: 2010-04-20 20:49:14 Date/Time: 2010-04-20 21:01:02

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

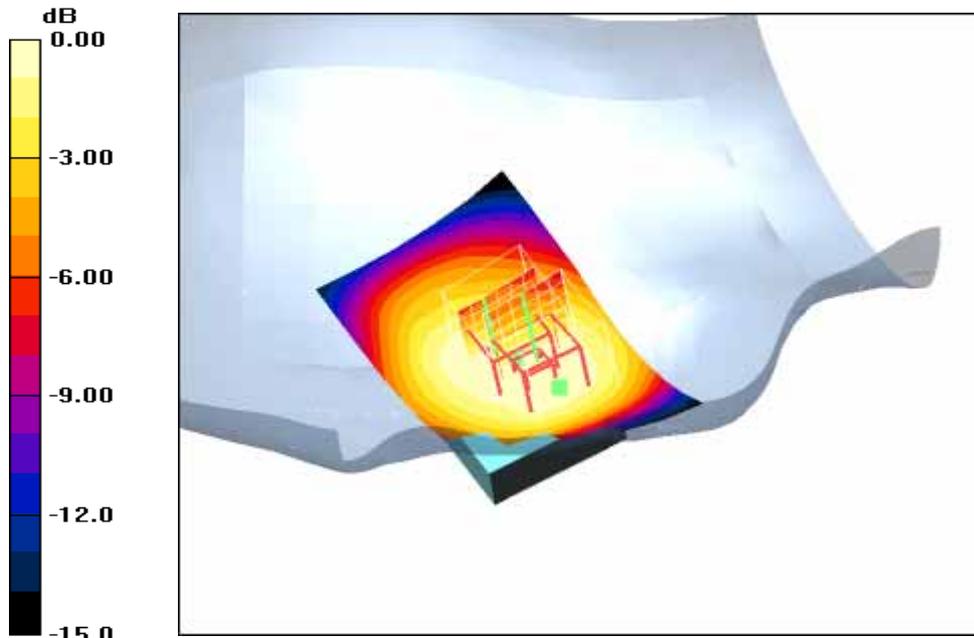
DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.057 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 = 8.20 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 0.071 W/kg
SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.042 mW/g
 Maximum value of SAR (measured) = 0.059 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 = 8.20 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 0.062 W/kg
SAR(1 g) = 0.051 mW/g; SAR(10 g) = 0.039 mW/g
 Maximum value of SAR (measured) = 0.055 mW/g



0 dB = 0.055mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :
 ambient temperature: 22.7°C; liquid temperature: 22.8°C

Date/Time: 2010-04-20 21:42:18 Date/Time: 2010-04-20 21:50:02

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.059 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

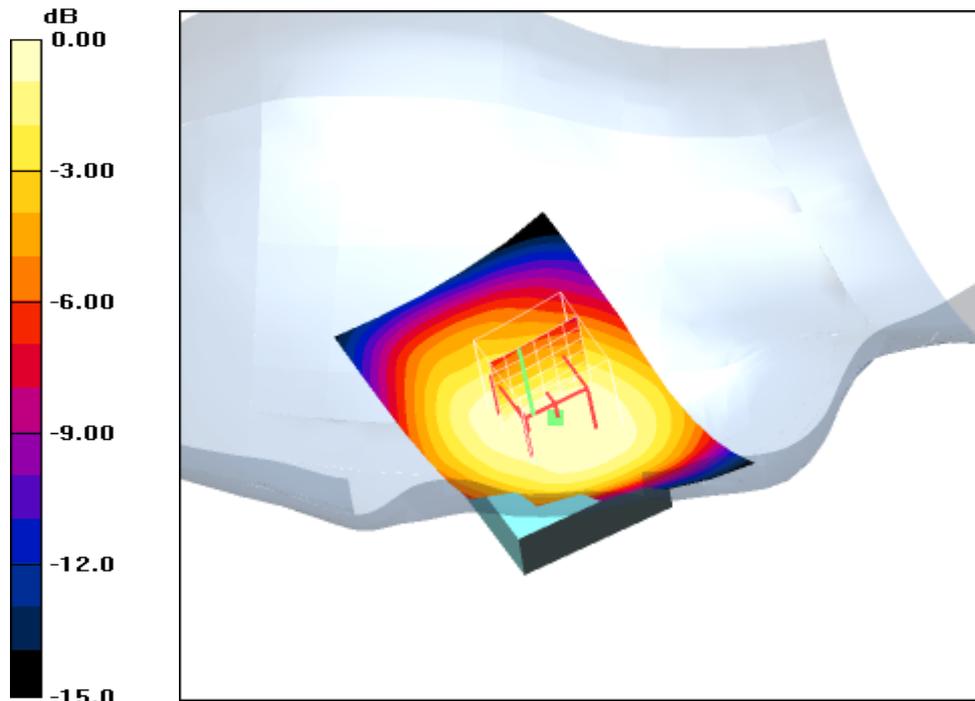
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.31 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.071 W/kg

SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.043 mW/g

Maximum value of SAR (measured) = 0.059 mW/g



0 dB = 0.059mW/g

Additional information:

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

ambient temperature: 22.7°C; liquid temperature: 22.8°C

Date/Time: 2010-04-21 08:27:58 Date/Time: 2010-04-21 08:34:03 Date/Time: 2010-04-21 08:46:02

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.032 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 = 6.06 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.038 W/kg

SAR(1 g) = 0.031 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.032 mW/g

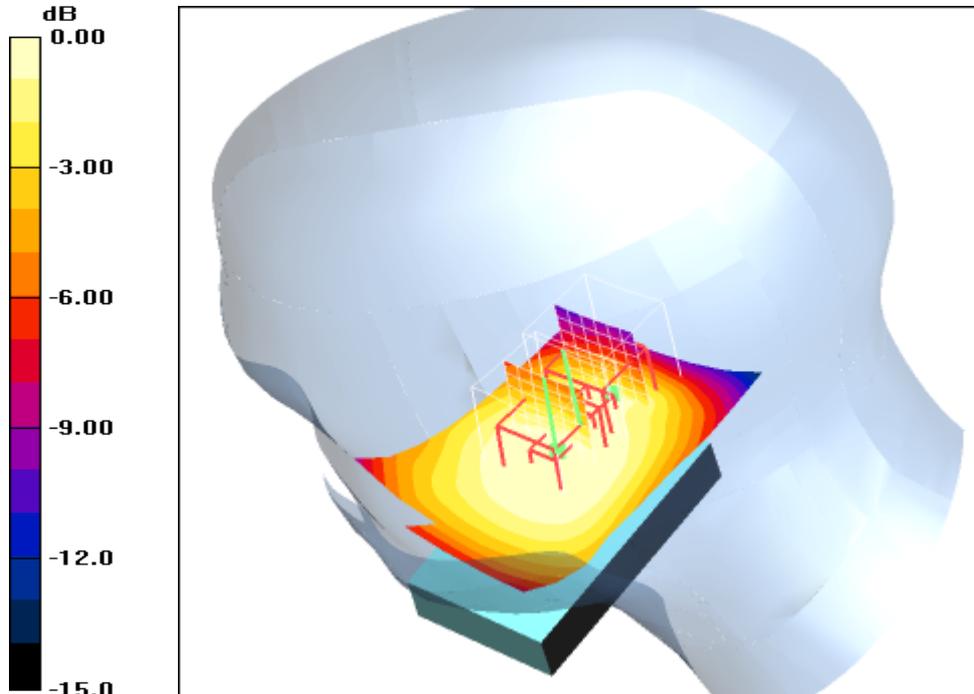
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.06 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.031 W/kg

SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.015 mW/g

Maximum value of SAR (measured) = 0.026 mW/g



0 dB = 0.026mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.6°C

Date/Time: 2010-04-21 09:00:01 Date/Time: 2010-04-21 09:06:07 Date/Time: 2010-04-21 09:17:30

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.037 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 = 6.53 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.045 W/kg

SAR(1 g) = 0.036 mW/g; SAR(10 g) = 0.026 mW/g

Maximum value of SAR (measured) = 0.037 mW/g

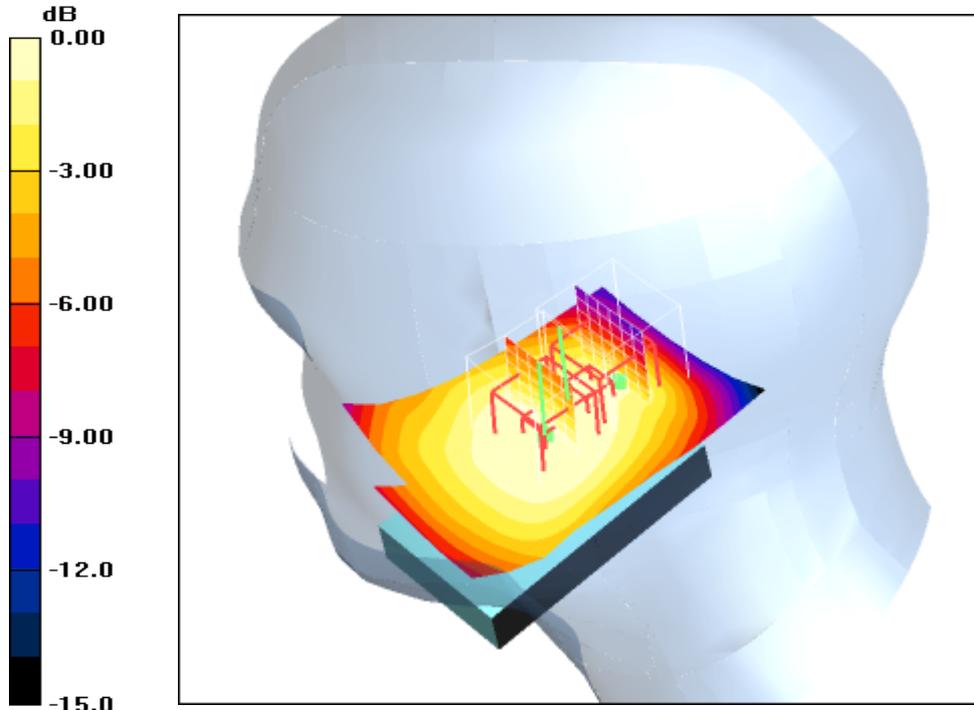
Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.53 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.039 W/kg

SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.031 mW/g



0 dB = 0.031mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.6°C

Date/Time: 2010-04-21 09:56:03 Date/Time: 2010-04-21 10:02:12 Date/Time: 2010-04-21 10:14:06

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.044 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 = 7.21 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.054 W/kg

SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.045 mW/g

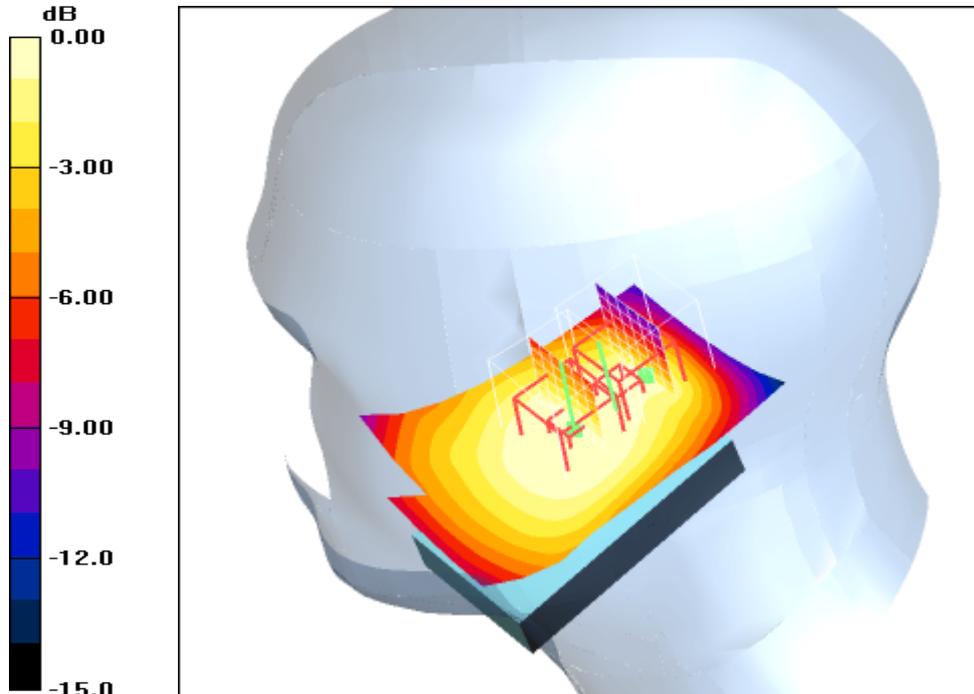
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.21 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.052 W/kg

SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.022 mW/g

Maximum value of SAR (measured) = 0.038 mW/g



0 dB = 0.038mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.6°C

Date/Time: 2010-04-20 17:54:45 Date/Time: 2010-04-20 18:02:40

IEEE1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn477; Calibrated: 2009-05-14

- 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 (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.120 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

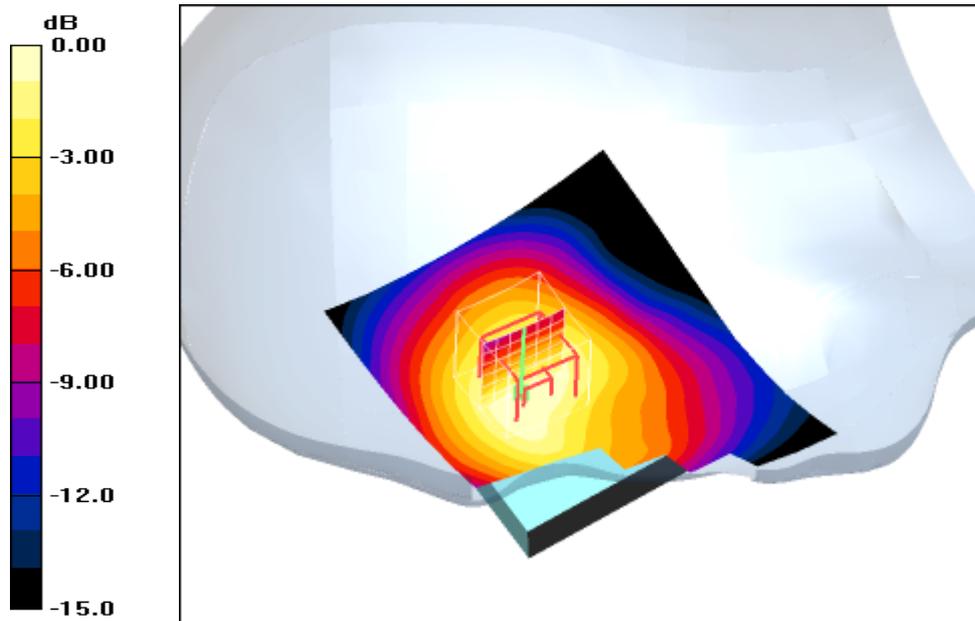
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.5 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.162 W/kg

SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.119 mW/g



0 dB = 0.119mW/g

Additional information:

ambient temperature: 22.7°C; liquid temperature: 22.8°C

Date/Time: 2010-04-20 17:31:59 Date/Time: 2010-04-20 17:39:52

IEEE1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.139 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

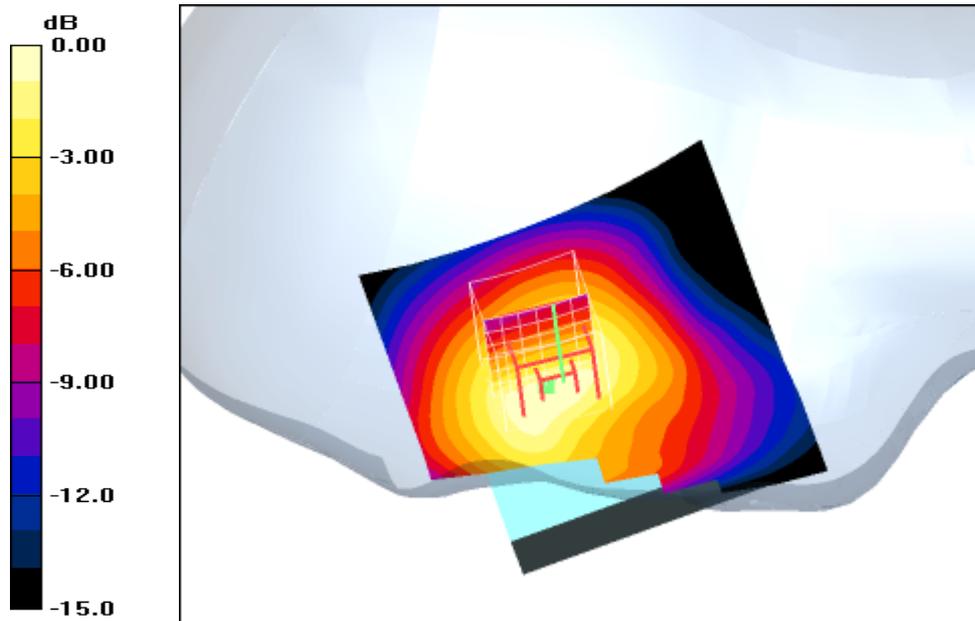
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.4 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.134 mW/g; SAR(10 g) = 0.090 mW/g

Maximum value of SAR (measured) = 0.143 mW/g



0 dB = 0.143mW/g

Additional information:

ambient temperature: 22.7°C; liquid temperature: 22.8°C

Date/Time: 2010-04-20 18:18:13 Date/Time: 2010-04-20 18:26:16

IEEE1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.159 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

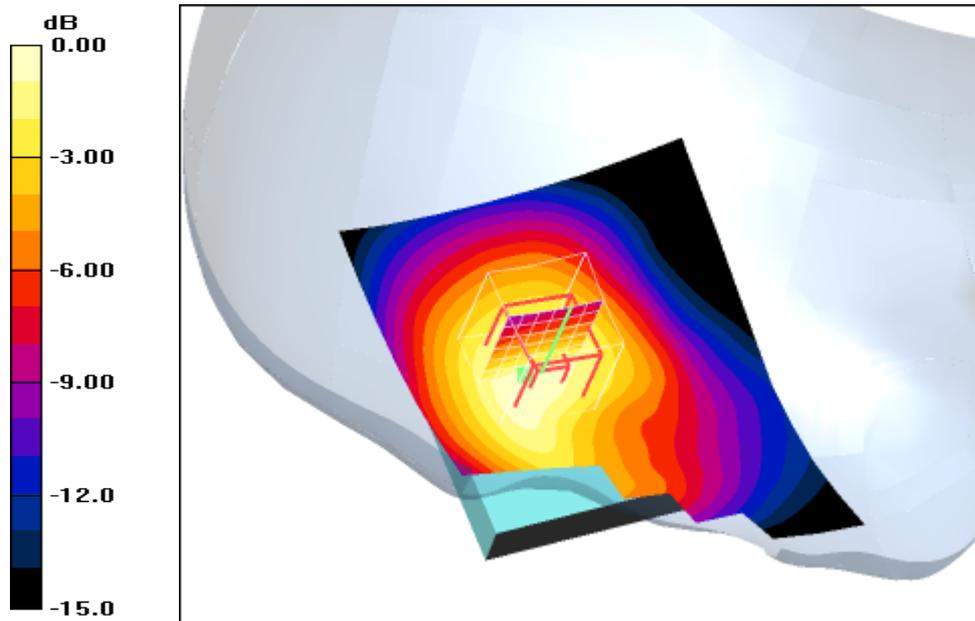
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.2 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.102 mW/g

Maximum value of SAR (measured) = 0.163 mW/g



0 dB = 0.163mW/g

Additional information:

ambient temperature: 22.7°C; liquid temperature: 22.8°C

Date/Time: 2010-04-20 19:48:23 Date/Time: 2010-04-20 19:56:45

IEEE1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.053 mW/g

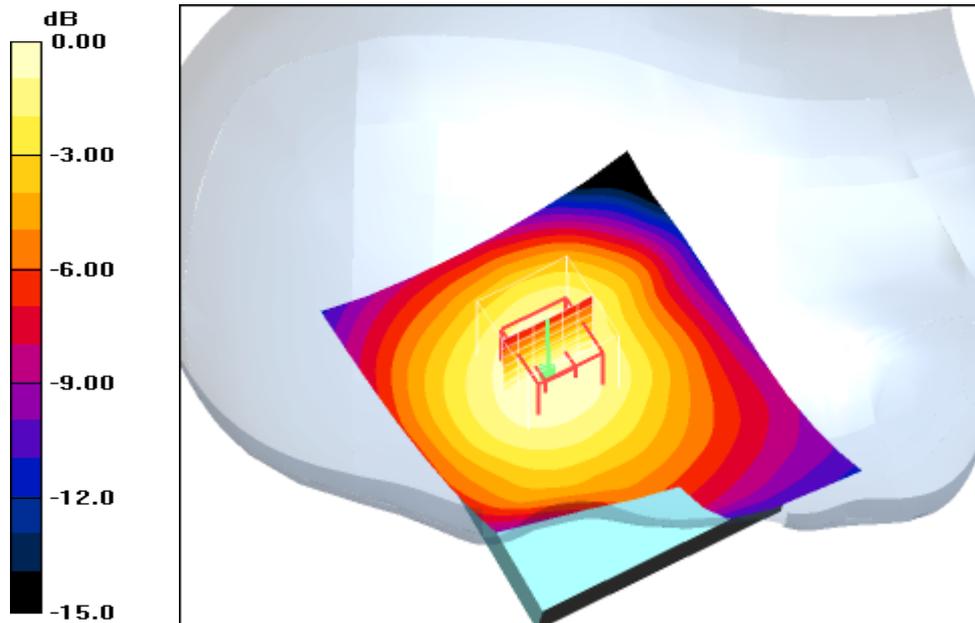
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.89 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.064 W/kg

SAR(1 g) = 0.051 mW/g; SAR(10 g) = 0.037 mW/g

Maximum value of SAR (measured) = 0.053 mW/g



0 dB = 0.053mW/g

Additional information:

ambient temperature: 22.7°C; liquid temperature: 22.8°C

Date/Time: 2010-04-20 19:25:08 Date/Time: 2010-04-20 19:33:25

IEEE1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.061 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

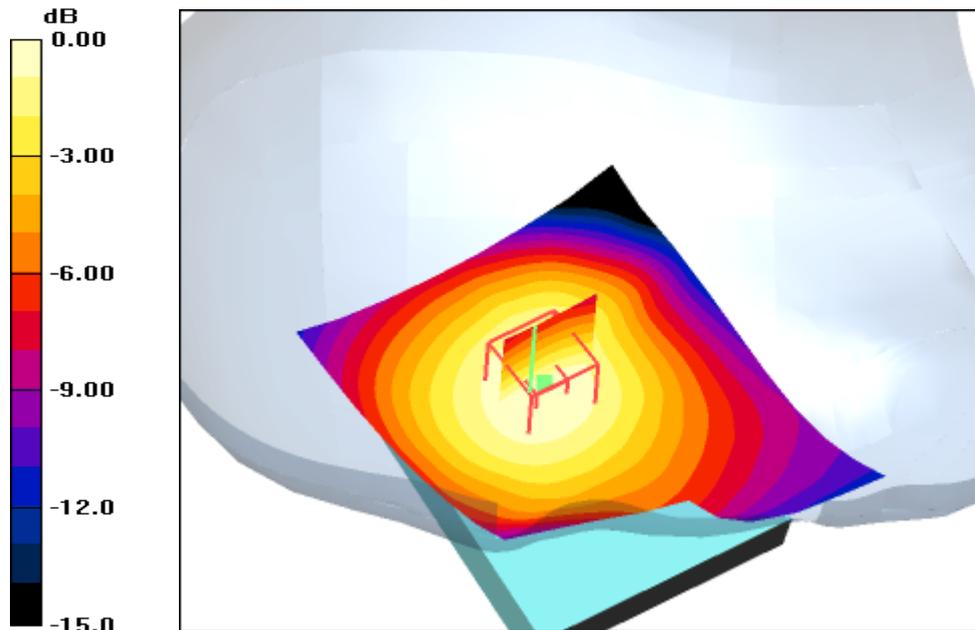
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.54 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.076 W/kg

SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.043 mW/g

Maximum value of SAR (measured) = 0.062 mW/g



0 dB = 0.062mW/g

Additional information:

ambient temperature: 22.7°C; liquid temperature: 22.8°C

Date/Time: 2010-04-20 18:40:48 Date/Time: 2010-04-20 18:49:06

IEEE1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.4, 6.4, 6.4); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.074 mW/g

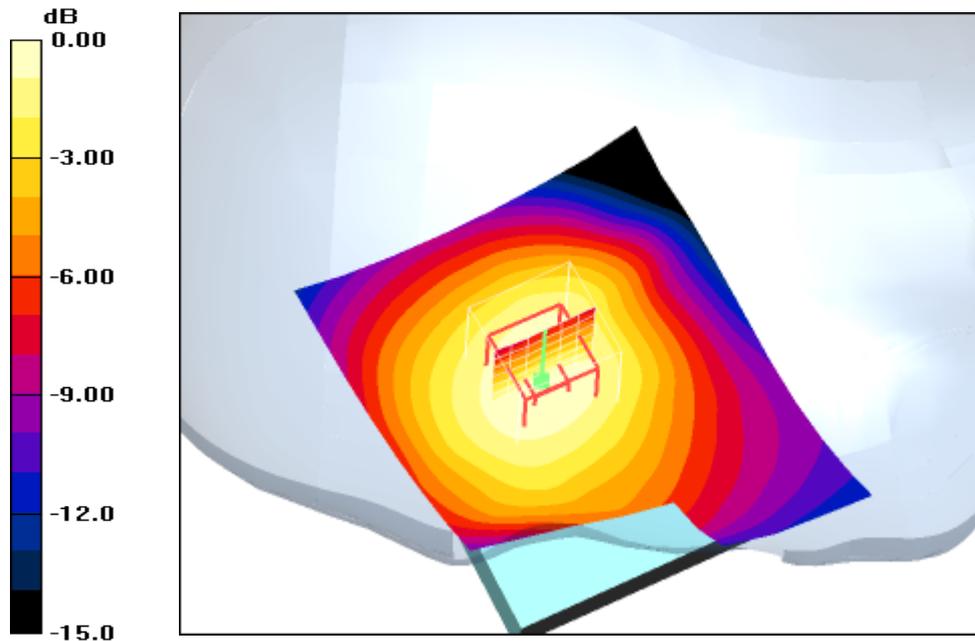
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.10 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.089 W/kg

SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.050 mW/g

Maximum value of SAR (measured) = 0.074 mW/g



0 dB = 0.074mW/g

Additional information:

ambient temperature: 22.7°C; liquid temperature: 22.8°C

Annex B.2: GSM 850MHz body

Date/Time: 2010-04-27 13:37:46 Date/Time: 2010-04-27 13:43:23

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 850 GPRS 2TS; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

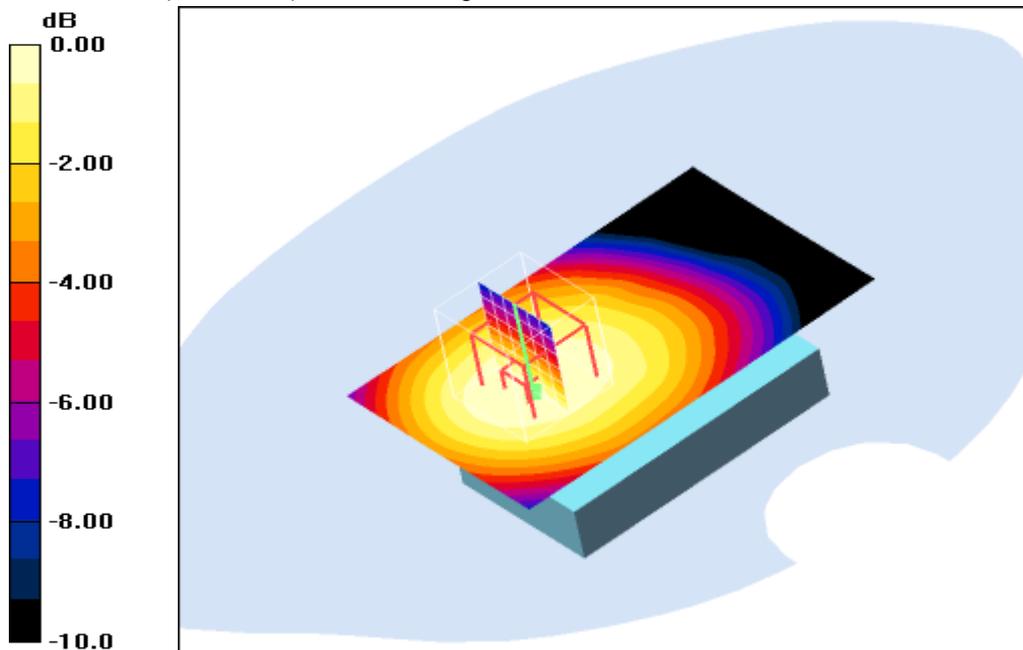
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.2, 6.2, 6.2); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.018 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 = 4.04 V/m; Power Drift = -0.028 dB
 Peak SAR (extrapolated) = 0.023 W/kg
SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.013 mW/g
 Maximum value of SAR (measured) = 0.018 mW/g



0 dB = 0.018mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.9°C; liquid temperature: 22.8°C

Date/Time: 2010-04-27 13:57:51 Date/Time: 2010-04-27 14:20:33

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 850 GPRS 2TS; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.2, 6.2, 6.2); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.025 mW/g

Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

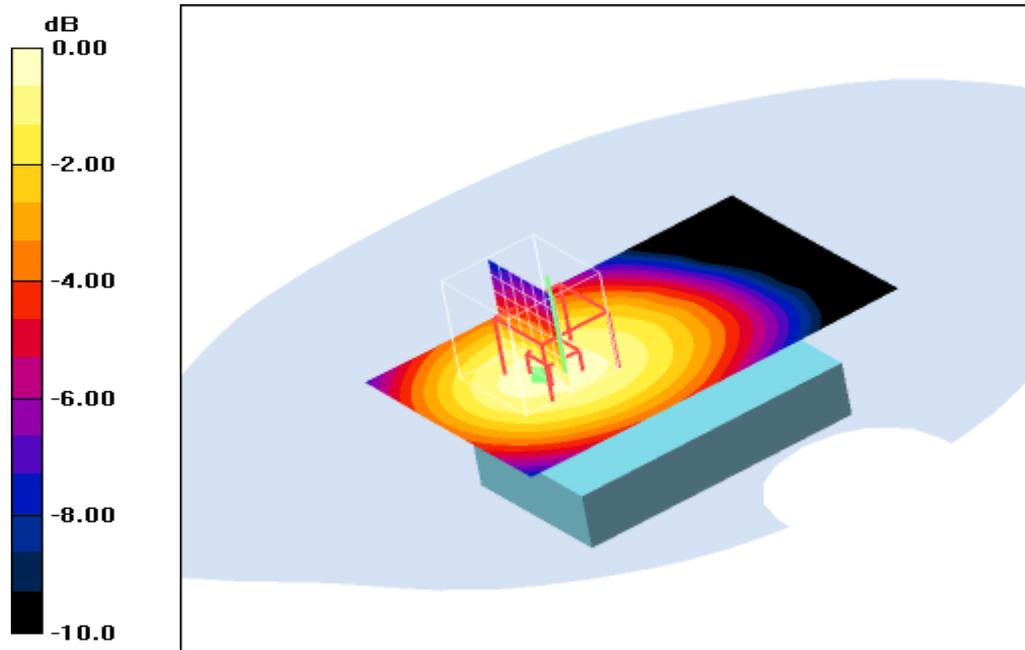
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.17 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 0.032 W/kg

SAR(1 g) = 0.026 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.027 mW/g



0 dB = 0.027mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.9°C; liquid temperature: 22.8°C

Date/Time: 2010-04-27 14:54:01 Date/Time: 2010-04-27 15:09:45

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 850 GPRS 2TS; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.2, 6.2, 6.2); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.038 mW/g

Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

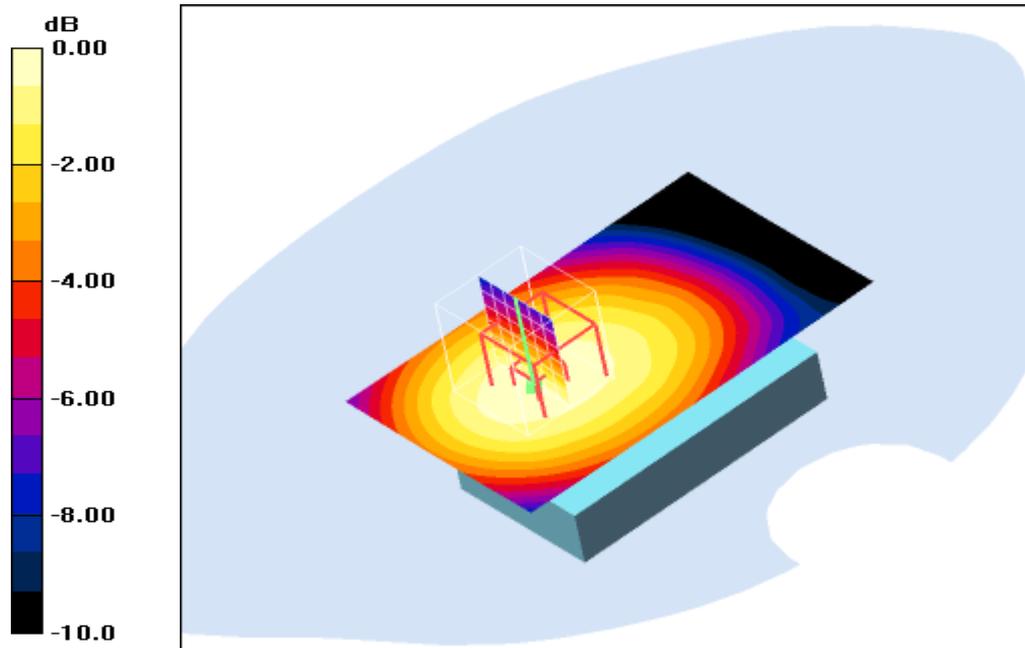
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.11 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 0.046 W/kg

SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.027 mW/g

Maximum value of SAR (measured) = 0.039 mW/g



Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.9°C; liquid temperature: 22.8°C

Date/Time: 2010-04-27 12:43:08 Date/Time: 2010-04-27 12:48:59

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 850 GPRS 2TS; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

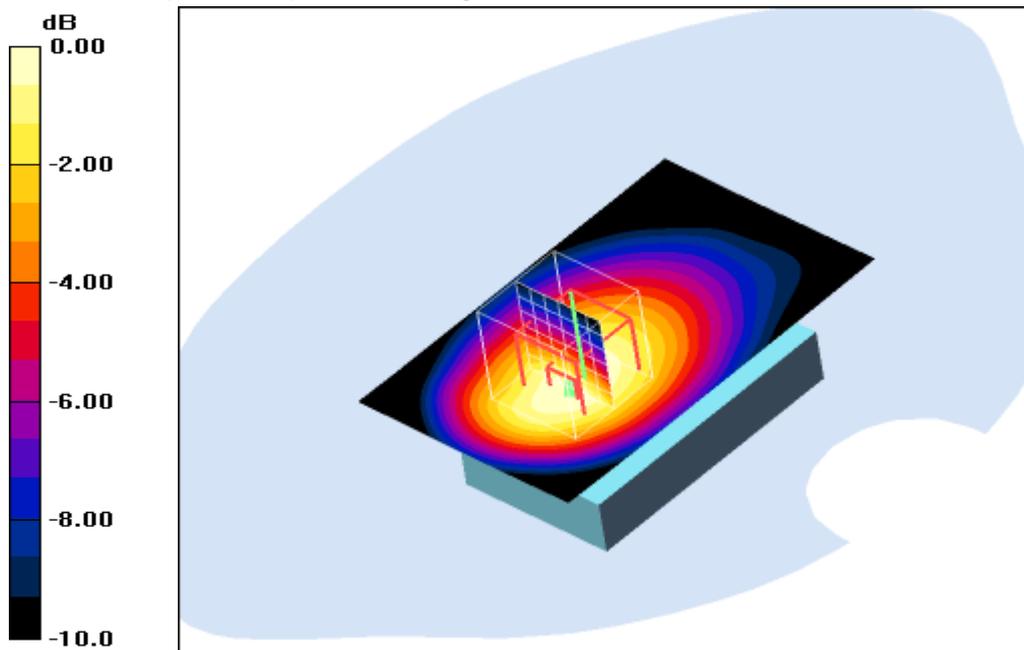
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.2, 6.2, 6.2); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.085 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 = 9.50 V/m; Power Drift = -0.047 dB
 Peak SAR (extrapolated) = 0.110 W/kg
SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.052 mW/g
 Maximum value of SAR (measured) = 0.082 mW/g



0 dB = 0.082mW/g

Additional information:

position or distance of DUT to SAM: 15 mm
 ambient temperature: 23.9°C; liquid temperature: 22.8°C

Date/Time: 2010-04-27 10:58:05 Date/Time: 2010-04-27 11:03:56

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 850 GPRS 2TS; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

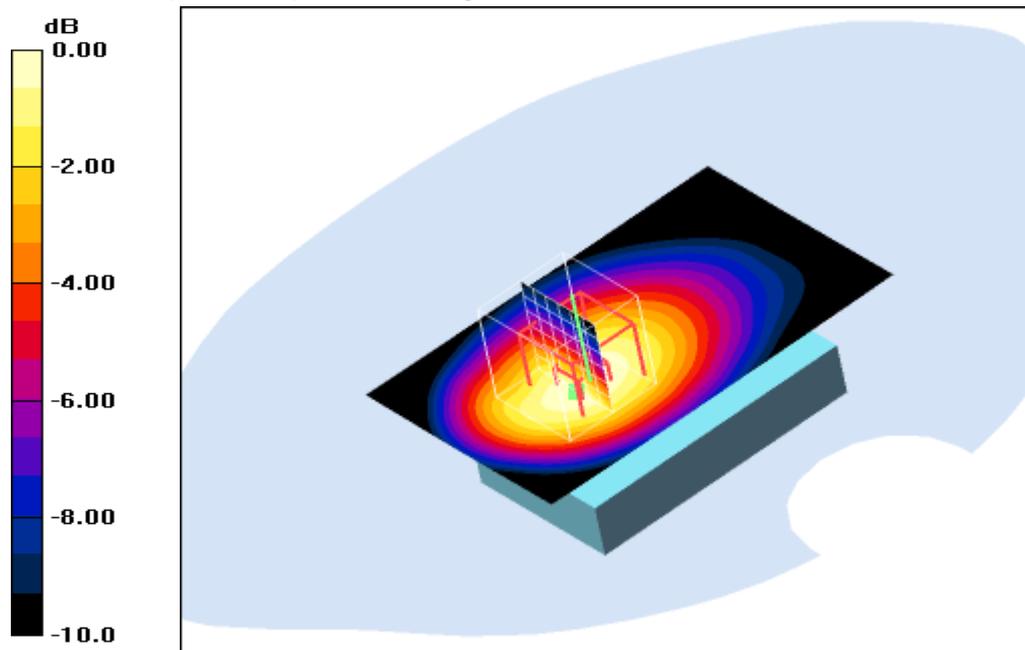
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.2, 6.2, 6.2); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.112 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 = 9.46 V/m; Power Drift = -0.030 dB
 Peak SAR (extrapolated) = 0.150 W/kg
SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.069 mW/g
 Maximum value of SAR (measured) = 0.112 mW/g



0 dB = 0.112mW/g

Additional information:

position or distance of DUT to SAM: 15 mm
 ambient temperature: 23.9°C; liquid temperature: 22.8°C

Date/Time: 2010-04-27 13:03:42 Date/Time: 2010-04-27 13:09:36

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 850 GPRS 2TS; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.2, 6.2, 6.2); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.160 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

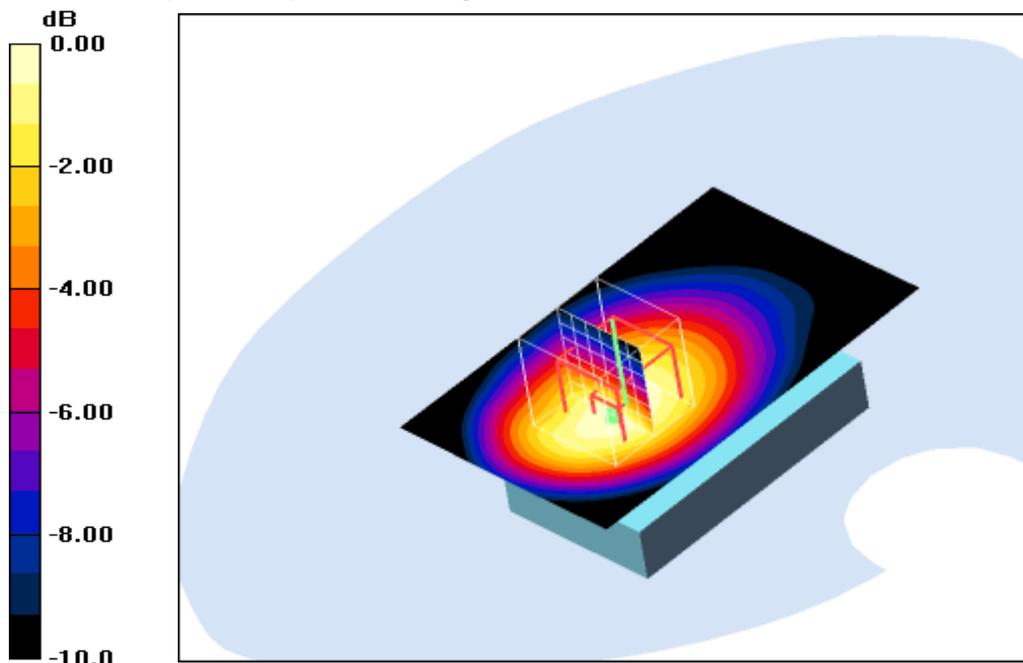
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.2 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 0.213 W/kg

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.098 mW/g

Maximum value of SAR (measured) = 0.159 mW/g



0 dB = 0.159mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.9°C; liquid temperature: 22.8°C

Date/Time: 2010-04-27 11:57:15 Date/Time: 2010-04-27 12:27:43

IEEE1528_OET65-Body-GSM850 GPRS 1TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

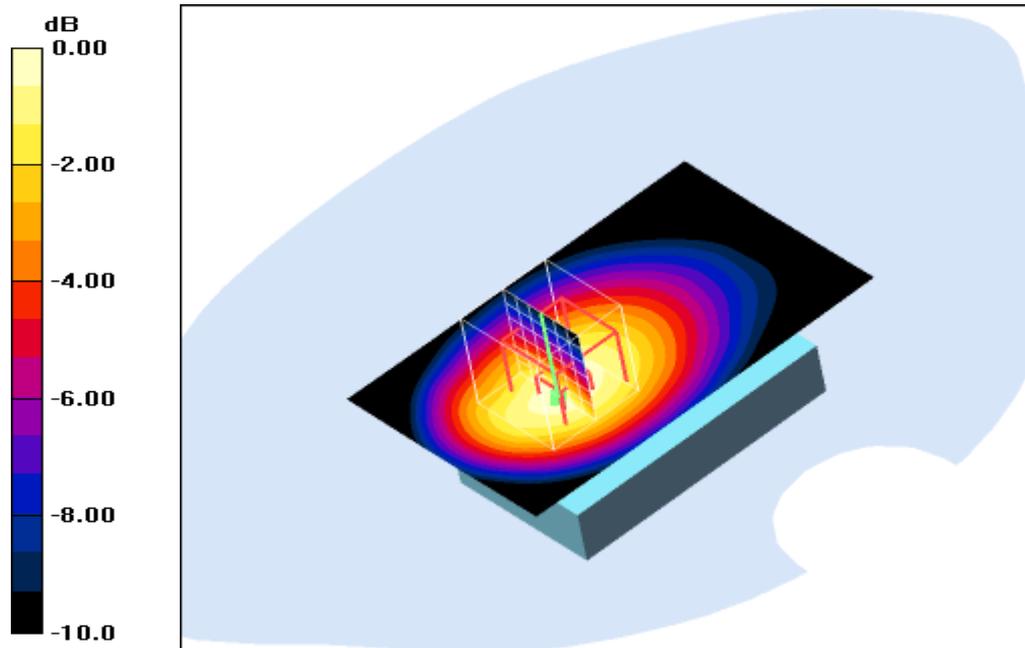
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.2, 6.2, 6.2); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.086 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 = 8.25 V/m; Power Drift = 0.011 dB
 Peak SAR (extrapolated) = 0.118 W/kg
SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.054 mW/g
 Maximum value of SAR (measured) = 0.089 mW/g



0 dB = 0.089mW/g

Additional information:

position or distance of DUT to SAM: 15 mm
 ambient temperature: 23.9°C; liquid temperature: 22.8°C

Date/Time: 2010-04-27 10:51:29 Date/Time: 2010-04-27 11:33:53

IEEE1528_OET65-Body-GSM850 GPRS 3TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: PCS 850 GPRS 3TS; Frequency: 836.6 MHz; Duty Cycle: 1:2.7

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

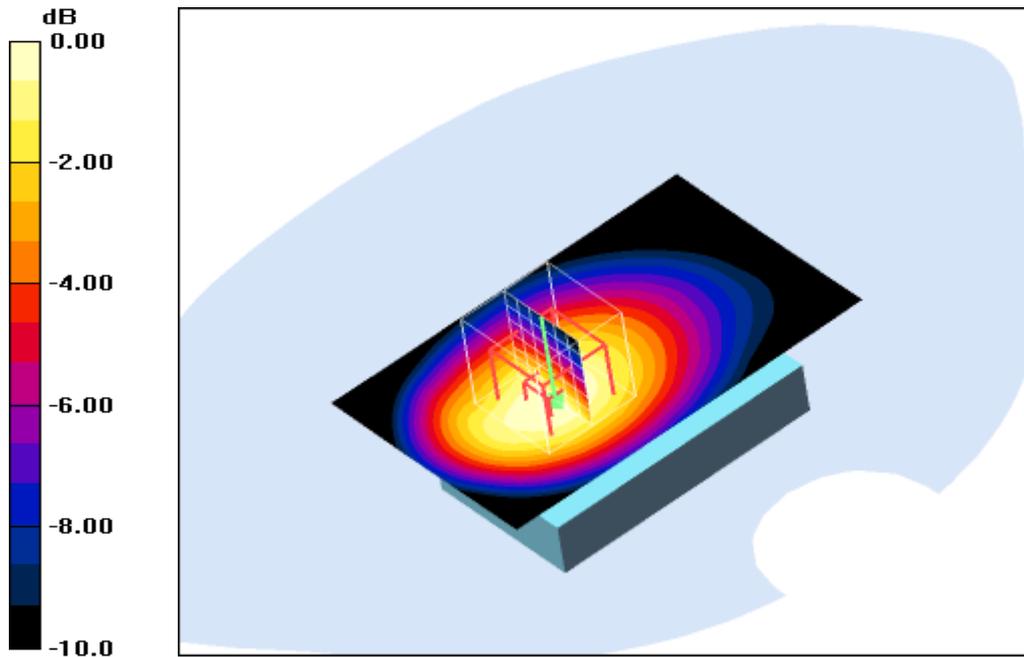
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.2, 6.2, 6.2); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.105 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 = 9.23 V/m; Power Drift = -0.162 dB
 Peak SAR (extrapolated) = 0.135 W/kg
SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.063 mW/g
 Maximum value of SAR (measured) = 0.103 mW/g



0 dB = 0.103mW/g

Additional information:

position or distance of DUT to SAM: 15 mm
 ambient temperature: 23.9°C; liquid temperature: 22.8°C

Date/Time: 2010-04-27 10:41:51 Date/Time: 2010-04-27 11:19:54

IEEE1528_OET65-Body-GSM850 GPRS 4TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: PCS 850 GPRS 4TS; Frequency: 836.6 MHz; Duty Cycle: 1:2

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

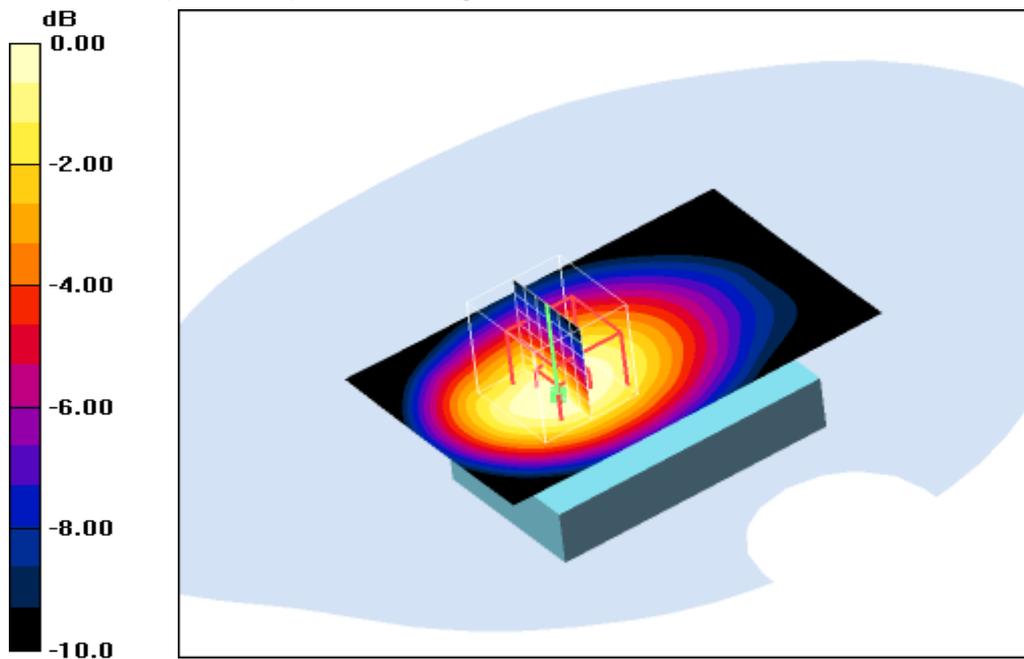
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(6.2, 6.2, 6.2); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.112 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 = 9.24 V/m; Power Drift = -0.086 dB
 Peak SAR (extrapolated) = 0.143 W/kg
SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.066 mW/g
 Maximum value of SAR (measured) = 0.107 mW/g



0 dB = 0.107mW/g

Additional information:

position or distance of DUT to SAM: 15 mm
 ambient temperature: 23.9°C; liquid temperature: 22.8°C

Annex B.3: GSM 1900MHz head

Date/Time: 2010-04-23 13:26:41 Date/Time: 2010-04-23 13:33:18

IEEE1528_OET65_EN62209-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.403 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 = 16.6 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.481 W/kg

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.222 mW/g

Maximum value of SAR (measured) = 0.376 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 = 16.6 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.452 W/kg

SAR(1 g) = 0.360 mW/g; SAR(10 g) = 0.238 mW/g

Maximum value of SAR (measured) = 0.391 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 2: Measurement grid:

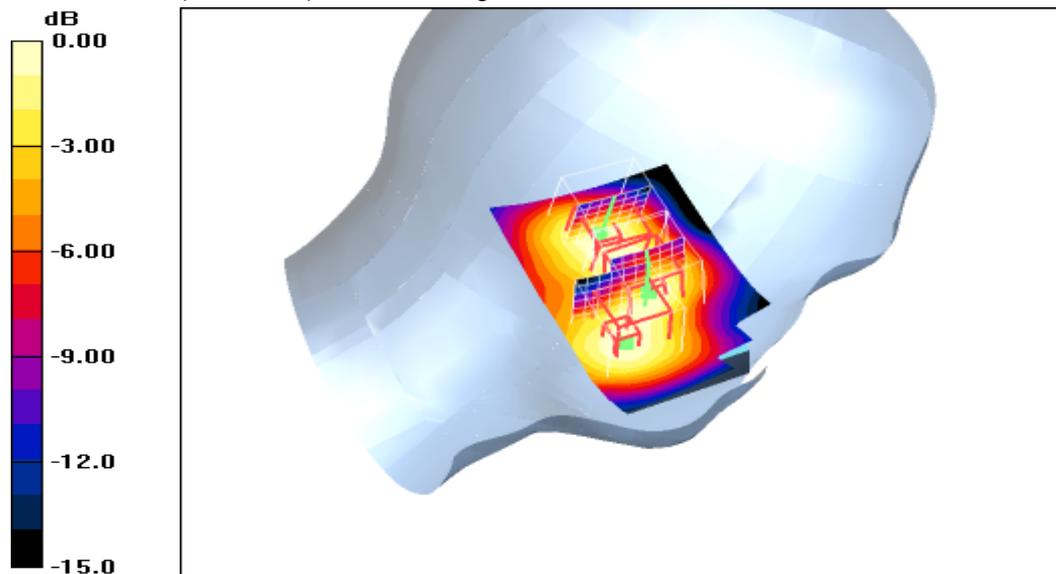
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.6 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.325 mW/g; SAR(10 g) = 0.209 mW/g

Maximum value of SAR (measured) = 0.364 mW/g



0 dB = 0.364mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.9°C

Date/Time: 2010-04-23 13:04:44 Date/Time: 2010-04-23 13:10:44

IEEE1528_OET65_EN62209-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.479 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

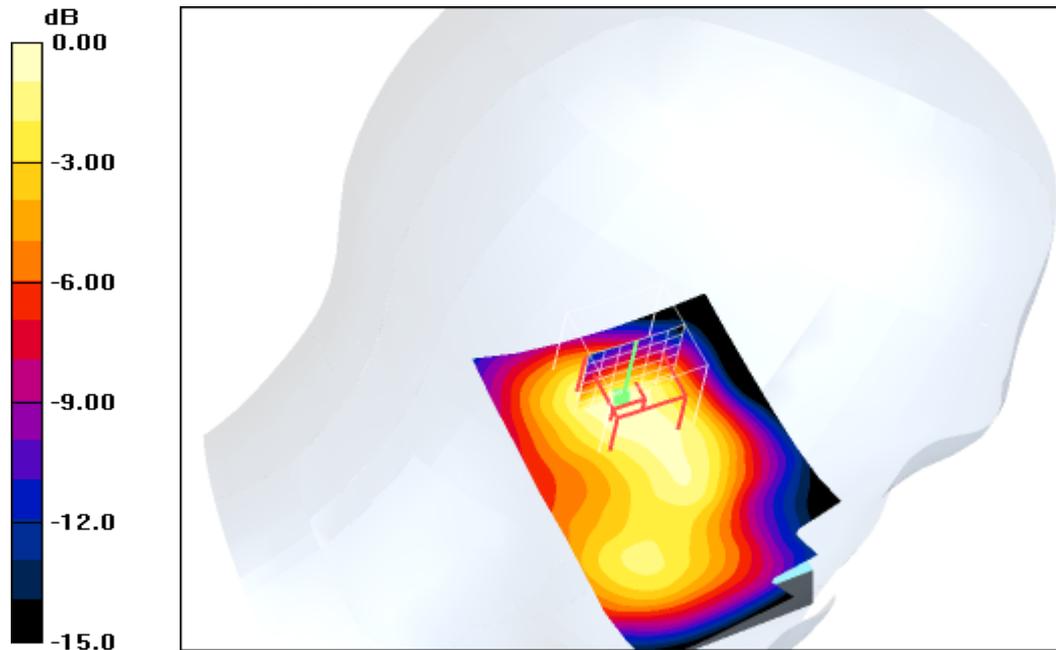
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.8 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.571 W/kg

SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.248 mW/g

Maximum value of SAR (measured) = 0.434 mW/g



0 dB = 0.434mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.9°C

Date/Time: 2010-04-23 14:14:30 Date/Time: 2010-04-23 14:20:33

IEEE1528_OET65_EN62209-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.503 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

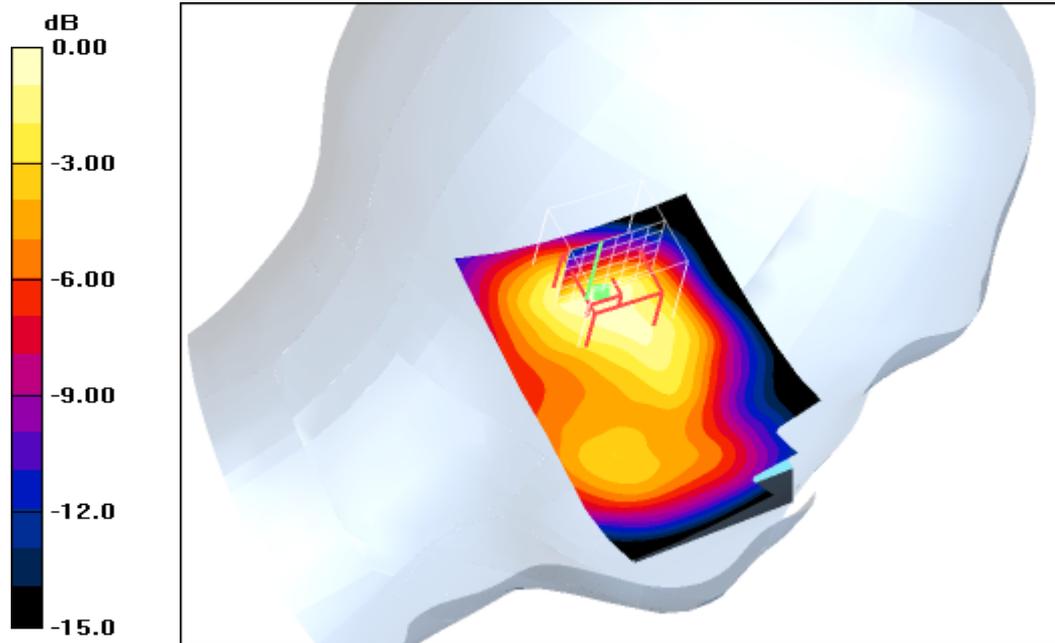
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.1 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.619 W/kg

SAR(1 g) = 0.409 mW/g; SAR(10 g) = 0.248 mW/g

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



0 dB = 0.450mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.9°C

Date/Time: 2010-04-23 15:15:38 Date/Time: 2010-04-23 15:21:57

IEEE1528_OET65_EN62209-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.688 mW/g

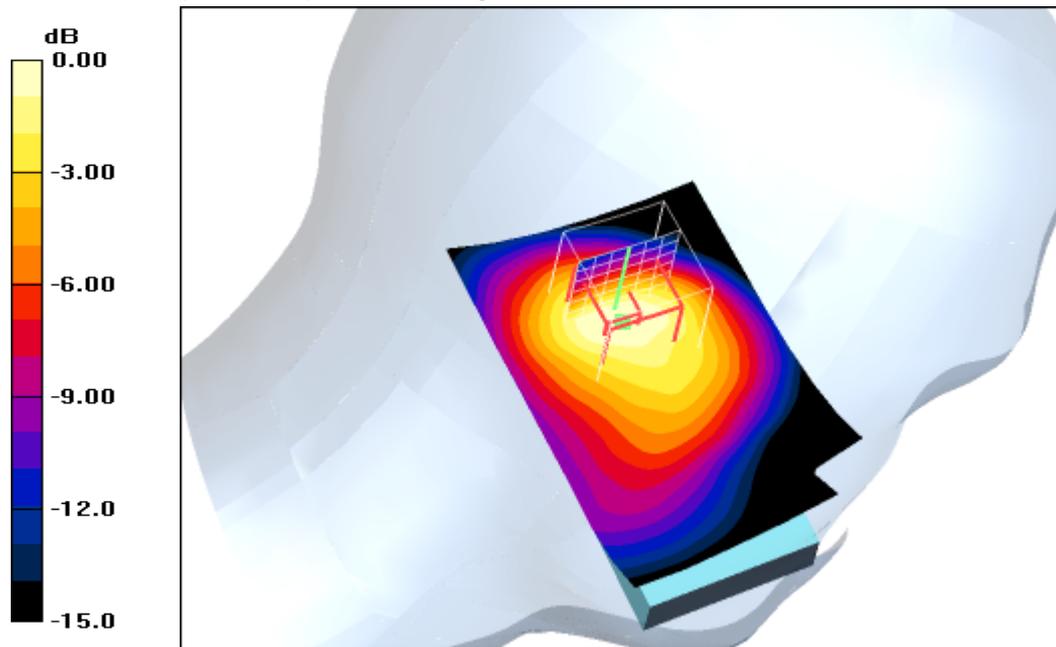
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.5 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 0.837 W/kg

SAR(1 g) = 0.563 mW/g; SAR(10 g) = 0.341 mW/g

Maximum value of SAR (measured) = 0.614 mW/g



0 dB = 0.614mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.9°C

Date/Time: 2010-04-23 14:55:09 Date/Time: 2010-04-23 15:01:31

IEEE1528_OET65_EN62209-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.814 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

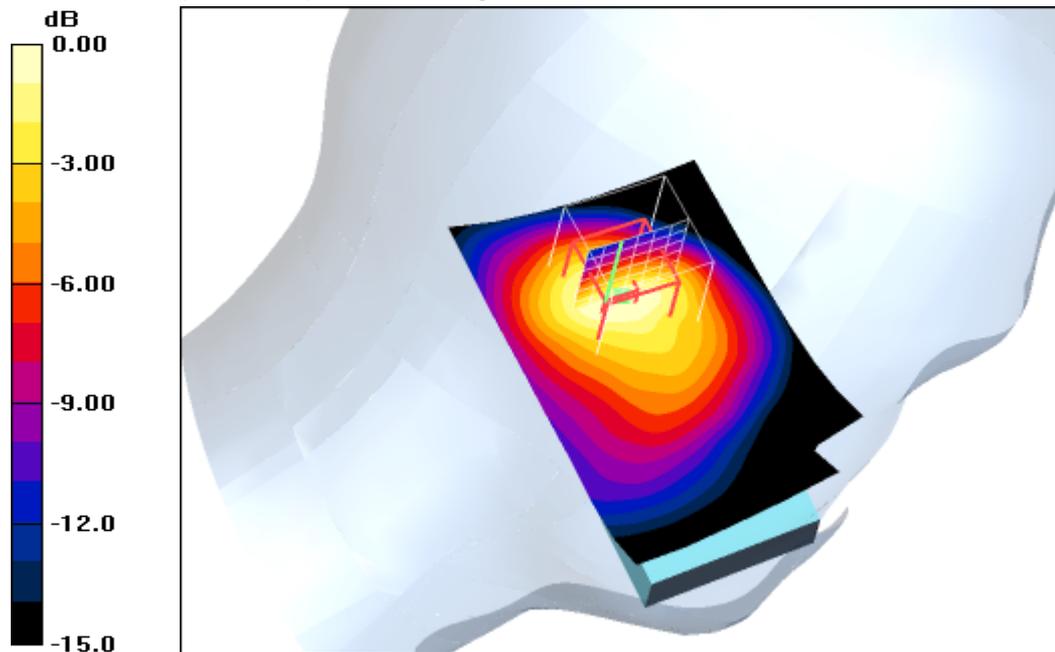
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.7 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.670 mW/g; SAR(10 g) = 0.390 mW/g

Maximum value of SAR (measured) = 0.721 mW/g



0 dB = 0.721mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.9°C

Date/Time: 2010-04-23 14:35:19 Date/Time: 2010-04-23 14:41:32

IEEE1528_OET65_EN62209-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.810 mW/g

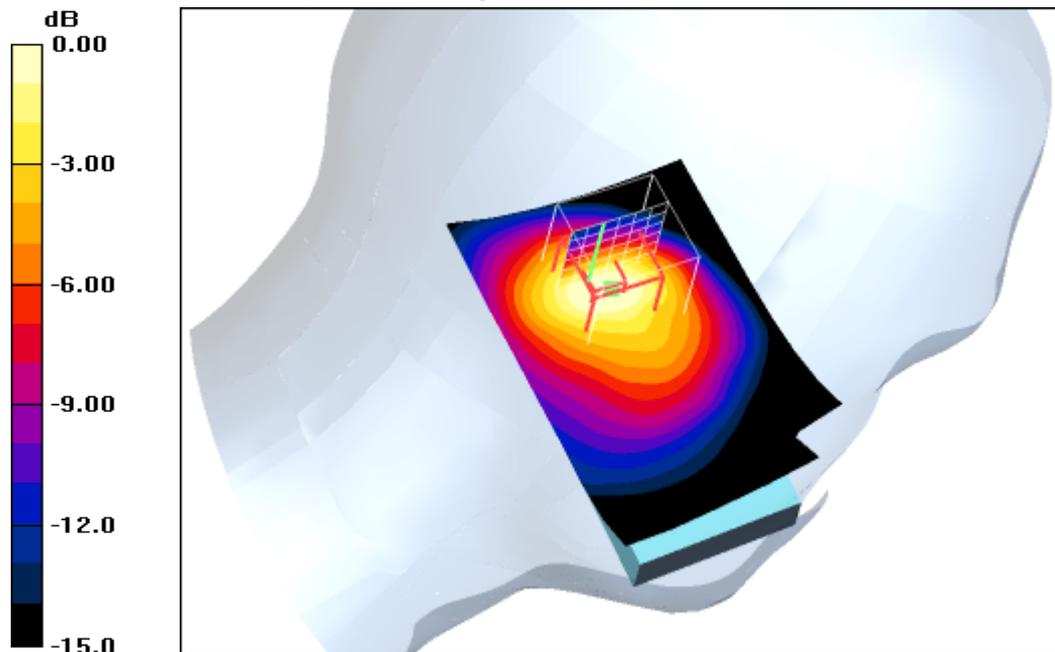
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.0 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.673 mW/g; SAR(10 g) = 0.381 mW/g

Maximum value of SAR (measured) = 0.736 mW/g



0 dB = 0.736mW/g

Additional information:

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

ambient temperature: 23.3°C; liquid temperature: 21.9°C

Date/Time: 2010-04-23 12:13:19 Date/Time: 2010-04-23 12:21:46

IEEE1528_OET65_EN62209-LeftHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

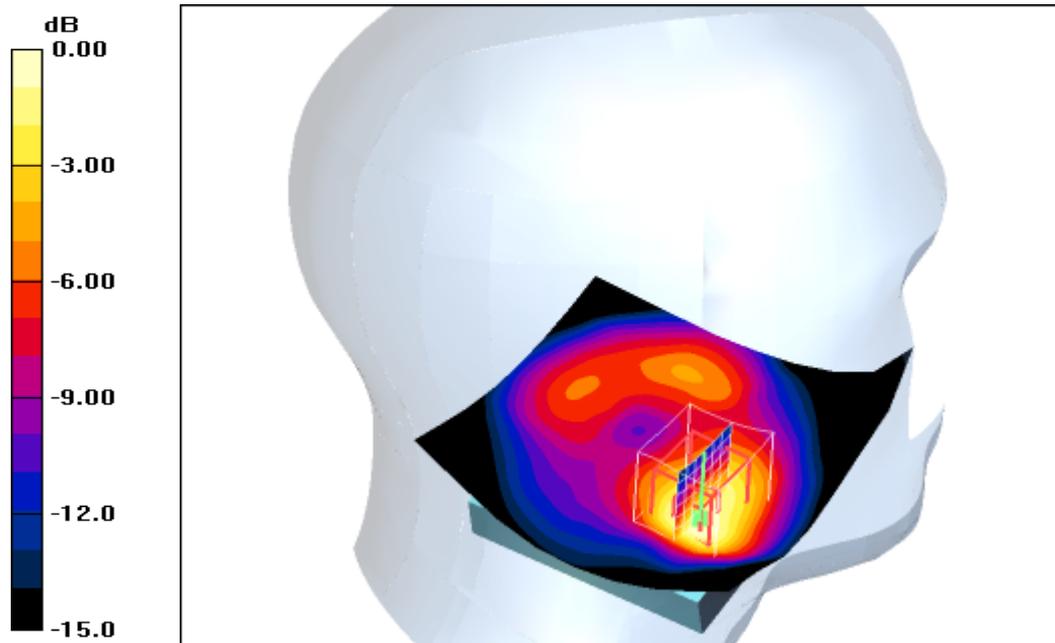
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 1.38 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 = 29.3 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 1.87 W/kg
SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.675 mW/g
 Maximum value of SAR (measured) = 1.30 mW/g



0 dB = 1.30mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.9°C

Date/Time: 2010-04-23 11:49:10 Date/Time: 2010-04-23 11:57:32

IEEE1528_OET65_EN62209-LeftHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

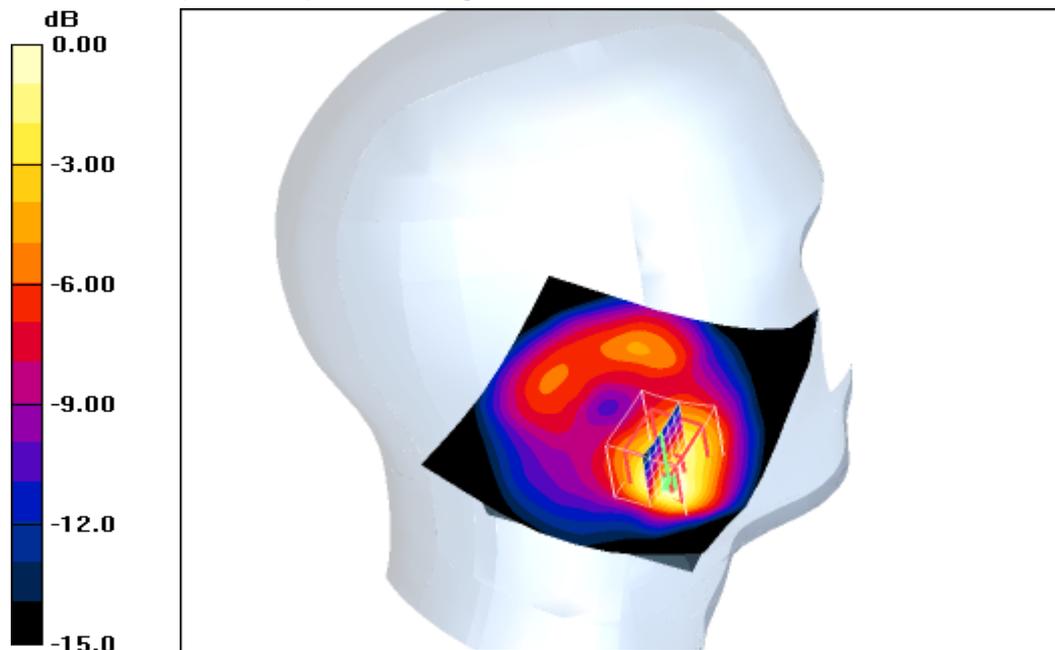
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.2 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.658 mW/g

Maximum value of SAR (measured) = 1.27 mW/g



0 dB = 1.27mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.9°C

Date/Time: 2010-04-23 12:37:09 Date/Time: 2010-04-23 12:45:36

IEEE1528_OET65_EN62209-LeftHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

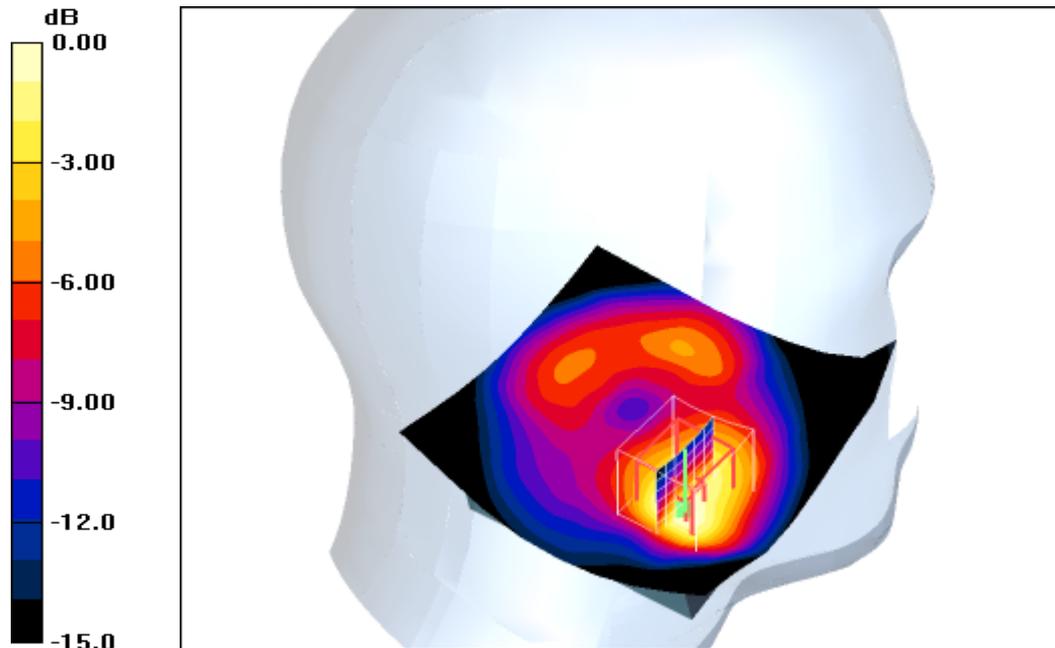
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 1.32 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 = 28.7 V/m; Power Drift = 0.016 dB
 Peak SAR (extrapolated) = 1.87 W/kg
SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.640 mW/g
 Maximum value of SAR (measured) = 1.24 mW/g



0 dB = 1.24mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.9°C

Date/Time: 2010-04-23 10:52:14 Date/Time: 2010-04-23 11:00:14

IEEE1528_OET65_EN62209-LeftHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

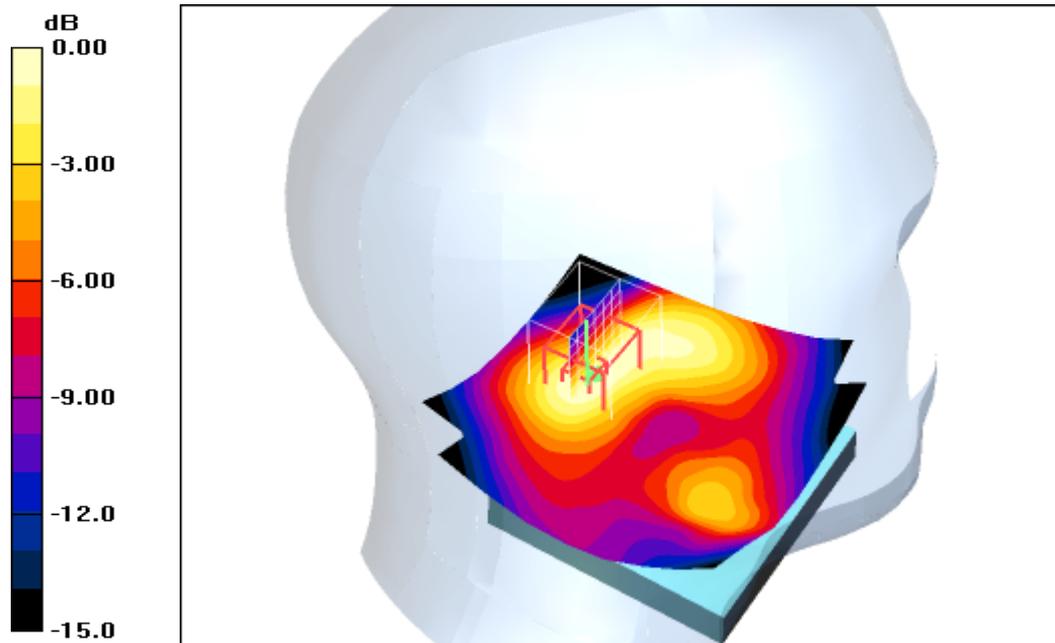
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.1 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.574 W/kg

SAR(1 g) = 0.376 mW/g; SAR(10 g) = 0.225 mW/g

Maximum value of SAR (measured) = 0.411 mW/g



0 dB = 0.411mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.9°C

Date/Time: 2010-04-23 10:19:20 Date/Time: 2010-04-23 10:27:19 Date/Time: 2010-04-23 10:38:42

IEEE1528_OET65_EN62209-LeftHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.376 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 = 0.190 dB

Peak SAR (extrapolated) = 0.533 W/kg

SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.205 mW/g

Maximum value of SAR (measured) = 0.378 mW/g

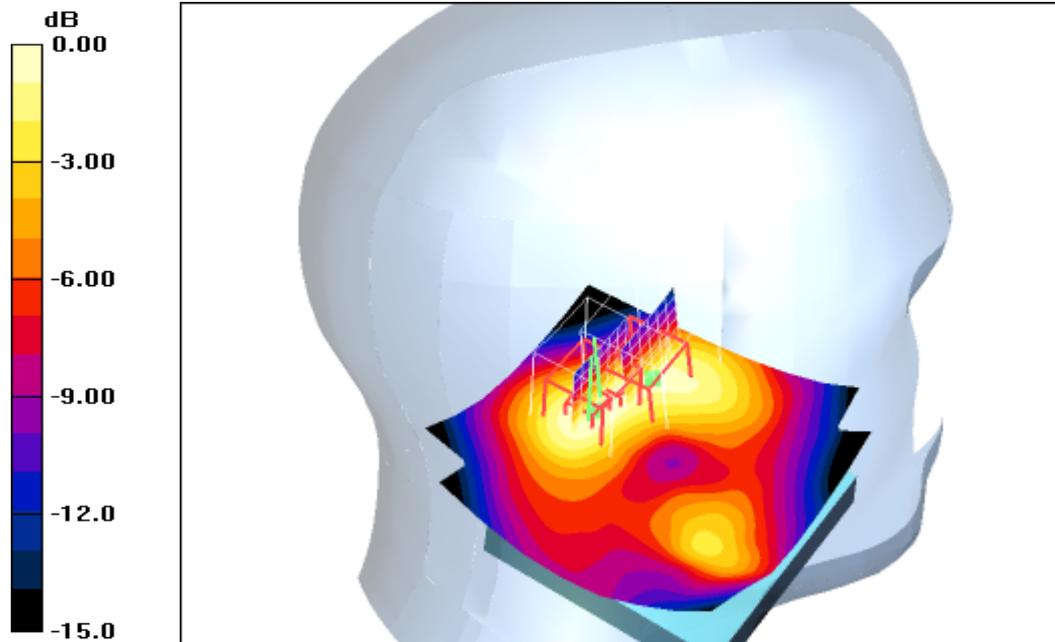
Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.2 V/m; Power Drift = 0.190 dB

Peak SAR (extrapolated) = 0.502 W/kg

SAR(1 g) = 0.303 mW/g; SAR(10 g) = 0.189 mW/g

Maximum value of SAR (measured) = 0.359 mW/g



Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.9°C

Date/Time: 2010-04-23 11:13:44 Date/Time: 2010-04-23 11:21:47 Date/Time: 2010-04-23 11:33:10

IEEE1528_OET65_EN62209-LeftHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.391 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 = -0.061 dB

Peak SAR (extrapolated) = 0.552 W/kg

SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.205 mW/g

Maximum value of SAR (measured) = 0.380 mW/g

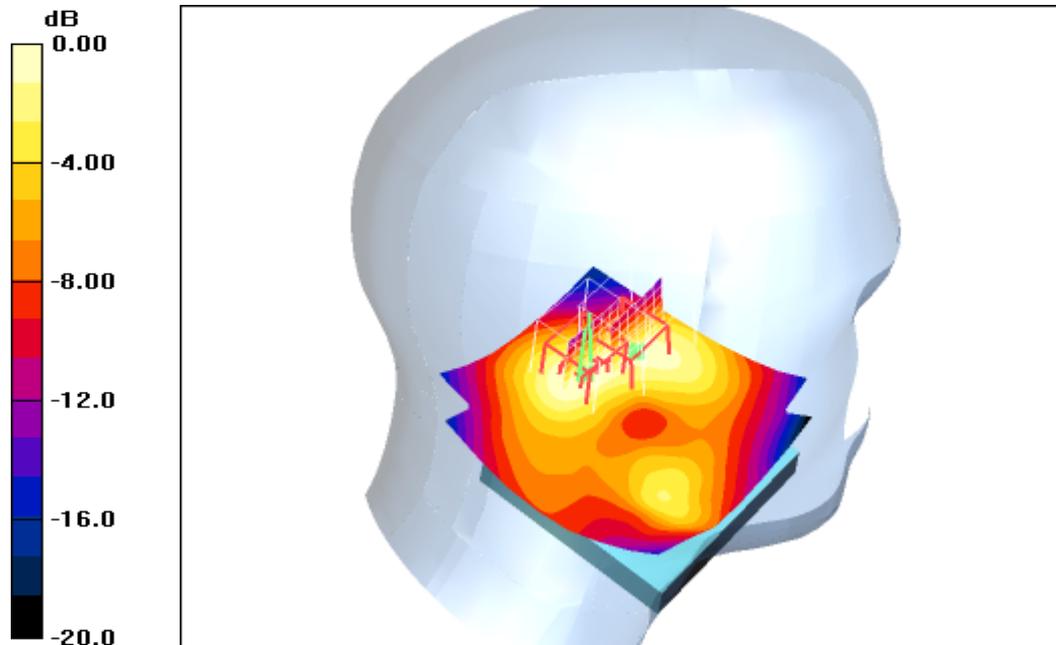
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.5 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 0.512 W/kg

SAR(1 g) = 0.295 mW/g; SAR(10 g) = 0.179 mW/g

Maximum value of SAR (measured) = 0.358 mW/g



Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.9°C

Date/Time: 2010-04-23 17:07:15 Date/Time: 2010-04-23 17:13:16 Date/Time: 2010-04-23 17:25:24

IEEE1528_OET65_EN62209-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

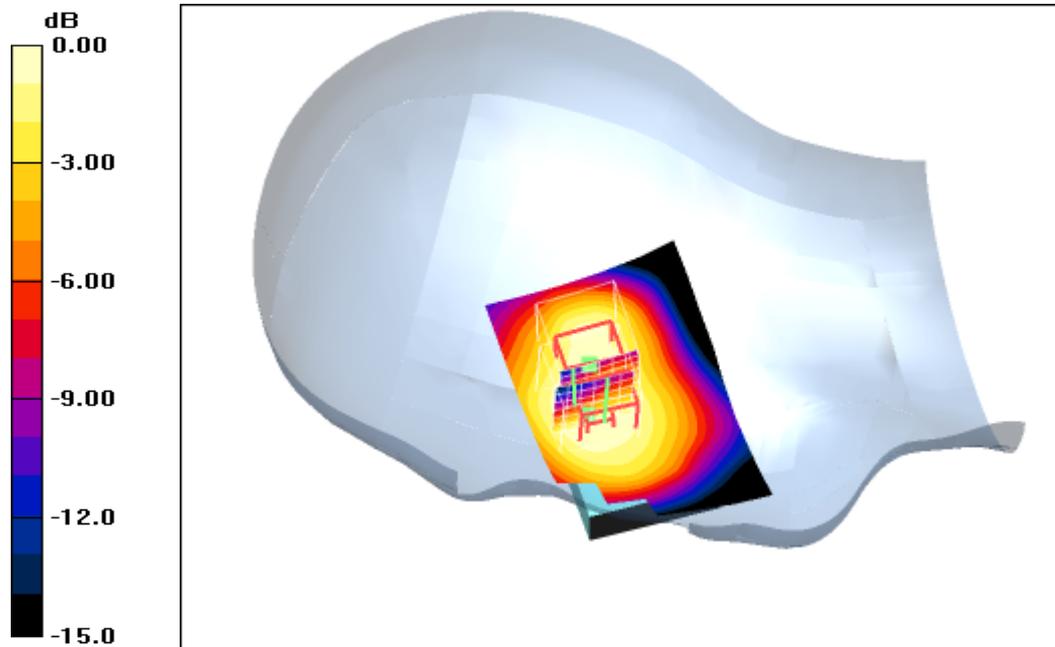
DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.448 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 = 18.3 V/m; Power Drift = 0.052 dB
 Peak SAR (extrapolated) = 0.581 W/kg
SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.275 mW/g
 Maximum value of SAR (measured) = 0.439 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 = 18.3 V/m; Power Drift = 0.052 dB
 Peak SAR (extrapolated) = 0.563 W/kg
SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.250 mW/g
 Maximum value of SAR (measured) = 0.407 mW/g



0 dB = 0.407mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2010-04-23 16:01:05 Date/Time: 2010-04-23 16:06:59 Date/Time: 2010-04-23 16:19:04

IEEE1528_OET65_EN62209-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

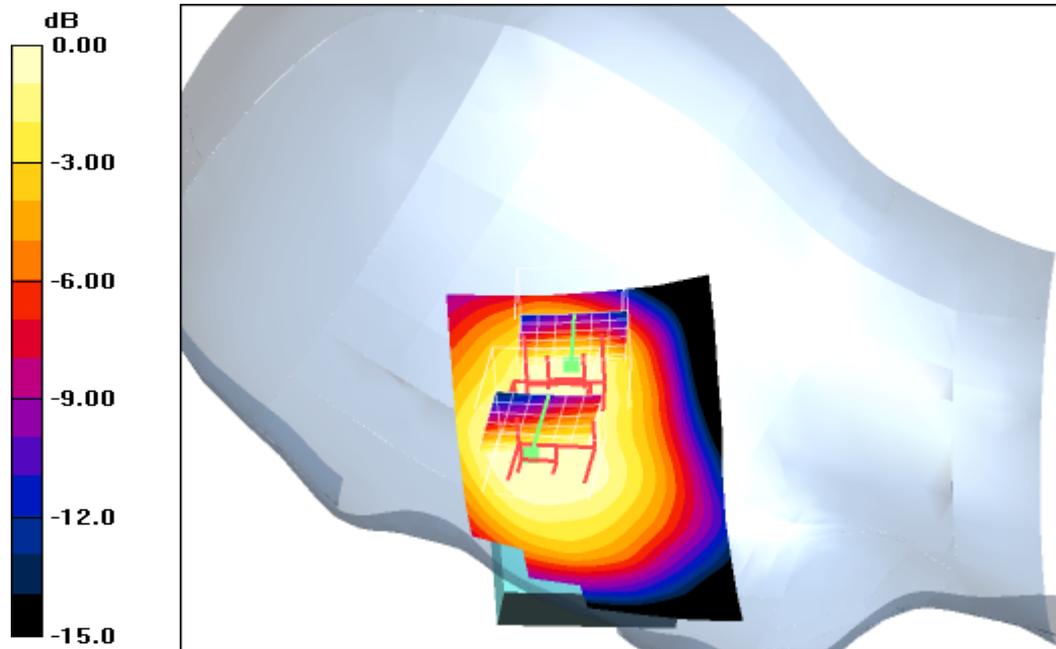
DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.422 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 = 17.4 V/m; Power Drift = -0.018 dB
 Peak SAR (extrapolated) = 0.571 W/kg
SAR(1 g) = 0.373 mW/g; SAR(10 g) = 0.251 mW/g
 Maximum value of SAR (measured) = 0.398 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 = 17.4 V/m; Power Drift = -0.018 dB
 Peak SAR (extrapolated) = 0.479 W/kg
SAR(1 g) = 0.346 mW/g; SAR(10 g) = 0.230 mW/g
 Maximum value of SAR (measured) = 0.370 mW/g



0 dB = 0.370mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2010-04-23 16:34:14 Date/Time: 2010-04-23 16:40:13 Date/Time: 2010-04-23 16:52:14

IEEE1528_OET65_EN62209-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

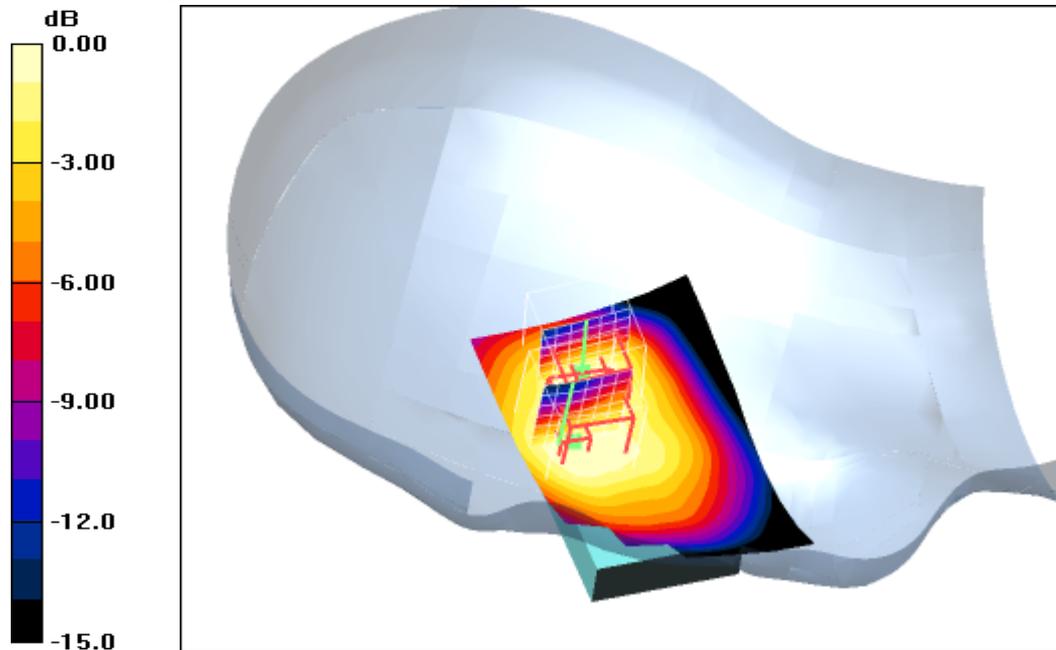
DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.373 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 = 16.8 V/m; Power Drift = -0.00 dB
 Peak SAR (extrapolated) = 0.533 W/kg
SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.215 mW/g
 Maximum value of SAR (measured) = 0.354 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: 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) = 0.470 W/kg
SAR(1 g) = 0.322 mW/g; SAR(10 g) = 0.206 mW/g



0 dB = 0.354mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2010-04-23 17:42:41 Date/Time: 2010-04-23 17:48:53

IEEE1528_OET65_EN62209-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.573 mW/g

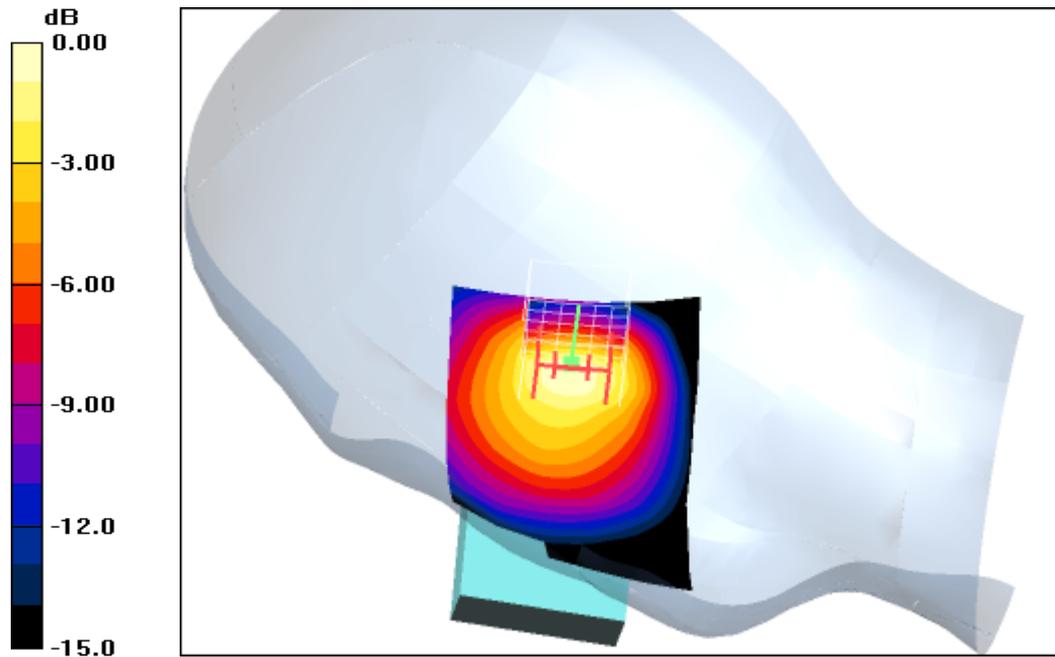
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.2 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.749 W/kg

SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.305 mW/g

Maximum value of SAR (measured) = 0.564 mW/g



0 dB = 0.564mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2010-04-23 18:02:30 Date/Time: 2010-04-23 18:08:41

IEEE1528_OET65_EN62209-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.641 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

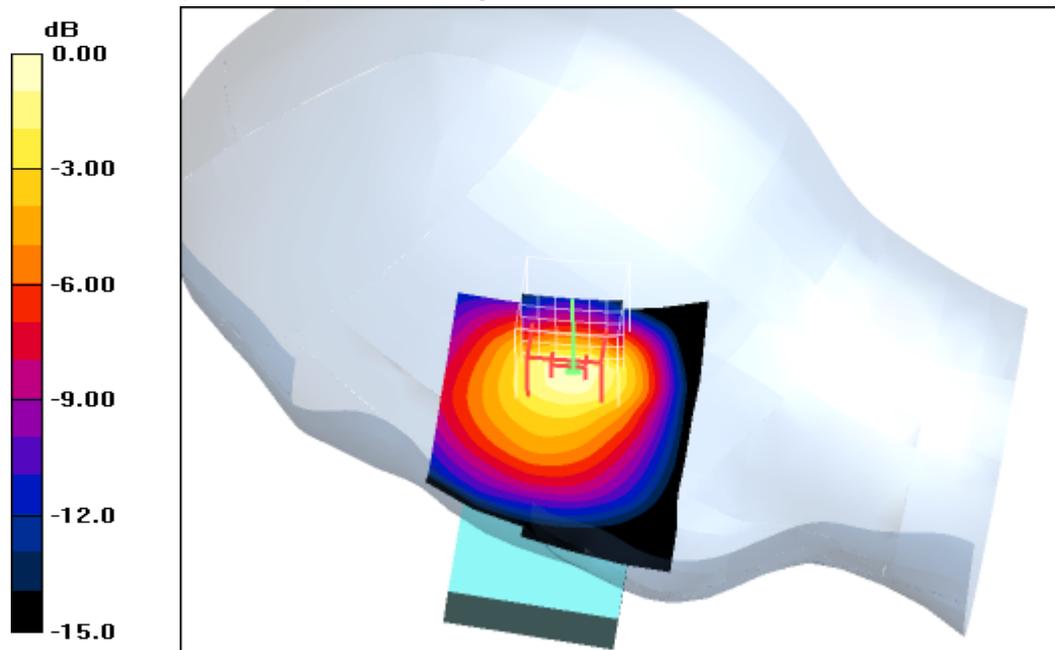
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.2 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.860 W/kg

SAR(1 g) = 0.570 mW/g; SAR(10 g) = 0.335 mW/g

Maximum value of SAR (measured) = 0.641 mW/g



0 dB = 0.641mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2010-04-23 18:22:27 Date/Time: 2010-04-23 18:28:40

IEEE1528_OET65_EN62209-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.613 mW/g

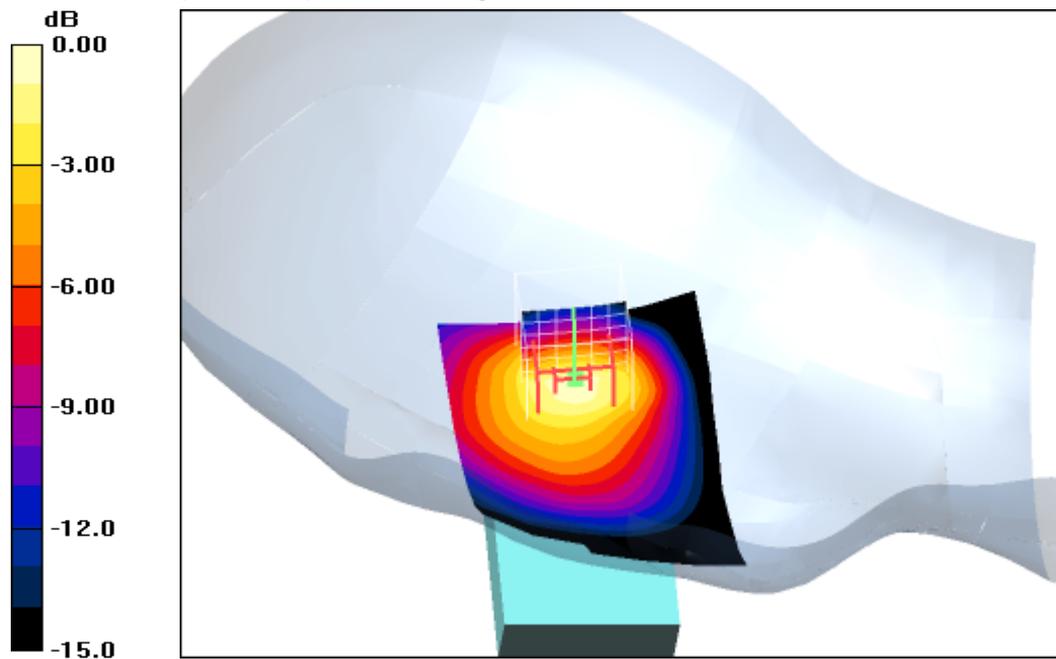
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.7 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 0.868 W/kg

SAR(1 g) = 0.554 mW/g; SAR(10 g) = 0.317 mW/g

Maximum value of SAR (measured) = 0.620 mW/g



0 dB = 0.620mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2010-04-23 18:44:56 Date/Time: 2010-04-23 18:52:39 Date/Time: 2010-04-23 19:04:27

IEEE1528_OET65_EN62209-RightHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

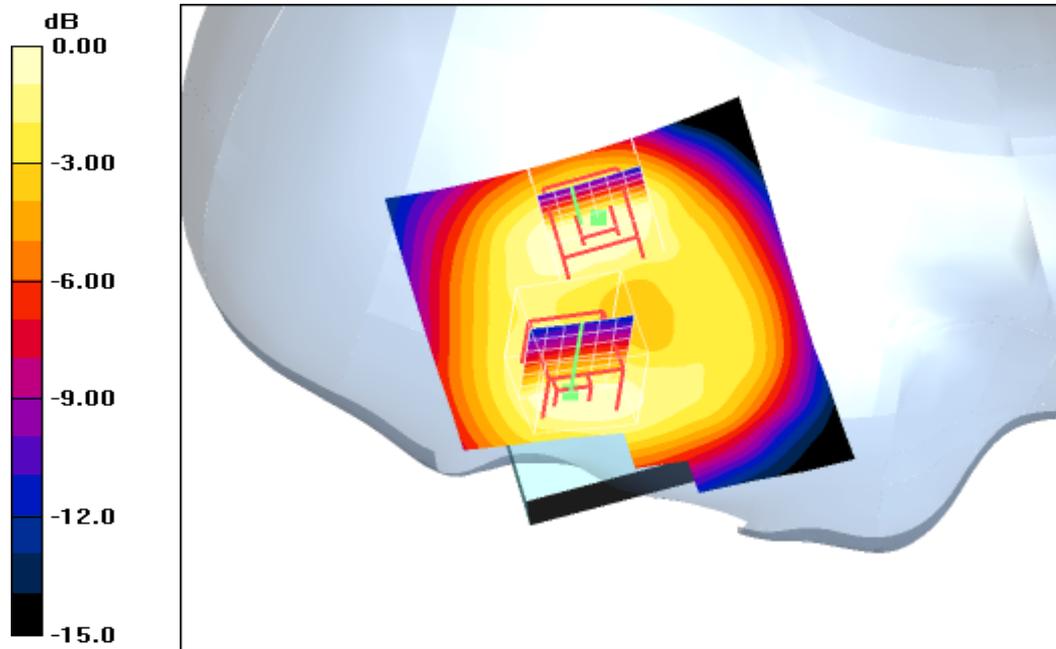
DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.446 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 = 17.7 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 0.586 W/kg
SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.251 mW/g
 Maximum value of SAR (measured) = 0.428 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 = 17.7 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 0.572 W/kg
SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.243 mW/g
 Maximum value of SAR (measured) = 0.407 mW/g



0 dB = 0.407mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2010-04-23 19:19:58 Date/Time: 2010-04-23 19:27:42 Date/Time: 2010-04-23 19:39:29

IEEE1528_OET65_EN62209-RightHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

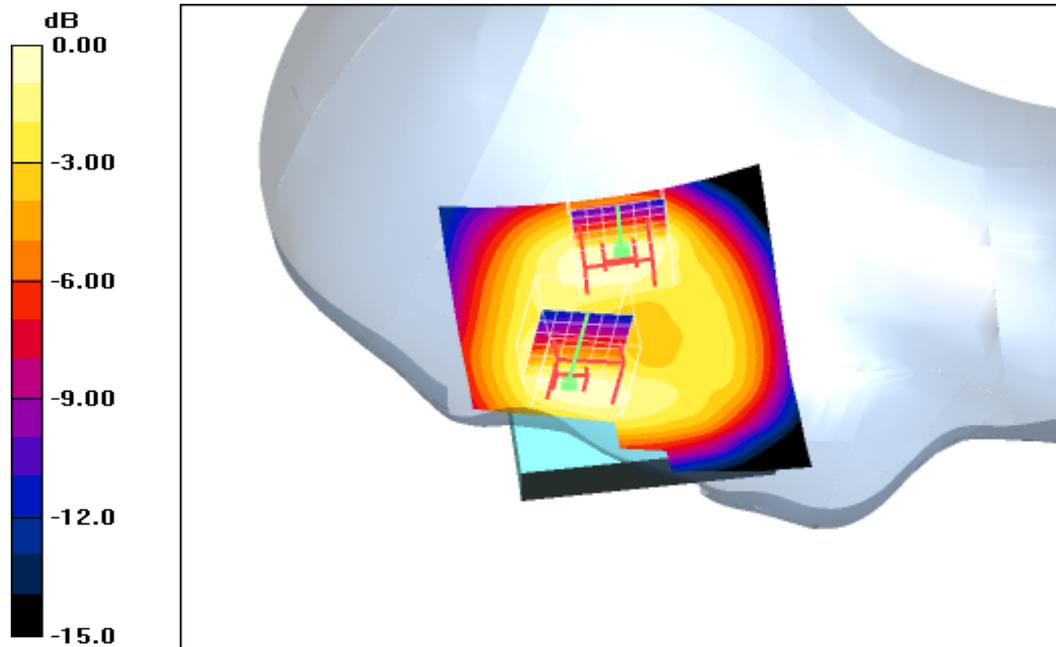
DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.458 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 = 18.2 V/m; Power Drift = -0.021 dB
 Peak SAR (extrapolated) = 0.625 W/kg
SAR(1 g) = 0.415 mW/g; SAR(10 g) = 0.258 mW/g
 Maximum value of SAR (measured) = 0.453 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 = 18.2 V/m; Power Drift = -0.021 dB
 Peak SAR (extrapolated) = 0.605 W/kg
SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.250 mW/g
 Maximum value of SAR (measured) = 0.429 mW/g



0 dB = 0.429mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2010-04-23 19:57:12 Date/Time: 2010-04-23 20:05:03 Date/Time: 2010-04-23 20:17:28

IEEE1528_OET65_EN62209-RightHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

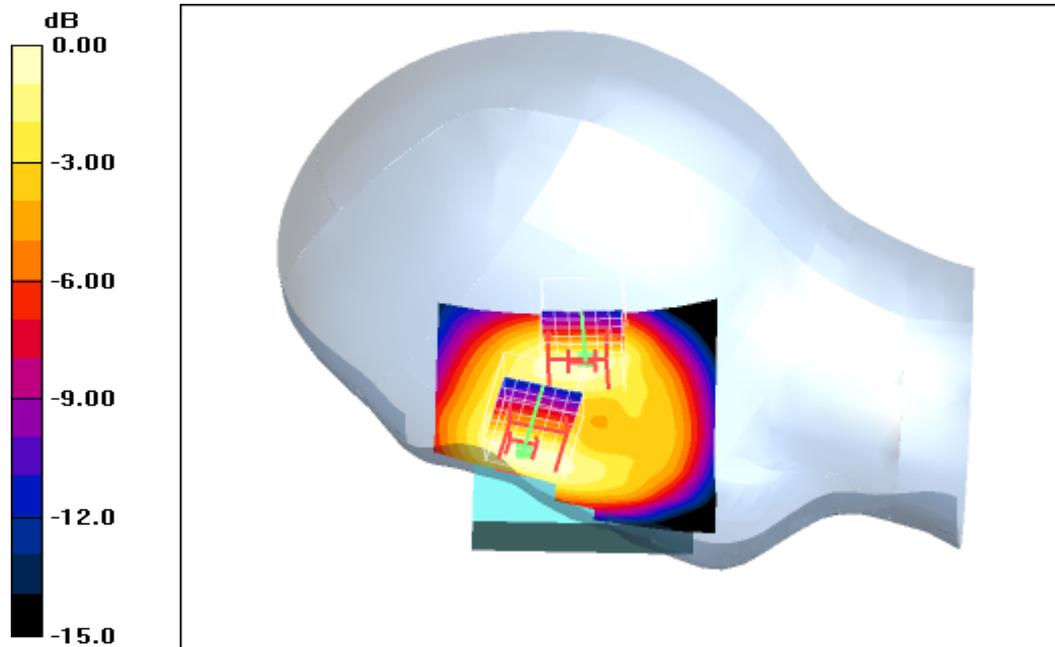
DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.483 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 = 19.1 V/m; Power Drift = 0.014 dB
 Peak SAR (extrapolated) = 0.672 W/kg
SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.273 mW/g
 Maximum value of SAR (measured) = 0.470 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 19.1 V/m; Power Drift = 0.014 dB
 Peak SAR (extrapolated) = 0.617 W/kg
SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.255 mW/g
 Maximum value of SAR (measured) = 0.457 mW/g



0 dB = 0.457mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2010-04-23 21:16:44 Date/Time: 2010-04-23 21:24:46

IEEE1528_OET65_EN62209-RightHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.557 mW/g

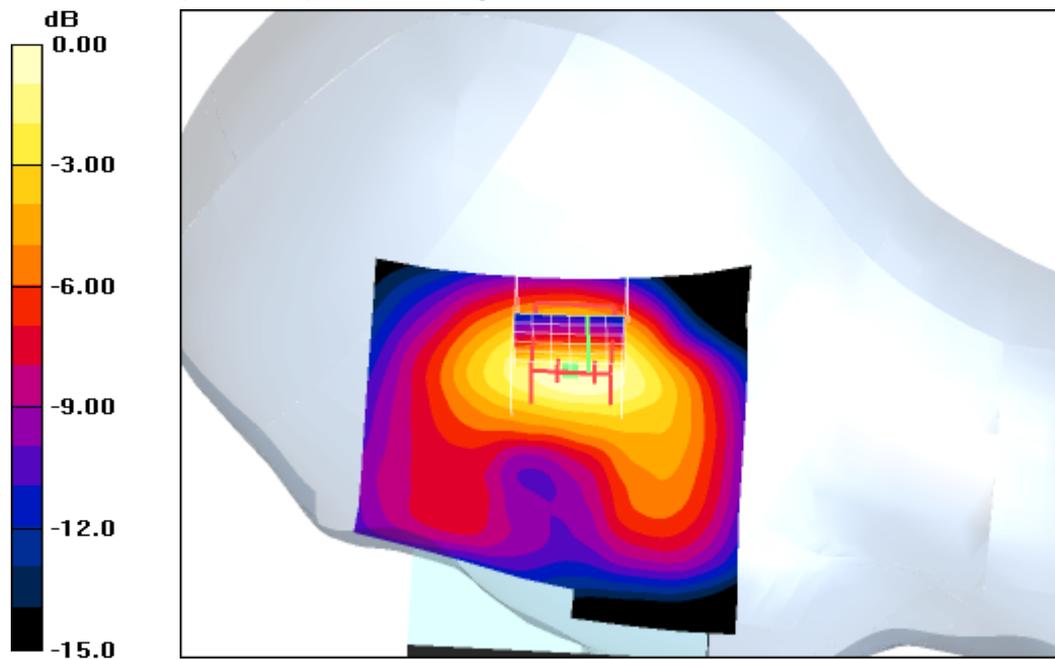
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.7 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.750 W/kg

SAR(1 g) = 0.496 mW/g; SAR(10 g) = 0.292 mW/g

Maximum value of SAR (measured) = 0.549 mW/g



0 dB = 0.549mW/g

Additional information:

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

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2010-04-23 20:54:45 Date/Time: 2010-04-23 21:02:46

IEEE1528_OET65_EN62209-RightHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

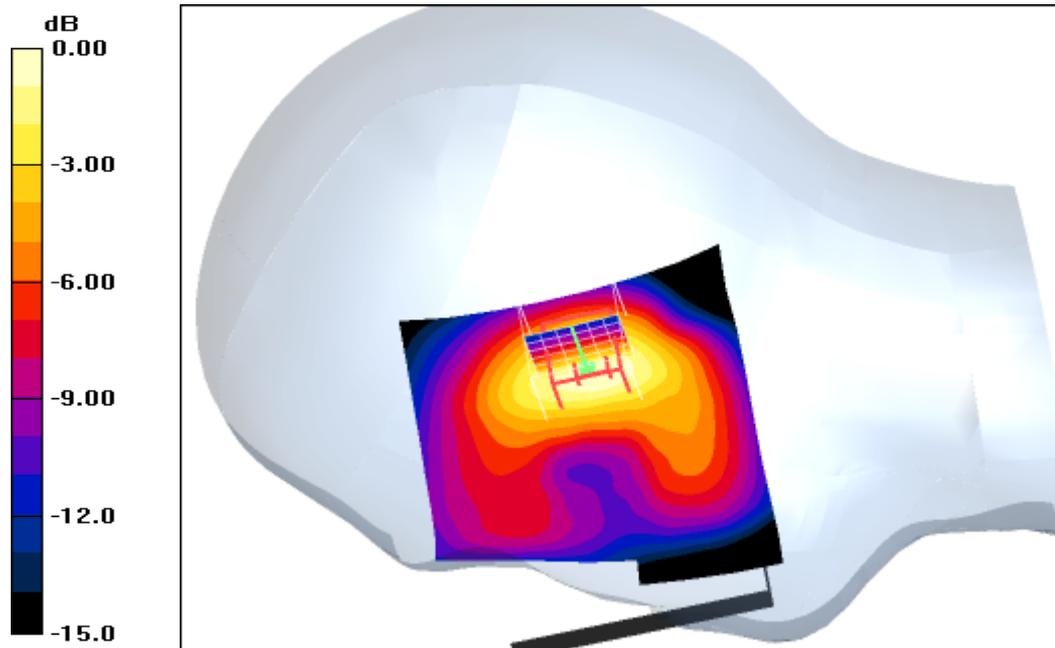
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.580 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 = 21.0 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 0.811 W/kg
SAR(1 g) = 0.520 mW/g; SAR(10 g) = 0.302 mW/g
 Maximum value of SAR (measured) = 0.577 mW/g



0 dB = 0.577mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :
 ambient temperature: 22.8°C; liquid temperature: 22.0°C

Date/Time: 2010-04-23 20:32:46 Date/Time: 2010-04-23 20:40:47

IEEE1528_OET65_EN62209-RightHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.87, 4.87, 4.87); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: dx=15mm, dy=15mm

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

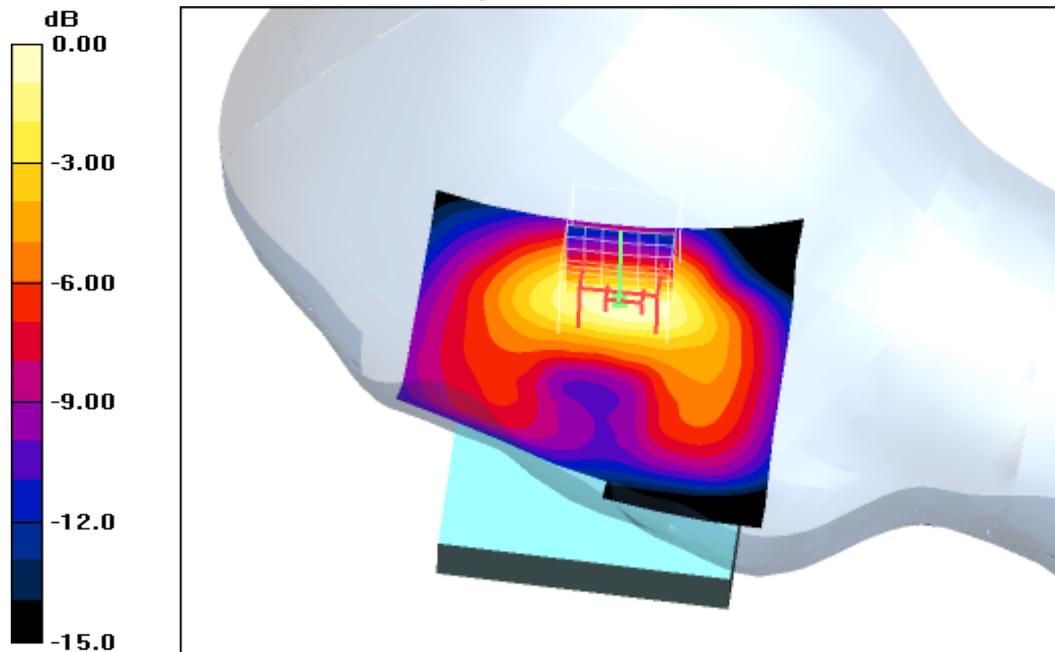
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.6 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.792 W/kg

SAR(1 g) = 0.503 mW/g; SAR(10 g) = 0.290 mW/g

Maximum value of SAR (measured) = 0.559 mW/g



0 dB = 0.559mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.0°C

Annex B.4: GSM 1900MHz body

Date/Time: 2010-04-26 12:39:52 Date/Time: 2010-04-26 13:09:57

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 1900 GPRS 2TS; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

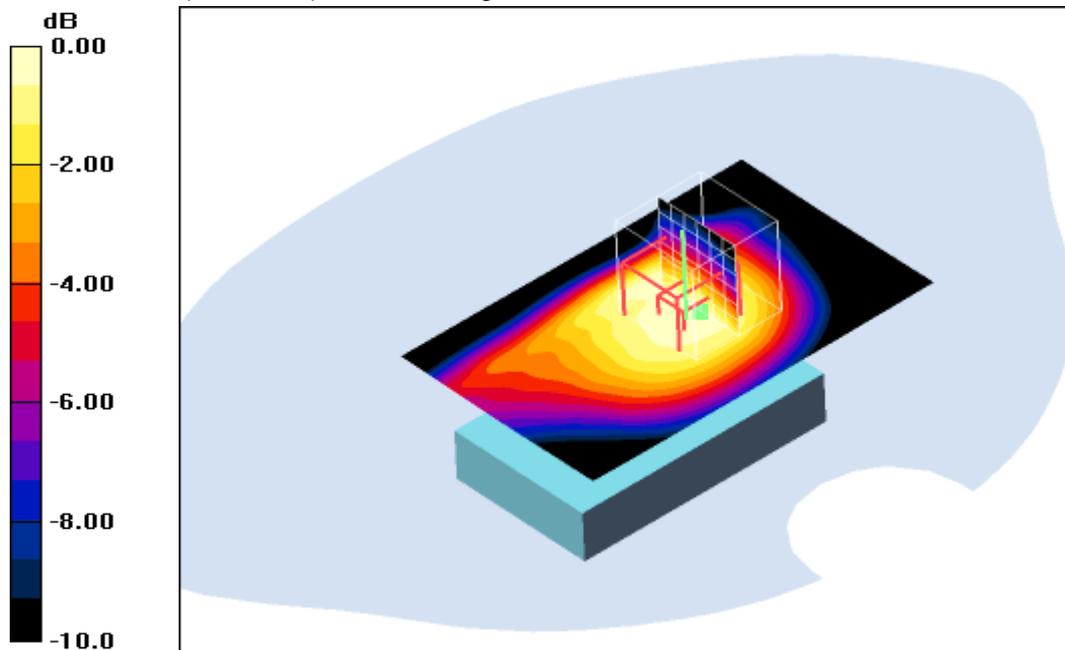
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.293 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 = 4.14 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 0.351 W/kg
SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.187 mW/g
 Maximum value of SAR (measured) = 0.290 mW/g



0 dB = 0.290mW/g

Additional information:

position or distance of DUT to SAM: 15 mm
 ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 12:11:13 Date/Time: 2010-04-26 12:26:13

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 1900 GPRS 2TS; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.352 mW/g

Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

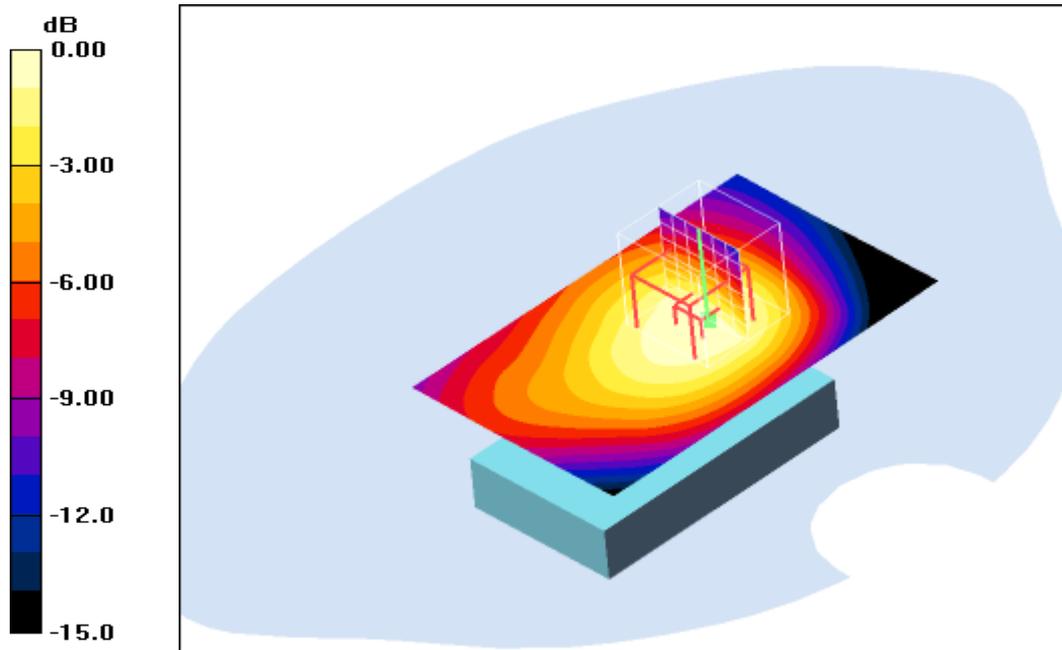
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.3 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 0.416 W/kg

SAR(1 g) = 0.305 mW/g; SAR(10 g) = 0.205 mW/g

Maximum value of SAR (measured) = 0.328 mW/g



Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 13:26:50 Date/Time: 2010-04-26 13:32:41

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 1900 GPRS 2TS; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.339 mW/g

Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

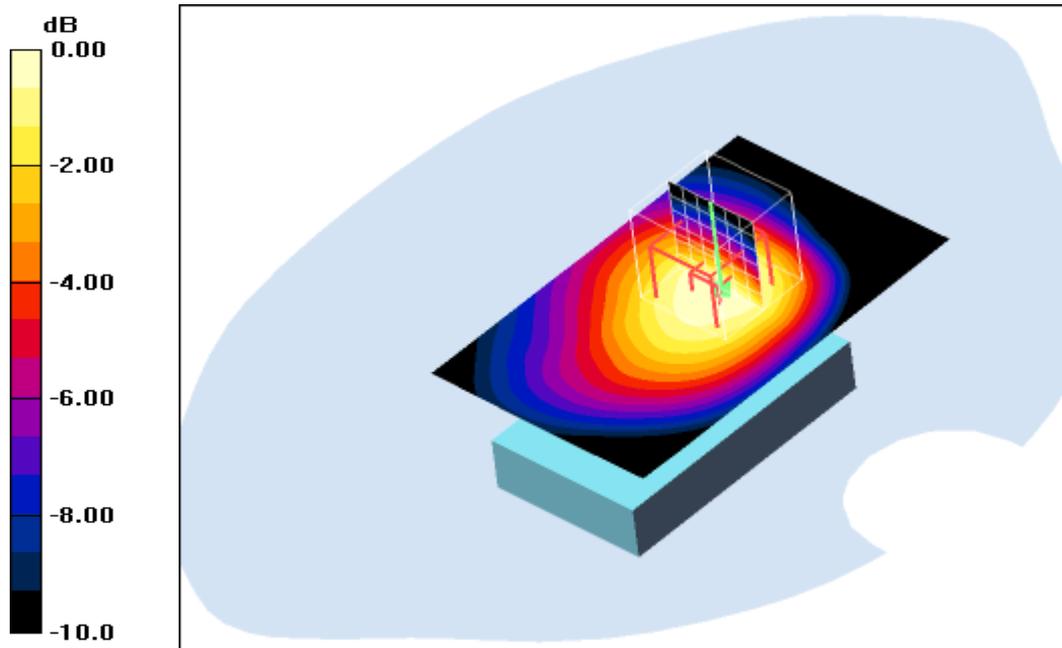
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.9 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.395 W/kg

SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.192 mW/g

Maximum value of SAR (measured) = 0.310 mW/g



0 dB = 0.310mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 14:12:35 Date/Time: 2010-04-26 14:18:07

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 1900 GPRS 2TS; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

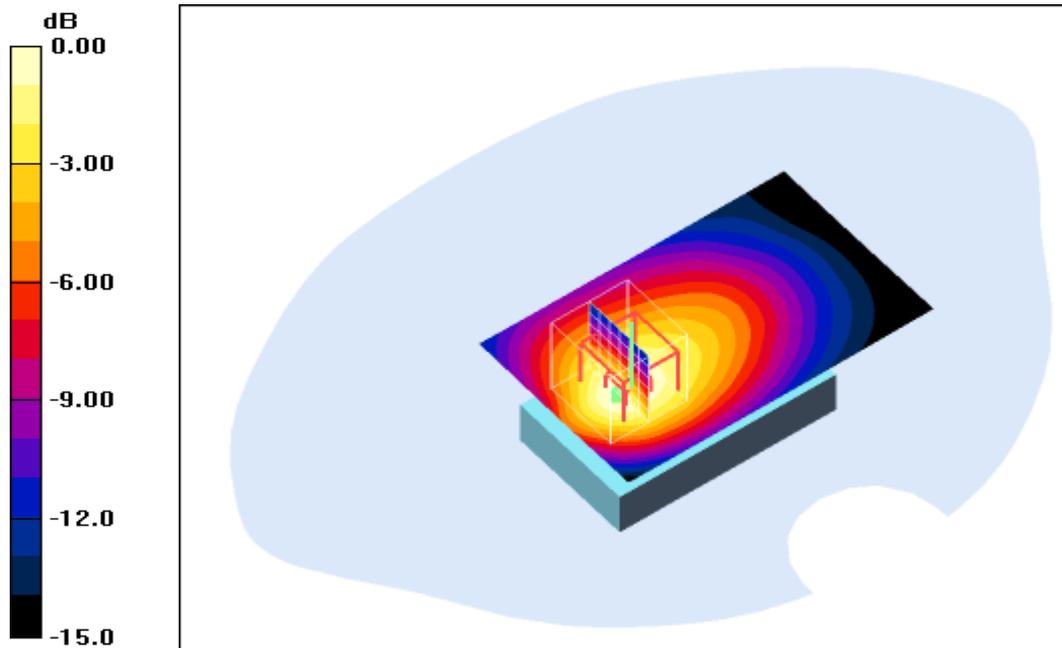
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.509 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 = 15.3 V/m; Power Drift = -0.023 dB
 Peak SAR (extrapolated) = 0.627 W/kg
SAR(1 g) = 0.435 mW/g; SAR(10 g) = 0.267 mW/g
 Maximum value of SAR (measured) = 0.479 mW/g



0 dB = 0.479mW/g

Additional information:

position or distance of DUT to SAM: 15 mm
 ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 14:32:10 Date/Time: 2010-04-26 14:37:39

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 1900 GPRS 2TS; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

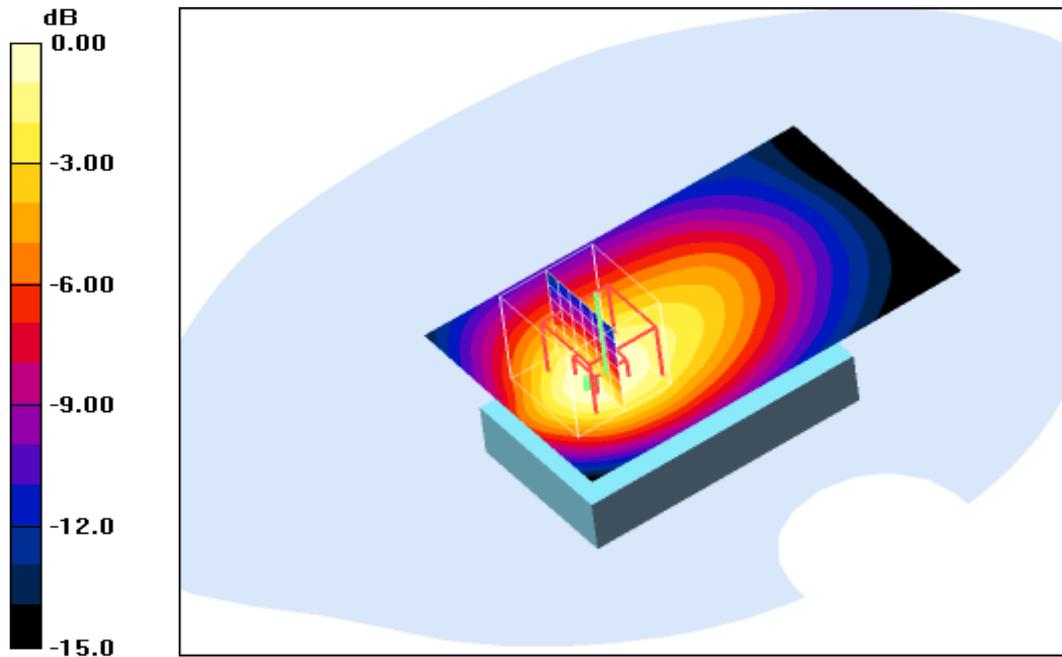
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.493 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 = 16.0 V/m; Power Drift = -0.082 dB
 Peak SAR (extrapolated) = 0.630 W/kg
SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.269 mW/g
 Maximum value of SAR (measured) = 0.477 mW/g



0 dB = 0.477mW/g

Additional information:

position or distance of DUT to SAM: 15 mm
 ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 13:51:21 Date/Time: 2010-04-26 13:57:07

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 1900 GPRS 2TS; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

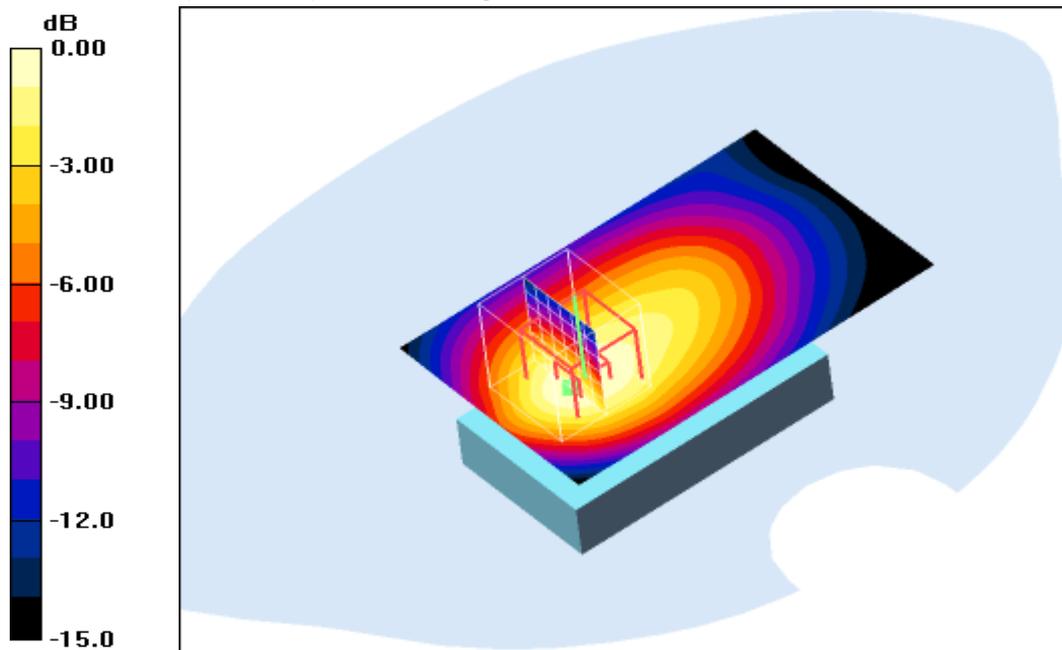
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.458 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 = 18.6 V/m; Power Drift = -0.056 dB
 Peak SAR (extrapolated) = 0.582 W/kg
SAR(1 g) = 0.409 mW/g; SAR(10 g) = 0.254 mW/g
 Maximum value of SAR (measured) = 0.450 mW/g



0 dB = 0.450mW/g

Additional information:

position or distance of DUT to SAM: 15 mm
 ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 19:57:07 Date/Time: 2010-04-26 20:02:35

IEEE1528_OET65-Body-GSM1900 GPRS 4TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: PCS 1900 GPRS 4TS; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium: M1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

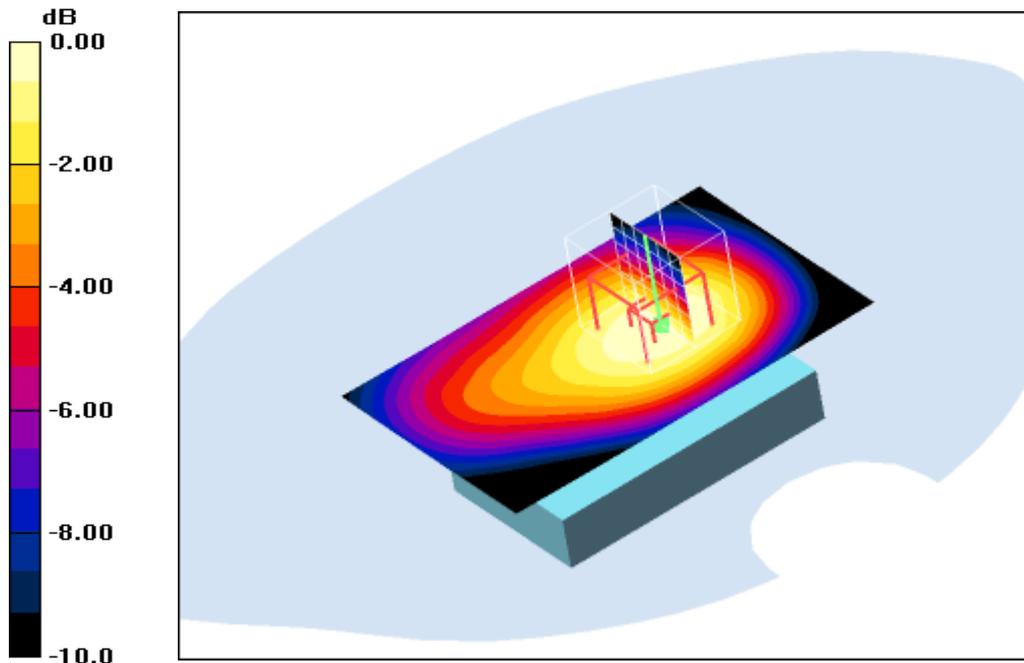
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.266 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 = 13.5 V/m; Power Drift = -0.064 dB
 Peak SAR (extrapolated) = 0.319 W/kg
SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.170 mW/g
 Maximum value of SAR (measured) = 0.263 mW/g



0 dB = 0.263mW/g

Additional information:

position or distance of DUT to SAM: 15 mm
 ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 19:36:46 Date/Time: 2010-04-26 19:42:10

IEEE1528_OET65-Body-GSM1900 GPRS 4TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: PCS 1900 GPRS 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.285 mW/g

Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

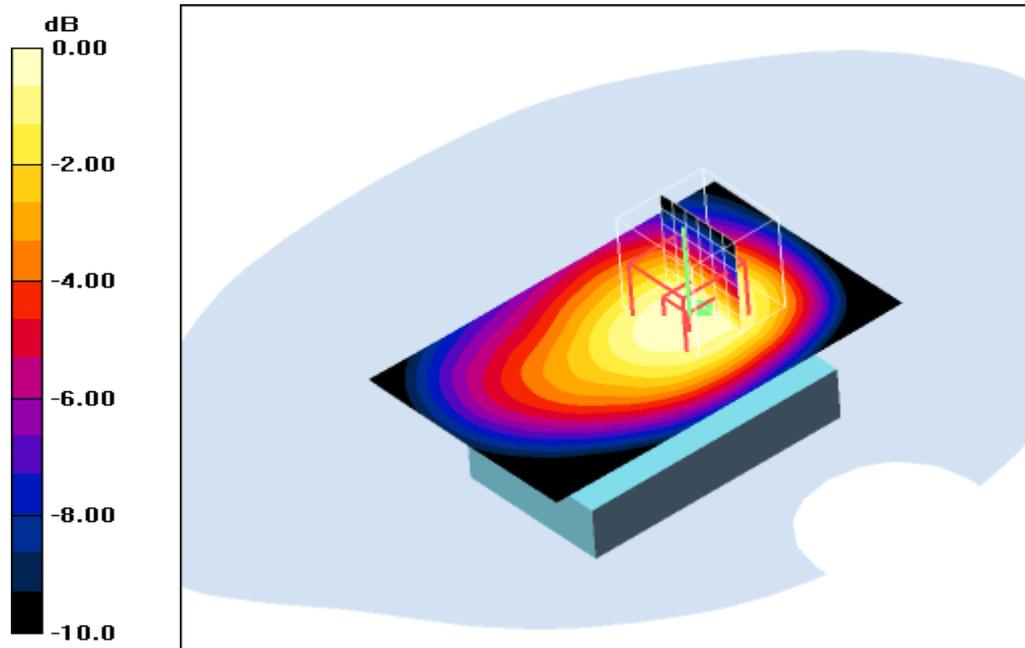
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.6 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.340 W/kg

SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.177 mW/g

Maximum value of SAR (measured) = 0.275 mW/g



0 dB = 0.275mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 19:16:44 Date/Time: 2010-04-26 19:22:08

IEEE1528_OET65-Body-GSM1900 GPRS 4TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: PCS 1900 GPRS 4TS; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.280 mW/g

Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

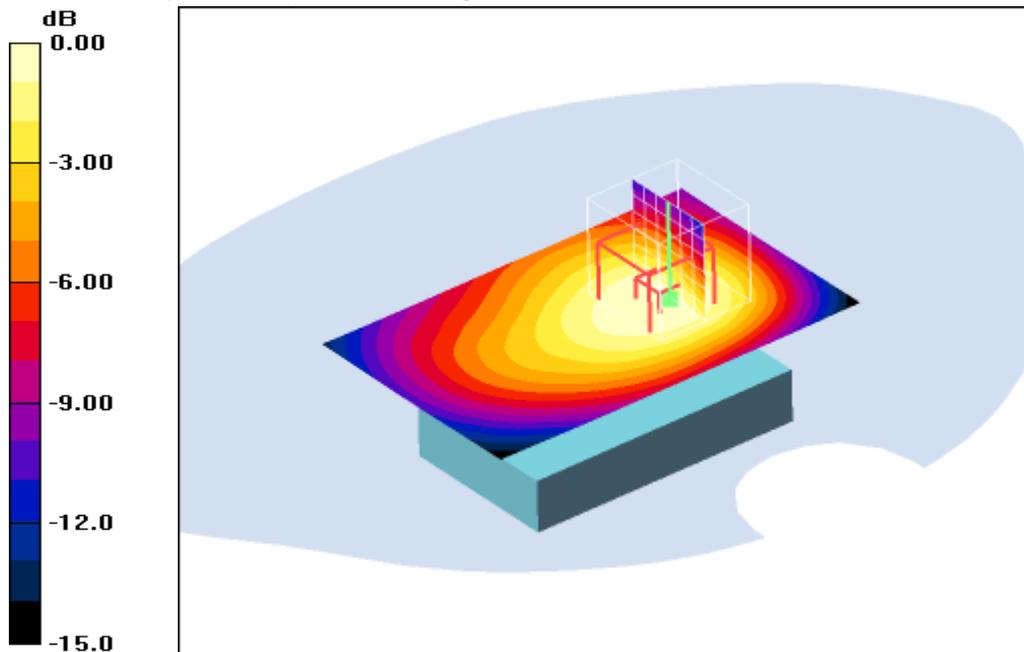
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.7 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 0.338 W/kg

SAR(1 g) = 0.248 mW/g; SAR(10 g) = 0.166 mW/g

Maximum value of SAR (measured) = 0.265 mW/g



0 dB = 0.265mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 18:35:24 Date/Time: 2010-04-26 18:40:48

IEEE1528_OET65-Body-GSM1900 GPRS 4TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: PCS 1900 GPRS 4TS; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium: M1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.543 mW/g

Rear position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

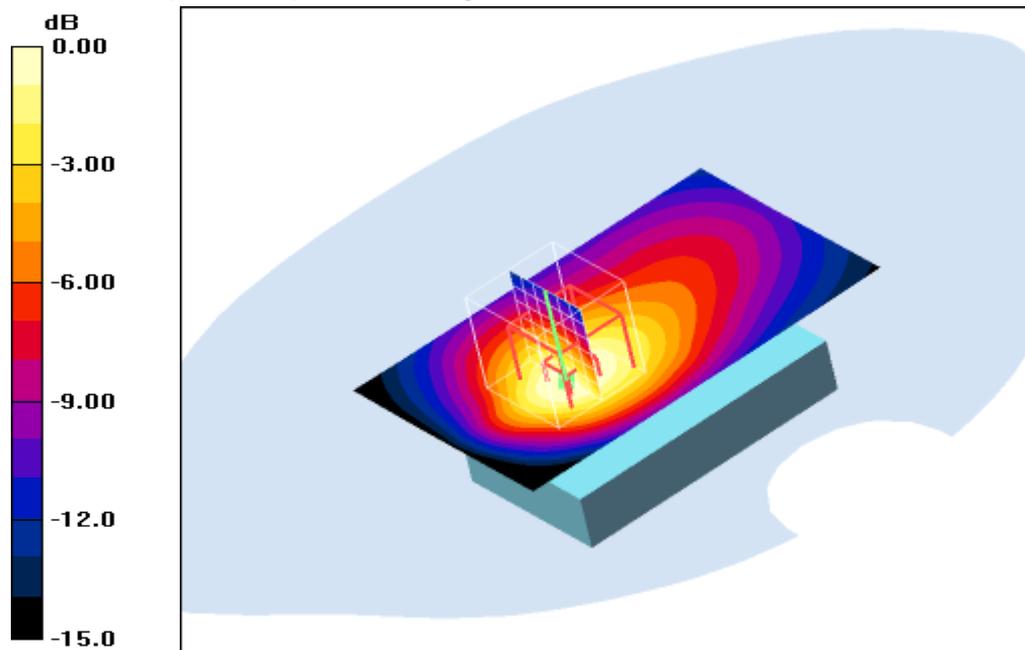
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.6 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 0.642 W/kg

SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.279 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: 15 mm

ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 15:37:08 Date/Time: 2010-04-26 15:42:40

IEEE1528_OET65-Body-GSM1900 GPRS 4TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: PCS 1900 GPRS 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

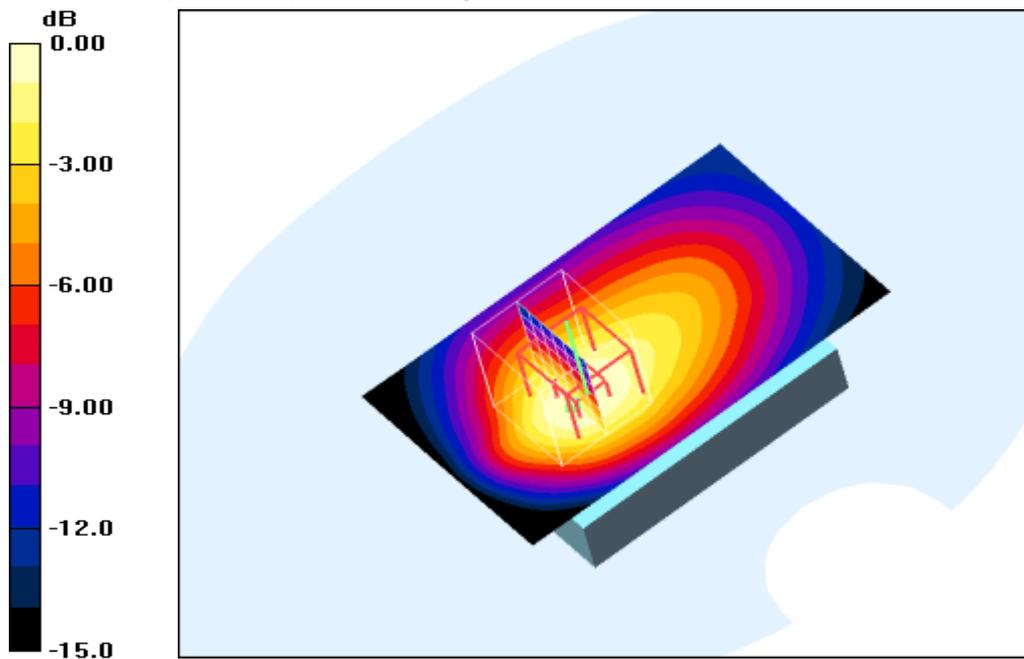
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.520 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 = 16.2 V/m; Power Drift = -0.066 dB
 Peak SAR (extrapolated) = 0.653 W/kg
SAR(1 g) = 0.452 mW/g; SAR(10 g) = 0.279 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: 15 mm
 ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 18:56:46 Date/Time: 2010-04-26 19:02:12

IEEE1528_OET65-Body-GSM1900 GPRS 4TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: PCS 1900 GPRS 4TS; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.476 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

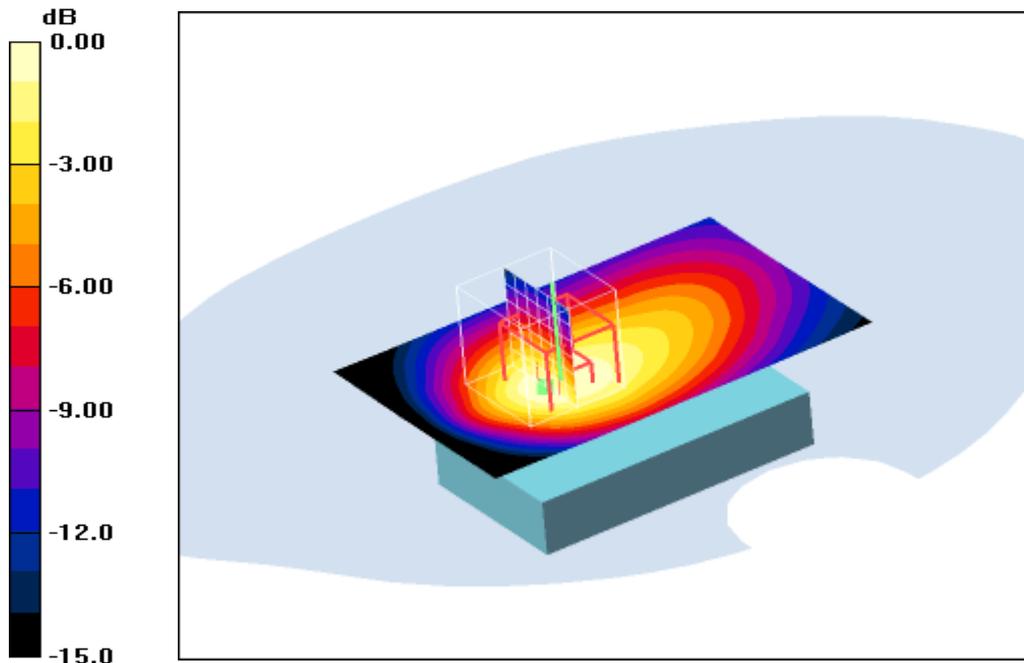
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.0 V/m; Power Drift = -0.145 dB

Peak SAR (extrapolated) = 0.600 W/kg

SAR(1 g) = 0.426 mW/g; SAR(10 g) = 0.265 mW/g

Maximum value of SAR (measured) = 0.461 mW/g



0 dB = 0.461mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 14:52:59 Date/Time: 2010-04-26 14:58:50

IEEE1528_OET65-Body-GSM1900 GPRS 1TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: GSM 1900 GPRS 1TS; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

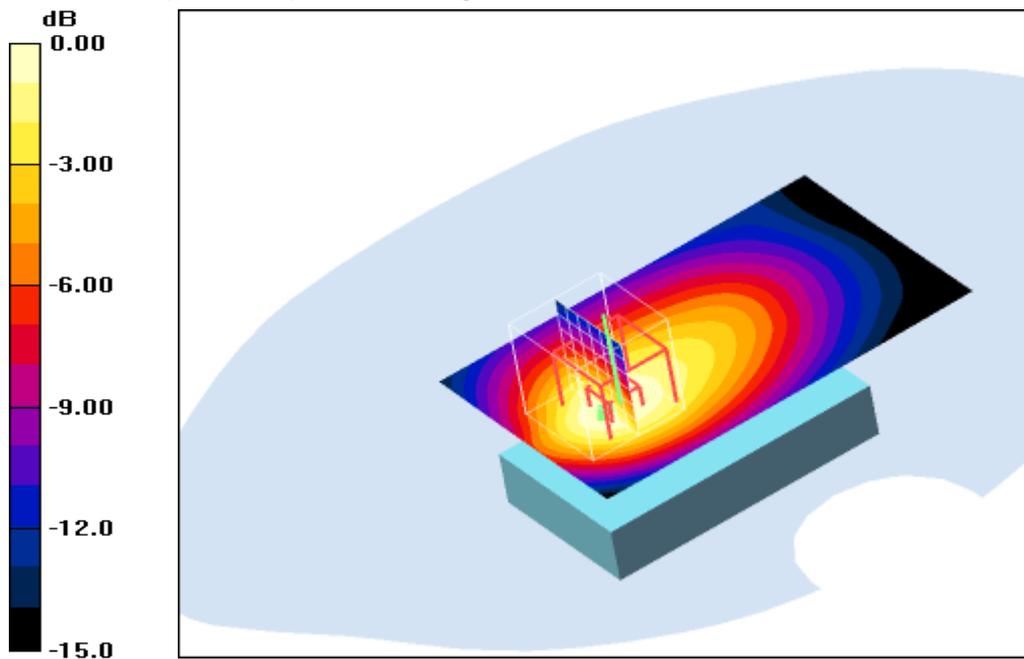
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.323 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 = 12.8 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 0.404 W/kg
SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.175 mW/g
 Maximum value of SAR (measured) = 0.312 mW/g



0 dB = 0.312mW/g

Additional information:

position or distance of DUT to SAM: 15 mm
 ambient temperature: 23.2°C; liquid temperature: 22.1°C

Date/Time: 2010-04-26 15:15:54 Date/Time: 2010-04-26 15:21:21

IEEE1528_OET65-Body-GSM1900 GPRS 3TS

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BNG

Communication System: PCS 1900 GPRS 3TS; Frequency: 1880 MHz; Duty Cycle: 1:2.7

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

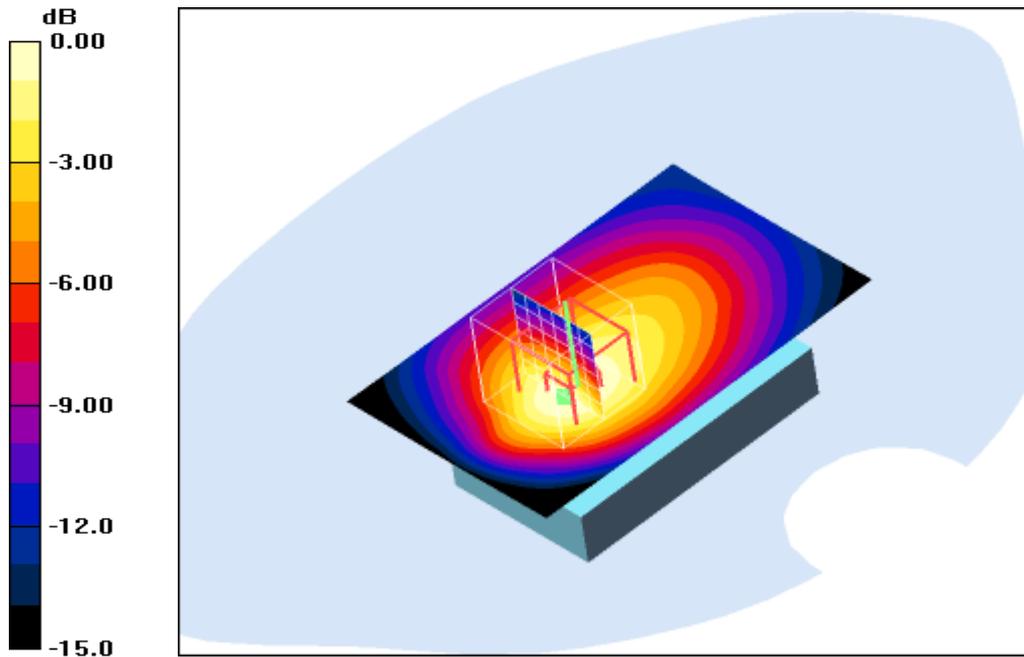
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.67, 4.67, 4.67); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.486 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 = 15.7 V/m; Power Drift = -0.107 dB
 Peak SAR (extrapolated) = 0.598 W/kg
SAR(1 g) = 0.418 mW/g; SAR(10 g) = 0.259 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: 15 mm
 ambient temperature: 23.2°C; liquid temperature: 22.1°C

Annex B.5: WLAN 2450MHz head

Date/Time: 2010-04-29 08:37:49 Date/Time: 2010-04-29 08:43:51 Date/Time: 2010-04-29 08:56:09

IEEE1528_OET65-LeftHandSide-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.182 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 = 9.93 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 0.223 W/kg

SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.089 mW/g

Maximum value of SAR (measured) = 0.168 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

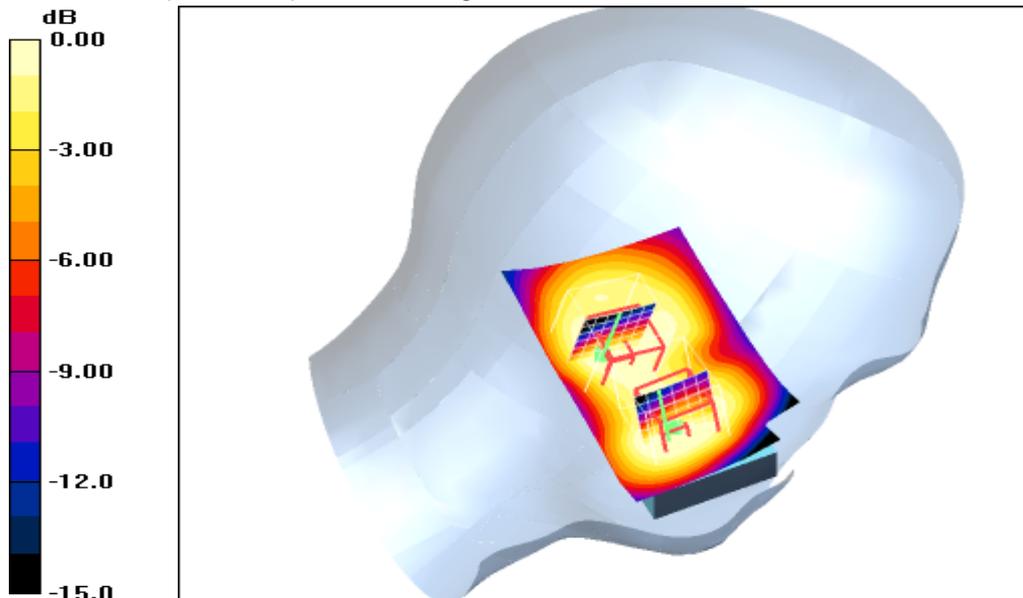
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.93 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 0.186 W/kg

SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.125 mW/g



0 dB = 0.125mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 2010-04-29 08:37:49 Date/Time: 2010-04-29 13:01:26

IEEE1528_OET65-LeftHandSide-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.165 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 = 9.70 V/m; Power Drift = 0.180 dB

Peak SAR (extrapolated) = 0.228 W/kg

SAR(1 g) = 0.149 mW/g; SAR(10 g) = 0.086 mW/g

Maximum value of SAR (measured) = 0.163 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 = 9.70 V/m; Power Drift = 0.180 dB

Peak SAR (extrapolated) = 0.187 W/kg

SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.063 mW/g

Maximum value of SAR (measured) = 0.117 mW/g

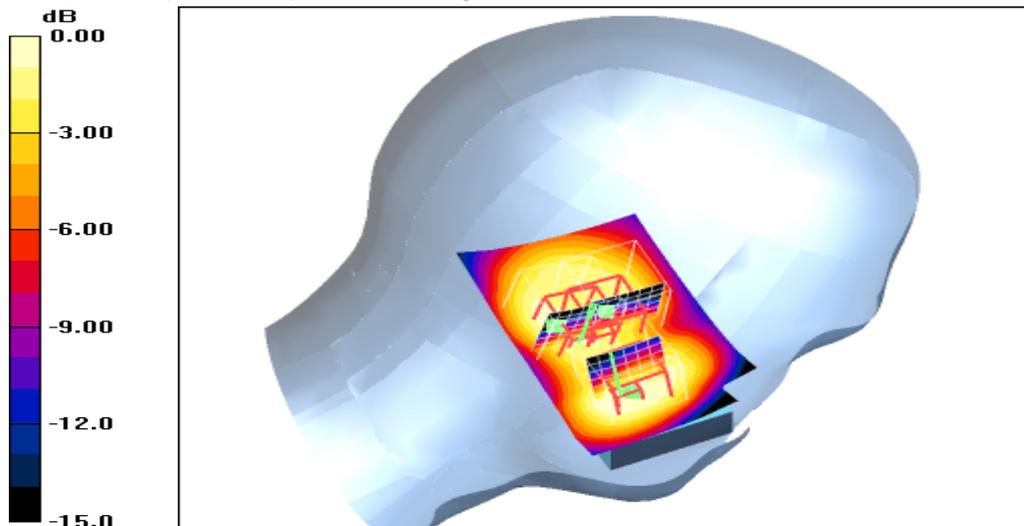
Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 2: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.70 V/m; Power Drift = 0.180 dB

Peak SAR (extrapolated) = 0.402 W/kg

SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.064 mW/g

Maximum value of SAR (measured) = 0.138 mW/g



0 dB = 0.138mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 2010-04-29 13:55:41 Date/Time: 2010-04-29 14:01:57

IEEE1528_OET65-LeftHandSide-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.122 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 = 8.32 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 0.167 W/kg

SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.059 mW/g

Maximum value of SAR (measured) = 0.116 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.32 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 0.157 W/kg

SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.046 mW/g

Maximum value of SAR (measured) = 0.092 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 2: Measurement grid:

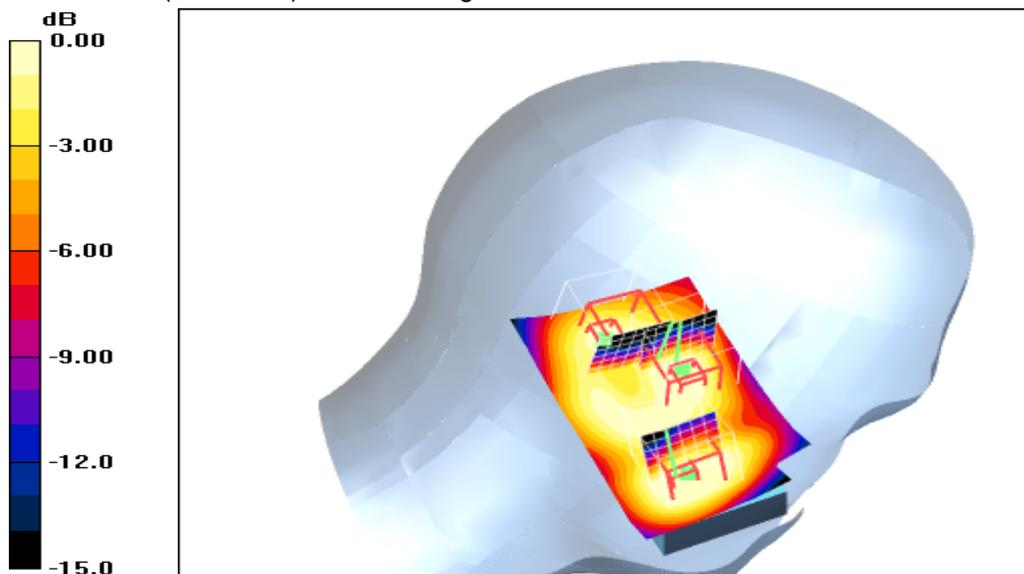
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.32 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 0.144 W/kg

SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.035 mW/g

Maximum value of SAR (measured) = 0.081 mW/g



0 dB = 0.081mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 2010-04-29 09:11:51 Date/Time: 2010-04-29 09:17:43

IEEE1528_OET65-LeftHandSide-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.205 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 = 10.3 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.102 mW/g

Maximum value of SAR (measured) = 0.192 mW/g



0 dB = 0.192mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 2010-04-29 12:29:16 Date/Time: 2010-04-29 12:34:51 Date/Time: 2010-04-29 12:46:38

IEEE1528_OET65-LeftHandSide-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.191 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 = 9.62 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 0.314 W/kg

SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.186 mW/g

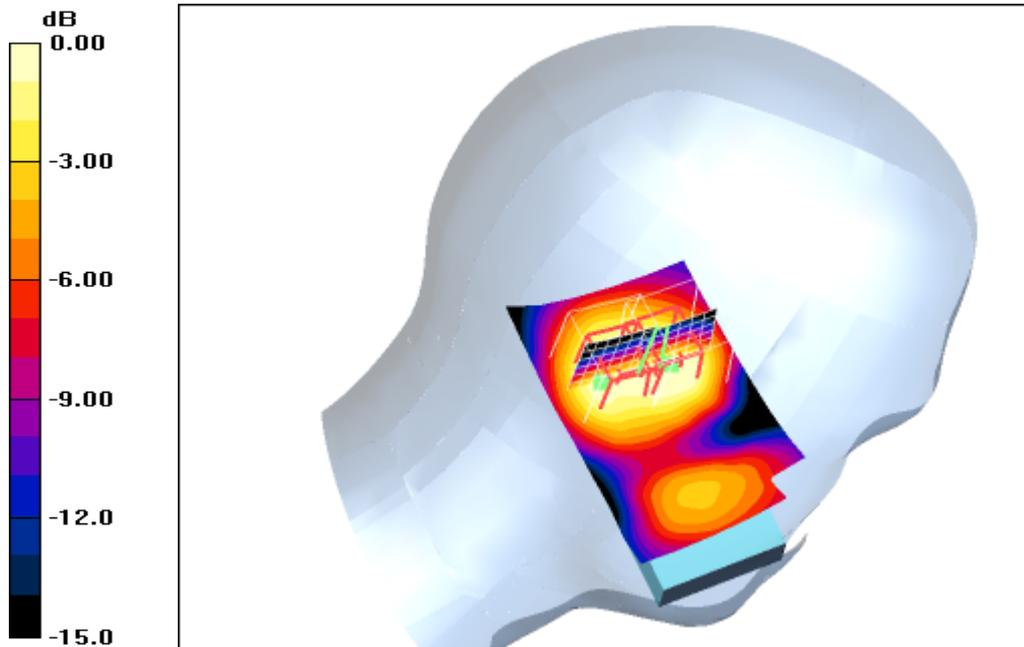
Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.62 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 0.273 W/kg

SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.075 mW/g

Maximum value of SAR (measured) = 0.150 mW/g



0 dB = 0.150mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 2010-04-29 15:49:19 Date/Time: 2010-04-29 15:55:05 Date/Time: 2010-04-29 16:07:22

IEEE1528_OET65-LeftHandSide-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.182 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 = 9.06 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 0.309 W/kg

SAR(1 g) = 0.163 mW/g; SAR(10 g) = 0.087 mW/g

Maximum value of SAR (measured) = 0.175 mW/g

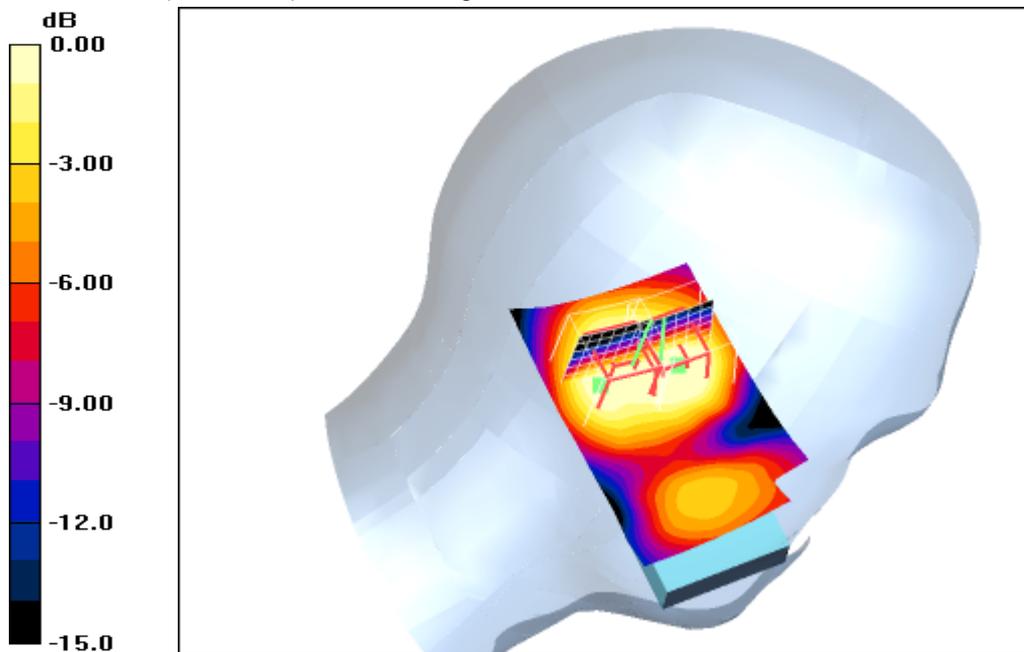
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.06 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 0.216 W/kg

SAR(1 g) = 0.103 mW/g; SAR(10 g) = 0.059 mW/g

Maximum value of SAR (measured) = 0.116 mW/g



0 dB = 0.116mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 2010-04-29 09:55:27 Date/Time: 2010-04-29 10:03:32

IEEE1528_OET65-LeftHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.099 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 = 7.24 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.176 W/kg

SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.052 mW/g

Maximum value of SAR (measured) = 0.100 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 = 7.24 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.169 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.051 mW/g

Maximum value of SAR (measured) = 0.098 mW/g

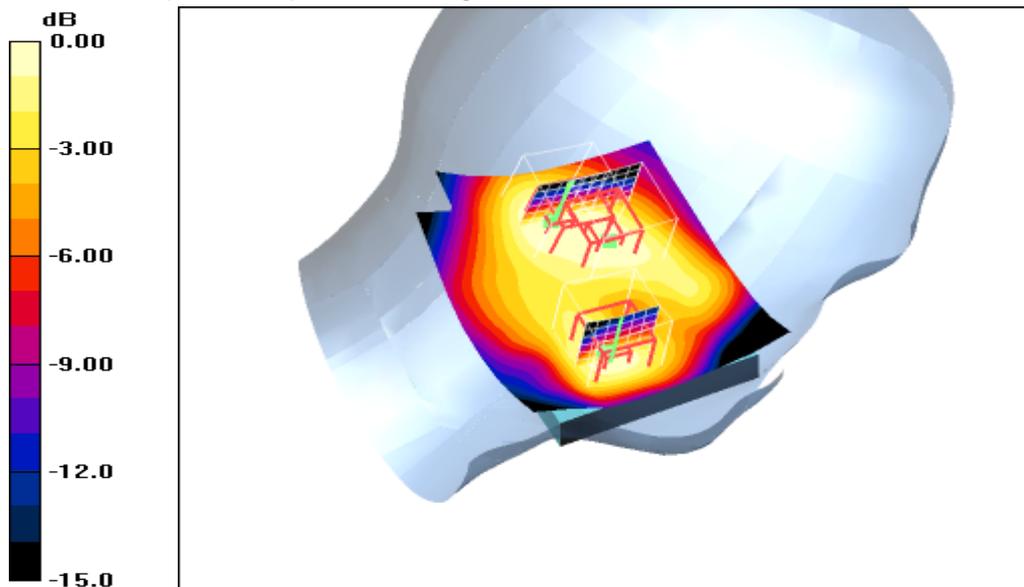
Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 2: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.24 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.160 W/kg

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.088 mW/g



0 dB = 0.088mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 2010-04-29 11:19:33 Date/Time: 2010-04-29 11:27:13

IEEE1528_OET65-LeftHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.115 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 = 7.11 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.198 W/kg

SAR(1 g) = 0.103 mW/g; SAR(10 g) = 0.058 mW/g

Maximum value of SAR (measured) = 0.111 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 = 7.11 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.186 W/kg

SAR(1 g) = 0.098 mW/g; SAR(10 g) = 0.056 mW/g

Maximum value of SAR (measured) = 0.108 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 2: Measurement grid:

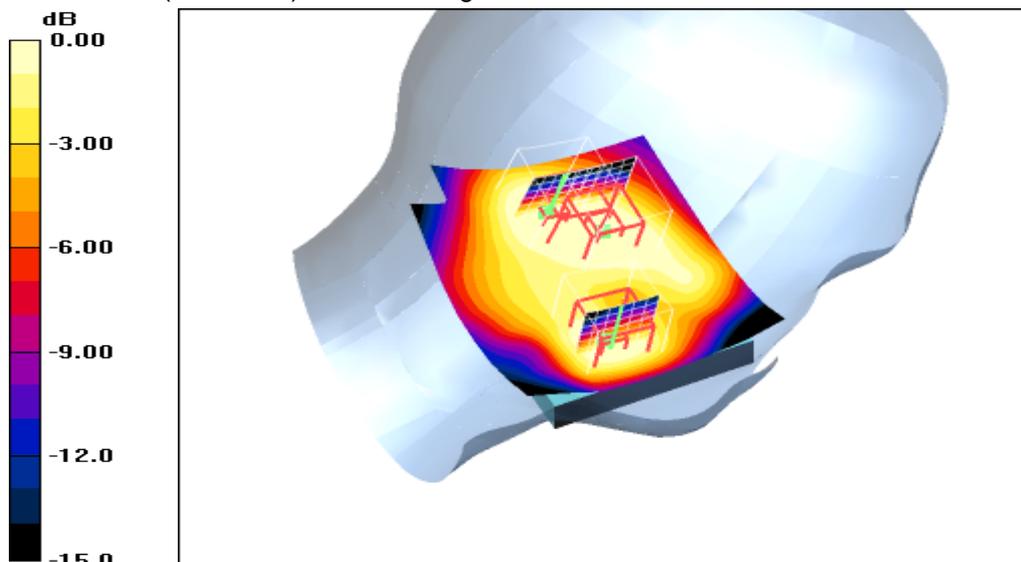
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.11 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.128 W/kg

SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.046 mW/g

Maximum value of SAR (measured) = 0.083 mW/g



Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 2010-04-29 14:39:34 Date/Time: 2010-04-29 14:47:59 Date/Time: 2010-04-29

IEEE1528_OET65-LeftHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.099 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 = 7.37 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.183 W/kg

SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.052 mW/g

Maximum value of SAR (measured) = 0.103 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.37 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.163 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.051 mW/g

Maximum value of SAR (measured) = 0.097 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 2: Measurement grid:

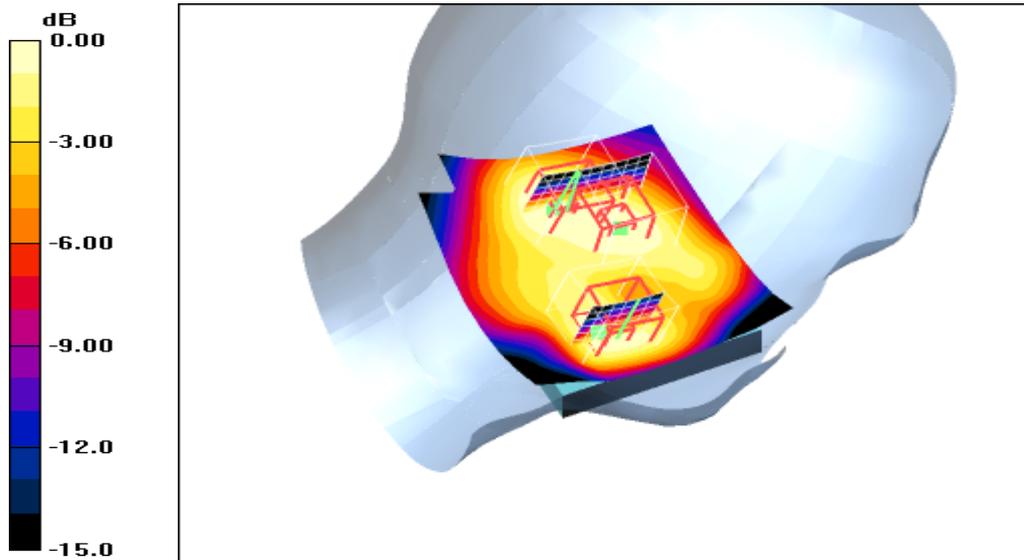
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.37 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.128 W/kg

SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.083 mW/g



Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 2010-04-29 09:32:57 Date/Time: 2010-04-29 09:41:28

IEEE1528_OET65-LeftHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.148 mW/g

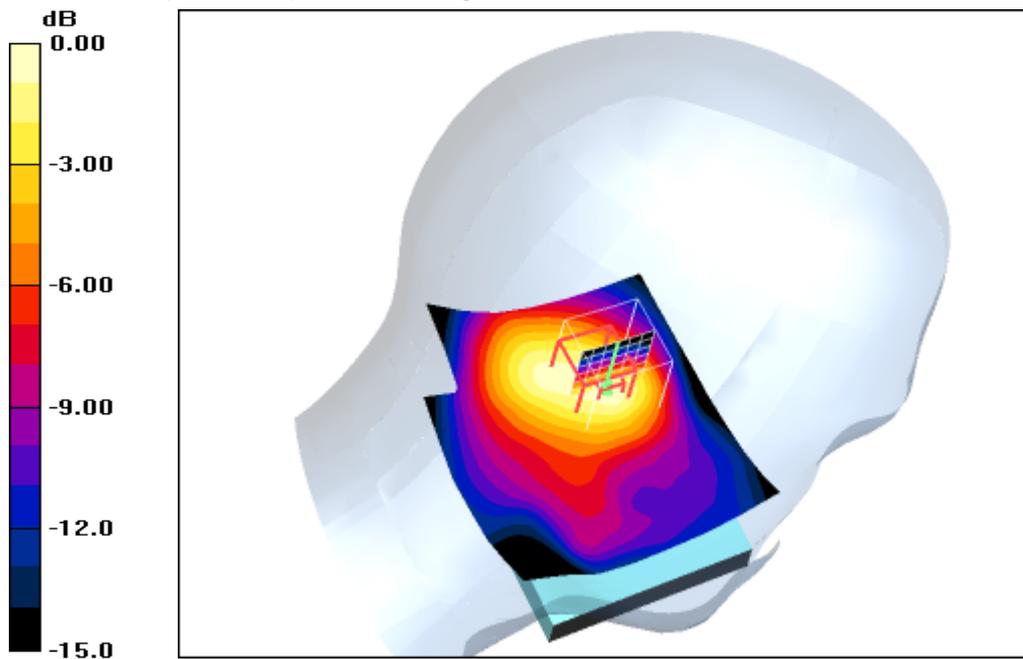
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.73 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.073 mW/g

Maximum value of SAR (measured) = 0.145 mW/g



0 dB = 0.145mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 2010-04-29 12:07:31 Date/Time: 2010-04-29 12:16:28

IEEE1528_OET65-LeftHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.150 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

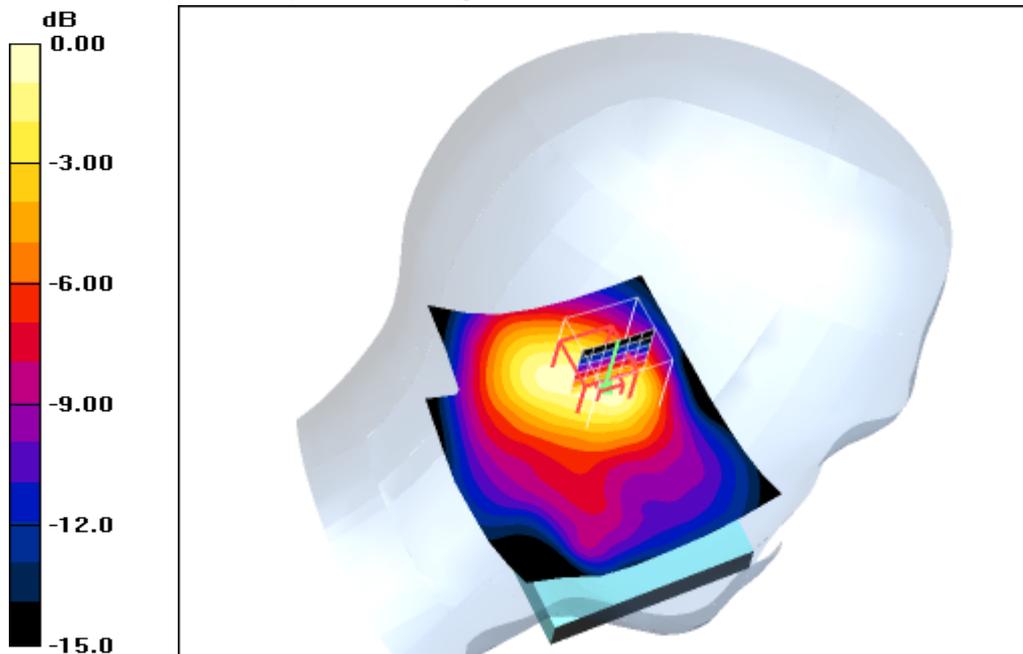
dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.74 V/m; Power Drift = 0.072 dB

Peak SAR (extrapolated) = 0.253 W/kg

SAR(1 g) = 0.136 mW/g; SAR(10 g) = 0.075 mW/g

Maximum value of SAR (measured) = 0.150 mW/g



Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 2010-04-29 15:24:27 Date/Time: 2010-04-29 15:32:08

IEEE1528_OET65-LeftHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.139 mW/g

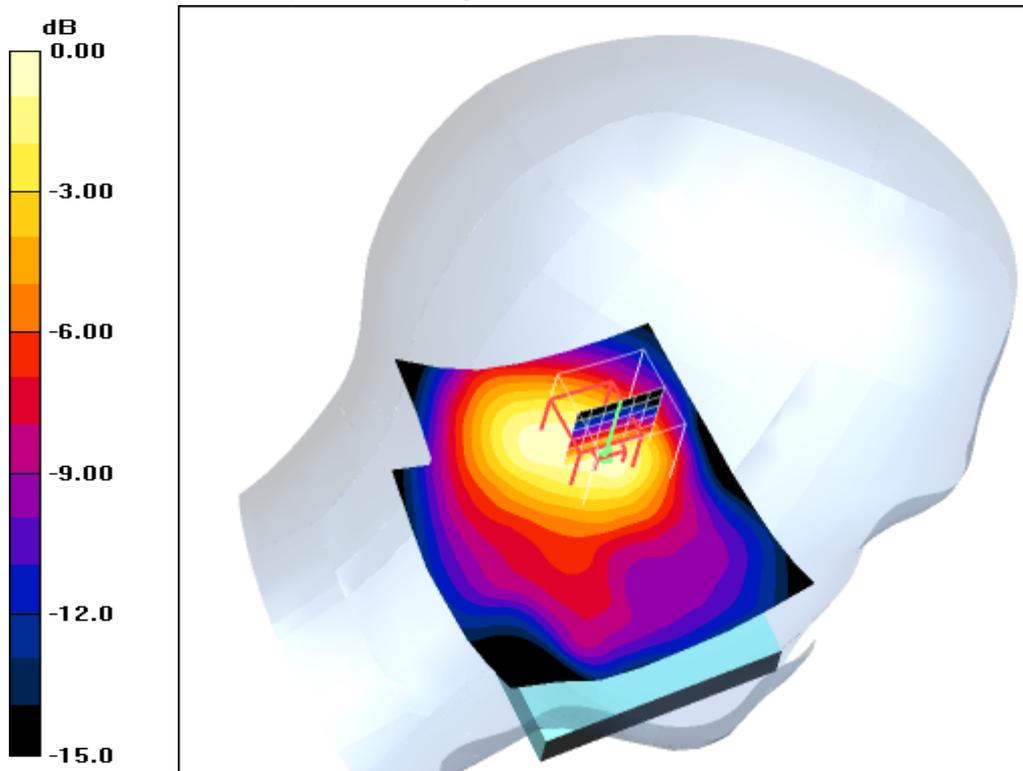
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.55 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.237 W/kg

SAR(1 g) = 0.125 mW/g; SAR(10 g) = 0.070 mW/g

Maximum value of SAR (measured) = 0.139 mW/g



0 dB = 0.139mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 2010-04-29 20:57:35 Date/Time: 2010-04-29 21:03:49 Date/Time: 2010-04-29 21:15:43

IEEE1528_OET65-RightHandSide-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.311 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 = 12.7 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.267 mW/g; SAR(10 g) = 0.146 mW/g

Maximum value of SAR (measured) = 0.292 mW/g

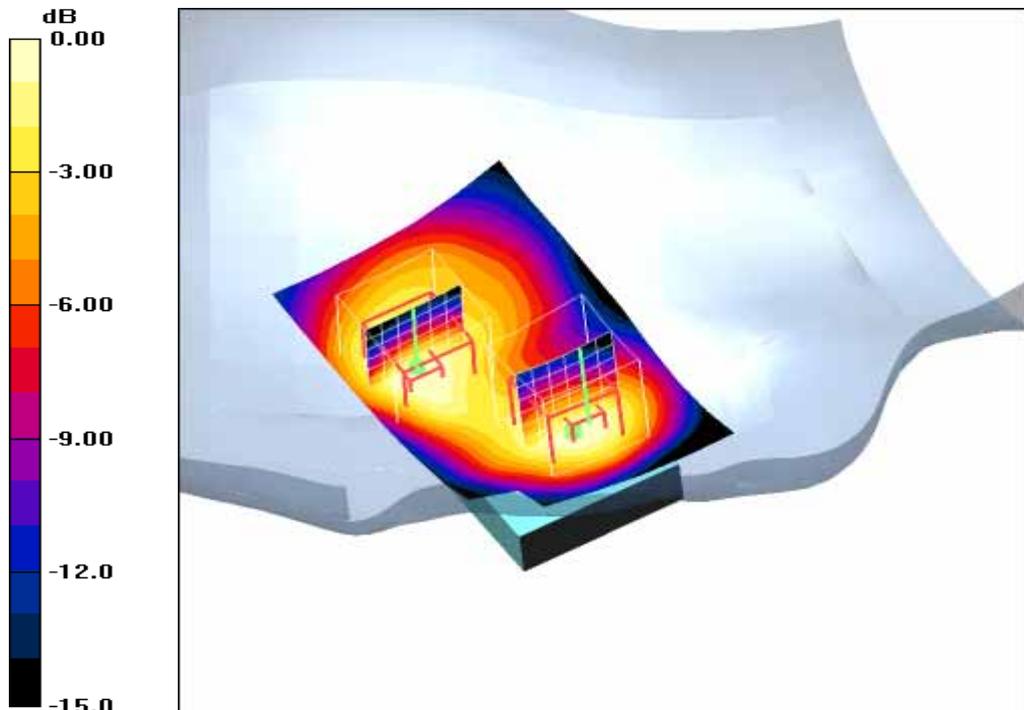
Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.7 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.354 W/kg

SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.135 mW/g

Maximum value of SAR (measured) = 0.265 mW/g



0 dB = 0.265mW/g

Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Date/Time: 2010-04-29 19:18:06 Date/Time: 2010-04-29 19:24:11 Date/Time: 2010-04-29 19:36:05

IEEE1528_OET65-RightHandSide-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.220 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 = 10.8 V/m; Power Drift = -0.169 dB

Peak SAR (extrapolated) = 0.351 W/kg

SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.098 mW/g

Maximum value of SAR (measured) = 0.210 mW/g

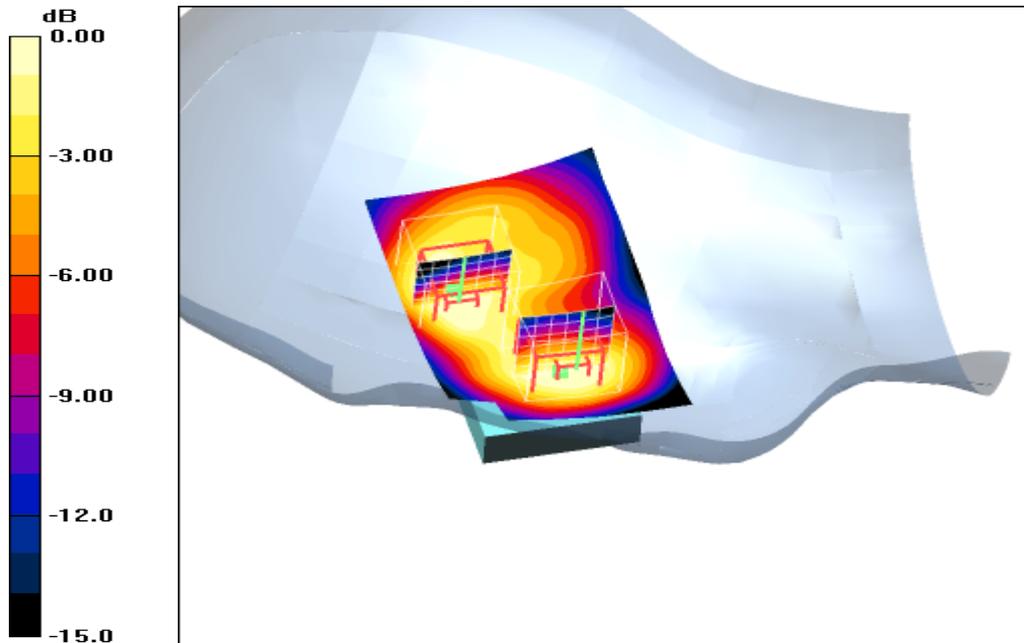
Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.8 V/m; Power Drift = -0.169 dB

Peak SAR (extrapolated) = 0.223 W/kg

SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.090 mW/g

Maximum value of SAR (measured) = 0.169 mW/g



0 dB = 0.169mW/g

Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Date/Time: 2010-04-29 17:04:05 Date/Time: 2010-04-29 17:10:08 Date/Time: 2010-04-29 17:22:14

IEEE1528_OET65-RightHandSide-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.267 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 = 11.8 V/m; Power Drift = -0.192 dB

Peak SAR (extrapolated) = 0.311 W/kg

SAR(1 g) = 0.215 mW/g; SAR(10 g) = 0.125 mW/g

Maximum value of SAR (measured) = 0.236 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

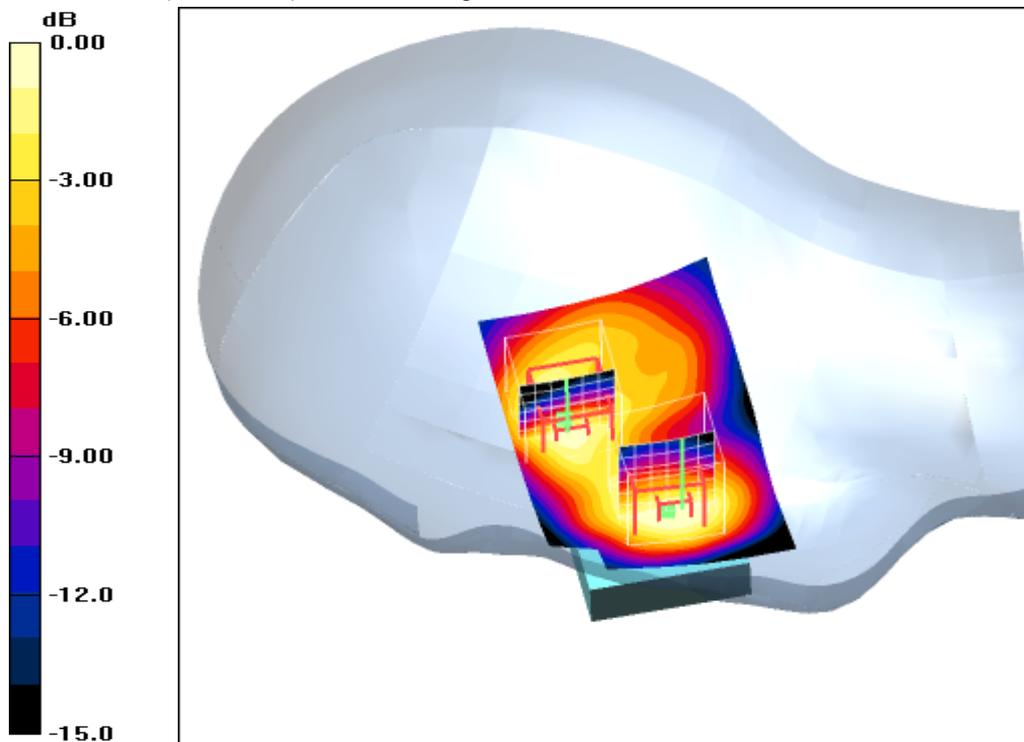
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.8 V/m; Power Drift = -0.192 dB

Peak SAR (extrapolated) = 0.400 W/kg

SAR(1 g) = 0.215 mW/g; SAR(10 g) = 0.114 mW/g

Maximum value of SAR (measured) = 0.237 mW/g



0 dB = 0.237mW/g

Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Date/Time: 2010-04-29 20:36:37 Date/Time: 2010-04-29 20:42:53

IEEE1528_OET65-RightHandSide-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.290 mW/g

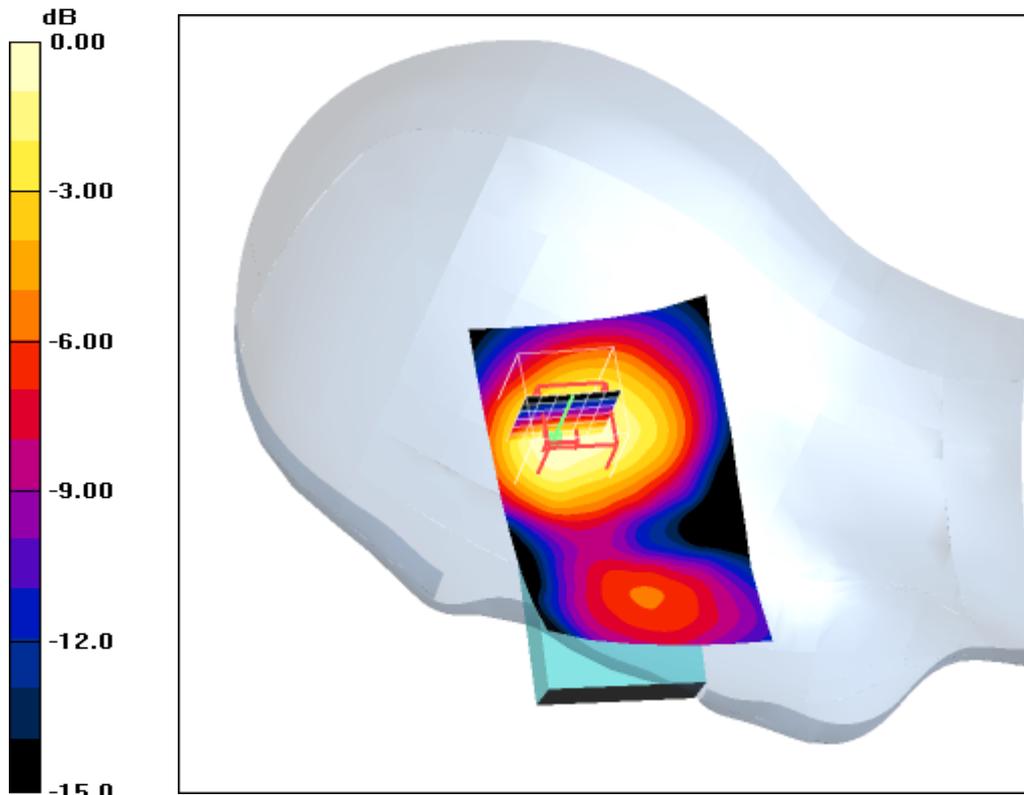
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.7 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 0.468 W/kg

SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.139 mW/g

Maximum value of SAR (measured) = 0.276 mW/g



0 dB = 0.276mW/g

Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Date/Time: 2010-04-29 20:13:21 Date/Time: 2010-04-29 20:19:35

IEEE1528_OET65-RightHandSide-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.250 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

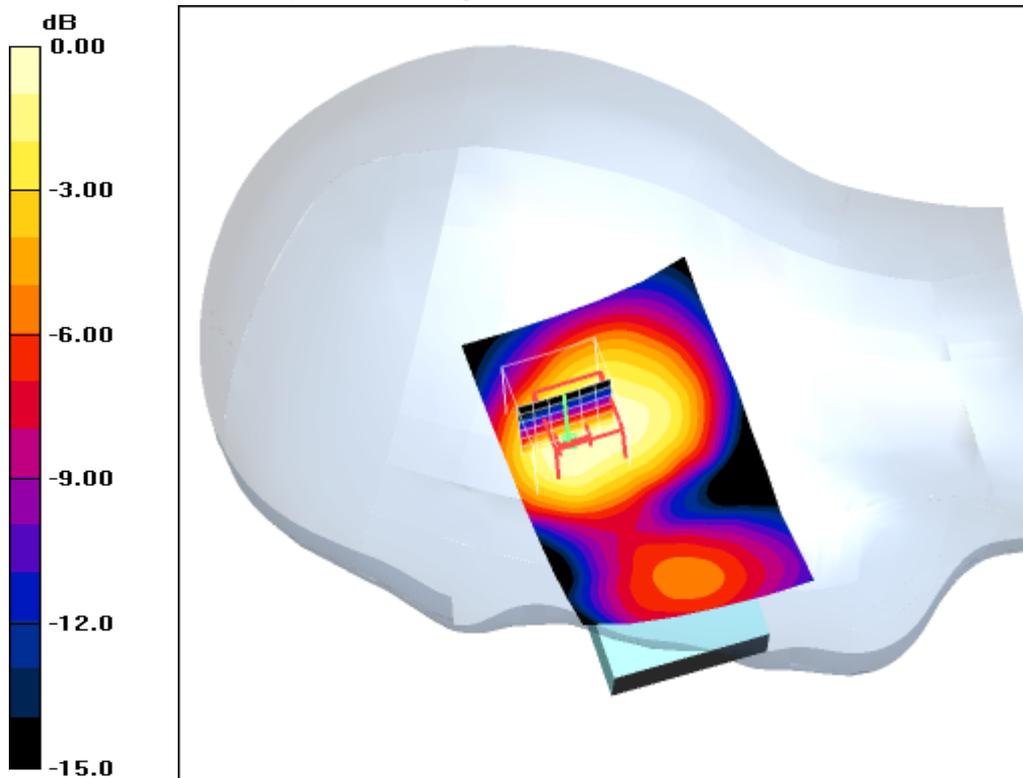
dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.382 W/kg

SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.114 mW/g

Maximum value of SAR (measured) = 0.224 mW/g



Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Date/Time: 2010-04-29 16:25:53 Date/Time: 2010-04-29 16:31:57 Date/Time: 2010-04-29 16:43:47

IEEE1528_OET65-RightHandSide-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.132 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 = 7.95 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.224 W/kg

SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.063 mW/g

Maximum value of SAR (measured) = 0.126 mW/g

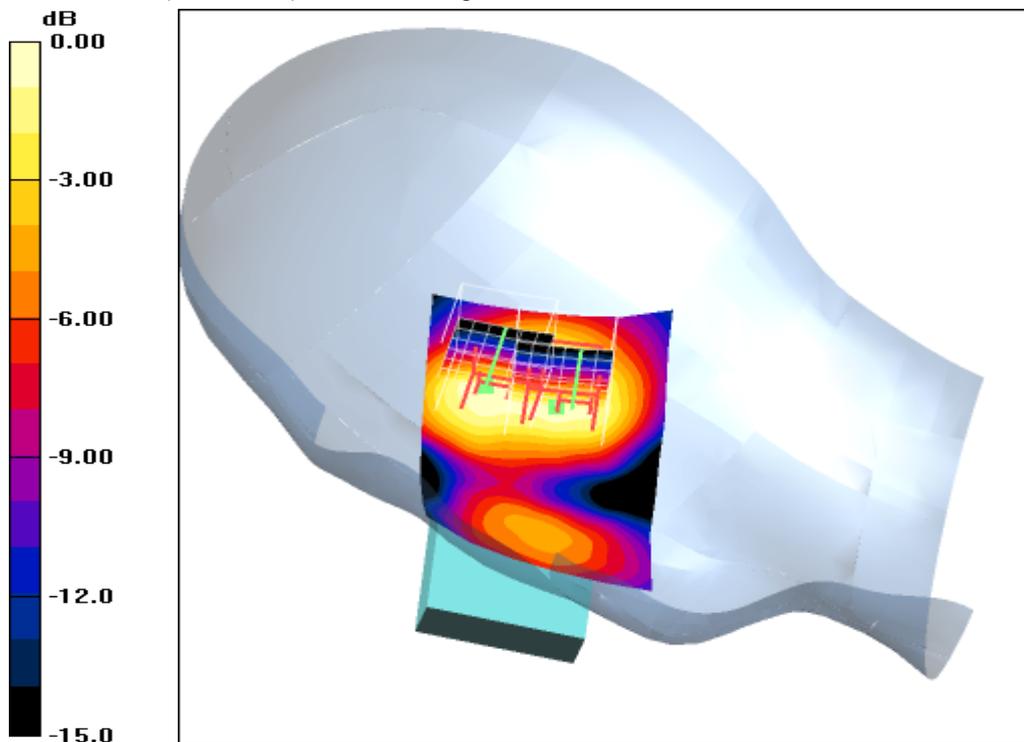
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.95 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.060 mW/g

Maximum value of SAR (measured) = 0.121 mW/g



Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Date/Time: 2010-04-29 22:10:38 Date/Time: 2010-04-29 22:18:32

IEEE1528_OET65-RightHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

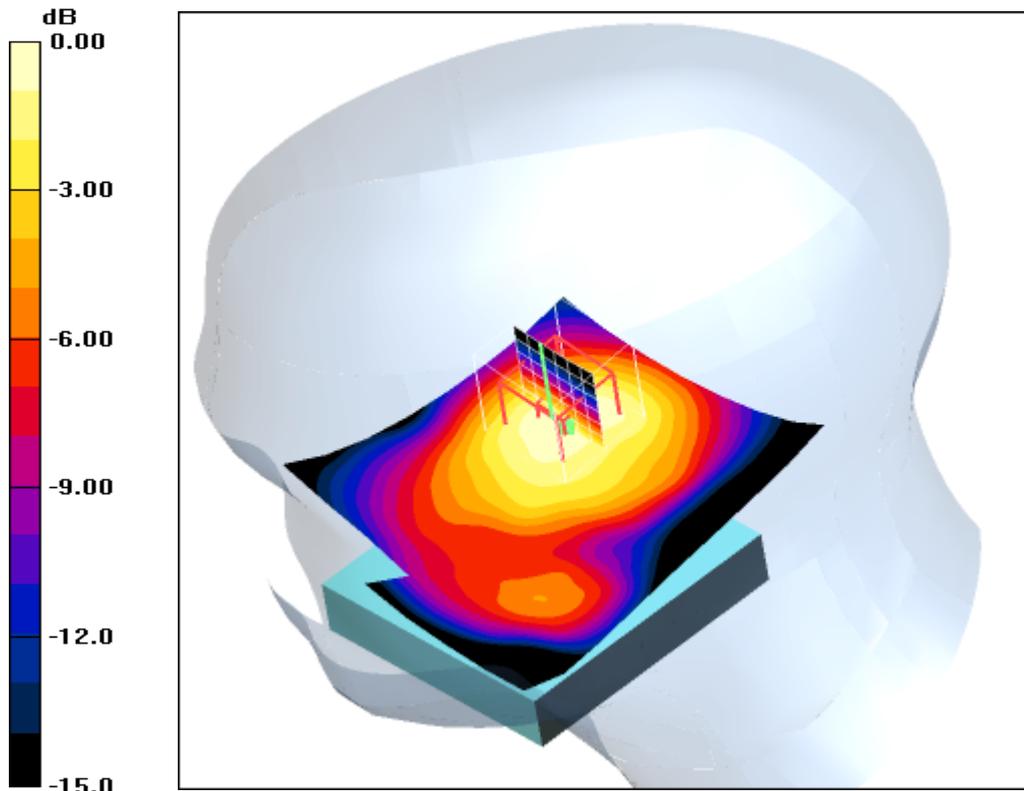
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.285 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 = 12.5 V/m; Power Drift = -0.103 dB
 Peak SAR (extrapolated) = 0.462 W/kg
SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.131 mW/g
 Maximum value of SAR (measured) = 0.263 mW/g



0 dB = 0.263mW/g

Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Date/Time: 2010-04-29 18:52:39 Date/Time: 2010-04-29 19:00:27

IEEE1528_OET65-RightHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.284 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

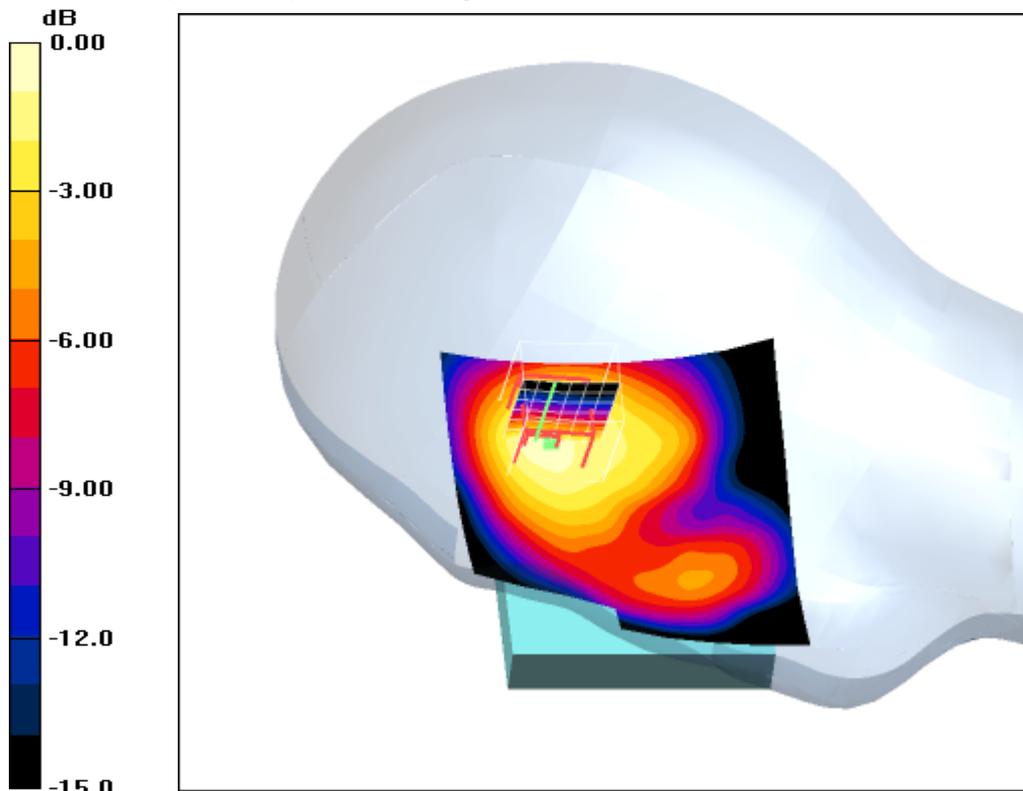
dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.519 W/kg

SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.139 mW/g

Maximum value of SAR (measured) = 0.280 mW/g



0 dB = 0.280mW/g

Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Date/Time: 2010-04-29 17:37:46 Date/Time: 2010-04-29 17:45:34

IEEE1528_OET65-RightHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.357 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

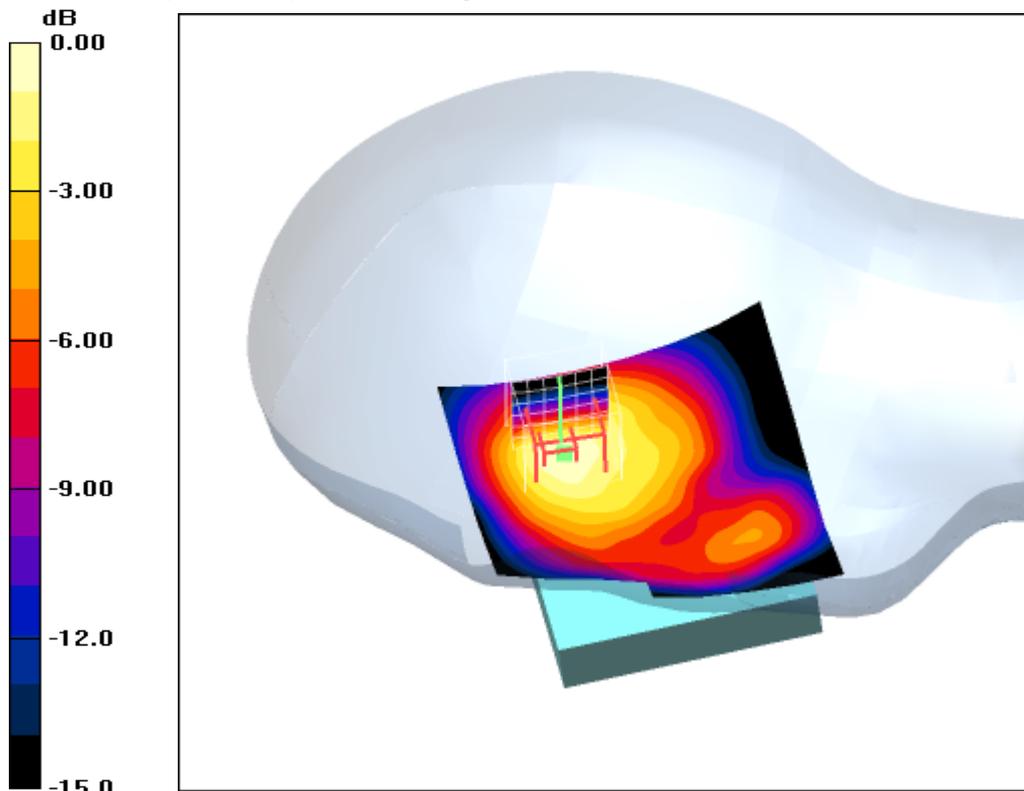
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.0 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.615 W/kg

SAR(1 g) = 0.307 mW/g; SAR(10 g) = 0.163 mW/g

Maximum value of SAR (measured) = 0.328 mW/g



0 dB = 0.328mW/g

Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Date/Time: 2010-04-29 21:34:24 Date/Time: 2010-04-29 21:45:27

IEEE1528_OET65-RightHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.267 mW/g

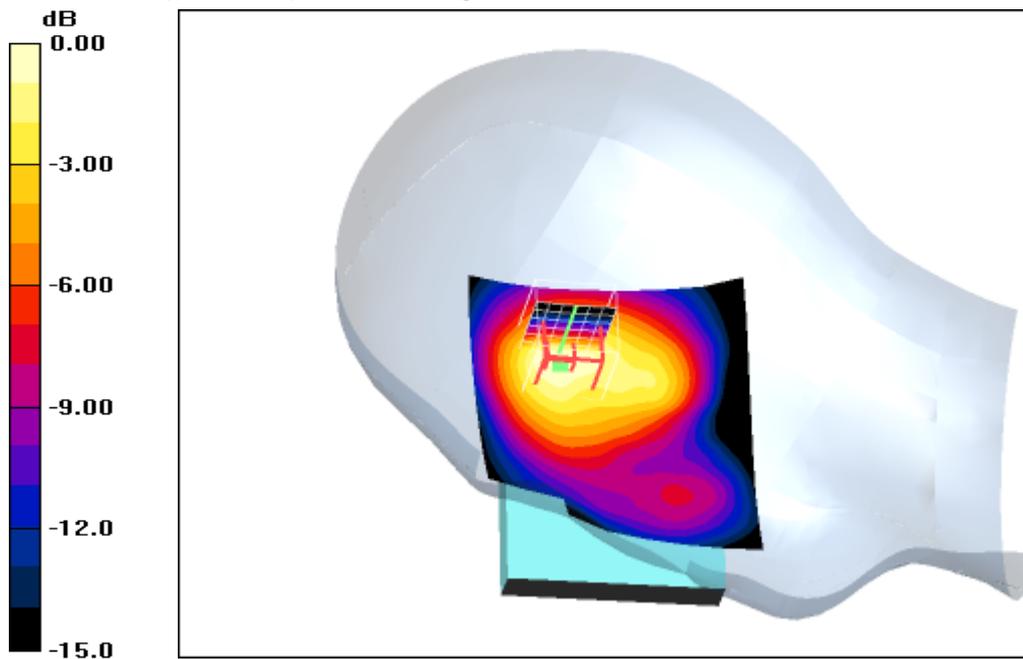
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.9 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.473 W/kg

SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.248 mW/g



0 dB = 0.248mW/g

Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Date/Time: 2010-04-29 18:30:09 Date/Time: 2010-04-29 18:38:03

IEEE1528_OET65-RightHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.339 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

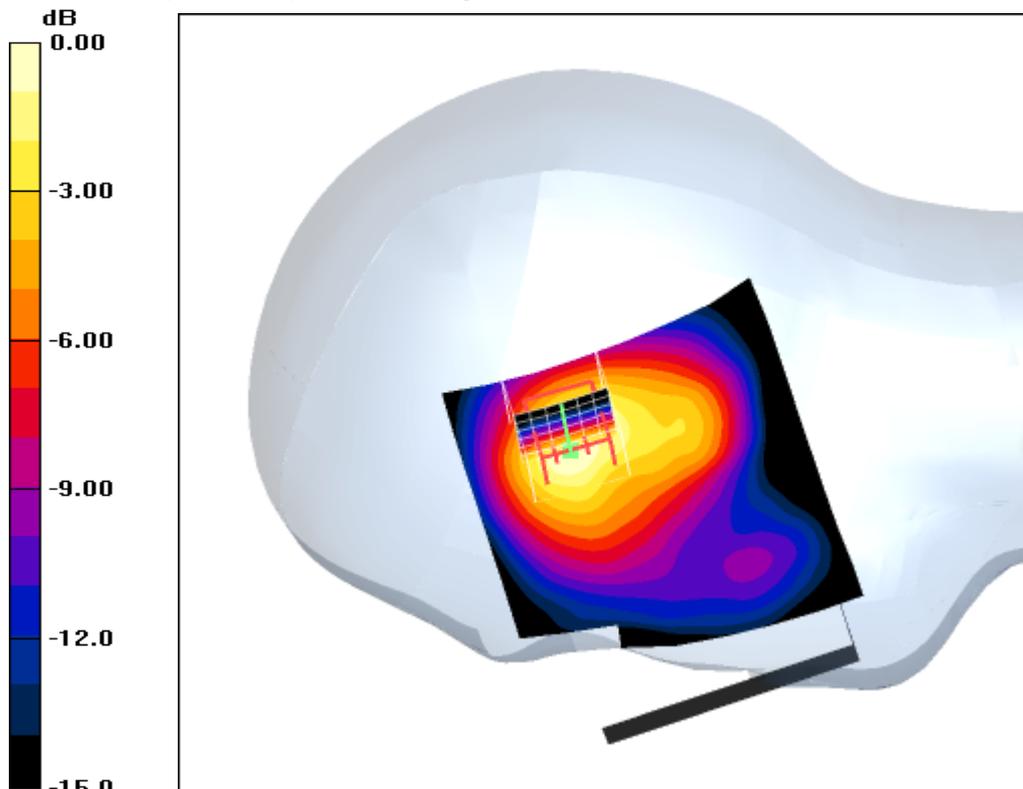
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.5 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.621 W/kg

SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.148 mW/g

Maximum value of SAR (measured) = 0.319 mW/g



0 dB = 0.319mW/g

Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Date/Time: 2010-04-29 18:04:52 Date/Time: 2010-04-29 18:12:44

IEEE1528_OET65-RightHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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 (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.288 mW/g

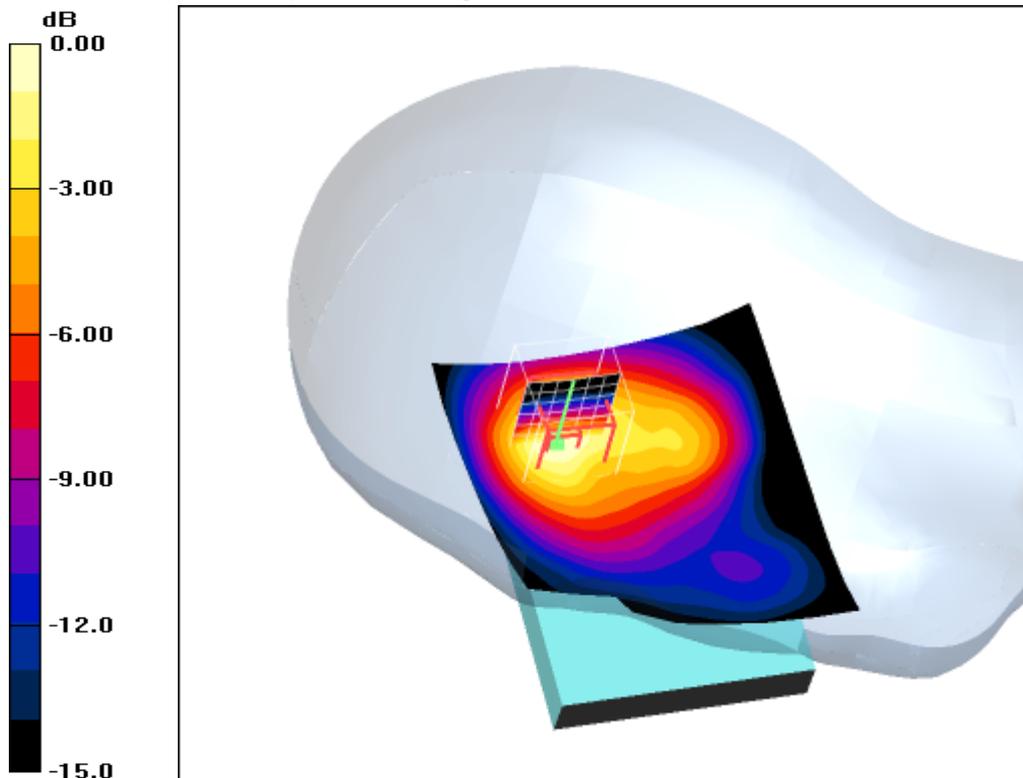
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.3 V/m; Power Drift = -0.093 dB

Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.246 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.269 mW/g



0 dB = 0.269mW/g

Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Date/Time: 2010-04-29 23:07:24 Date/Time: 2010-04-29 23:14:53

IEEE1528_OET65-RightHandSide-WLAN2450 open

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.42, 4.42, 4.42); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High 6Mbps/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.116 mW/g

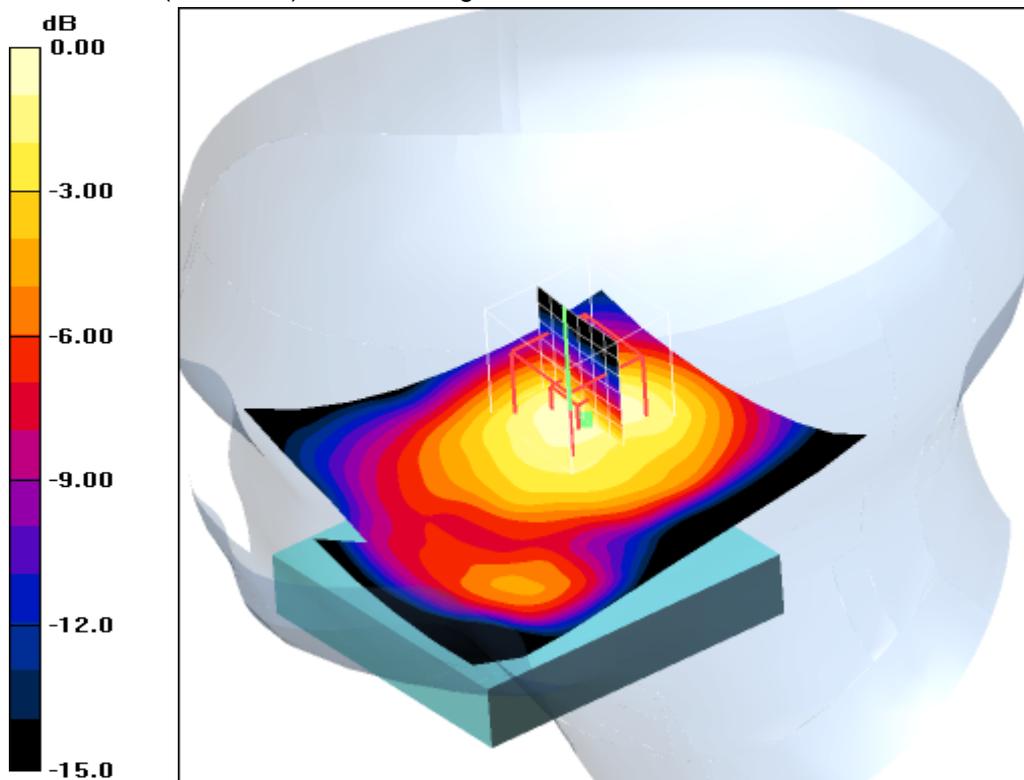
Touch position - High 6Mbps/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.76 V/m; Power Drift = -0.177 dB

Peak SAR (extrapolated) = 0.208 W/kg

SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.055 mW/g

Maximum value of SAR (measured) = 0.113 mW/g



0 dB = 0.113mW/g

Additional information:

ambient temperature: 23.9°C; liquid temperature: 22.6°C

Annex B.6: WLAN 2450MHz body

Date/Time: 2010-04-28 14:48:15 Date/Time: 2010-04-28 14:54:41 Date/Time: 2010-04-28 15:06:19

IEEE1528_OET65-Body-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.04, 4.04, 4.04); Calibrated: 2010-01-20

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn477; Calibrated: 2009-05-14

- 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: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.079 mW/g

Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

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

Reference Value = 6.45 V/m; Power Drift = -0.149 dB

Peak SAR (extrapolated) = 0.128 W/kg

SAR(1 g) = 0.071 mW/g; SAR(10 g) = 0.042 mW/g

Maximum value of SAR (measured) = 0.077 mW/g

Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

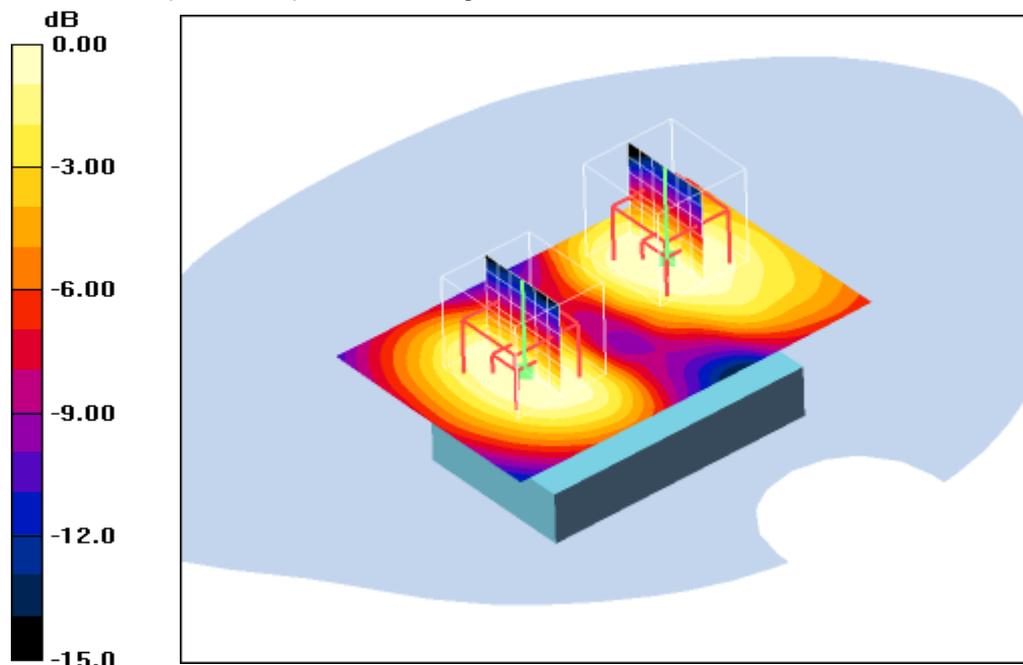
$dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.45 V/m; Power Drift = -0.149 dB

Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.065 mW/g; SAR(10 g) = 0.038 mW/g

Maximum value of SAR (measured) = 0.069 mW/g



0 dB = 0.069mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.8°C; liquid temperature: 22.7°C

Date/Time: 2010-04-28 14:09:24 Date/Time: 2010-04-28 14:14:47 Date/Time: 2010-04-28 14:26:24

IEEE1528_OET65-Body-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.04, 4.04, 4.04); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.071 mW/g

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

Reference Value = 1.88 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 0.111 W/kg

SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.066 mW/g

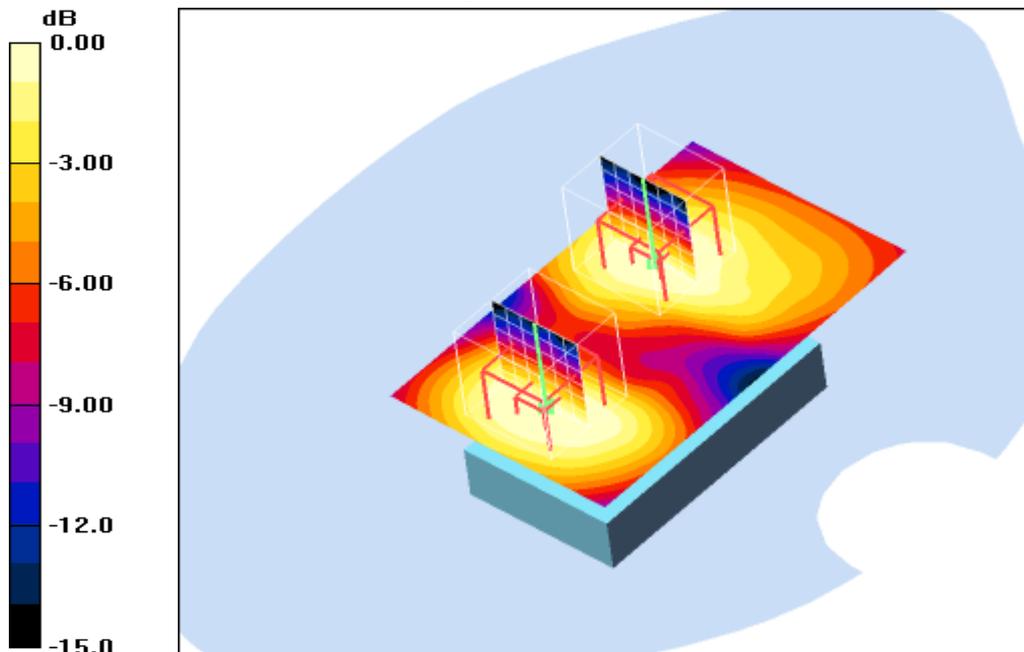
Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.88 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 0.104 W/kg

SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.035 mW/g

Maximum value of SAR (measured) = 0.063 mW/g



Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.8°C; liquid temperature: 22.7°C

Date/Time: 2010-04-28 16:07:12 Date/Time: 2010-04-28 16:13:09 Date/Time: 2010-04-28 16:24:48

IEEE1528_OET65-Body-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.04, 4.04, 4.04); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.069 mW/g

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

Reference Value = 6.08 V/m; Power Drift = -0.145 dB

Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.062 mW/g

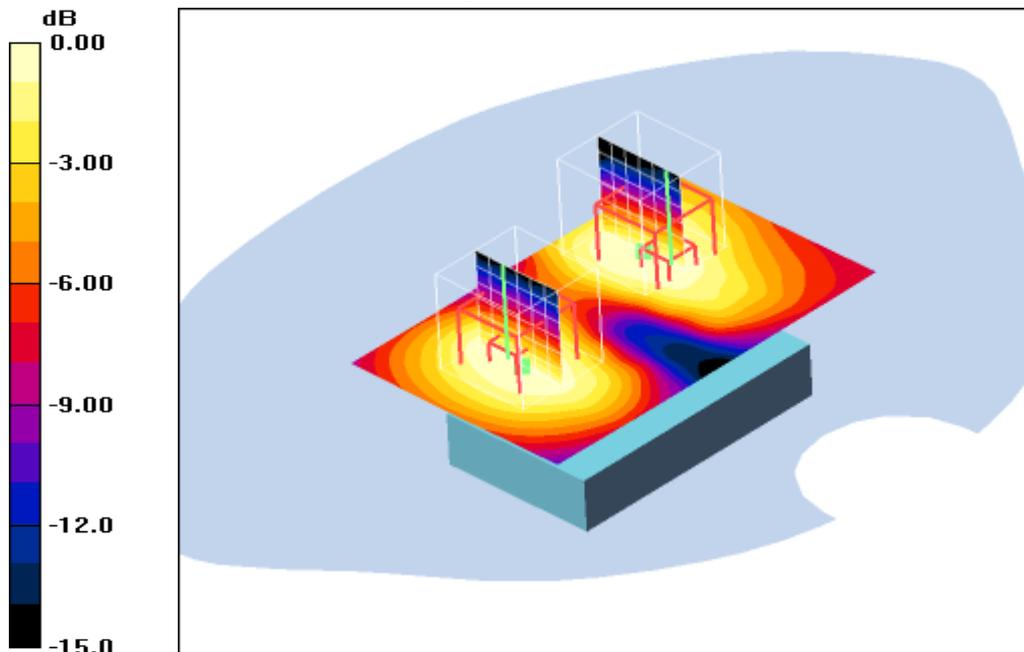
Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.08 V/m; Power Drift = -0.145 dB

Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.061 mW/g



0 dB = 0.061mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.8°C; liquid temperature: 22.7°C

Date/Time: 2010-04-28 15:20:54 Date/Time: 2010-04-28 15:26:22

IEEE1528_OET65-Body-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.04, 4.04, 4.04); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.239 mW/g

Rear position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

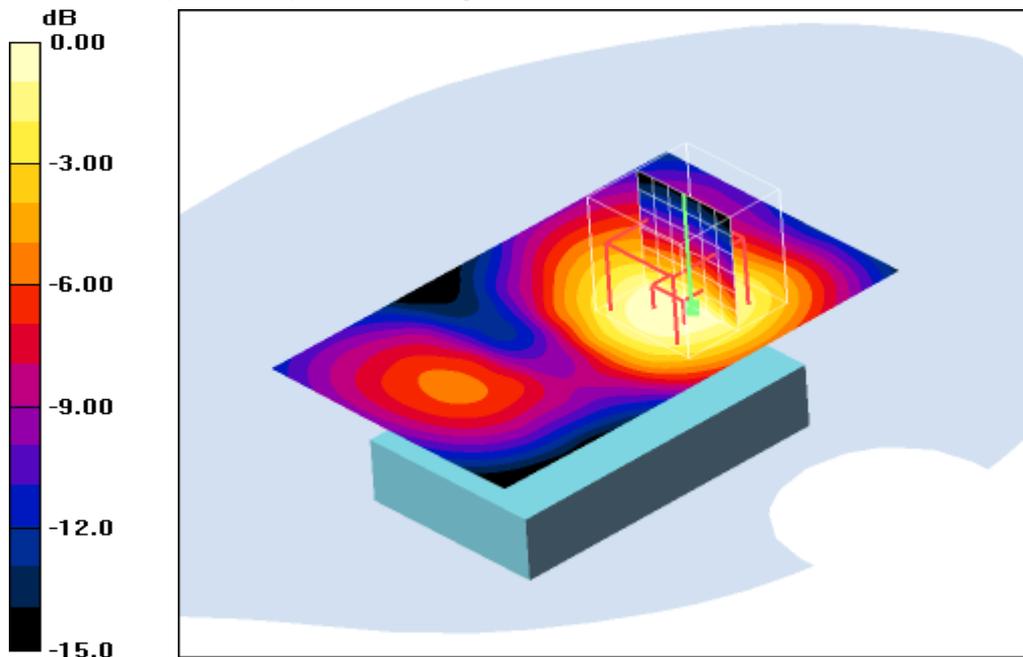
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.83 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.436 W/kg

SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.123 mW/g

Maximum value of SAR (measured) = 0.231 mW/g



0 dB = 0.231mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.8°C; liquid temperature: 22.7°C

Date/Time: 2010-04-28 13:48:49 Date/Time: 2010-04-28 13:54:11

IEEE1528_OET65-Body-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.04, 4.04, 4.04); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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) = 0.279 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

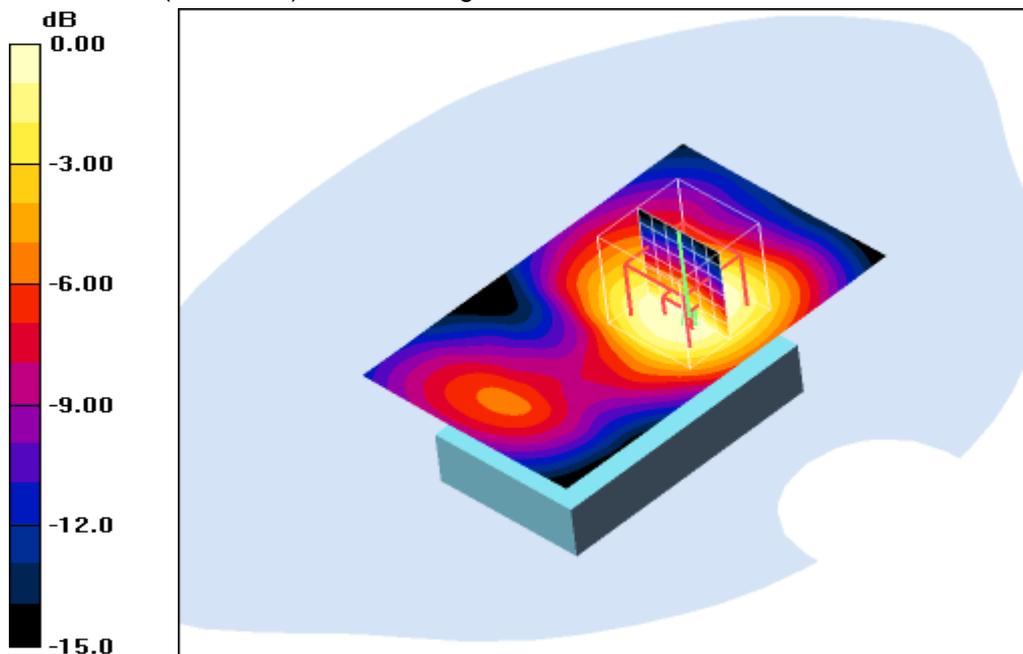
dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.60 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 0.498 W/kg

SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.141 mW/g

Maximum value of SAR (measured) = 0.264 mW/g



0 dB = 0.264mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.8°C; liquid temperature: 22.7°C

Date/Time: 2010-04-28 15:47:45 Date/Time: 2010-04-28 15:53:15

IEEE1528_OET65-Body-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.04, 4.04, 4.04); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.234 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

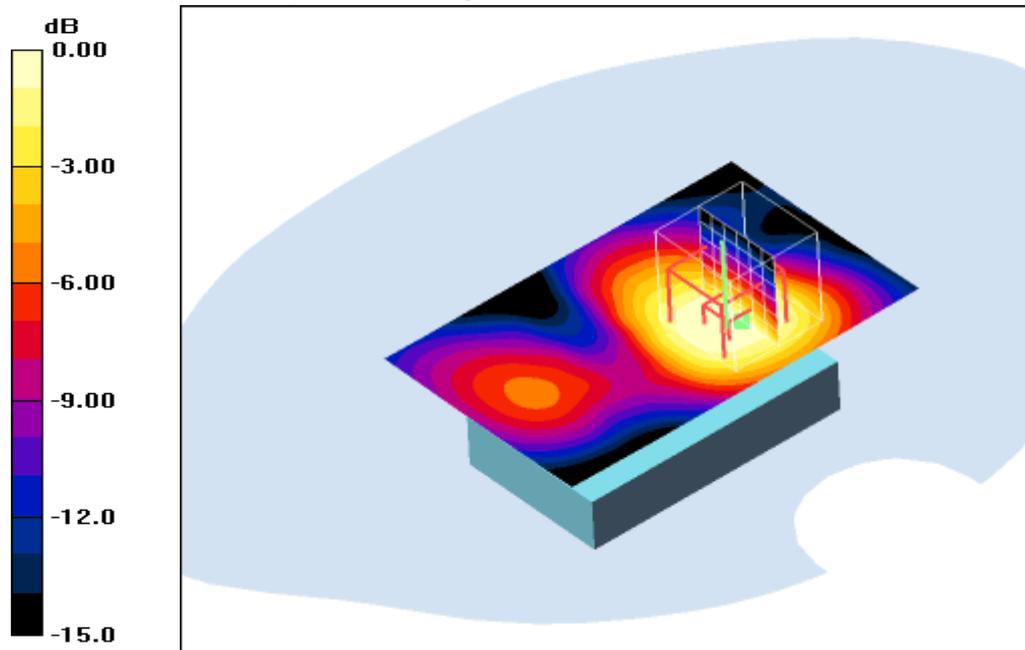
dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.61 V/m; Power Drift = -0.178 dB

Peak SAR (extrapolated) = 0.404 W/kg

SAR(1 g) = 0.200 mW/g; SAR(10 g) = 0.113 mW/g

Maximum value of SAR (measured) = 0.213 mW/g



Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 23.8°C; liquid temperature: 22.7°C

Date/Time: 2010-04-28 17:27:25 Date/Time: 2010-04-28 17:32:59

IEEE1528_OET65-Body-WLAN2450

DUT: Sony Ericsson; Type: AAD-3880072-BV; Serial: CB511H8BQ4

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.04, 4.04, 4.04); Calibrated: 2010-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 2009-05-14
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle 6Mbps/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.143 mW/g

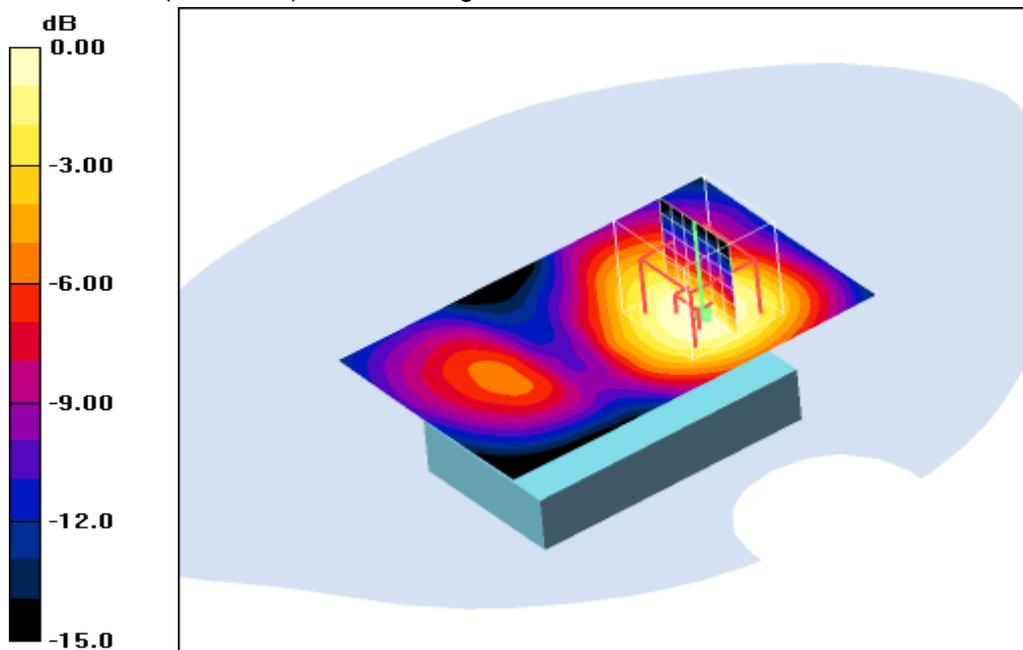
Rear position - Middle 6Mbps/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.57 V/m; Power Drift = -0.169 dB

Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.072 mW/g

Maximum value of SAR (measured) = 0.136 mW/g



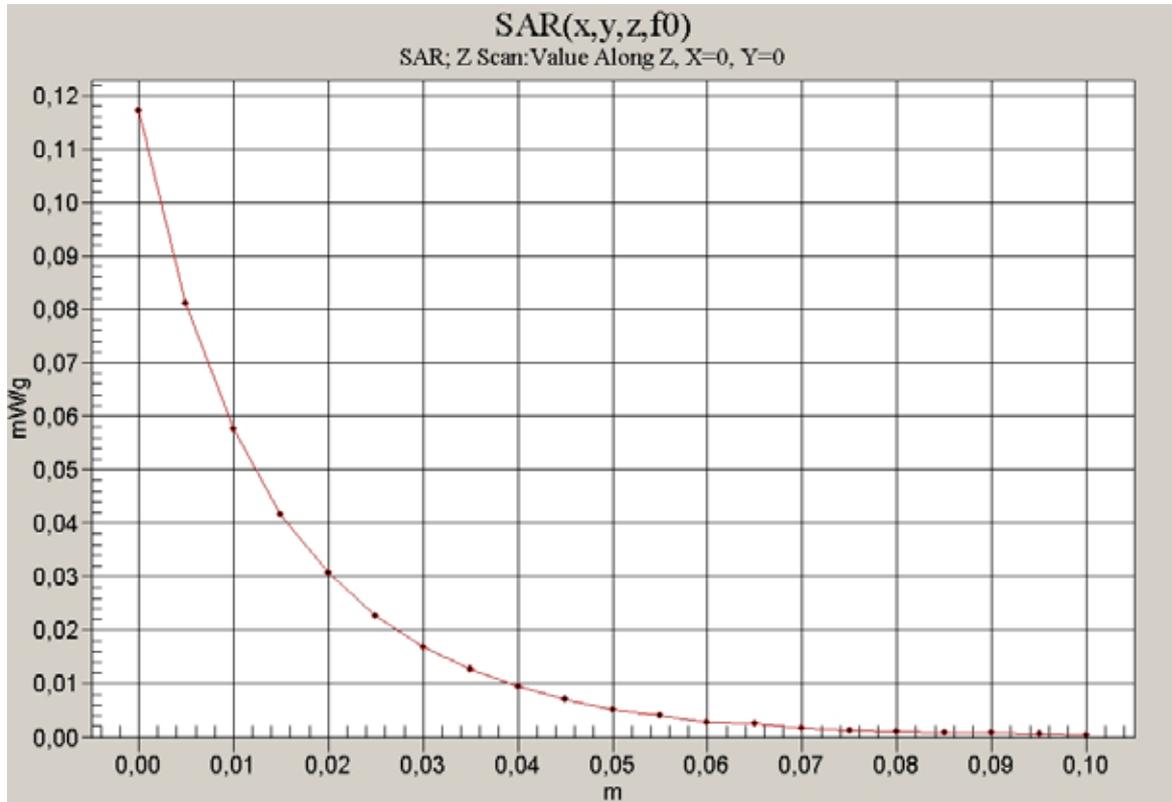
0 dB = 0.136mW/g

Additional information:

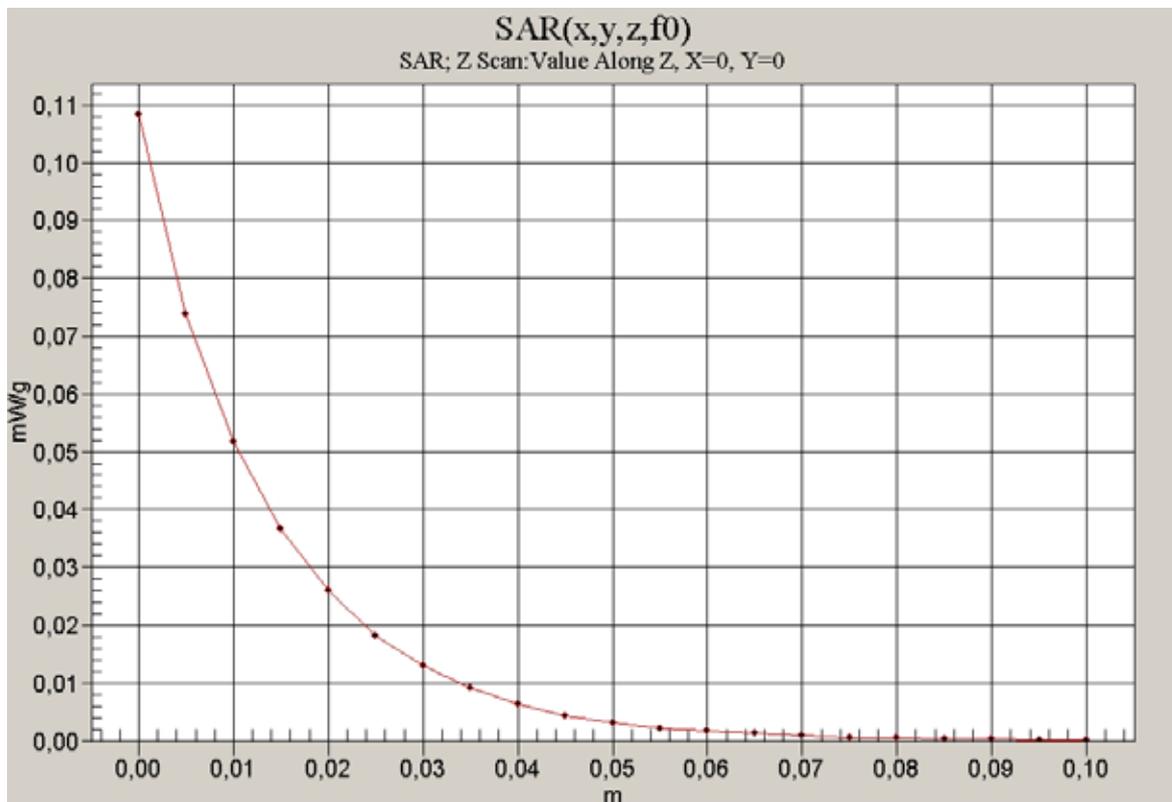
position or distance of DUT to SAM: 15 mm

ambient temperature: 23.8°C; liquid temperature: 22.7°C

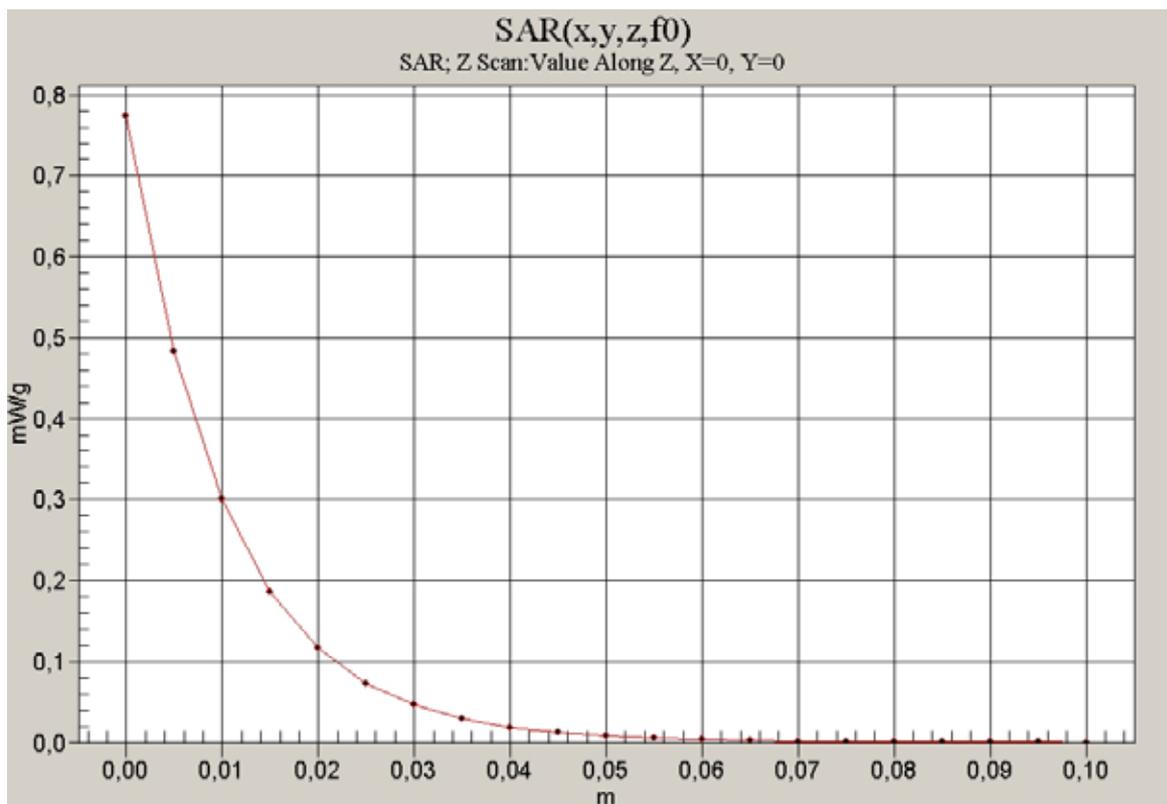
Annex B.7: Z-axis scan



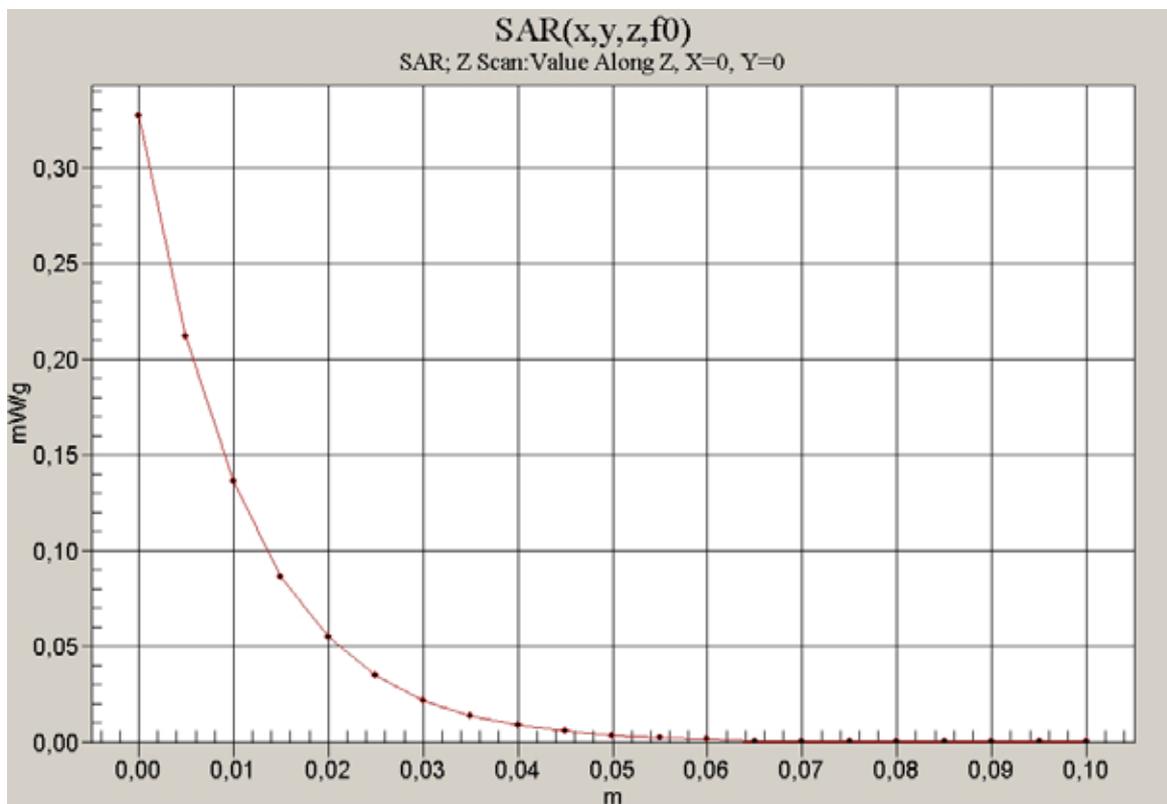
850 head



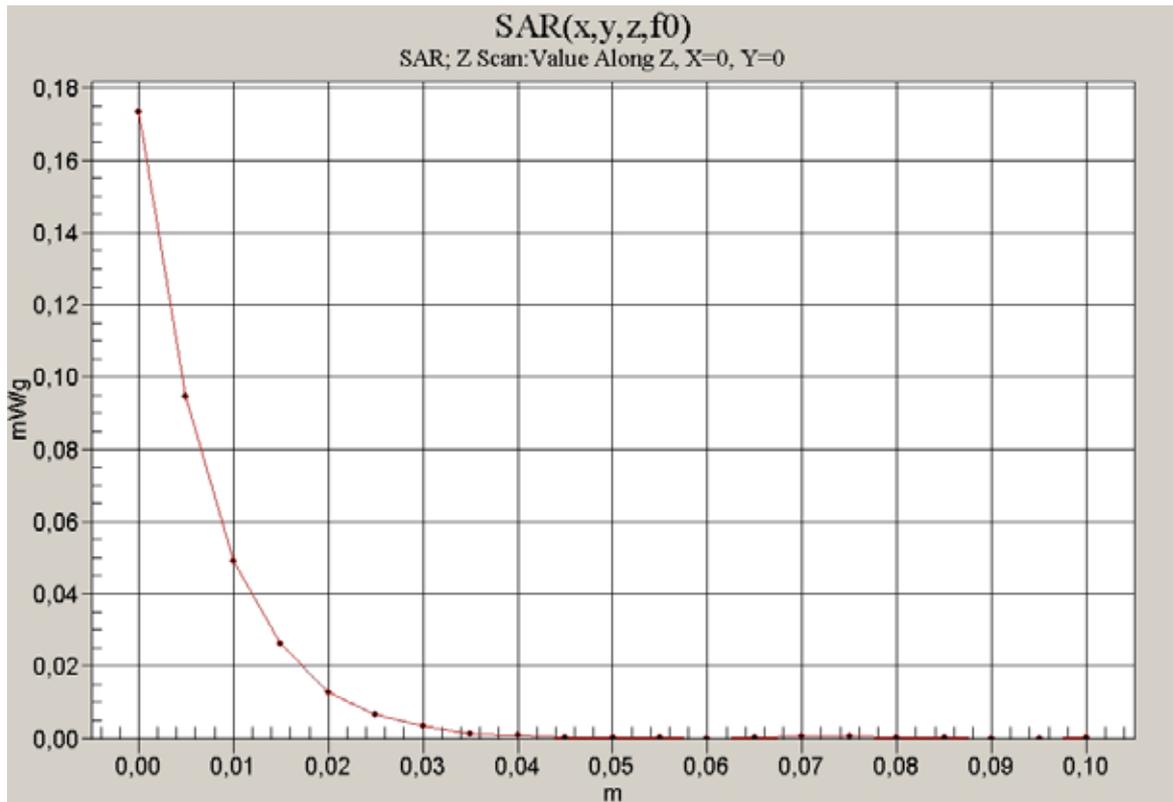
850 body



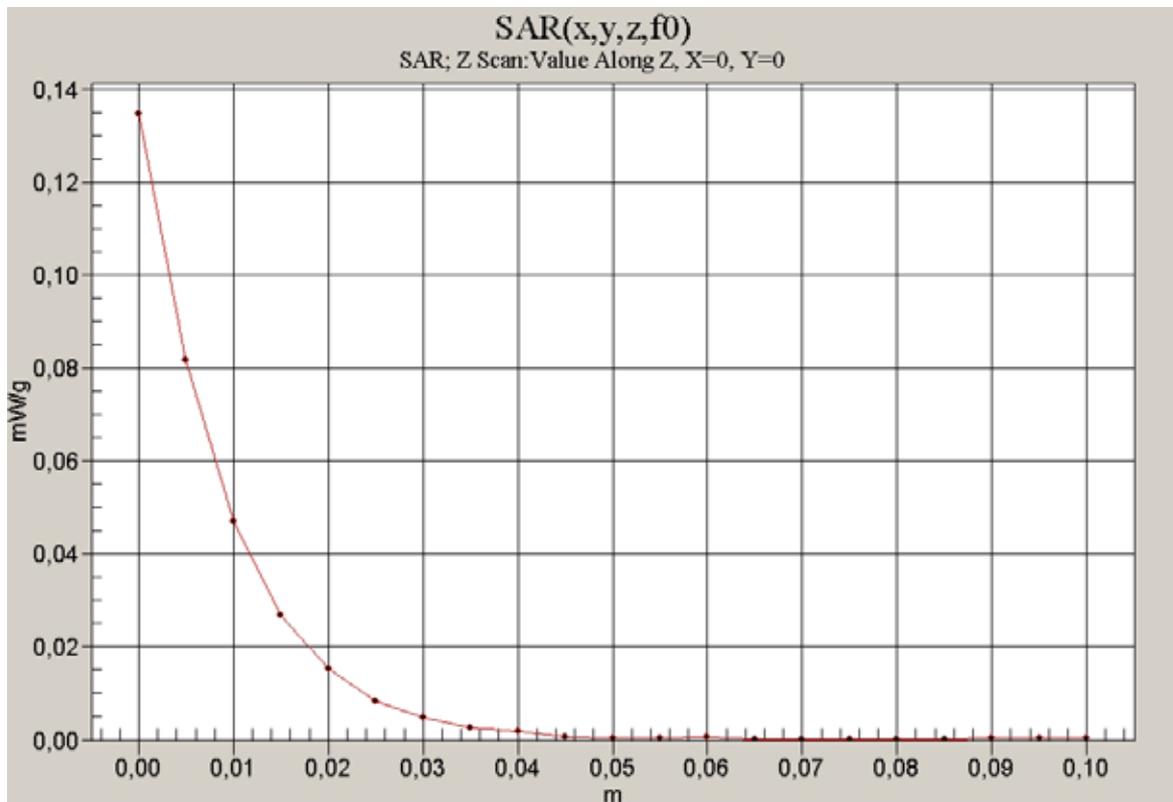
1900 head



1900 body



2450 head



2450 body

Annex B.8: Liquid depth

Photo 1: Liquid depth 850 MHz head simulating liquid



Photo 2: Liquid depth 850 MHz body simulating liquid



Photo 3: Liquid depth 1900MHz head simulating liquid



Photo 4: Liquid depth 1900 MHz body simulating liquid



Photo 5: Liquid depth 2450MHz head simulating liquid



Photo 6: Liquid depth 2450MHz body simulating liquid



Annex C: Photo documentation

Photo 1: Measurement System DASY 4



Photo 2: DUT - front view



Photo 3: DUT - front view (slide opened)



Photo 4: DUT - side view



Photo 5: DUT - rear view



Photo 6: DUT - rear view (open)



Photo 7: DUT - rear view (open) without battery



Photo 8: DUT - rear view (label)



Photo 9: Battery



Photo 10: Test position left hand touched

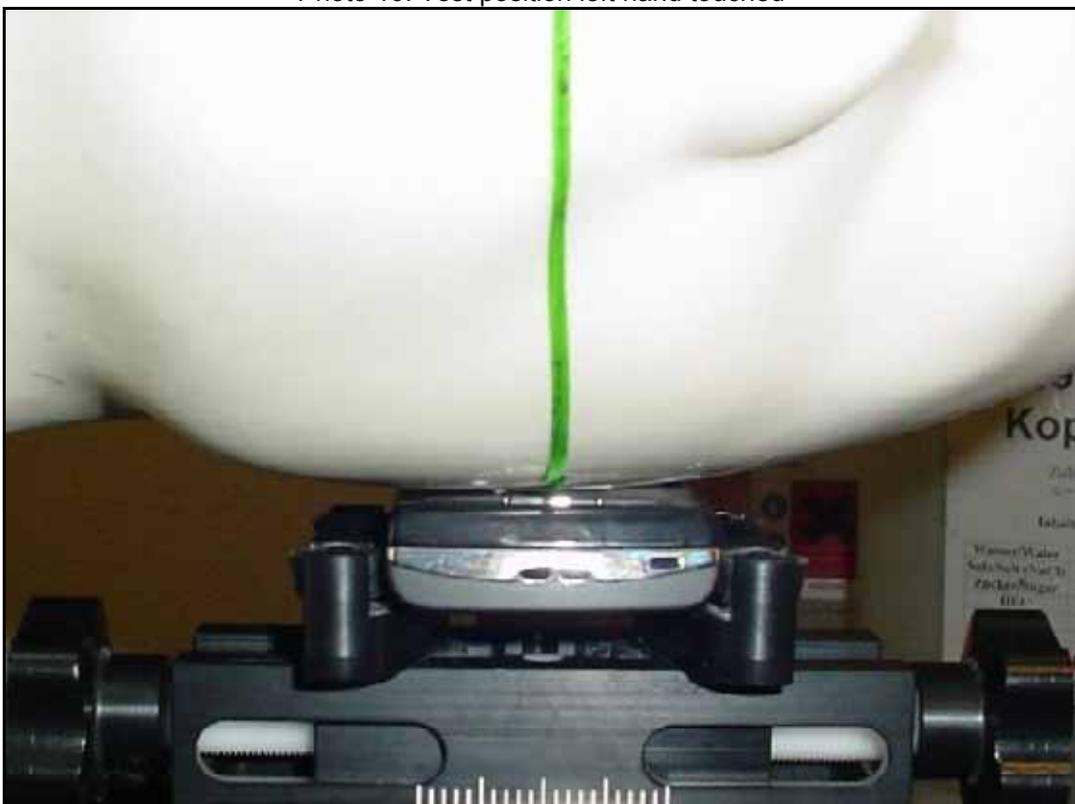


Photo 11: Test position left hand touched



Photo 12: Test position left hand touched



Photo 13: Test position left hand tilted 15°

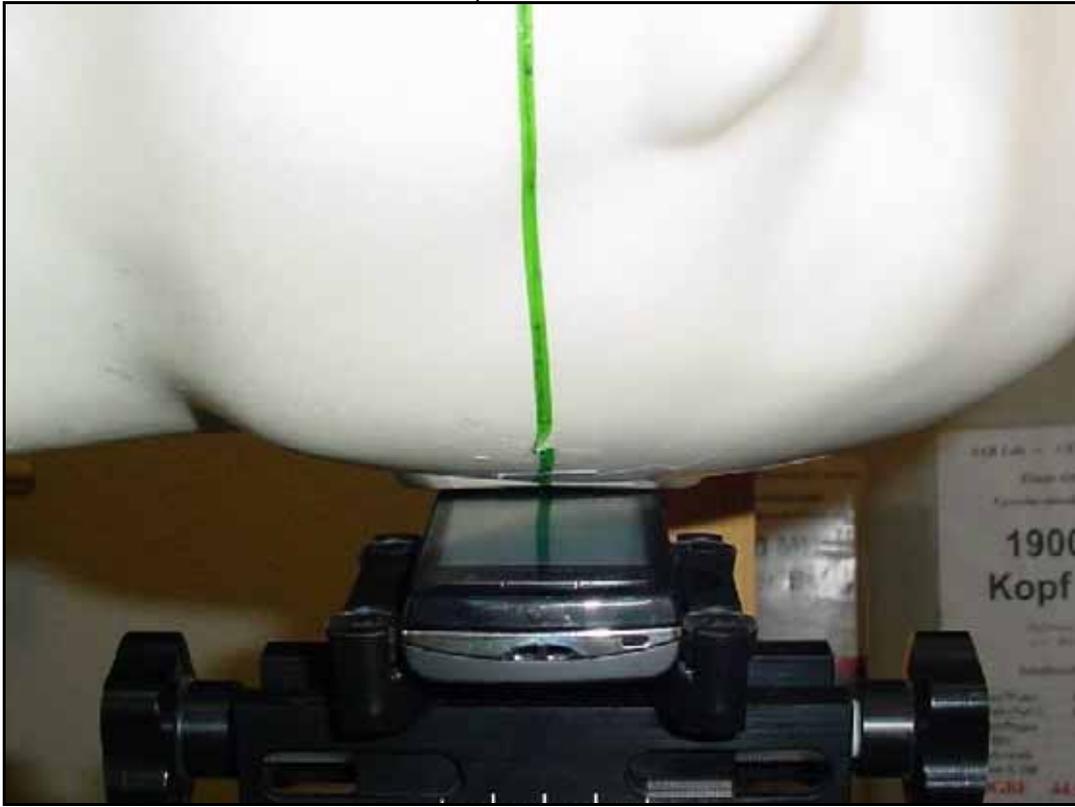


Photo 14: Test position left hand tilted 15°



Photo 15: Test position left hand touched (slide opened)

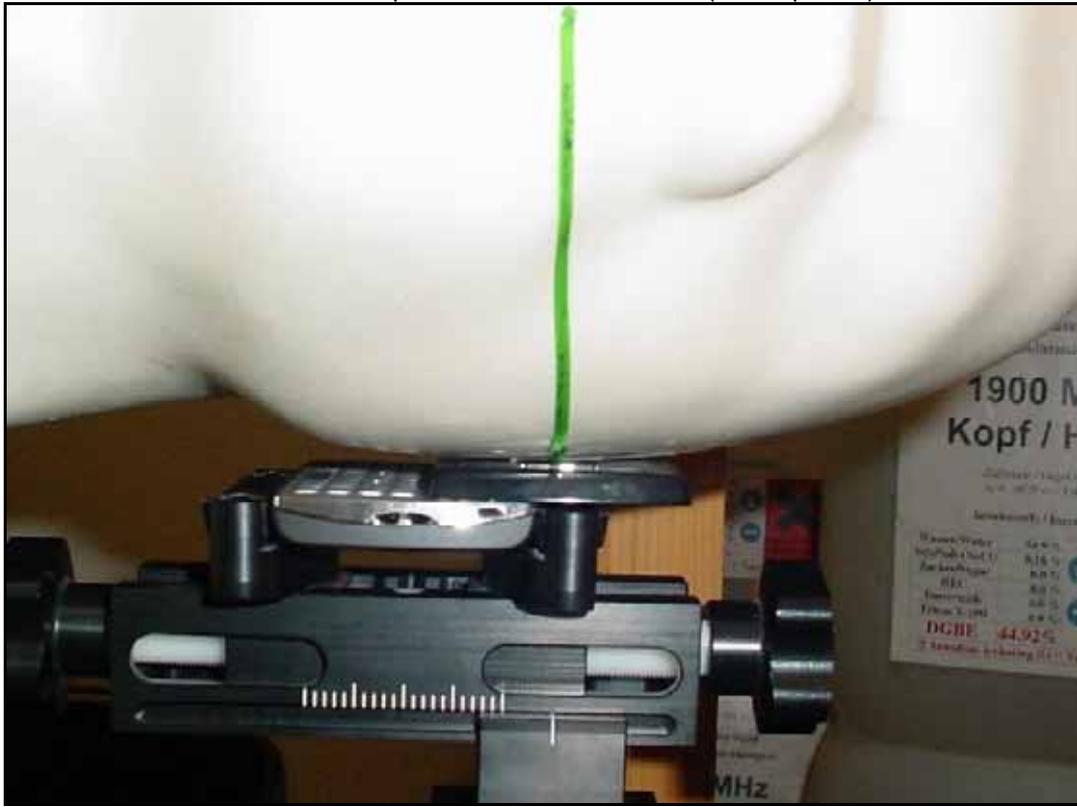


Photo 16: Test position left hand touched (slide opened)



Photo 17: Test position left hand tilted 15° (slide opened)



Photo 18: Test position right hand touched

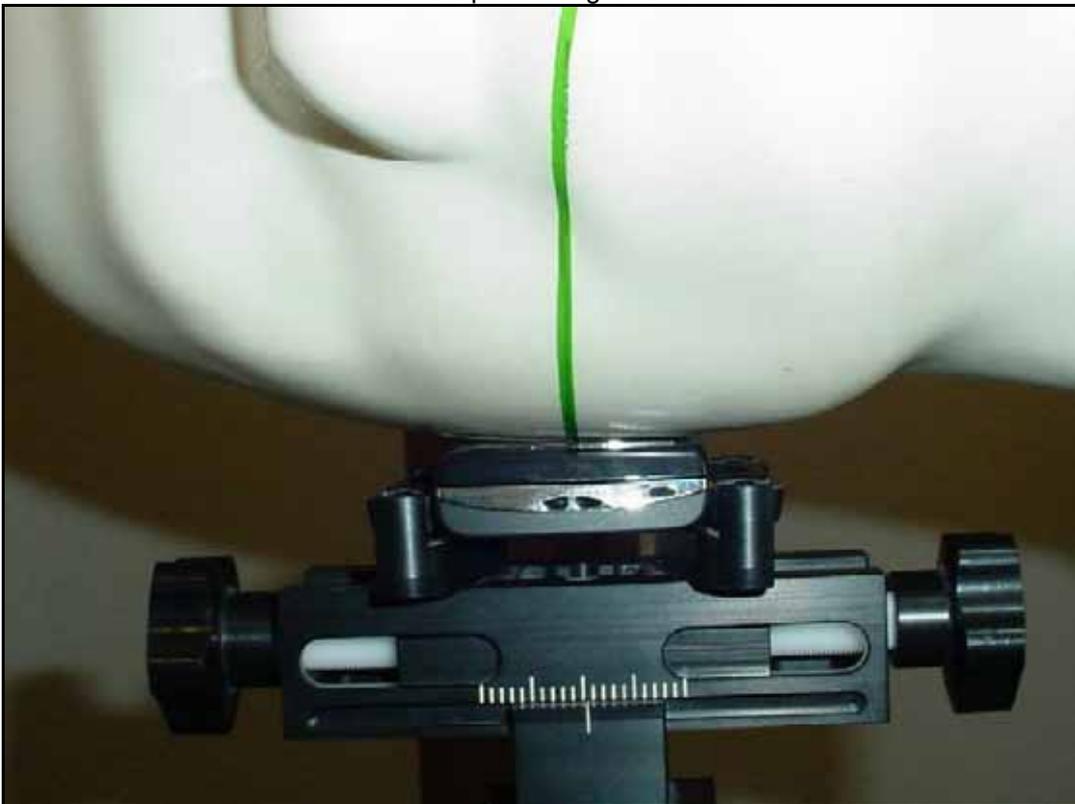


Photo 19: Test position right hand touched



Photo 20: Test position right hand touched



Photo 21: Test position right hand tilted 15°

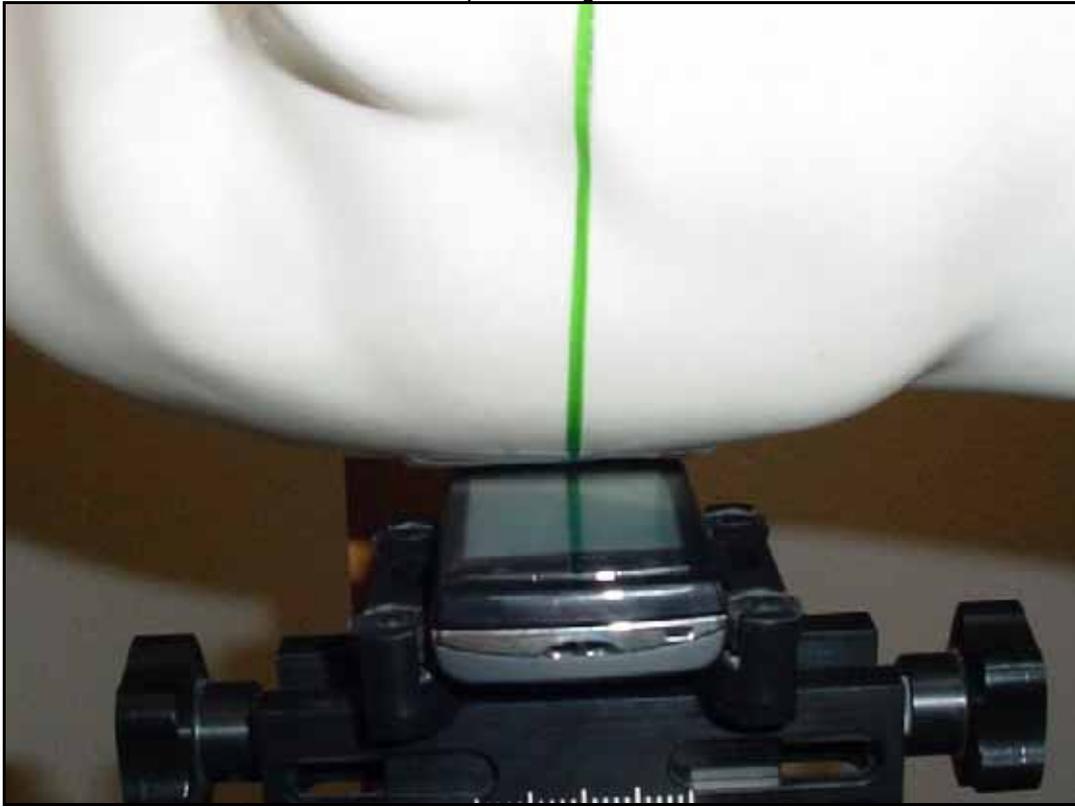


Photo 22: Test position right hand tilted 15°



Photo 23: Test position right hand touched (slide opened)



Photo 24: Test position right hand touched (slide opened)



Photo 25: Test position right hand tilted 15° (slide opened)

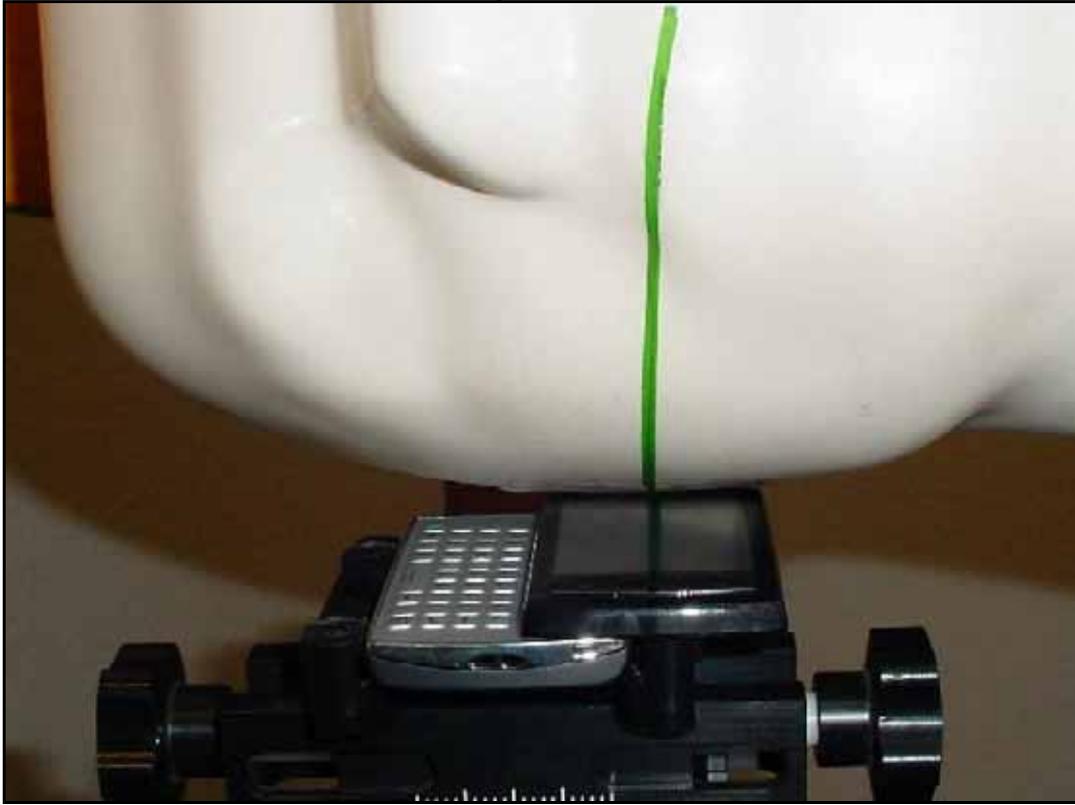


Photo 26: Test position body worn front side with 15 mm distance

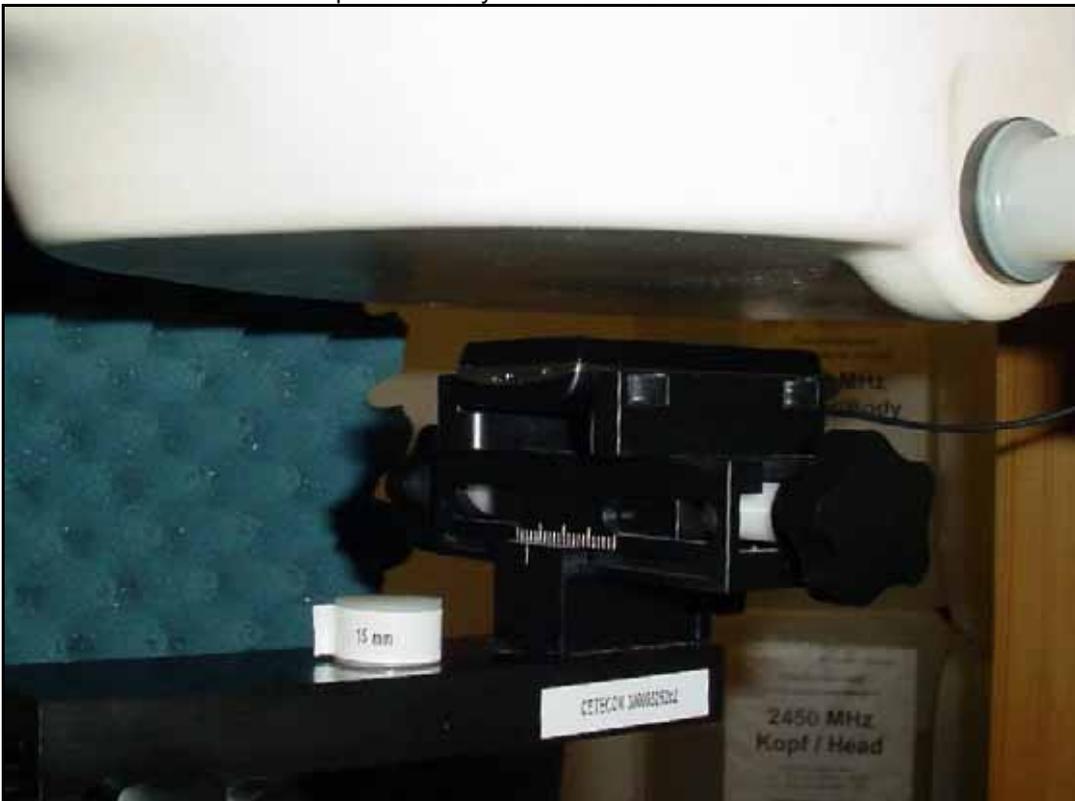


Photo 27: Test position body worn rear side with 15 mm distance



Annex D: RF Technical Brief Cover Sheet acc. to RSS-102 Annex A

- 1. COMPANY NUMBER: 4170B
- 2. MODEL NUMBER: A3880072
- 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 4 (2010-03)
- SAR value: **1.210 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: 50 %
- Standard used for evaluation: RSS-102 Issue 4 (2010-03)
- SAR value: **0.453 W/kg.** Measured Computed Calculated

Annex D.1: Declaration of RF Exposure Compliance

ATTESTATION: I attest that the information provided in Annex D: 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: 2010-06-07

NAME : **Thomas Vogler**

TITLE : Dipl.-Ing. (FH)

COMPANY : CETECOM ICT Services GmbH

Annex E: Calibration parameters

Calibration parameters are described in the additional document :

Appendix to test report no. 1-1954-21-02/10-A Calibration data, Phantom certificate and detail information of the DASY4 System

Annex F: Document History

Version	Applied Changes	Date of Release
	Initial Release	2010-05-06
A	900 MHz System Validation of 2010-04-20 added	2010-06-07

Annex G: Further Information

Glossary

DUT	-	Device under Test
EUT	-	Equipment under Test
FCC	-	Federal Communication Commission
FCC ID	-	Company Identifier at FCC
HW	-	Hardware
IC	-	Industry Canada
Inv. No.	-	Inventory number
N/A	-	not applicable
SAR	-	Specific Absorption Rate
S/N	-	Serial Number
SW	-	Software