

TEST REPORT

Test Report No.: 1-2977-08-02/11



Testing Laboratory

CETECOM ICT Services GmbH
 Untertürkheimer Straße 6 – 10
 66117 Saarbrücken/Germany
 Phone: + 49 681 5 98 - 0
 Fax: + 49 681 5 98 - 9075
 Internet: <http://www.cetecom.com>
 e-mail: ict@cetecom.com

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

Applicant

Sony Ericsson Mobile Communications AB
 Nya Vattentornet
 22188 Lund/Sweden

Phone: +46 46 19 30 00

Contact: Johan Wedin
 e-mail: johan.wedin@sonyericsson.com
 Phone: +46 70 71 95 73 6
 Fax: +46 46 19 32 95

Manufacturer

Sony Ericsson Mobile Communications AB
 Nya Vattentornet
 22188 Lund/Sweden

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:	Mobile Phone
Device type:	portable device
Model name:	AAD-3880100-BV
S/N serial number:	CB5A1CGN1U
FCC-ID:	PY7A3880100
IC:	4170B-A3880100
IMEI-Number:	00440214-226059-9 / 00440214-226149-8 (for WLAN)
Hardware status:	AP1.2
Software status:	3.0.A.2.42 / ETS v.75_4D (for WLAN)
Frequency:	see technical details
Antenna:	integrated antenna
Battery option:	BA700 Li-Ion battery 1500mAh / 3.7V
Accessories:	stereo headset
Test sample status:	identical prototype
Exposure category:	general population / uncontrolled environment

This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test Report authorised:

Test performed:

2011-02-16 Thomas Vogler

2011-02-16 Oleksandr Hnatovskiy

1	Table of contents	
1	Table of contents	2
2	General information	3
2.1	Notes	3
2.2	Application details	3
2.3	Statement of compliance	3
2.4	Technical details	4
3	Test standard/s:	5
3.1	RF exposure limits	5
4	Summary of Measurement Results	6
5	Test Environment	6
6	Test Set-up	7
6.1	Measurement system	7
6.1.1	System Description	7
6.1.2	Test environment	8
6.1.3	Probe description	8
6.1.4	Phantom description	9
6.1.5	Device holder description	9
6.1.6	Scanning procedure	10
6.1.7	Spatial Peak SAR Evaluation	11
6.1.8	Data Storage and Evaluation	12
6.1.9	Tissue simulating liquids: dielectric properties	14
6.1.10	Tissue simulating liquids: parameters	15
6.1.11	Measurement uncertainty evaluation for SAR test	16
6.1.12	Measurement uncertainty evaluation for system validation	17
6.1.13	System validation	18
6.1.14	Validation procedure	19
7	Detailed Test Results	20
7.1	Conducted power measurements	20
7.1.1	Conducted power measurements GSM 850 MHz	20
7.1.2	Conducted power measurements GSM 1900 MHz	21
7.1.3	Justification of SAR measurements in GSM mode	21
7.1.4	Conducted power measurements WLAN 2.4 GHz	22
7.1.5	Multiple Transmitter Information	22
7.2	SAR test results	23
7.2.1	Results overview	23
7.2.2	General description of test procedures	25
8	Test equipment and ancillaries used for tests	26
9	Observations	26
Annex A:	System performance verification	27
Annex B:	DASY4 measurement results	33
Annex B.1:	GSM 850 MHz head	33
Annex B.2:	GSM 850 MHz body	45
Annex B.3:	GSM 1900 MHz head	55
Annex B.4:	GSM 1900 MHz body	67
Annex B.5:	WLAN 2450 MHz head	77

Annex B.6: WLAN 2450 MHz body.....	92
Annex B.7: Z-axis scan.....	104
Annex B.8: Liquid depth.....	107
Annex C: Photo documentation.....	110
Annex D: RF Technical Brief Cover Sheet acc. to RSS-102 Annex A.....	123
Annex D.9: Declaration of RF Exposure Compliance.....	123
Annex E: Calibration parameters.....	124
Annex F: Document History.....	124
Annex G: Further Information.....	124

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.

This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

2.2 Application details

Date of receipt of order:	2011-01-28
Date of receipt of test item:	2011-02-02
Start of test:	2011-02-02
End of test:	2011-02-15
Person(s) present during the test:	

2.3 Statement of compliance

The SAR values found for the AAD-3880100-BV 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.

According to October 2010 TCB Workshop for body worn operation in WLAN hot spot mode this device has been tested with 10 mm distance to the phantom.

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 multislot 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	33.4
<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	22.9
<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	18.4
<input type="checkbox"/>	BT	ISM	2412	2462	2412	2462	GFSK	3	max	--	--	--	0	39	78	<10.0

)*: slotted peak power for GSM, averaged max. RMS power for UMTS, 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

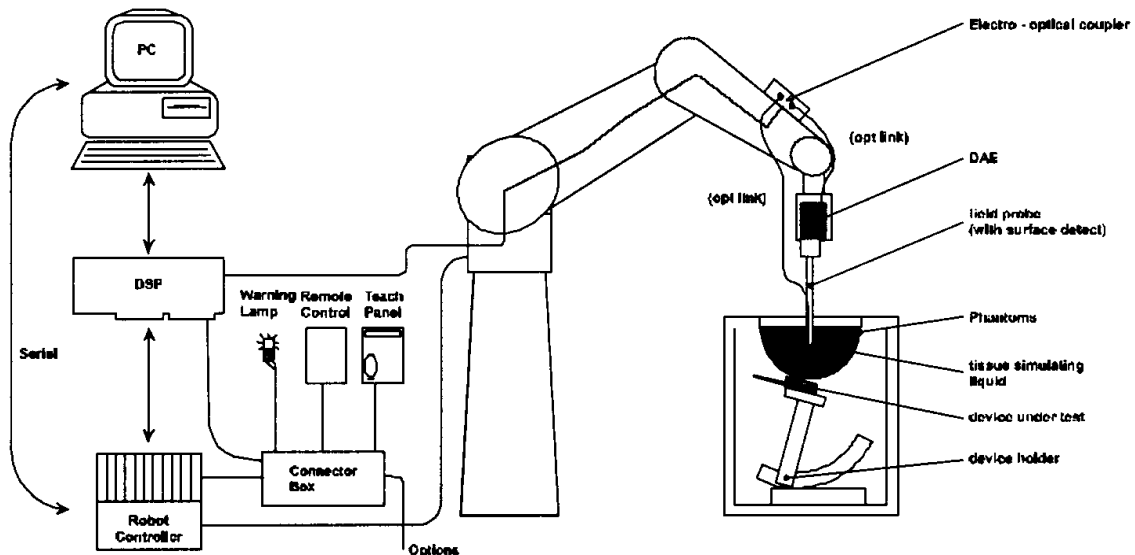
Ambient temperature:	20 – 24 °C
Tissue Simulating liquid:	20 – 24 °C
Relative humidity content:	40 – 50 %
Air pressure:	not relevant for this kind of testing
Power supply:	230 V / 50 Hz

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 DASy4 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 DASy4 measurement server.
- The DASy4 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
- DASy4 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

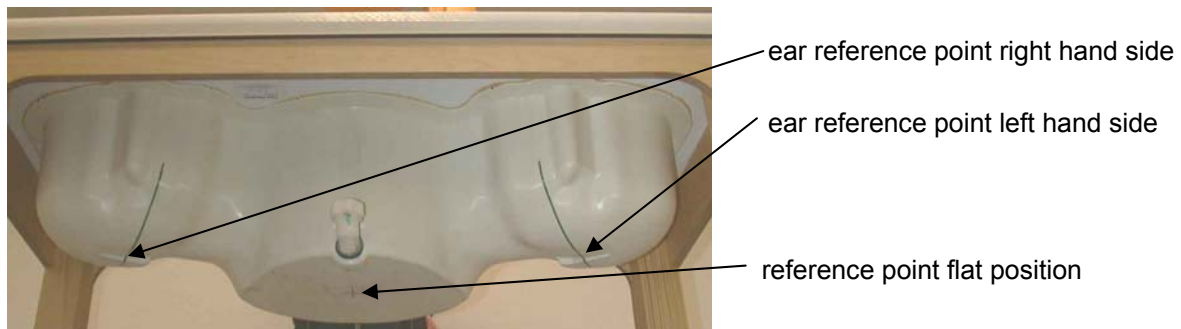
Isotropic E-Field Probe ET3DV6 for Dosimetric Measurements

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 [MHz]	Target Head Tissue		Measured Head Tissue		Measured Date
	Permittivity	Conductivity [S/m]	Permittivity	Conductivity [S/m]	
835	41.5	0.90	42.3	0.90	2011-02-02
900	41.5	0.97	41.8	0.97	2011-02-02
1900	40.0	1.40	40.2	1.40	2011-02-10
2450	39.2	1.80	39.0	1.89	2011-02-14

Table 4: Parameter of the head tissue simulating liquid

Used Target Frequency [MHz]	Target Body Tissue		Measured Body Tissue		Measured Date
	Permittivity	Conductivity [S/m]	Permittivity	Conductivity [S/m]	
835	55.2	0.97	55.5	0.96	2011-02-03
900	55.0	1.05	54.9	1.02	2011-02-03
1900	53.3	1.52	53.3	1.56	2011-02-11
2450	52.7	1.95	52.0	2.0	2011-02-15

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	17.1 mW/g	11.2 mW/g	16.2 mW/g	11.2 mW/g	2011-02-02
D900V2 S/N: 102	900 MHz body	17.3 mW/g	11.3 mW/g	16.6 mW/g	11.5 mW/g	2011-02-03
D1900V2 S/N: 5d009	1900 MHz head	73.6 mW/g	40.0 mW/g	70.9 mW/g	38.8 mW/g	2011-02-10
D1900V2 S/N: 5d009	1900 MHz body	69.6 mW/g	41.8 mW/g	64.5 mW/g	40.5 mW/g	2011-02-11
D2450V2 S/N: 710	2450 MHz head	112.4 mW/g	51.6 mW/g	104.8 mW/g	52.2 mW/g	2011-02-14
D2450V2 S/N: 710	2450 MHz body	104.0 mW/g	54.4 mW/g	113.6 mW/g	58.6 mW/g	2011-02-15

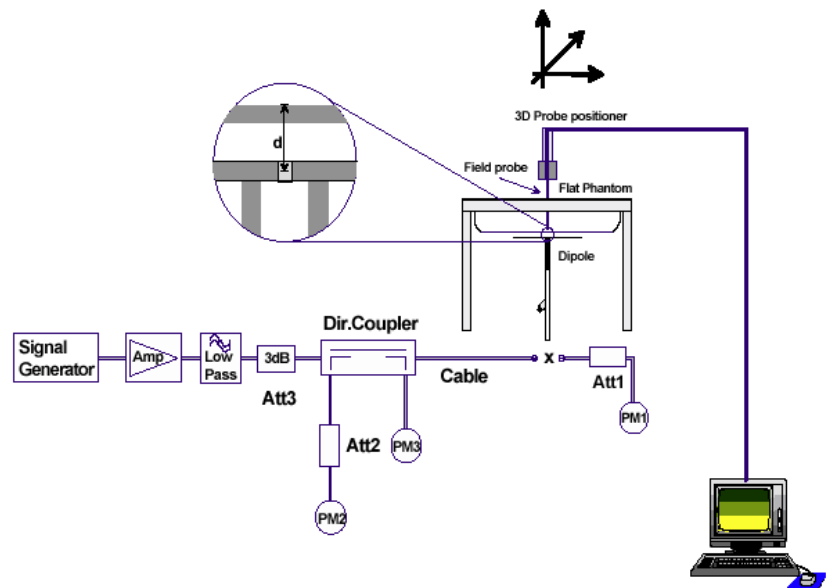
Table 8: Results system validation

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	time based avg. power (calculated)
128 / 824.2 MHz	GMSK	1	33.3dBm	24.3dBm
190 / 836.6 MHz	GMSK	1	33.4dBm	24.4dBm
251 / 848.0 MHz	GMSK	1	33.3dBm	24.3dBm
128 / 824.2 MHz	GMSK	2	29.9dBm	23.9dBm
190 / 836.6 MHz	GMSK	2	29.9dBm	23.9dBm
251 / 848.0 MHz	GMSK	2	29.9dBm	23.9dBm
128 / 824.2 MHz	GMSK	3	27.8dBm	23.55dBm
190 / 836.6 MHz	GMSK	3	27.9dBm	23.65dBm
251 / 848.0 MHz	GMSK	3	27.9dBm	23.65dBm
128 / 824.2 MHz	GMSK	4	27.2dBm	24.2dBm
190 / 836.6 MHz	GMSK	4	27.1dBm	24.1dBm
251 / 848.0 MHz	GMSK	4	27.3dBm	24.3dBm
128 / 824.2 MHz	8PSK	4	22.1dBm	19.1dBm
190 / 836.6 MHz	8PSK	4	22.3dBm	19.3dBm
251 / 848.0 MHz	8PSK	4	22.4dBm	19.4dBm

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	time based avg. power (calculated)
512 / 1850.2 MHz	GMSK	1	29.3dBm	20.3dBm
661 / 1880.0 MHz	GMSK	1	29.9dBm	20.9dBm
810 / 1909.8 MHz	GMSK	1	29.9dBm	20.9dBm
512 / 1850.2 MHz	GMSK	2	25.7dBm	19.7dBm
661 / 1880.0 MHz	GMSK	2	26.1dBm	20.1dBm
810 / 1909.8 MHz	GMSK	2	26.6dBm	20.6dBm
512 / 1850.2 MHz	GMSK	3	23.6dBm	19.35dBm
661 / 1880.0 MHz	GMSK	3	24.0dBm	19.75dBm
810 / 1909.8 MHz	GMSK	3	24.4dBm	20.15dBm
512 / 1850.2 MHz	GMSK	4	22.9dBm	19.9dBm
661 / 1880.0 MHz	GMSK	4	23.2dBm	20.2dBm
810 / 1909.8 MHz	GMSK	4	23.6dBm	20.6dBm
512 / 1850.2 MHz	8PSK	4	20.8dBm	17.8dBm
661 / 1880.0 MHz	8PSK	4	21.1dBm	18.1dBm
810 / 1909.8 MHz	8PSK	4	21.6dBm	18.6dBm

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 1 active timeslot because highest time based averaged output power was calculated for that configuration.
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
1 / 2412 MHz	CCK	1 MBit/s	18.0dBm
6 / 2437 MHz	CCK	1 MBit/s	17.4dBm
11 / 2462 MHz	CCK	1 MBit/s	18.4dBm
1 / 2412 MHz	OFDM	6 MBit/s	16.0dBm
6 / 2437 MHz	OFDM	6 MBit/s	15.6dBm
11 / 2462 MHz	OFDM	6 MBit/s	16.3dBm

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.	Communication system and frequency band	P_{avg} (mW)	single SAR (W/kg) (see ch. 7.2)	remarks
1a	GSM 850 MHz	250	0.607	routine evaluation
1b	GSM 1900 MHz	125	0.766	routine evaluation
2a	WLAN 2450 MHz	50	0.180	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)	peak-locations spacing L_{xy} (cm)	L_{xy} (cm)	SPLSR _{xy}	sim.-Tx SAR	remarks
(1a,2a)	6.374	n/a	0.12	N	SPLSR _{xy} < 0.3
(1b,2a)	7.922	n/a	0.12	N	SPLSR _{xy} < 0.3

Table 13: Peak-locations spacing L_{xy} and SPLSR evaluation in head position

SPLSR_{xy} = SAR-to-(peak-locations spacing) ratio = $(SAR_x + SAR_y)/L_{xy}$

b) body position

Tx No.	Communication system and frequency band	P _{avg} (mW)	single SAR (W/kg) (see ch. 7.2)	remarks
1a	GSM 850 MHz	250	0.853	routine evaluation
1b	GSM 1900 MHz	125	0.721	routine evaluation
2a	WLAN 2450 MHz	50	0.096	routine evaluation
2b	Bluetooth 2450 MHz	10	:=0	P ₂ < P _{ref}
Sum of all 1g-SAR values			n/a	

Table 14: Communication systems and SAR values in body position

antenna pair (x,y)	peak-locations spacing L _{xy} (cm)	L _{xy} (cm)	SPLSR _{xy}	sim.-Tx SAR	remarks
(1a,2a)	6.776	n/a	0.14	N	SPLSR _{xy} < 0.3
(1b,2a)	7.806	n/a	0.10	N	SPLSR _{xy} < 0.3

Table 15: Peak-locations spacing L_{xy} and SPLSR evaluation in body position
 SPLSR_{xy} = SAR-to-(peak-locations spacing) ratio = (SAR_x+SAR_y)/L_{xy}

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	Liquid temperature right
128 / 824.2 MHz	cheek	0.607 W/kg	0.562 W/kg	1.6 W/kg	21.4 °C	21.4 °C
190 / 836.6 MHz	cheek	0.601 W/kg	0.541 W/kg	1.6 W/kg	21.4 °C	21.4 °C
251 / 848.8 MHz	cheek	0.598 W/kg	0.535 W/kg	1.6 W/kg	21.4 °C	21.4 °C
128 / 824.2 MHz	tilted 15°	0.362 W/kg	0.366 W/kg	1.6 W/kg	21.4 °C	21.4 °C
190 / 836.6 MHz	tilted 15°	0.354 W/kg	0.348 W/kg	1.6 W/kg	21.4 °C	21.4 °C
251 / 848.8 MHz	tilted 15°	0.339 W/kg	0.328 W/kg	1.6 W/kg	21.4 °C	21.4 °C

Table 16: Test results head SAR GSM 850 MHz

Body SAR GSM 850 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
128 / 824.2 MHz	front	10 mm	1 time slot	0.750 W/kg	1.6 W/kg	21.6 °C
190 / 836.6 MHz	front	10 mm	1 time slot	0.741 W/kg	1.6 W/kg	21.6 °C
251 / 848.8 MHz	front	10 mm	1 time slot	0.736 W/kg	1.6 W/kg	21.6 °C
128 / 824.2 MHz	rear	10 mm	1 time slot	0.853 W/kg	1.6 W/kg	21.6 °C
190 / 836.6 MHz	rear	10 mm	1 time slot	0.823 W/kg	1.6 W/kg	21.6 °C
251 / 848.8 MHz	rear	10 mm	1 time slot	0.836 W/kg	1.6 W/kg	21.6 °C
190 / 836.6 MHz	left	10 mm	1 time slot	0.568 W/kg	1.6 W/kg	21.6 °C
190 / 836.6 MHz	right	10 mm	1 time slot	0.442 W/kg	1.6 W/kg	21.6 °C
190 / 836.6 MHz	bottom	10 mm	1 time slot	0.127 W/kg	1.6 W/kg	21.6 °C
128 / 824.2 MHz	rear	15 mm	1 time slot	0.367 W/kg	1.6 W/kg	21.6 °C

Table 17: Test results body hotspot SAR GSM 850 MHz

Top edge position is not required since the distance from the main antenna to the edge is greater than 2.5 cm.

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	0.517 W/kg	0.351 W/kg	1.6 W/kg	20.4 °C	20.4 °C
661 / 1880.0 MHz	cheek	0.619 W/kg	0.438 W/kg	1.6 W/kg	20.4 °C	20.4 °C
810 / 1909.8 MHz	cheek	0.766 W/kg	0.528 W/kg	1.6 W/kg	20.4 °C	20.4 °C
512 / 1850.2 MHz	tilted 15°	0.258 W/kg	0.252 W/kg	1.6 W/kg	20.4 °C	20.4 °C
661 / 1880.0 MHz	tilted 15°	0.300 W/kg	0.314 W/kg	1.6 W/kg	20.4 °C	20.4 °C
810 / 1909.8 MHz	tilted 15°	0.380 W/kg	0.429 W/kg	1.6 W/kg	20.4 °C	20.4 °C

Table 18: Test results head SAR GSM 1900 MHz

Body SAR GSM 1900 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
						temperature
512 / 1850.2 MHz	front	10 mm	1 time slot	0.347 W/kg	1.6 W/kg	22.2 °C
661 / 1880.0 MHz	front	10 mm	1 time slot	0.431 W/kg	1.6 W/kg	22.2 °C
810 / 1909.8 MHz	front	10 mm	1 time slot	0.563 W/kg	1.6 W/kg	22.2 °C
512 / 1850.2 MHz	rear	10 mm	1 time slot	0.453 W/kg	1.6 W/kg	22.2 °C
661 / 1880.0 MHz	rear	10 mm	1 time slot	0.560 W/kg	1.6 W/kg	22.2 °C
810 / 1909.8 MHz	rear	10 mm	1 time slot	0.721 W/kg	1.6 W/kg	22.2 °C
661 / 1880.0 MHz	left	10 mm	1 time slot	0.296 W/kg	1.6 W/kg	22.2 °C
661 / 1880.0 MHz	right	10 mm	1 time slot	0.097 W/kg	1.6 W/kg	22.2 °C
661 / 1880.0 MHz	bottom	10 mm	1 time slot	0.243 W/kg	1.6 W/kg	22.2 °C
810 / 1909.8 MHz	rear	15 mm	1 time slot	0.338 W/kg	1.6 W/kg	22.2 °C

Table 19: Test results body hotspot SAR GSM 1900 MHz

Top edge position is not required since the distance from the main antenna to the edge is greater than 2.5 cm.

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	right
1 / 2412 MHz	cheek	0.171 W/kg	0.172 W/kg	1.6 W/kg	21.5 °C	21.5 °C
6 / 2437 MHz	cheek	0.153 W/kg	0.148 W/kg	1.6 W/kg	21.5 °C	21.5 °C
11 / 2462 MHz	cheek	0.180 W/kg	0.154 W/kg	1.6 W/kg	21.5 °C	21.5 °C
1 / 2412 MHz	tilted 15°	0.158 W/kg	0.192 W/kg	1.6 W/kg	21.5 °C	21.5 °C
6 / 2437 MHz	tilted 15°	0.118 W/kg	0.153 W/kg	1.6 W/kg	21.5 °C	21.5 °C
11 / 2462 MHz	tilted 15°	0.141 W/kg	0.167 W/kg	1.6 W/kg	21.5 °C	21.5 °C
1 / 2412 MHz	tilted 15° 6Mbps	--- W/kg	0.116 W/kg	1.6 W/kg	--- °C	21.5 °C
1 / 2412 MHz)*	tilted 15° 65Mbps	--- W/kg	0.047 W/kg	1.6 W/kg	--- °C	21.5 °C
1 / 2412 MHz)**	tilted 15° 65Mbps	--- W/kg	0.046 W/kg	1.6 W/kg	--- °C	21.5 °C

Table 20: Test results head SAR WLAN 2450 MHz

Body SAR WLAN 2450 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
1 / 2412 MHz	front	10 mm	CCK 1 Mbit/s	0.071 W/kg	1.6 W/kg	22.1 °C
6 / 2437 MHz	front	10 mm	CCK 1 Mbit/s	0.056 W/kg	1.6 W/kg	22.1 °C
11 / 2462 MHz	front	10 mm	CCK 1 Mbit/s	0.060 W/kg	1.6 W/kg	22.1 °C
1 / 2412 MHz	rear	10 mm	CCK 1 Mbit/s	0.096 W/kg	1.6 W/kg	22.1 °C
6 / 2437 MHz	rear	10 mm	CCK 1 Mbit/s	0.088 W/kg	1.6 W/kg	22.1 °C
11 / 2462 MHz	rear	10 mm	CCK 1 Mbit/s	0.090 W/kg	1.6 W/kg	22.1 °C
6 / 2437 MHz	left	10 mm	CCK 1 Mbit/s	0.024 W/kg	1.6 W/kg	22.1 °C
6 / 2437 MHz	right	10 mm	CCK 1 Mbit/s	0.054 W/kg	1.6 W/kg	22.1 °C
6 / 2437 MHz	top edge	10 mm	CCK 1 Mbit/s	0.075 W/kg	1.6 W/kg	22.1 °C
1 / 2412 MHz	rear	10 mm	OFDM 6Mbit/s	0.056 W/kg	1.6 W/kg	22.1 °C
1 / 2412 MHz)*	rear	10 mm	OFDM 65Mbit/s	0.023 W/kg	1.6 W/kg	22.1 °C
1 / 2412 MHz)**	rear	10 mm	OFDM 65Mbit/s	0.023 W/kg	1.6 W/kg	22.1 °C

Table 21: Test results body hotspot SAR WLAN 2450 MHz

Bottom edge position is not required since the distance from the WLAN antenna to the edge is greater than 2.5cm.

)* - MixedMode preamble

)** - Greenfield preamble

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.

Per Oct 2010 TCB FCC Workshop, the edges with antennas within 2.5 cm are required to be evaluated for SAR to cover WLAN hot spot function.

Tests in body position were performed with 10 mm air gap between DUT and SAM.

The additional GSM body test was performed at worst case with 1 time slot in uplink and 15 mm distance from DUT to the phantom in accordance with Sony Ericsson requirements.

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 and 802.11n modes 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 checked="" type="checkbox"/>	Dosimetric E-Field Probe	ET3DV6	Schmid & Partner Engineering AG	1558	August 11, 2010	12
2	<input checked="" type="checkbox"/>	Dosimetric E-Field Probe	ET3DV6	Schmid & Partner Engineering AG	1559	January 19, 2011	12
3	<input checked="" type="checkbox"/>	900 MHz System Validation Dipole	D900V2	Schmid & Partner Engineering AG	102	August 16, 2010	12
4	<input type="checkbox"/>	1800 MHz System Validation Dipole	D1800V2	Schmid & Partner Engineering AG	287	August 17, 2010	12
5	<input checked="" type="checkbox"/>	1900 MHz System Validation Dipole	D1900V2	Schmid & Partner Engineering AG	531	August 17, 2010	12
6	<input checked="" type="checkbox"/>	2450 MHz System Validation Dipole	D2450V2	Schmid & Partner Engineering AG	710	August 19, 2010	12
7	<input checked="" type="checkbox"/>	Data acquisition electronics	DAE3V1	Schmid & Partner Engineering AG	413	January 13, 2011	12
8	<input checked="" type="checkbox"/>	Data acquisition electronics	DAE3V1	Schmid & Partner Engineering AG	477	May 07, 2010	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, 2011	12
12	<input checked="" type="checkbox"/>	Network Analyser 300 kHz to 6 GHz	8753ES	Hewlett Packard)*	US39174436	July 6, 2010	12
13	<input checked="" type="checkbox"/>	Dielectric Probe Kit	85070C	Hewlett Packard	US99360146	N/A	12
14	<input checked="" type="checkbox"/>	Signal Generator	8665A	Hewlett Packard	2833A00112	January 6, 2011	12
15	<input checked="" type="checkbox"/>	Amplifier	25S1G4 (25 Watt)	Amplifier Research	20452	N/A	--
16	<input checked="" type="checkbox"/>	Power Meter	NRP	Rohde & Schwarz	101367	January 6, 2011	12
17	<input checked="" type="checkbox"/>	Power Meter Sensor	NRP Z22	Rohde & Schwarz	100227	January 6, 2011	12
18	<input checked="" type="checkbox"/>	Power Meter Sensor	NRP Z22	Rohde & Schwarz	100234	January 6, 2011	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: 02.02.2011 10:43:51 Date/Time: 02.02.2011 10:47:30

SystemPerformanceCheck-D900 head 2011-02-02

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

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

Medium: HSL850 Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 41.8$; $\rho = 1000 \text{ kg/m}^3$

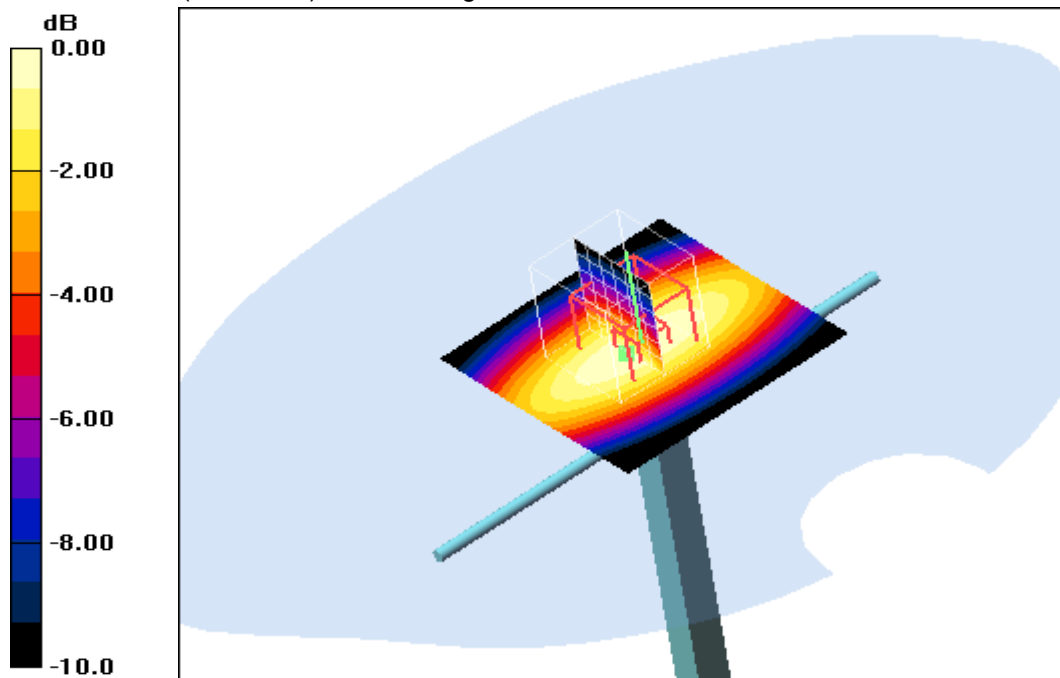
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.8, 5.8, 5.8); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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) = 11.8 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 117.8 V/m; Power Drift = -0.00 dB
 Peak SAR (extrapolated) = 16.2 W/kg
SAR(1 g) = 11.2 mW/g; SAR(10 g) = 7.22 mW/g
 Maximum value of SAR (measured) = 12.1 mW/g



0 dB = 12.1mW/g

Additional information:

ambient temperature: 21.7°C; liquid temperature: 21.4°C

Date/Time: 03.02.2011 09:09:55 Date/Time: 03.02.2011 09:13:34

System Performance Check-D900 body 2011-02-03

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

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

Medium: M850 Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 1.02 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$

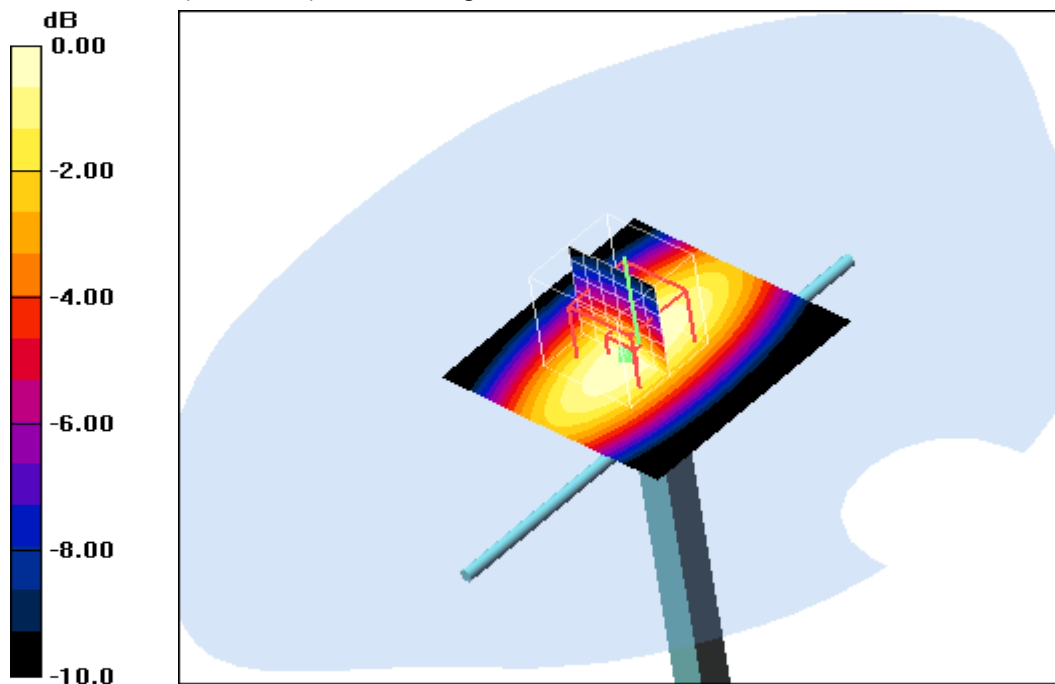
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.73, 5.73, 5.73); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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) = 12.3 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 114.8 V/m; Power Drift = -0.030 dB
 Peak SAR (extrapolated) = 16.6 W/kg
SAR(1 g) = 11.5 mW/g; SAR(10 g) = 7.45 mW/g
 Maximum value of SAR (measured) = 12.4 mW/g



0 dB = 12.4mW/g

Additional information:

ambient temperature: 22.5°C; liquid temperature: 21.6°C

Date/Time: 10.02.2011 08:55:44 Date/Time: 10.02.2011 08:59:22

System Performance Check-D1900 head 2011-02-10

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

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

Medium: HSL1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

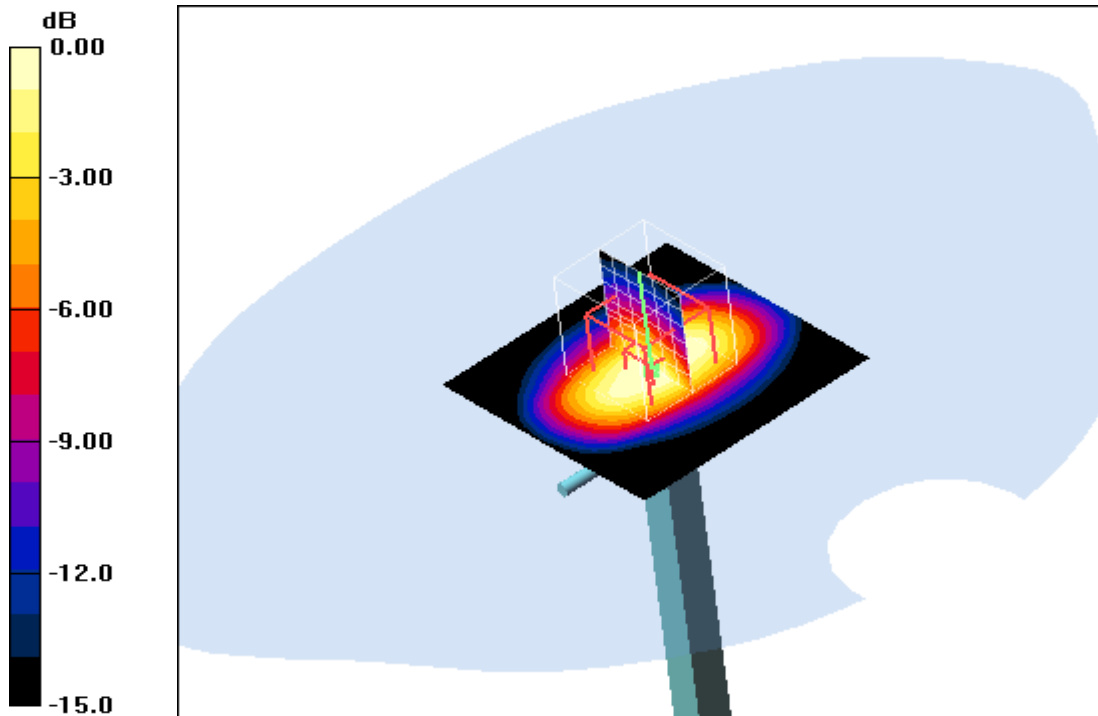
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; 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) = 53.0 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 184.3 V/m; Power Drift = -0.045 dB
 Peak SAR (extrapolated) = 70.9 W/kg
SAR(1 g) = 38.8 mW/g; SAR(10 g) = 20.3 mW/g
 Maximum value of SAR (measured) = 43.5 mW/g



0 dB = 43.5mW/g

Additional information:

ambient temperature: 21.7°C; liquid temperature: 20.4°C

Date/Time: 11.02.2011 09:21:29 Date/Time: 11.02.2011 09:25:08

System Performance Check-D1900 body 2011-02-11

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; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

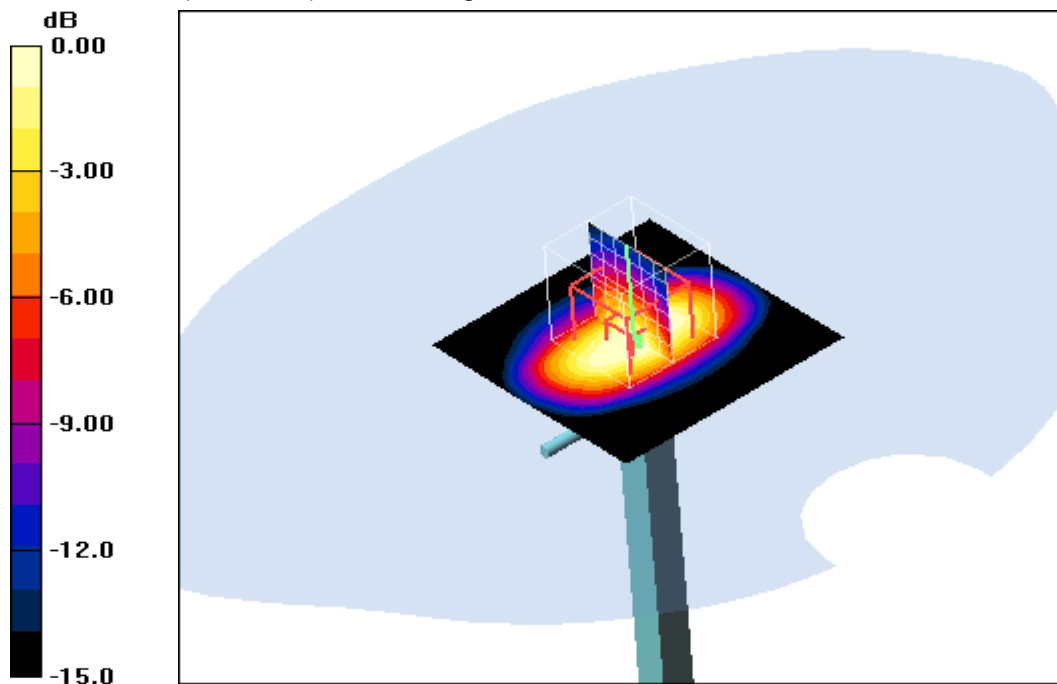
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.35, 4.35, 4.35); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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) = 58.2 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 186.7 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 64.5 W/kg
SAR(1 g) = 40.5 mW/g; SAR(10 g) = 21.8 mW/g
 Maximum value of SAR (measured) = 46.6 mW/g



Additional information:

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

Date/Time: 14.02.2011 08:54:32 Date/Time: 14.02.2011 08:58:12

System Performance Check-D2450 head 2011-02-14

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

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

Medium: HSL2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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

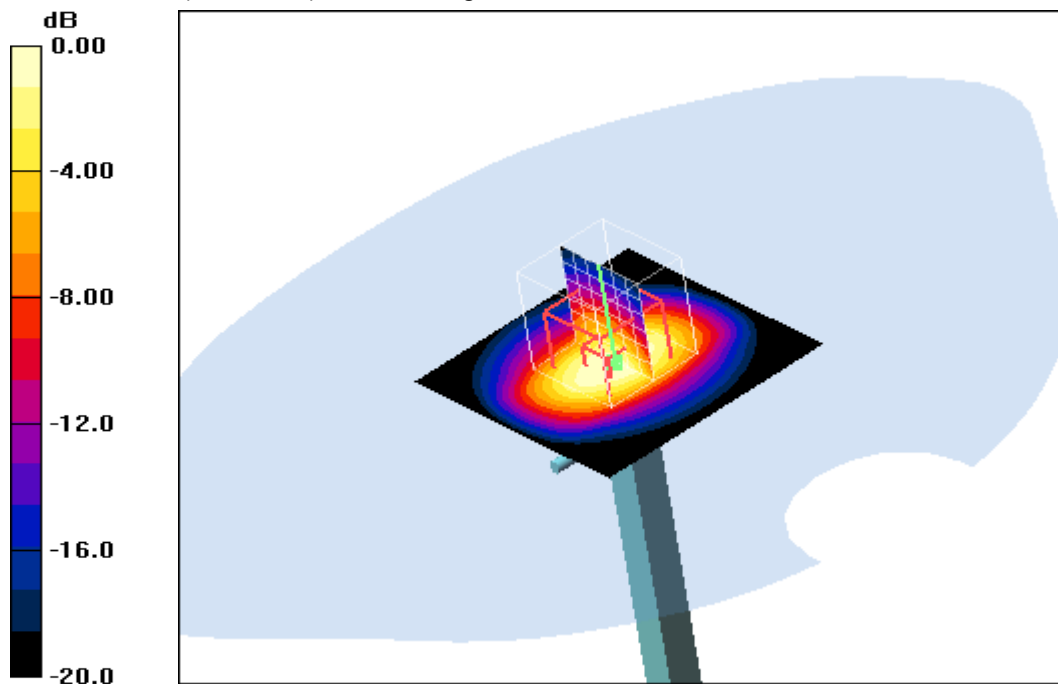
d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 199.8 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 104.8 W/kg

SAR(1 g) = 52.2 mW/g; SAR(10 g) = 24.5 mW/g

Maximum value of SAR (measured) = 59.7 mW/g



0 dB = 59.7mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 15.02.2011 08:30:49 Date/Time: 15.02.2011 08:34:28

System Performance Check-D2450 body 2011-02-15

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

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

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

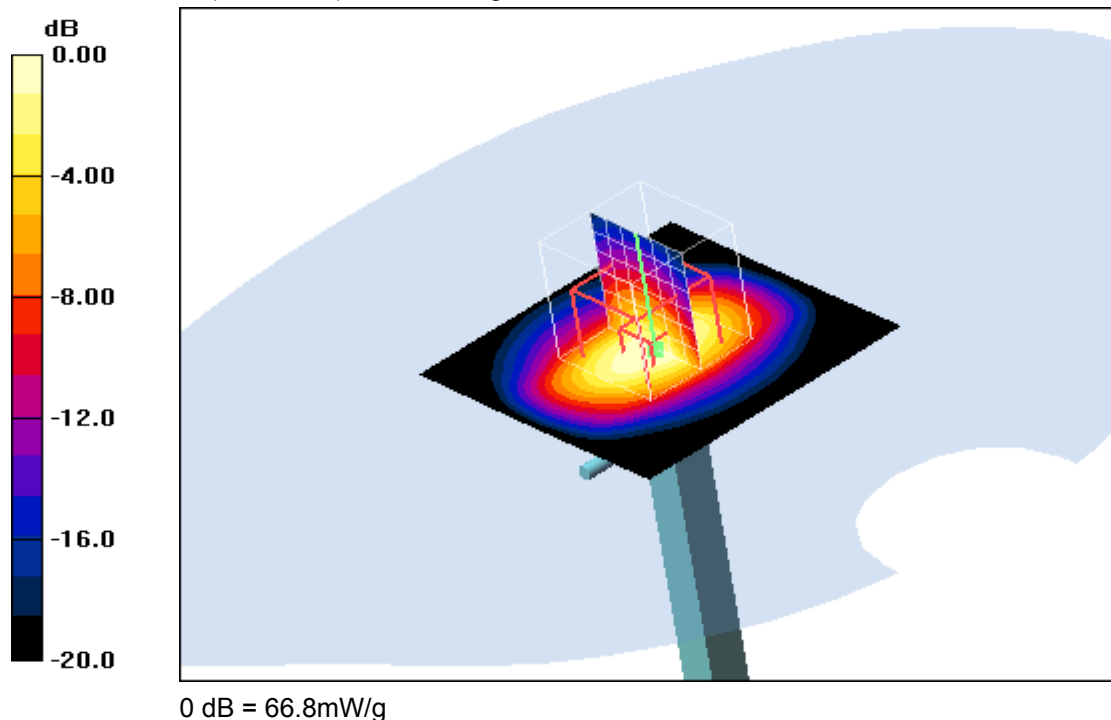
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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) = 83.1 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 187.0 V/m; Power Drift = -0.019 dB
Peak SAR (extrapolated) = 113.6 W/kg
SAR(1 g) = 58.6 mW/g; SAR(10 g) = 27 mW/g
Maximum value of SAR (measured) = 66.8 mW/g



Additional information:

ambient temperature: 22.2°C; liquid temperature: 22.1°C

Annex B: DASY4 measurement results

Annex B.1: GSM 850 MHz head

Date/Time: 02.02.2011 11:29:40 Date/Time: 02.02.2011 11:41:00

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL850 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.92, 5.92, 5.92); Calibrated: 11.08.2010

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

- Electronics: DAE3 Sn477; Calibrated: 07.05.2010

- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.638 mW/g

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

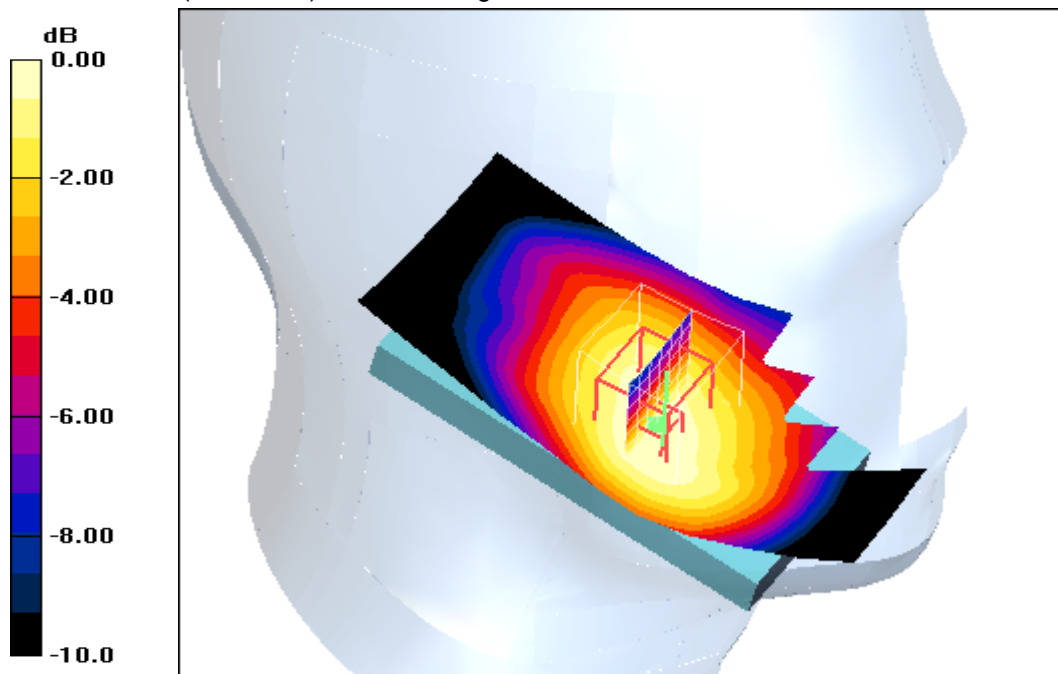
dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.5 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.840 W/kg

SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.434 mW/g

Maximum value of SAR (measured) = 0.642 mW/g



0 dB = 0.642mW/g

Additional information:

ambient temperature: 22.0°C; liquid temperature: 21.4°C

Date/Time: 02.02.2011 11:55:15 Date/Time: 02.02.2011 12:01:50

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

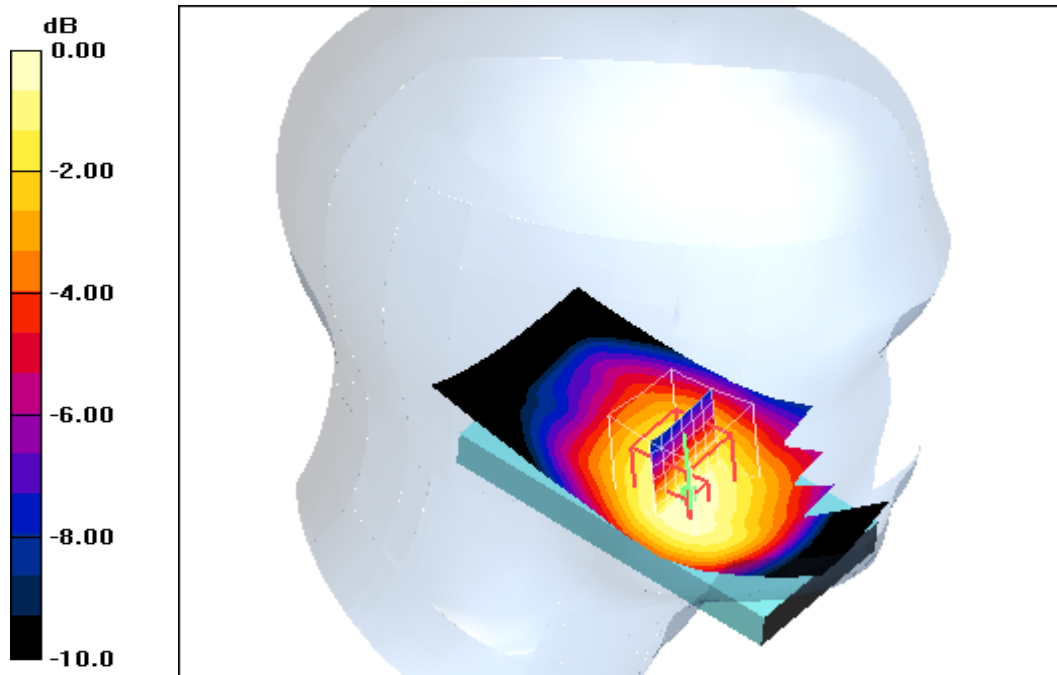
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.92, 5.92, 5.92); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.627 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 = 27.1 V/m; Power Drift = 0.057 dB
 Peak SAR (extrapolated) = 0.856 W/kg
SAR(1 g) = 0.601 mW/g; SAR(10 g) = 0.425 mW/g
 Maximum value of SAR (measured) = 0.635 mW/g



0 dB = 0.635mW/g

Additional information:

ambient temperature: 22.0°C; liquid temperature: 21.4°C

Date/Time: 02.02.2011 12:15:52 Date/Time: 02.02.2011 12:22:26

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.92, 5.92, 5.92); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.626 mW/g

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

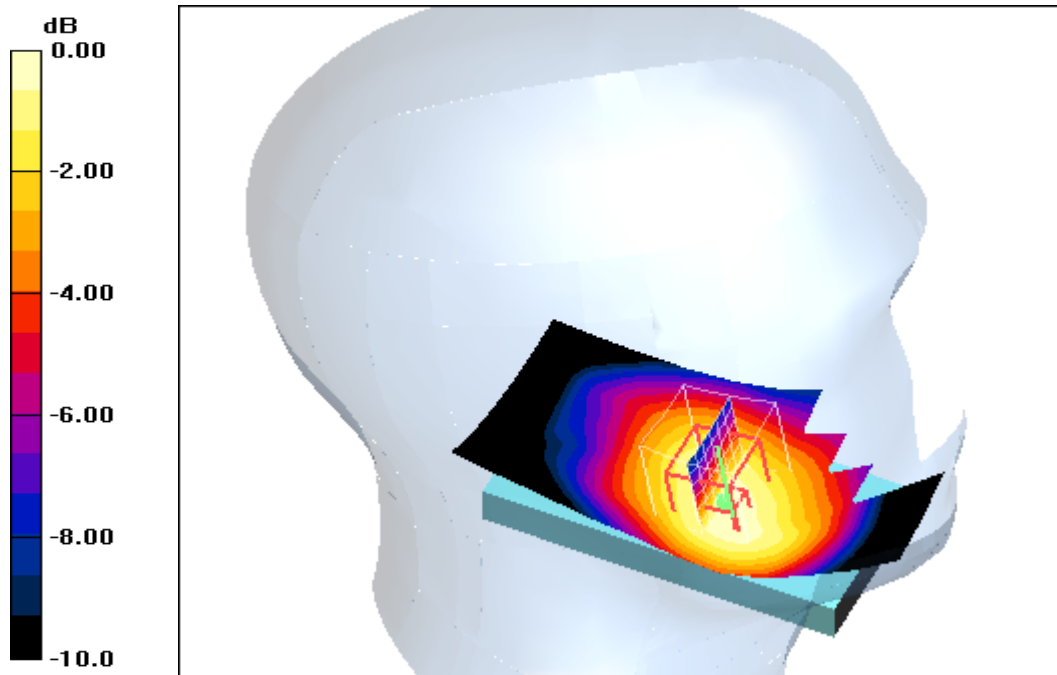
dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.1 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.859 W/kg

SAR(1 g) = 0.598 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (measured) = 0.644 mW/g



0 dB = 0.644mW/g

Additional information:

ambient temperature: 22.0°C; liquid temperature: 21.4°C

Date/Time: 02.02.2011 13:17:24 Date/Time: 02.02.2011 13:24:16

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.92, 5.92, 5.92); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.382 mW/g

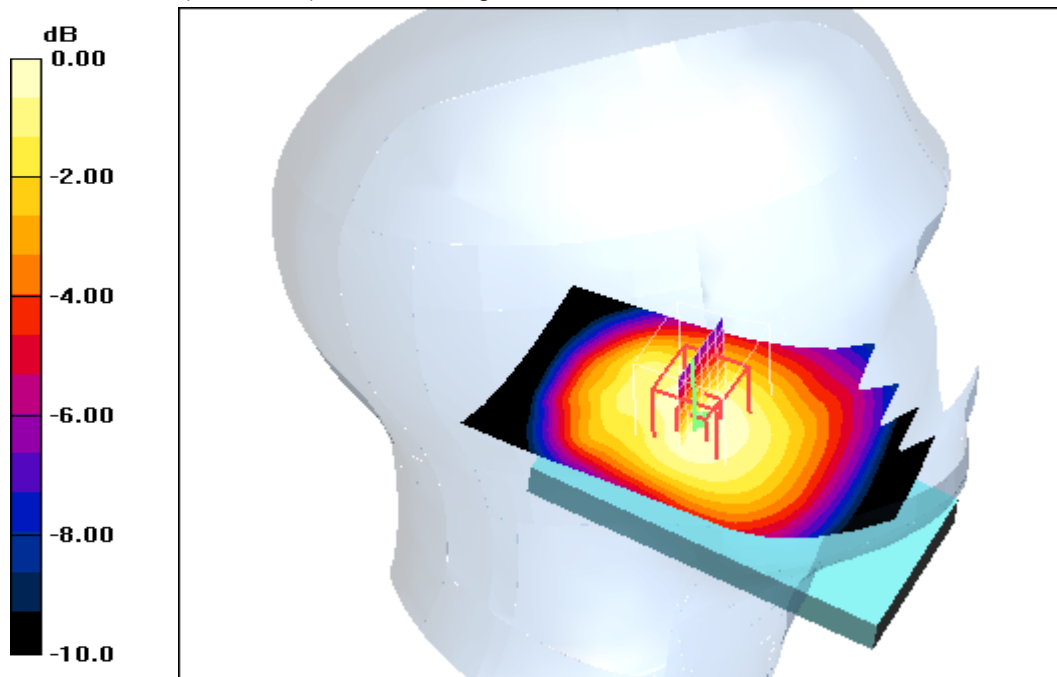
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.2 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 0.454 W/kg

SAR(1 g) = 0.362 mW/g; SAR(10 g) = 0.271 mW/g

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



0 dB = 0.378mW/g

Additional information:

ambient temperature: 22.0°C; liquid temperature: 21.4°C

Date/Time: 02.02.2011 12:57:28 Date/Time: 02.02.2011 13:04:20

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.92, 5.92, 5.92); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.370 mW/g

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

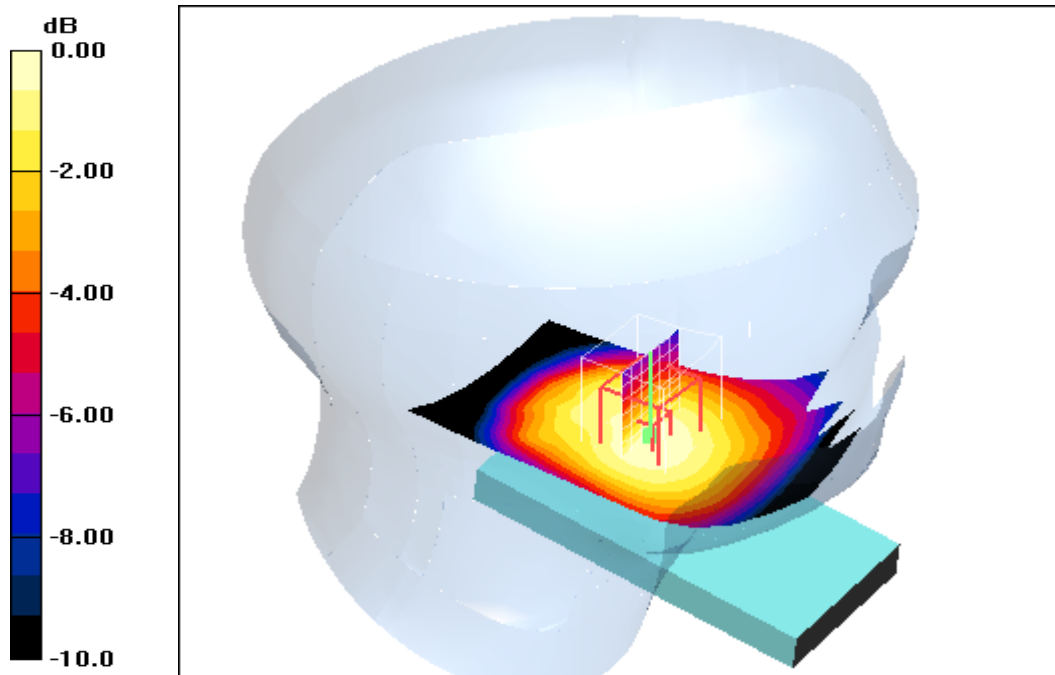
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.9 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.445 W/kg

SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.263 mW/g

Maximum value of SAR (measured) = 0.370 mW/g



0 dB = 0.370mW/g

Additional information:

ambient temperature: 22.0°C; liquid temperature: 21.4°C

Date/Time: 02.02.2011 12:37:12 Date/Time: 02.02.2011 12:44:02

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.92, 5.92, 5.92); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.354 mW/g

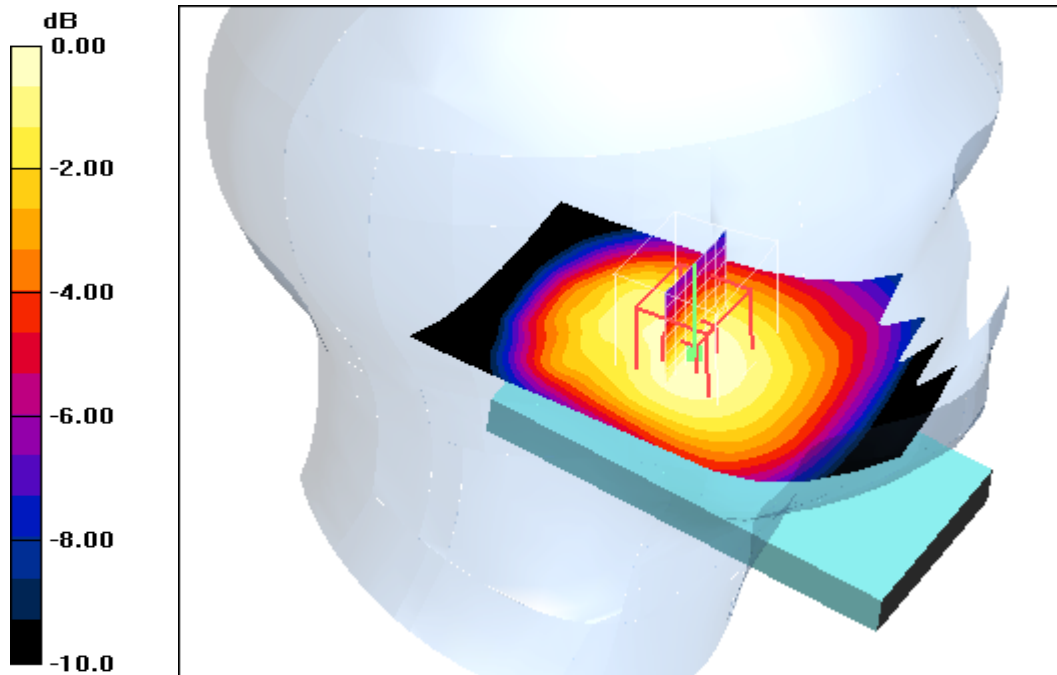
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.5 V/m; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 0.426 W/kg

SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.353 mW/g



0 dB = 0.353mW/g

Additional information:

ambient temperature: 22.0°C; liquid temperature: 21.4°C

Date/Time: 02.02.2011 15:06:26 Date/Time: 02.02.2011 15:15:18

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.92, 5.92, 5.92); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.606 mW/g

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

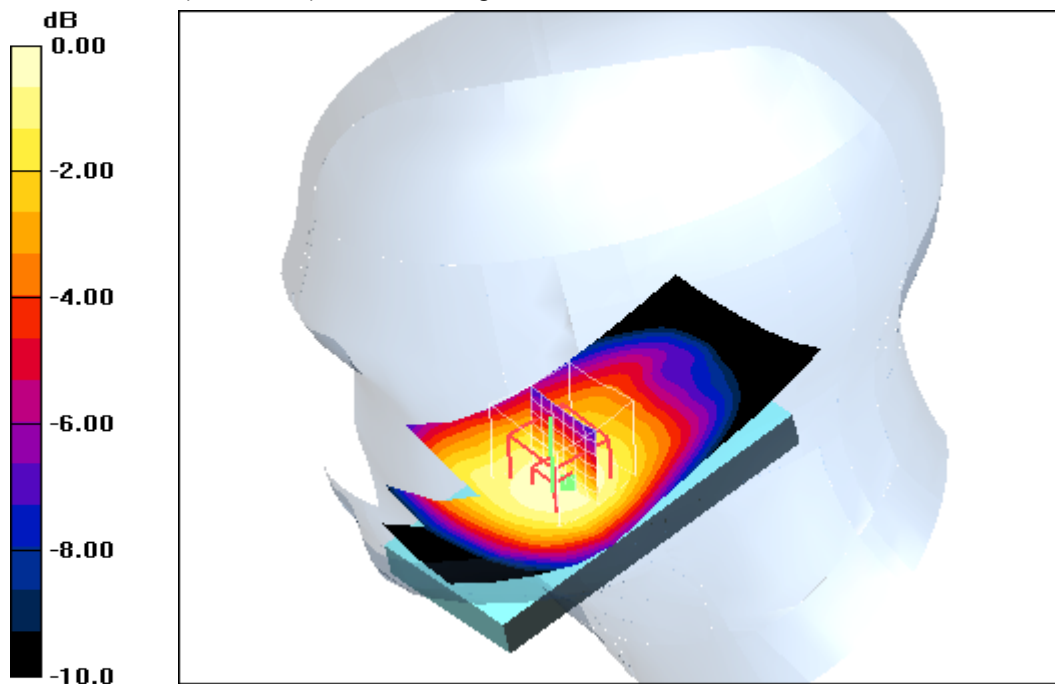
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.0 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.714 W/kg

SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.417 mW/g

Maximum value of SAR (measured) = 0.590 mW/g



0 dB = 0.590mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.4°C

Date/Time: 02.02.2011 15:30:33 Date/Time: 02.02.2011 15:41:25

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

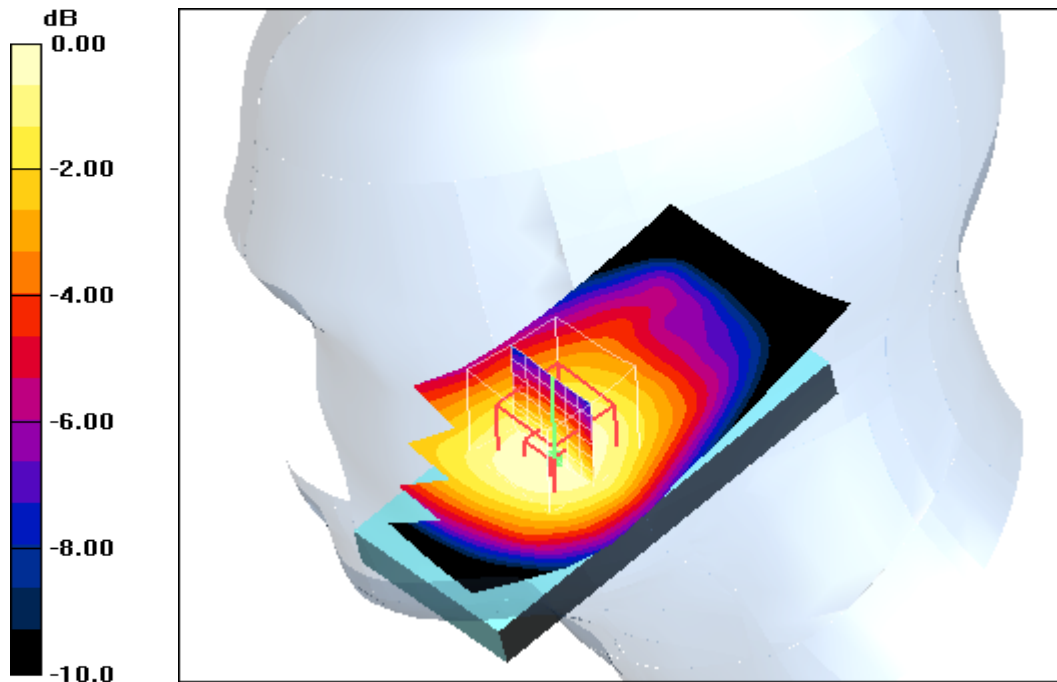
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.92, 5.92, 5.92); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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) = 0.570 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 = 25.4 V/m; Power Drift = 0.034 dB
 Peak SAR (extrapolated) = 0.688 W/kg
SAR(1 g) = 0.541 mW/g; SAR(10 g) = 0.402 mW/g
 Maximum value of SAR (measured) = 0.573 mW/g



0 dB = 0.573mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.4°C

Date/Time: 02.02.2011 15:56:12 Date/Time: 02.02.2011 16:02:27

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

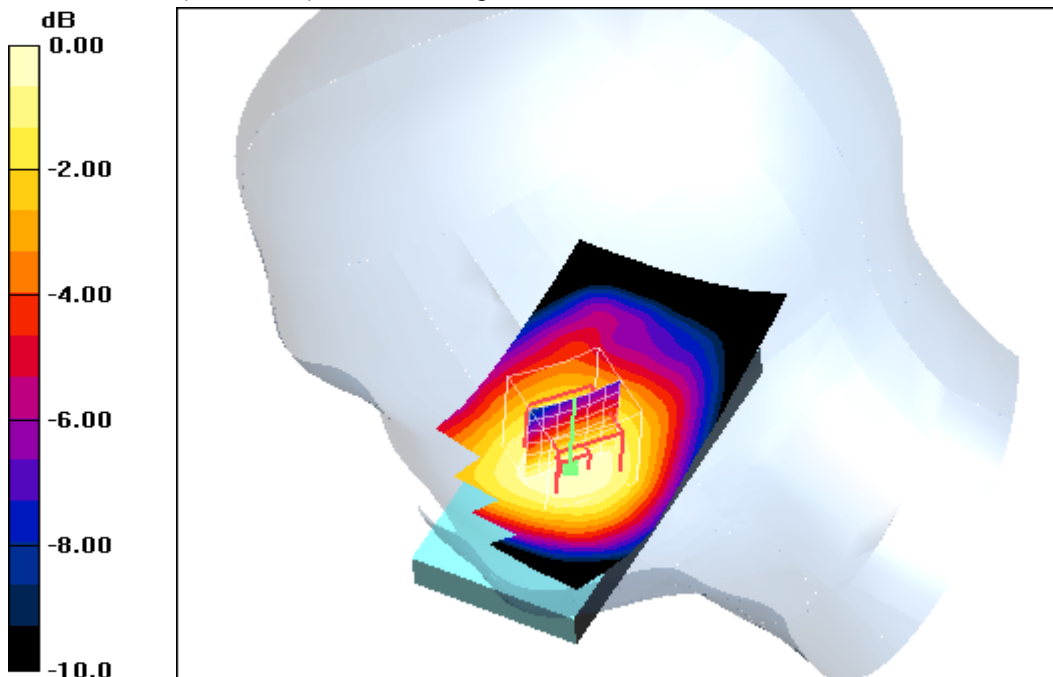
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.92, 5.92, 5.92); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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) = 0.563 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 = 25.4 V/m; Power Drift = -0.046 dB
 Peak SAR (extrapolated) = 0.675 W/kg
SAR(1 g) = 0.535 mW/g; SAR(10 g) = 0.398 mW/g
 Maximum value of SAR (measured) = 0.564 mW/g



0 dB = 0.564mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.4°C

Date/Time: 02.02.2011 14:32:13 Date/Time: 02.02.2011 14:52:10

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.92, 5.92, 5.92); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.361 mW/g

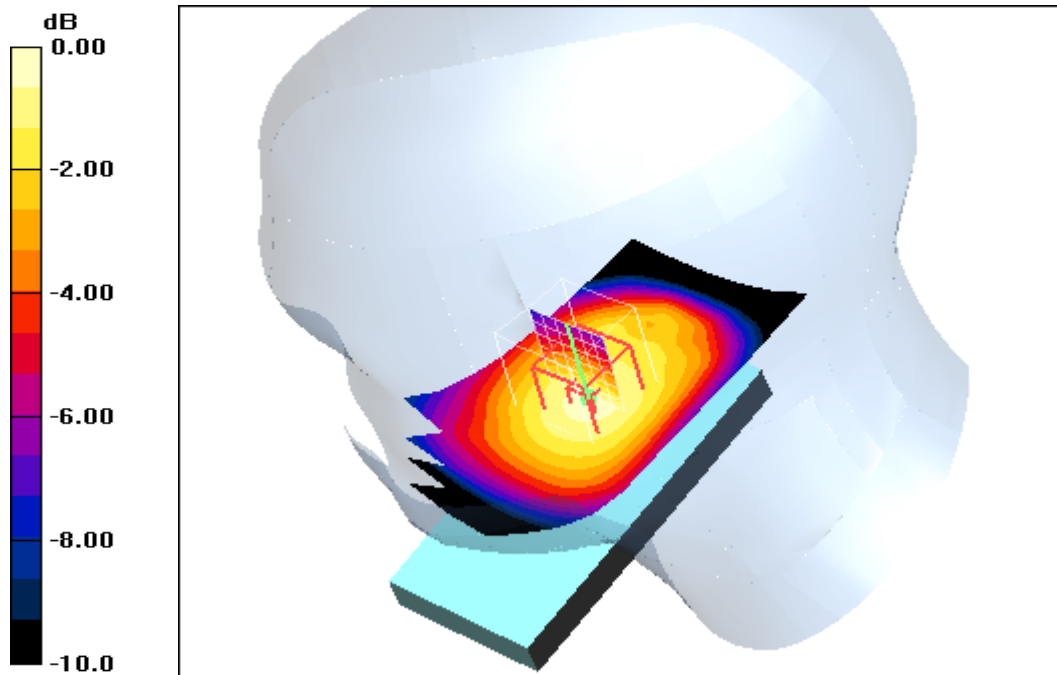
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.2 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.473 W/kg

SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.273 mW/g

Maximum value of SAR (measured) = 0.390 mW/g



0 dB = 0.390mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.4°C

Date/Time: 02.02.2011 14:09:50 Date/Time: 02.02.2011 14:16:38

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.92, 5.92, 5.92); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

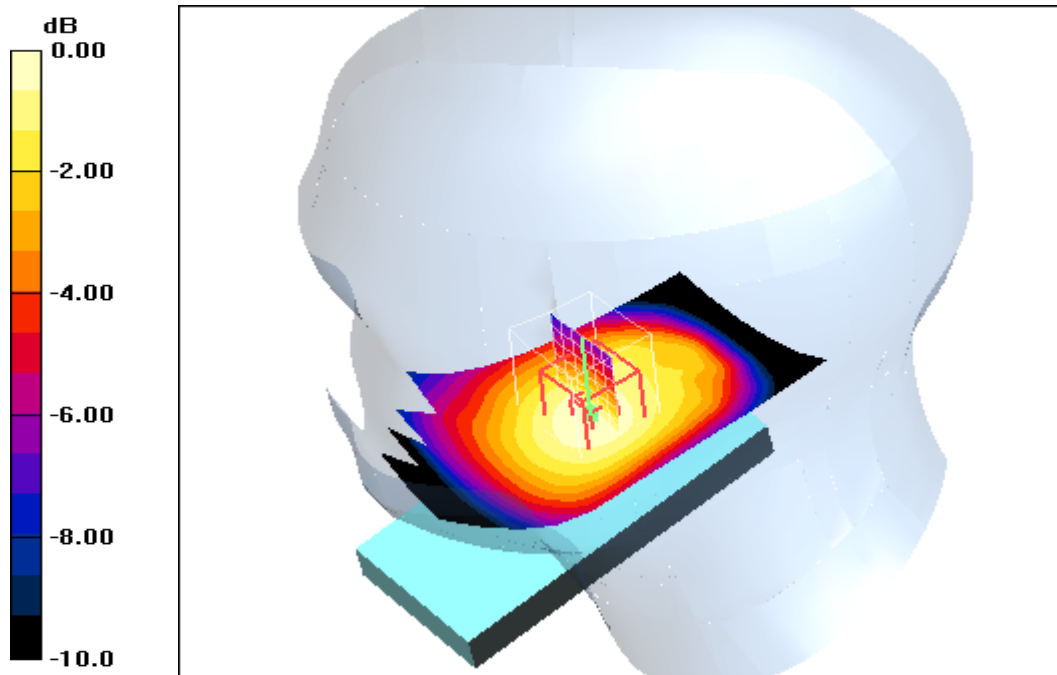
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.6 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 0.446 W/kg

SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.258 mW/g

Maximum value of SAR (measured) = 0.367 mW/g



0 dB = 0.367mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.4°C

Date/Time: 02.02.2011 13:47:15 Date/Time: 02.02.2011 13:55:45

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.92, 5.92, 5.92); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.347 mW/g

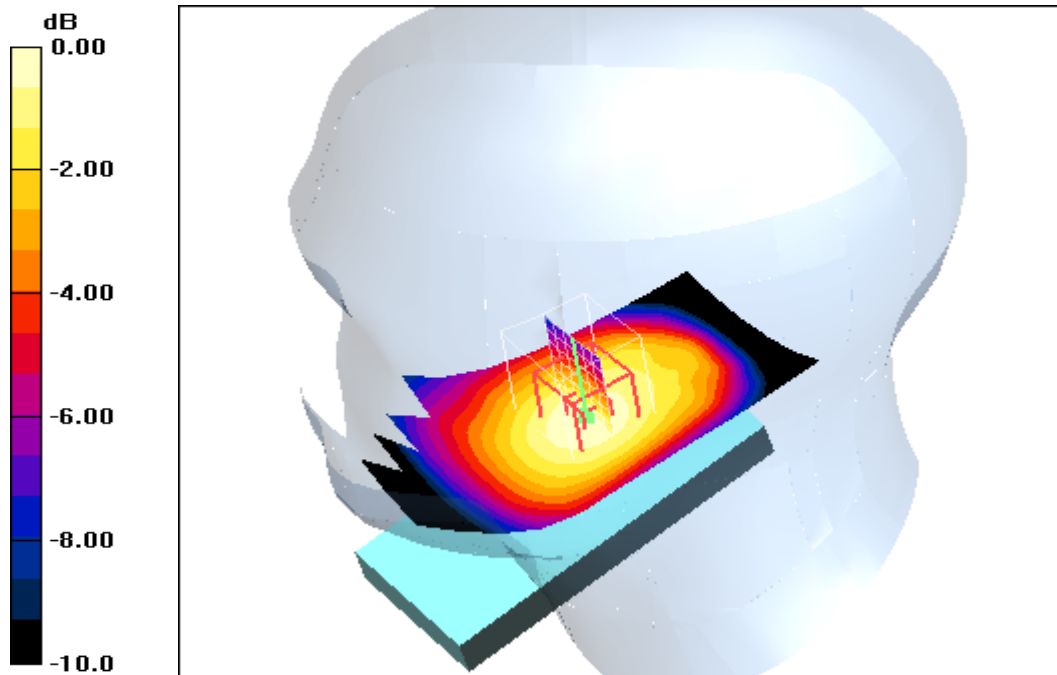
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.2 V/m; Power Drift = -0.124 dB

Peak SAR (extrapolated) = 0.413 W/kg

SAR(1 g) = 0.328 mW/g; SAR(10 g) = 0.242 mW/g

Maximum value of SAR (measured) = 0.346 mW/g



0 dB = 0.346mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.4°C

Annex B.2: GSM 850 MHz body

Date/Time: 03.02.2011 09:36:03 Date/Time: 03.02.2011 09:44:16

IEEE1528_OET65-Body-GSM850-1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M850 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 11.08.2010

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

- Electronics: DAE3 Sn477; Calibrated: 07.05.2010

- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.813 mW/g

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

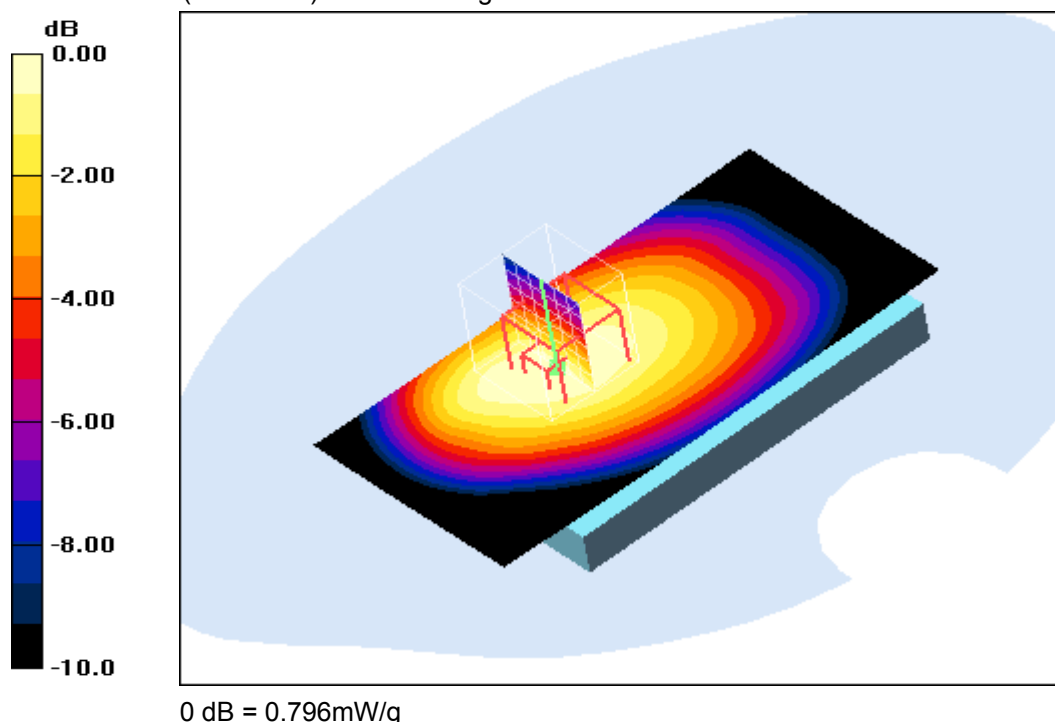
dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.6 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.750 mW/g; SAR(10 g) = 0.546 mW/g

Maximum value of SAR (measured) = 0.796 mW/g



Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.5°C; liquid temperature: 21.6°C

Date/Time: 03.02.2011 09:57:56 Date/Time: 03.02.2011 10:04:56

IEEE1528_OET65-Body-GSM850-1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.787 mW/g

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

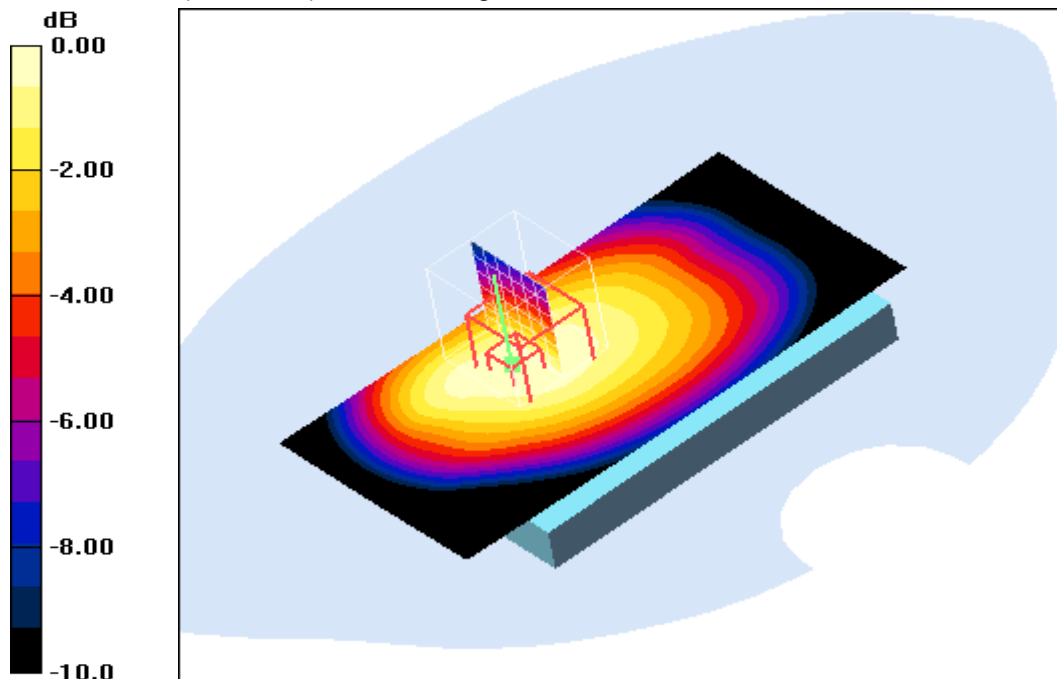
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.5 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 0.992 W/kg

SAR(1 g) = 0.741 mW/g; SAR(10 g) = 0.540 mW/g

Maximum value of SAR (measured) = 0.785 mW/g



0 dB = 0.785mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.5°C; liquid temperature: 21.6°C

Date/Time: 03.02.2011 10:19:24 Date/Time: 03.02.2011 10:27:58

IEEE1528_OET65-Body-GSM850-1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.786 mW/g

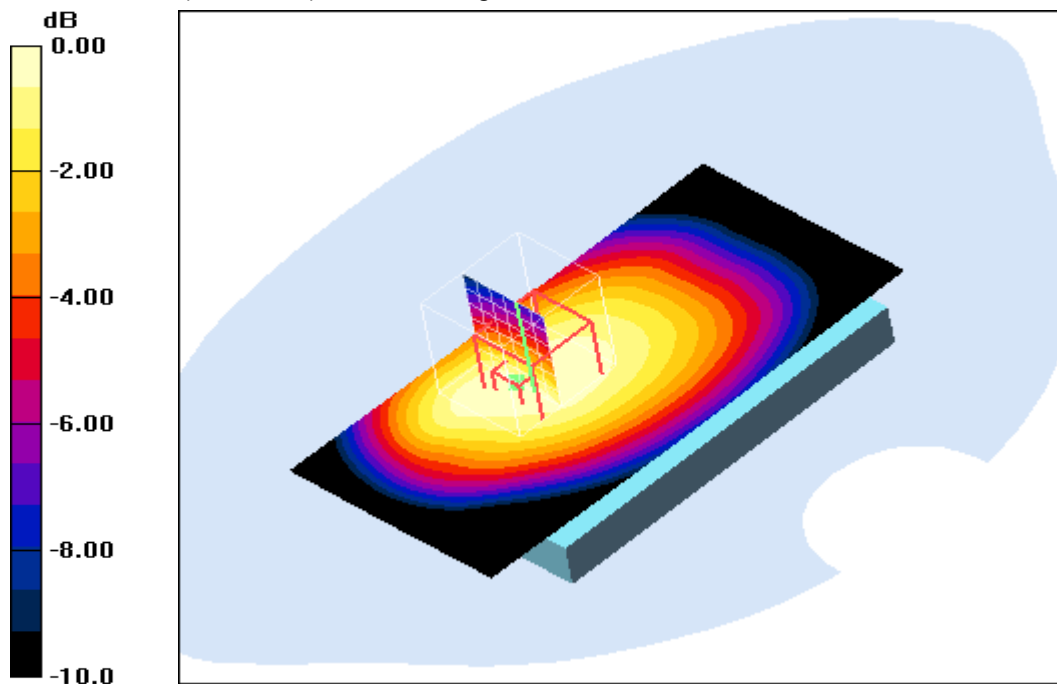
Front position - High/Zoom Scan (7x7x7) (7x8x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.4 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.992 W/kg

SAR(1 g) = 0.736 mW/g; SAR(10 g) = 0.539 mW/g

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



0 dB = 0.775mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.5°C; liquid temperature: 21.6°C

Date/Time: 03.02.2011 10:44:28 Date/Time: 03.02.2011 10:52:16

IEEE1528_OET65-Body-GSM850-1TS**DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U**

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

Medium: M850 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 11.08.2010

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

- Electronics: DAE3 Sn477; Calibrated: 07.05.2010

- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.924 mW/g

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

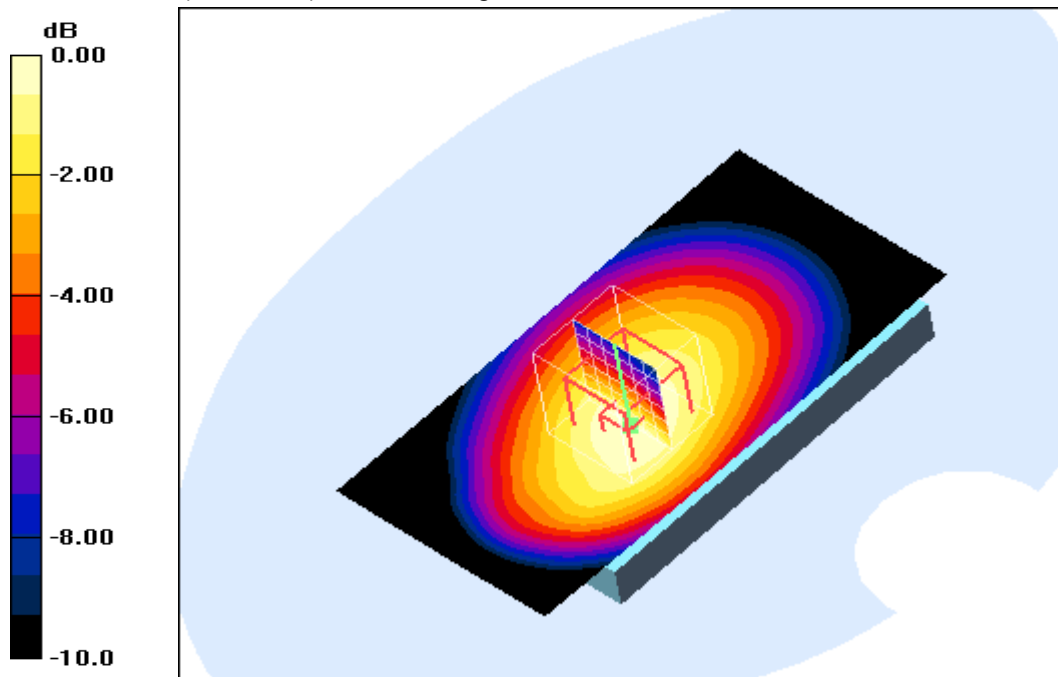
dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.9 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.853 mW/g; SAR(10 g) = 0.606 mW/g

Maximum value of SAR (measured) = 0.909 mW/g



0 dB = 0.909mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.5°C; liquid temperature: 21.6°C

Date/Time: 03.02.2011 11:07:46 Date/Time: 03.02.2011 11:21:24

IEEE1528_OET65-Body-GSM850-1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.898 mW/g

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

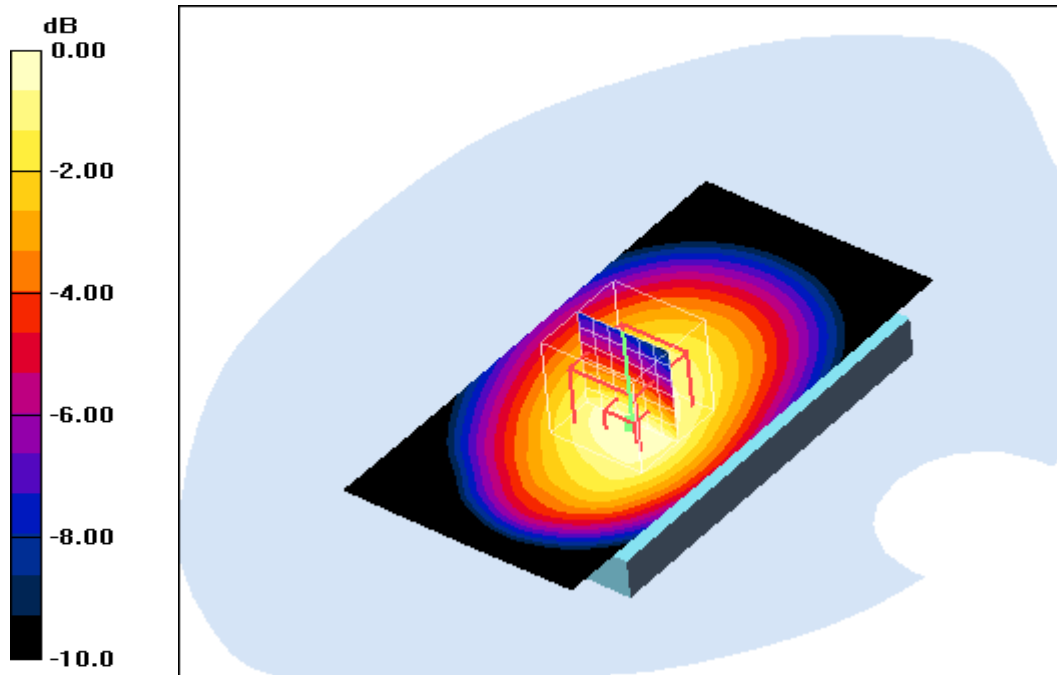
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 31.4 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.823 mW/g; SAR(10 g) = 0.587 mW/g

Maximum value of SAR (measured) = 0.880 mW/g



0 dB = 0.880mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.5°C; liquid temperature: 21.6°C

Date/Time: 03.02.2011 11:35:55 Date/Time: 03.02.2011 11:44:46

IEEE1528_OET65-Body-GSM850-1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

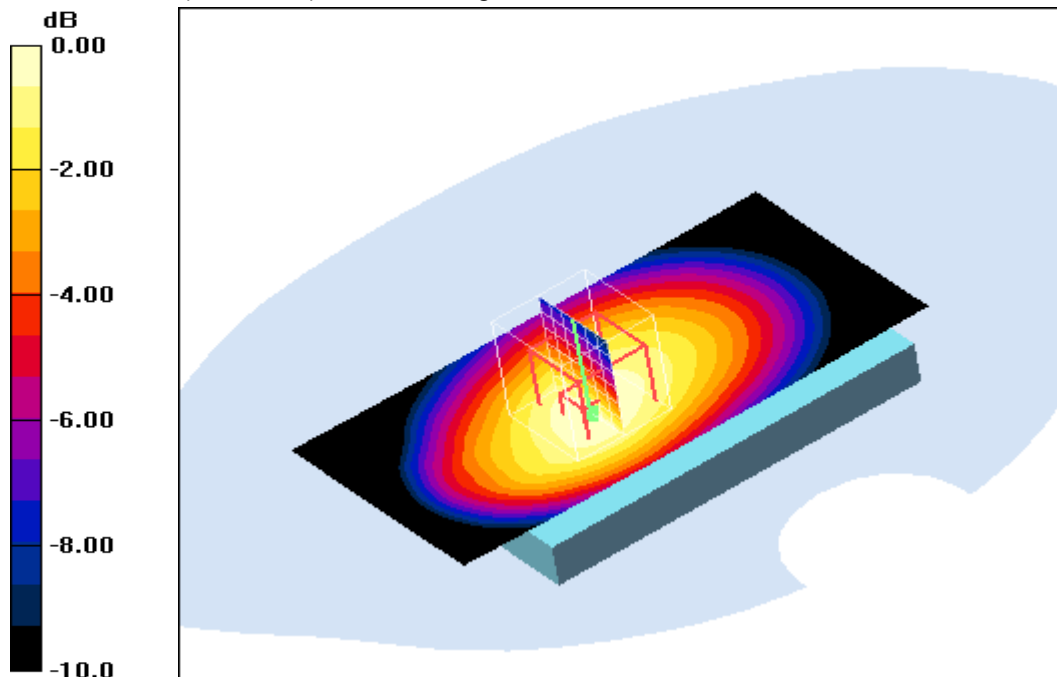
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.898 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 = 31.6 V/m; Power Drift = -0.00 dB
 Peak SAR (extrapolated) = 1.14 W/kg
SAR(1 g) = 0.836 mW/g; SAR(10 g) = 0.596 mW/g
 Maximum value of SAR (measured) = 0.894 mW/g



0 dB = 0.894mW/g

Additional information:

position or distance of DUT to SAM: 10 mm
 ambient temperature: 22.5°C; liquid temperature: 21.6°C

Date/Time: 03.02.2011 12:22:52 Date/Time: 03.02.2011 12:30:34

IEEE1528_OET65-Body-GSM850-1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

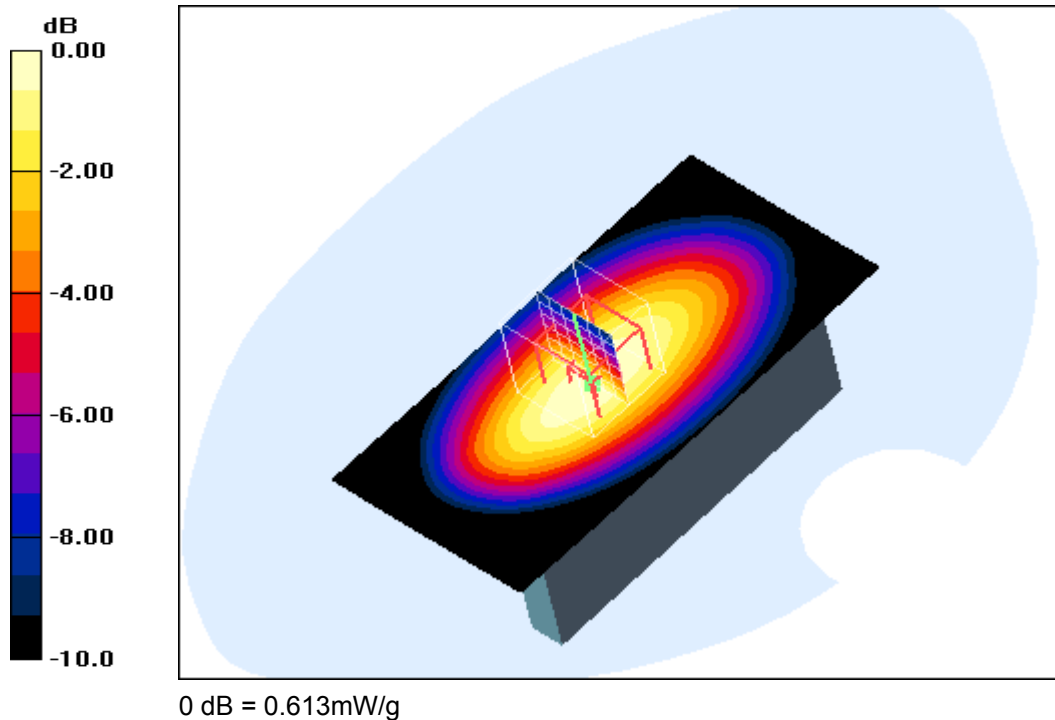
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Left side edge - Middle/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.609 mW/g

Left side edge - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 25.2 V/m; Power Drift = -0.027 dB
 Peak SAR (extrapolated) = 0.812 W/kg
SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.384 mW/g
 Maximum value of SAR (measured) = 0.613 mW/g



Additional information:
 position or distance of DUT to SAM: 10 mm
 ambient temperature: 22.5°C; liquid temperature: 21.6°C

Date/Time: 03.02.2011 12:45:56 Date/Time: 03.02.2011 13:00:58

IEEE1528_OET65-Body-GSM850-1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Right side edge - Middle/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

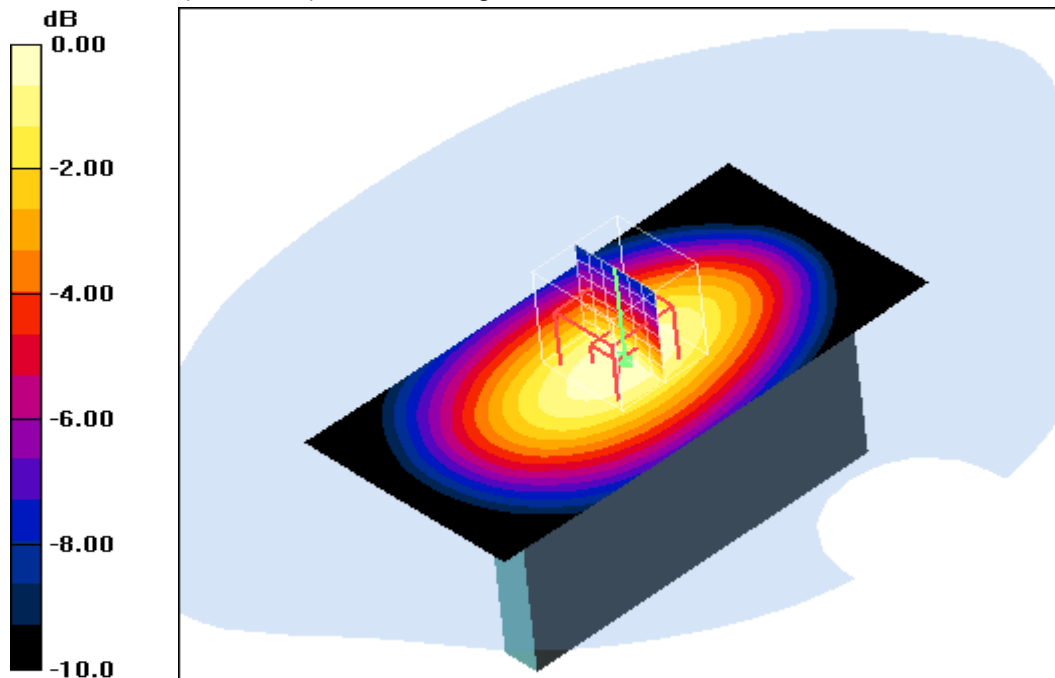
Right side edge - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.0 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.617 W/kg

SAR(1 g) = 0.442 mW/g; SAR(10 g) = 0.306 mW/g

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



0 dB = 0.472mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.5°C; liquid temperature: 21.6°C

Date/Time: 03.02.2011 13:17:32 Date/Time: 03.02.2011 13:33:07

IEEE1528_OET65-Body-GSM850-1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Bottom edge - Middle/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.128 mW/g

Bottom edge - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

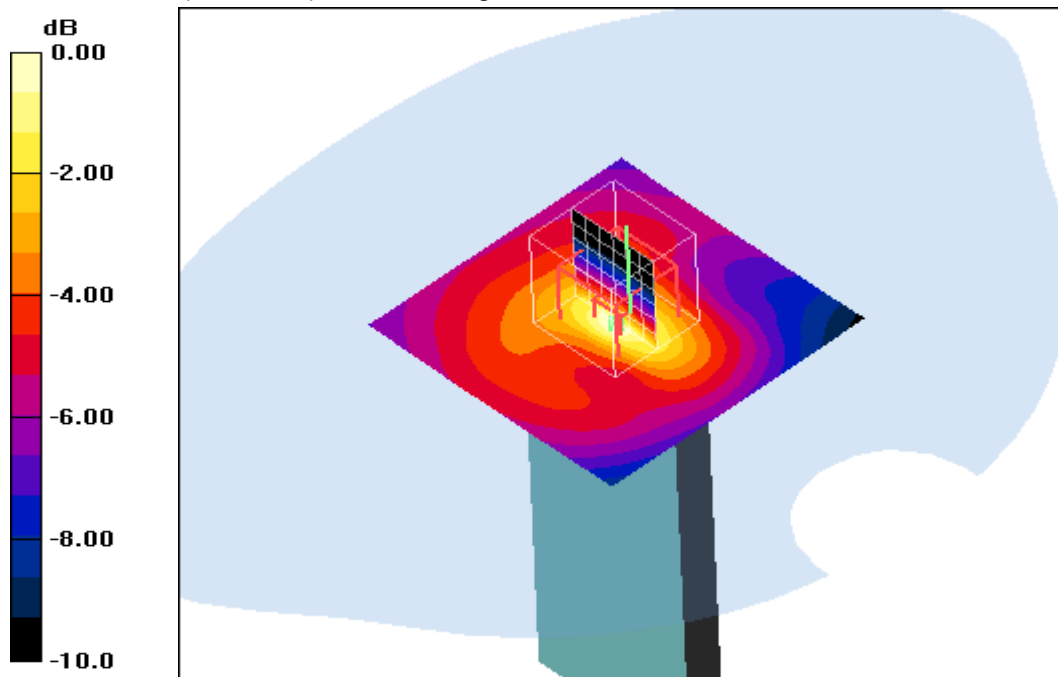
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.2 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.330 W/kg

SAR(1 g) = 0.127 mW/g; SAR(10 g) = 0.064 mW/g

Maximum value of SAR (measured) = 0.131 mW/g



0 dB = 0.131 mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.5°C; liquid temperature: 21.6°C

Date/Time: 03.02.2011 11:59:56 Date/Time: 03.02.2011 12:06:59

IEEE1528_OET65-Body-GSM850-1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low 15mm/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

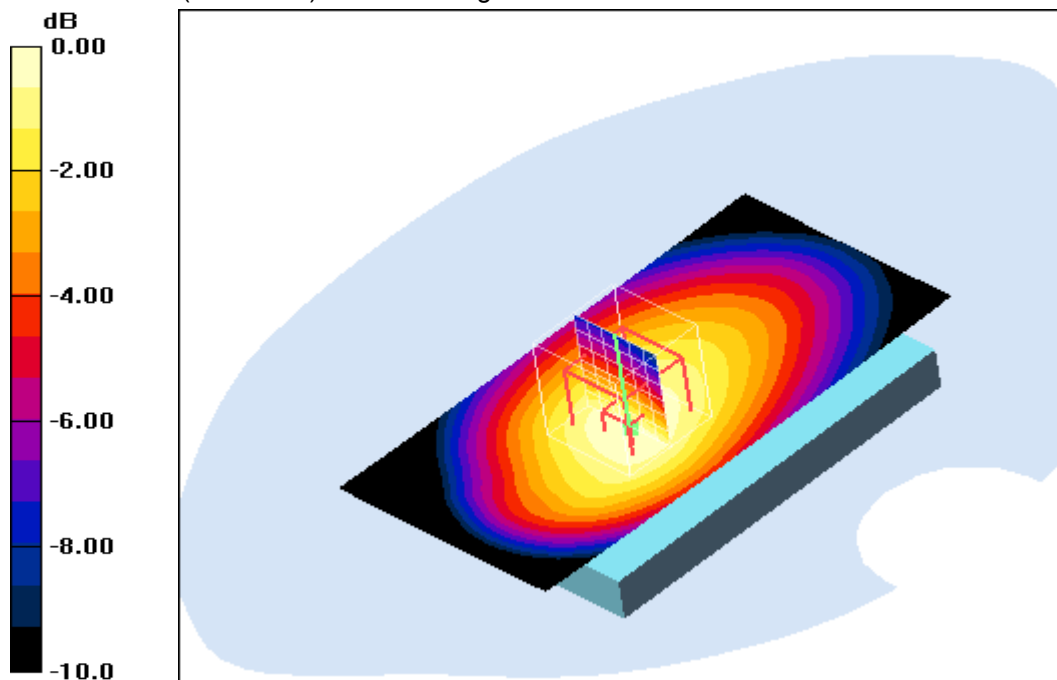
Rear position - Low 15mm/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.0 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.367 mW/g; SAR(10 g) = 0.263 mW/g

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



0 dB = 0.391mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 22.5°C; liquid temperature: 21.6°C

Annex B.3: GSM 1900 MHz head

Date/Time: 10.02.2011 15:14:55 Date/Time: 10.02.2011 15:25:13

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

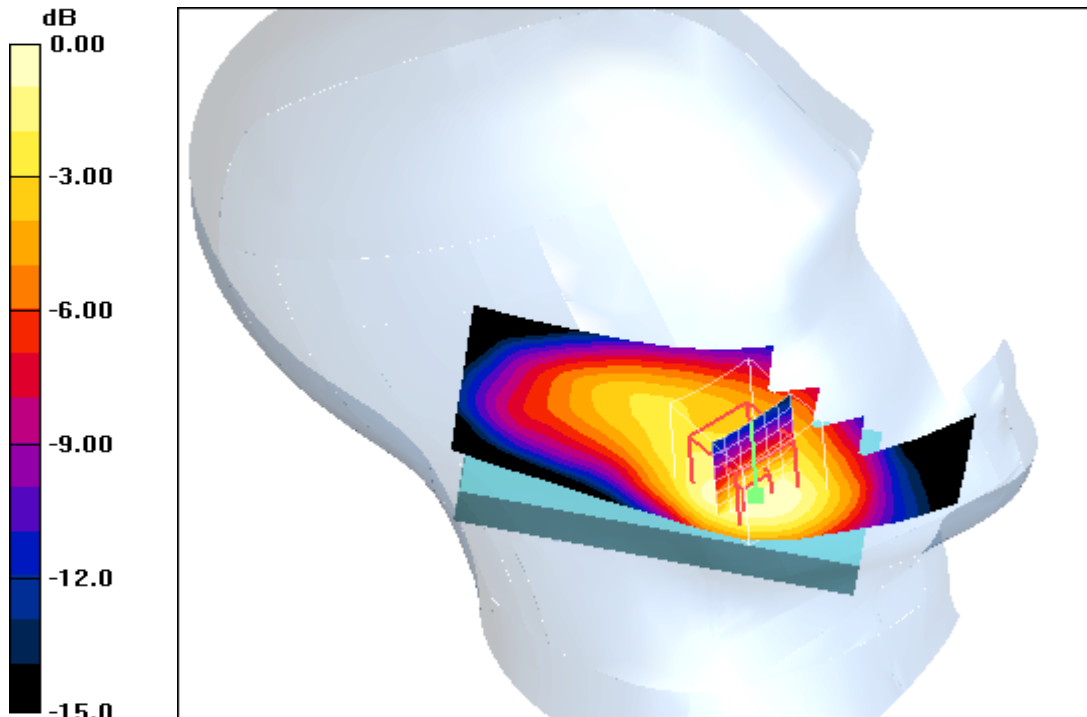
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.573 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x8x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 19.9 V/m; Power Drift = -0.065 dB
 Peak SAR (extrapolated) = 0.831 W/kg
SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.310 mW/g
 Maximum value of SAR (measured) = 0.546 mW/g



Additional information:
 ambient temperature: 21.7°C; liquid temperature: 20.4°C

Date/Time: 10.02.2011 14:44:20 Date/Time: 10.02.2011 14:53:49

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

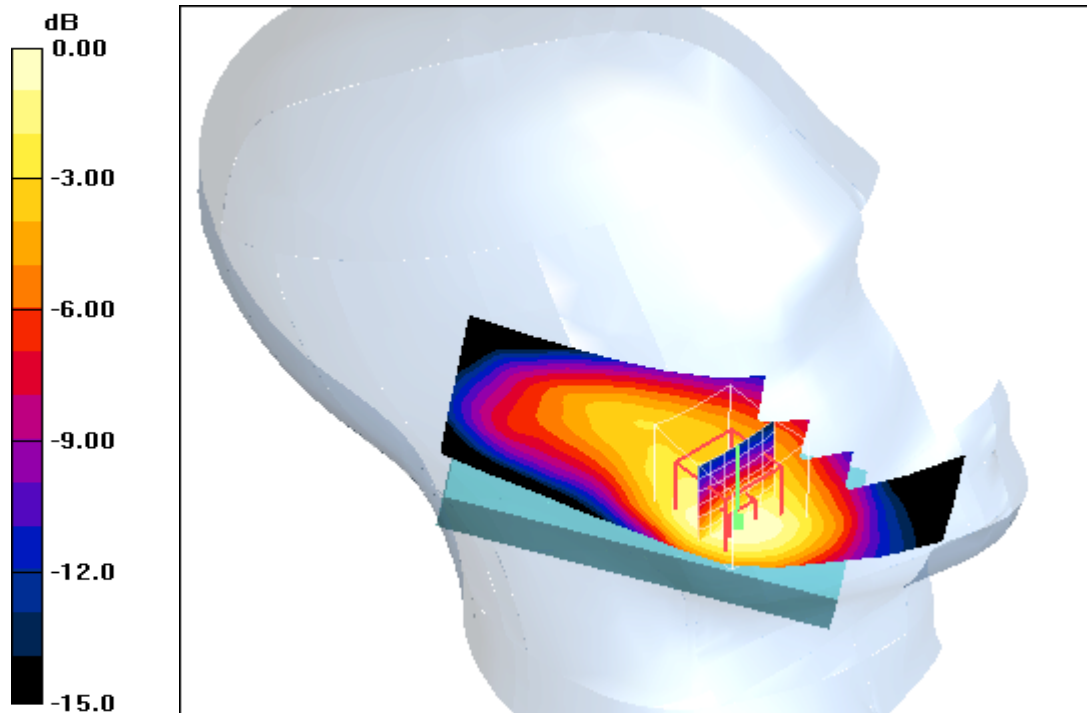
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.680 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x8x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 21.9 V/m; Power Drift = 0.027 dB
 Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.619 mW/g; SAR(10 g) = 0.366 mW/g
 Maximum value of SAR (measured) = 0.664 mW/g



0 dB = 0.664mW/g

Additional information:

ambient temperature: 21.7°C; liquid temperature: 20.4°C

Date/Time: 10.02.2011 14:19:03 Date/Time: 10.02.2011 14:27:48

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL1900 Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.842 mW/g

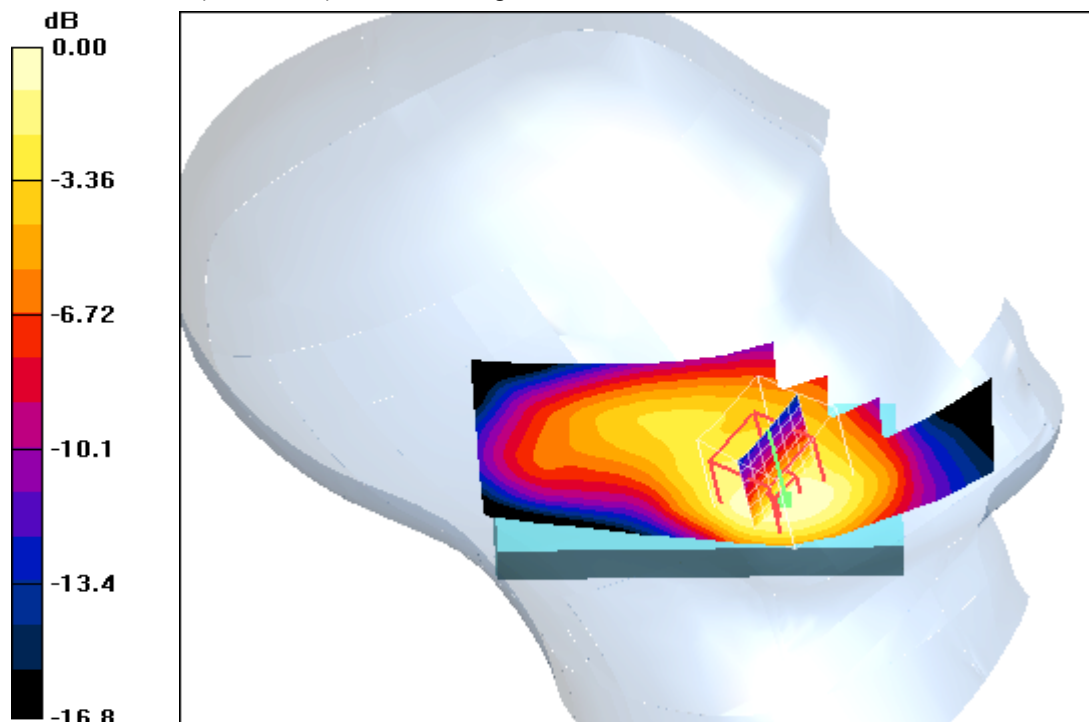
Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.4 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.766 mW/g; SAR(10 g) = 0.449 mW/g

Maximum value of SAR (measured) = 0.821 mW/g



0 dB = 0.821mW/g

Additional information:

ambient temperature: 21.7°C; liquid temperature: 20.4°C

Date/Time: 10.02.2011 13:00:54 Date/Time: 10.02.2011 13:09:25

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.302 mW/g

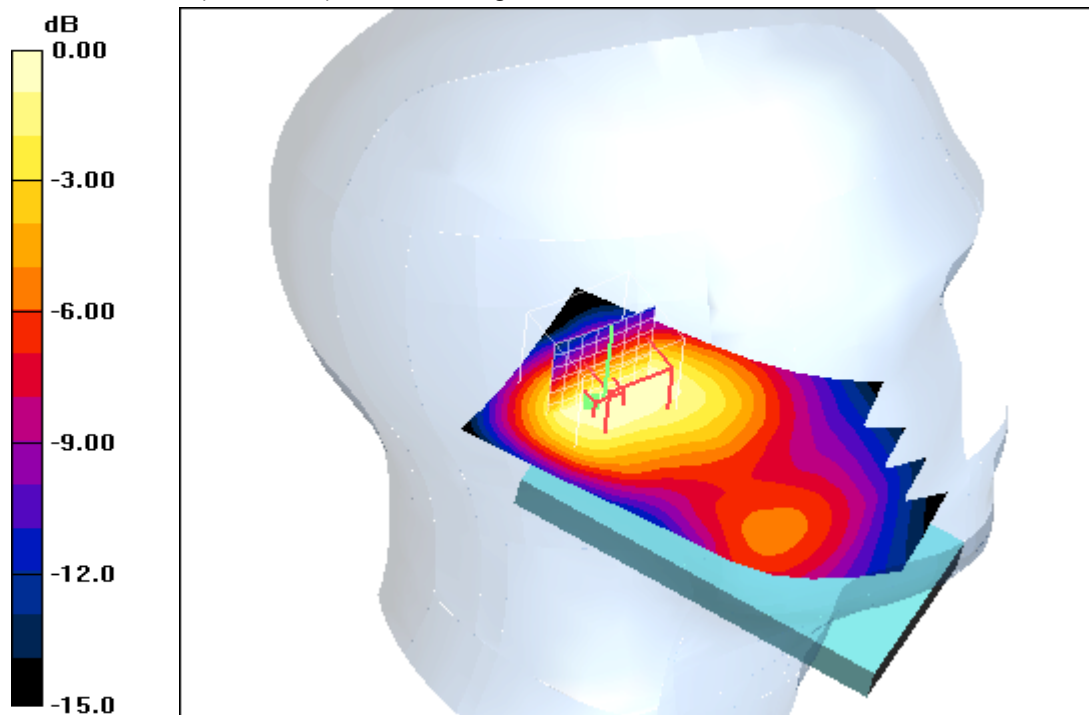
Tilt position - Low/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.3 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.162 mW/g

Maximum value of SAR (measured) = 0.279 mW/g



0 dB = 0.279mW/g

Additional information:

ambient temperature: 21.7°C; liquid temperature: 20.4°C

Date/Time: 10.02.2011 13:27:10 Date/Time: 10.02.2011 13:36:16

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.357 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid:

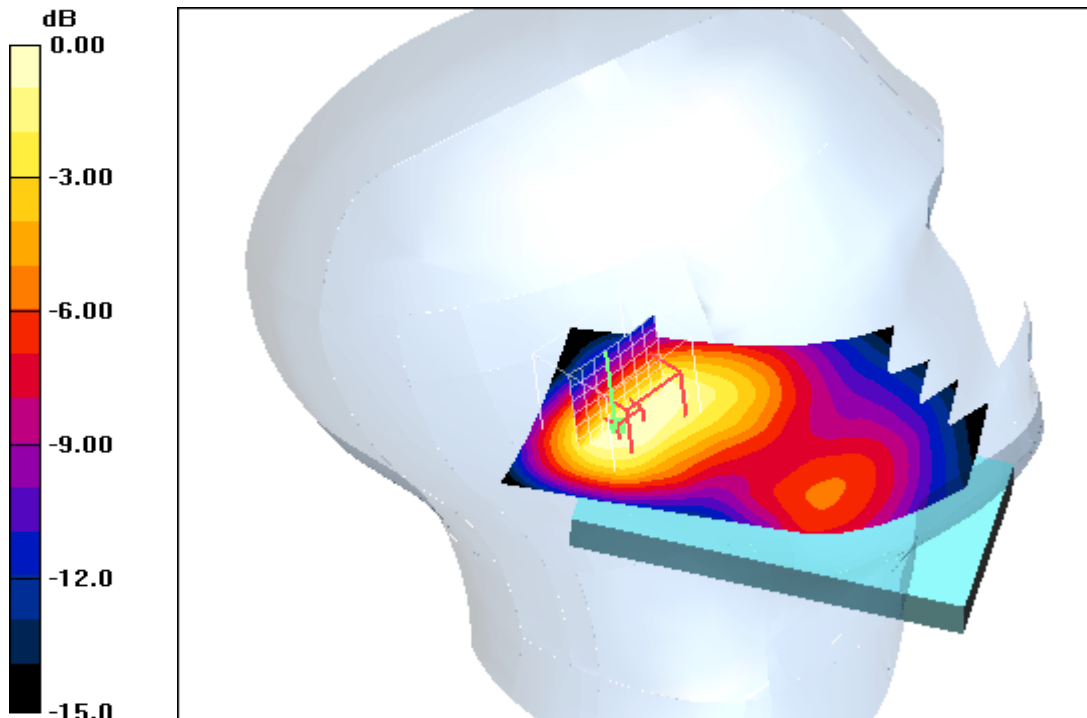
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.2 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.300 mW/g; SAR(10 g) = 0.183 mW/g

Maximum value of SAR (measured) = 0.330 mW/g



0 dB = 0.330mW/g

Additional information:

ambient temperature: 21.7°C; liquid temperature: 20.4°C

Date/Time: 10.02.2011 13:52:33 Date/Time: 10.02.2011 14:01:18

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.460 mW/g

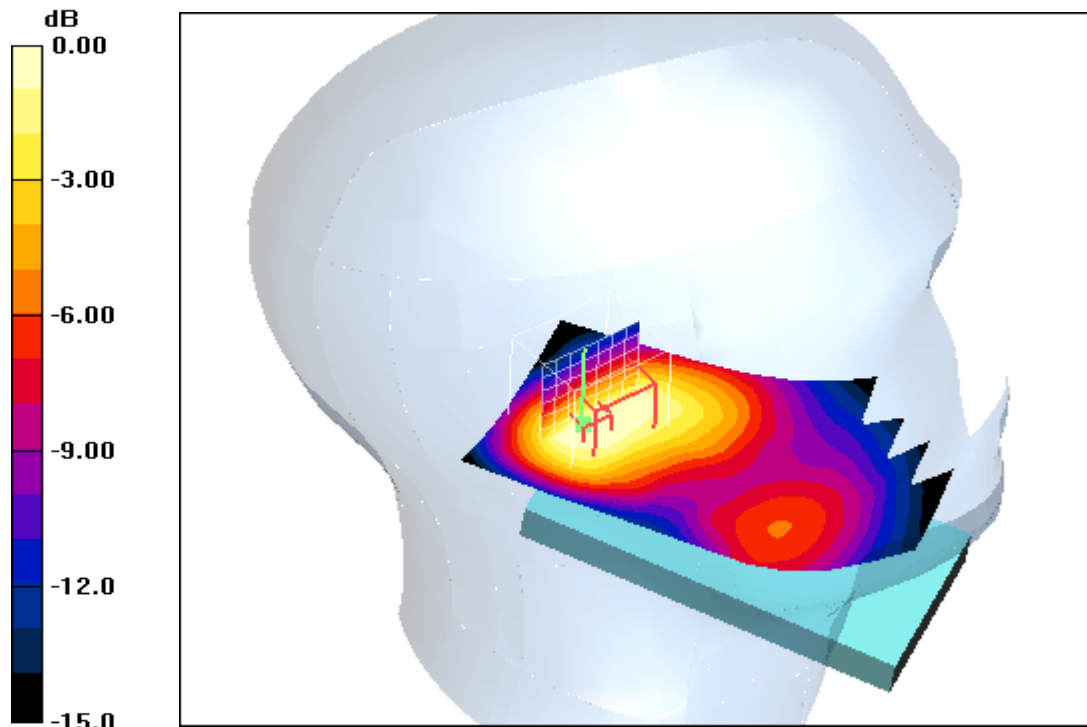
Tilt position - High/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.9 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 0.620 W/kg

SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.226 mW/g

Maximum value of SAR (measured) = 0.415 mW/g



0 dB = 0.415mW/g

Additional information:

ambient temperature: 21.7°C; liquid temperature: 20.4°C

Date/Time: 10.02.2011 09:56:45 Date/Time: 10.02.2011 10:06:35

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.389 mW/g

Touch position - Low/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid:

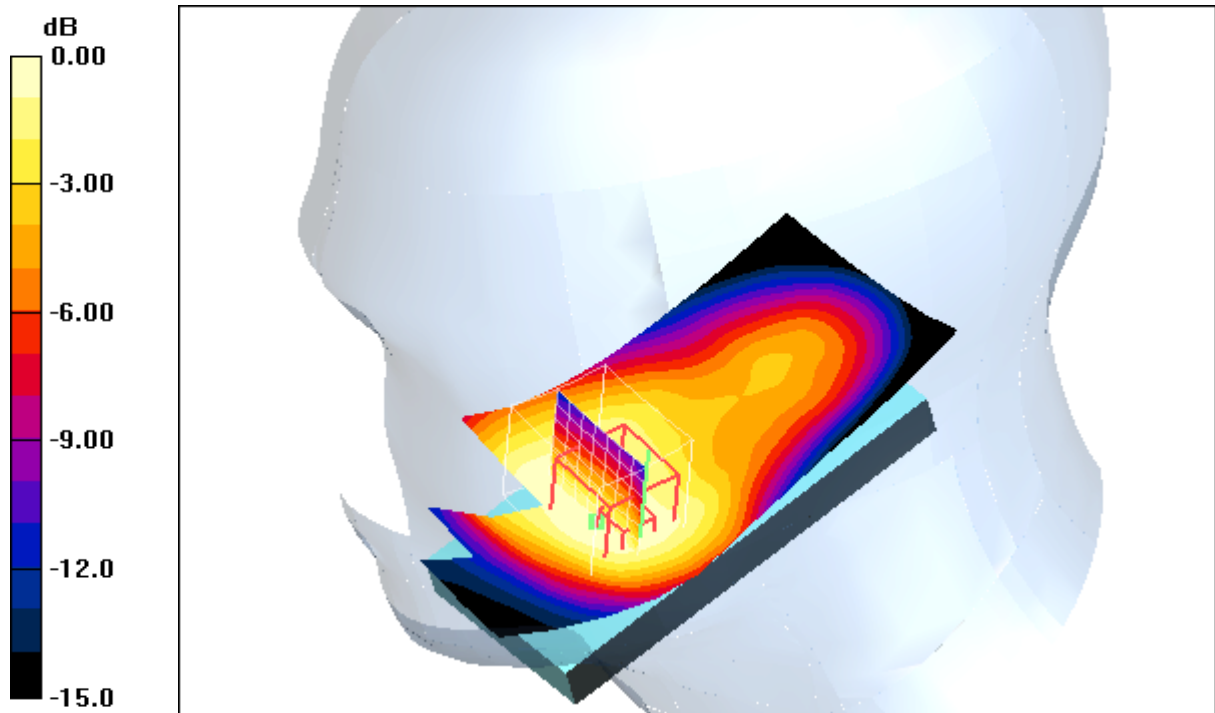
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.8 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.501 W/kg

SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.234 mW/g

Maximum value of SAR (measured) = 0.386 mW/g



0 dB = 0.386mW/g

Additional information:

ambient temperature: 21.7°C; liquid temperature: 20.4°C

Date/Time: 10.02.2011 10:32:23 Date/Time: 10.02.2011 10:43:19

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

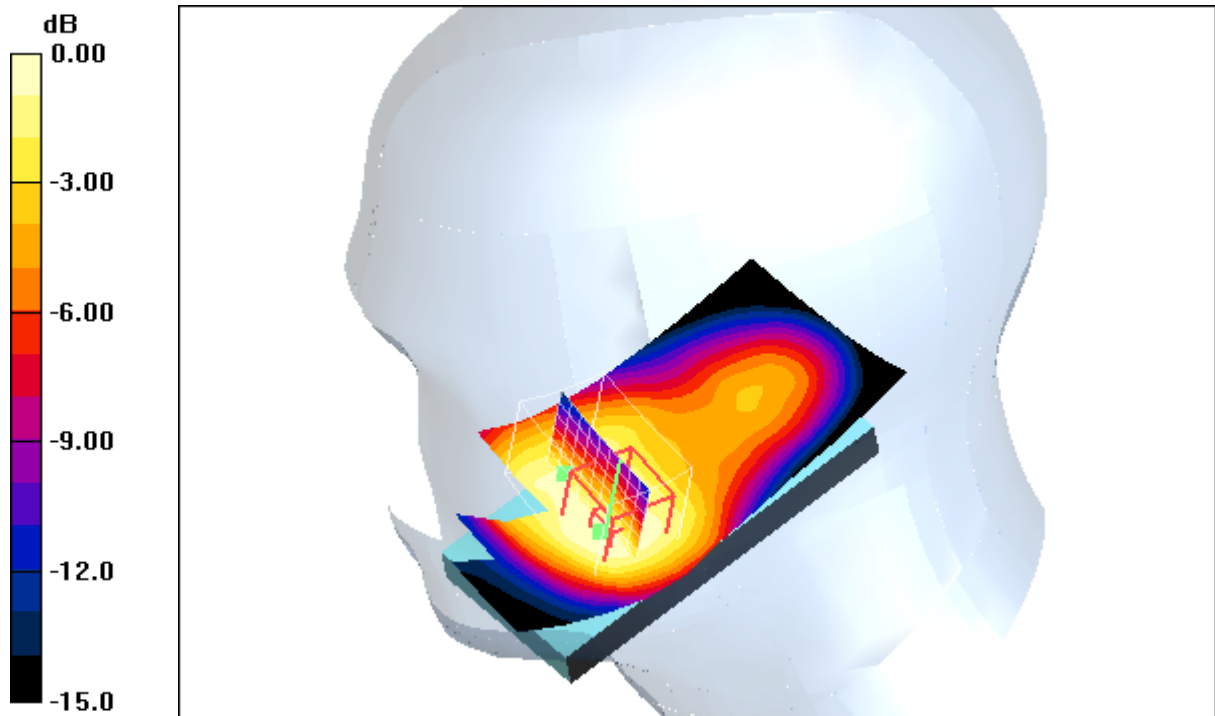
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.476 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (10x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 18.8 V/m; Power Drift = -0.093 dB
 Peak SAR (extrapolated) = 0.611 W/kg
SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.282 mW/g
 Maximum value of SAR (measured) = 0.466 mW/g



Additional information:
 ambient temperature: 21.7°C; liquid temperature: 20.4°C

Date/Time: 10.02.2011 11:08:44 Date/Time: 10.02.2011 11:19:57

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

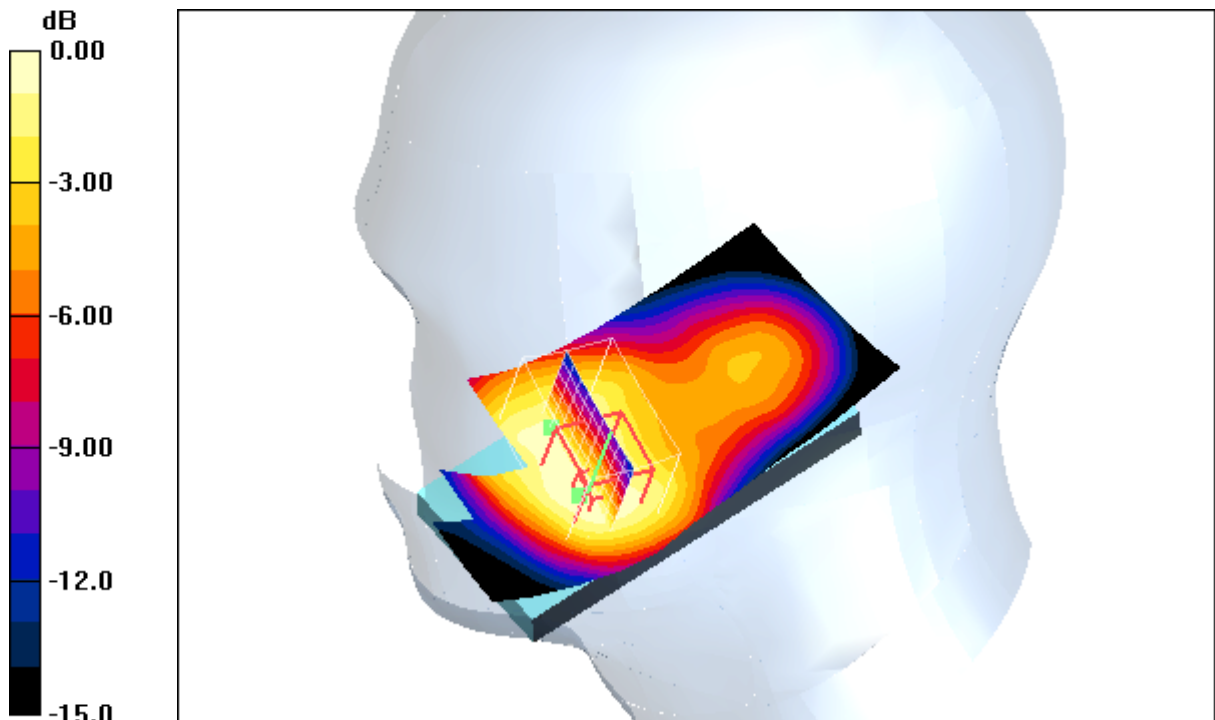
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.534 mW/g

Touch position - High/Zoom Scan (7x7x7) (10x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 19.9 V/m; Power Drift = 0.145 dB
 Peak SAR (extrapolated) = 0.741 W/kg
SAR(1 g) = 0.528 mW/g; SAR(10 g) = 0.343 mW/g
 Maximum value of SAR (measured) = 0.564 mW/g



0 dB = 0.564mW/g

Additional information:

ambient temperature: 21.7°C; liquid temperature: 20.4°C

Date/Time: 10.02.2011 12:31:30 Date/Time: 10.02.2011 12:39:56

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.291 mW/g

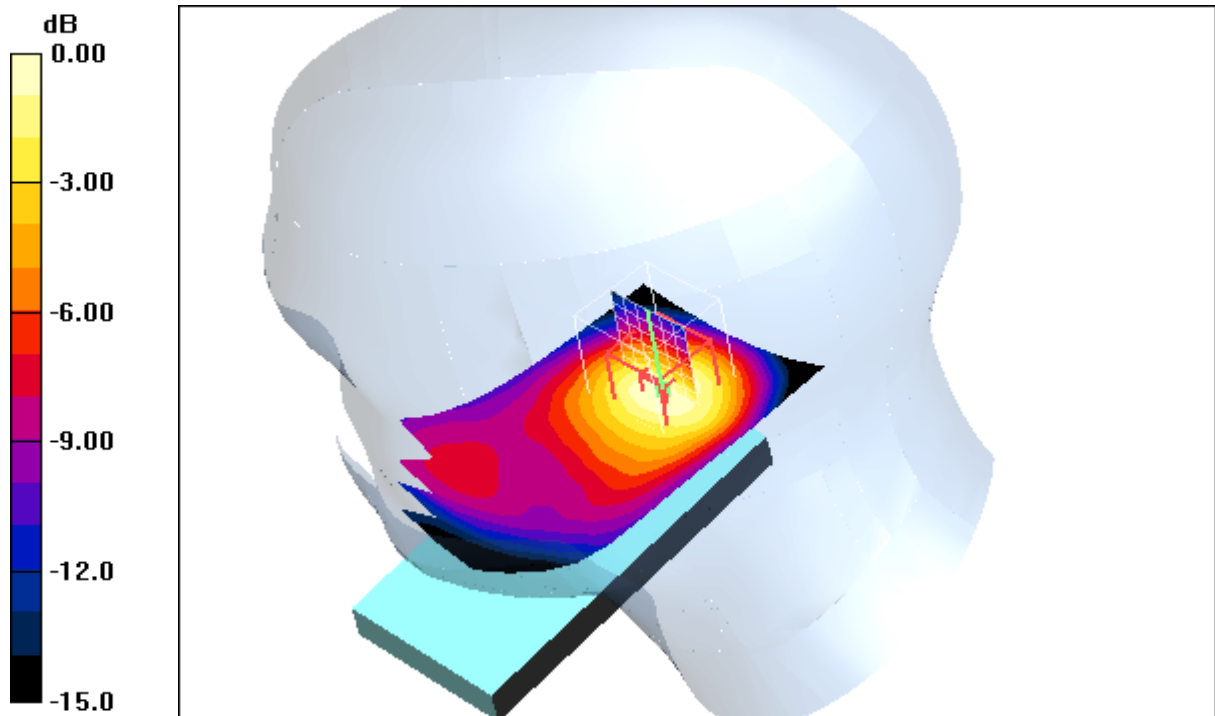
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.391 W/kg

SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.151 mW/g

Maximum value of SAR (measured) = 0.276 mW/g



0 dB = 0.276mW/g

Additional information:

ambient temperature: 21.7°C; liquid temperature: 20.4°C

Date/Time: 10.02.2011 12:06:58 Date/Time: 10.02.2011 12:15:41

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.367 mW/g

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

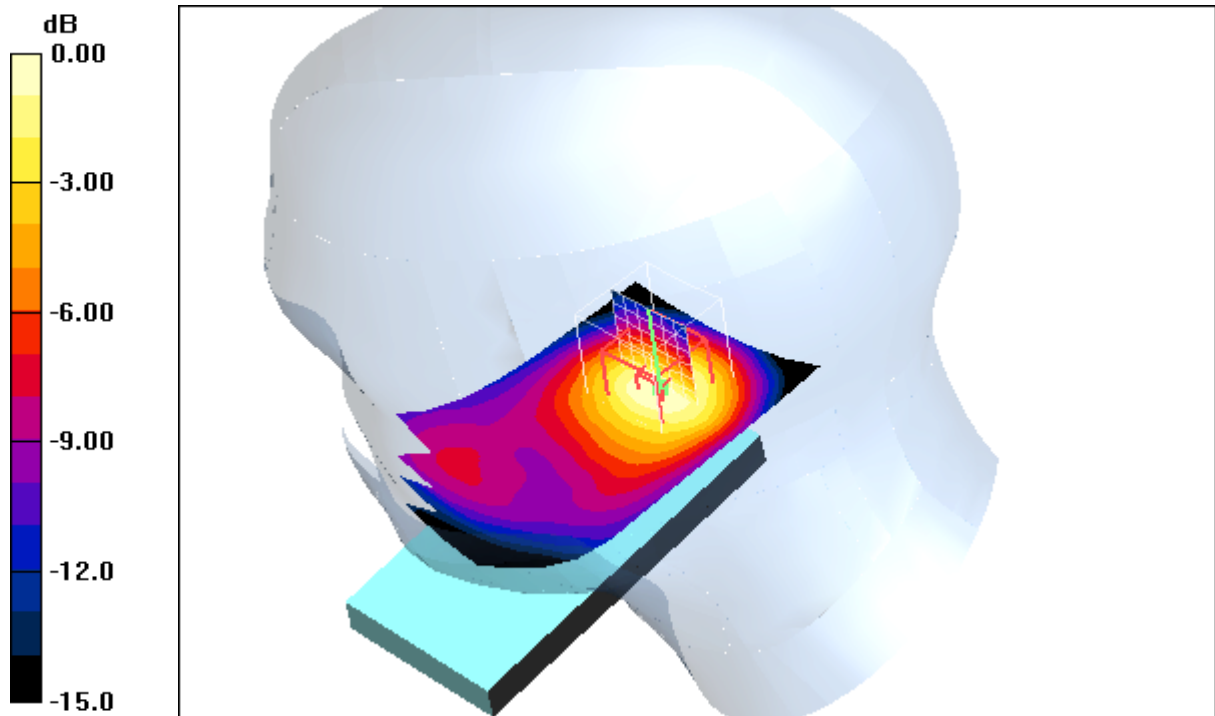
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.4 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.488 W/kg

SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.185 mW/g

Maximum value of SAR (measured) = 0.345 mW/g



0 dB = 0.345mW/g

Additional information:

ambient temperature: 21.7°C; liquid temperature: 20.4°C

Date/Time: 10.02.2011 11:42:03 Date/Time: 10.02.2011 11:51:30

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(5.02, 5.02, 5.02); Calibrated: 19.01.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 13.01.2011
- Phantom: SAM left; Type: SAM; Serial: 1041
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.506 mW/g

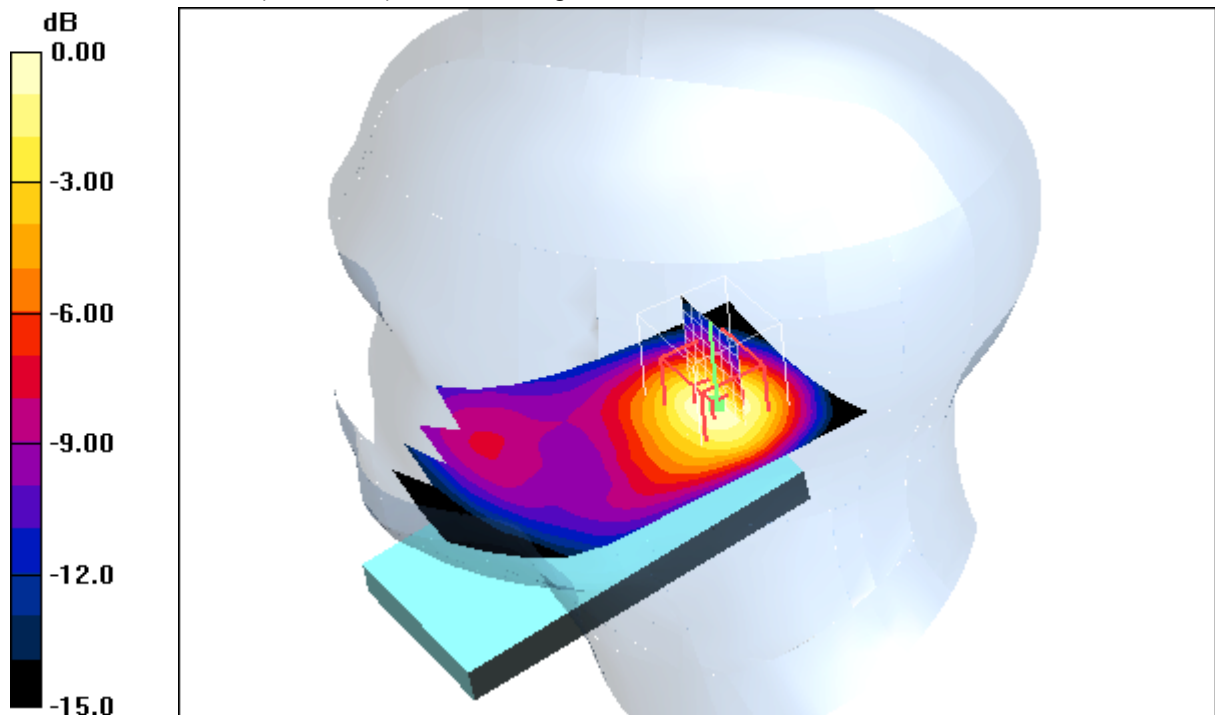
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.8 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.683 W/kg

SAR(1 g) = 0.429 mW/g; SAR(10 g) = 0.247 mW/g

Maximum value of SAR (measured) = 0.477 mW/g



0 dB = 0.477mW/g

Additional information:

ambient temperature: 21.7°C; liquid temperature: 20.4°C

Annex B.4: GSM 1900 MHz body

Date/Time: 11.02.2011 10:12:30 Date/Time: 11.02.2011 10:19:26

IEEE1528_OET65-Body-GSM1900 1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M1900 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

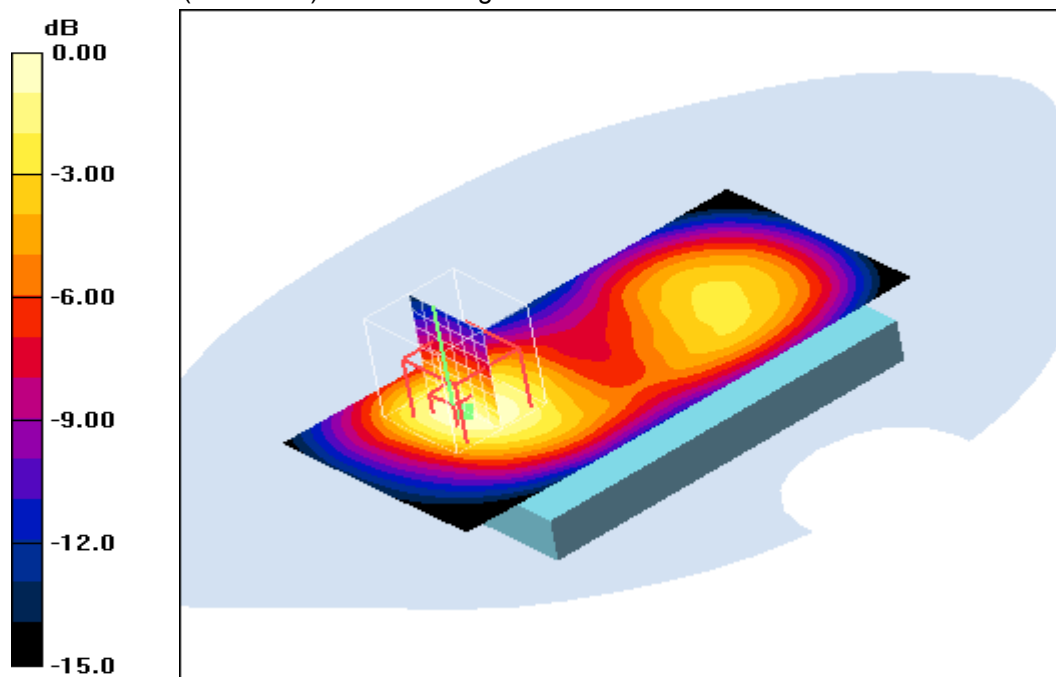
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.35, 4.35, 4.35); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.371 mW/g

Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.2 V/m; Power Drift = 0.161 dB
Peak SAR (extrapolated) = 0.532 W/kg
SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.209 mW/g
Maximum value of SAR (measured) = 0.380 mW/g



0 dB = 0.380mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

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

Date/Time: 11.02.2011 10:33:05 Date/Time: 11.02.2011 10:40:04

IEEE1528_OET65-Body-GSM1900 1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 53.3$; $\rho = 1000 \text{ kg/m}^3$

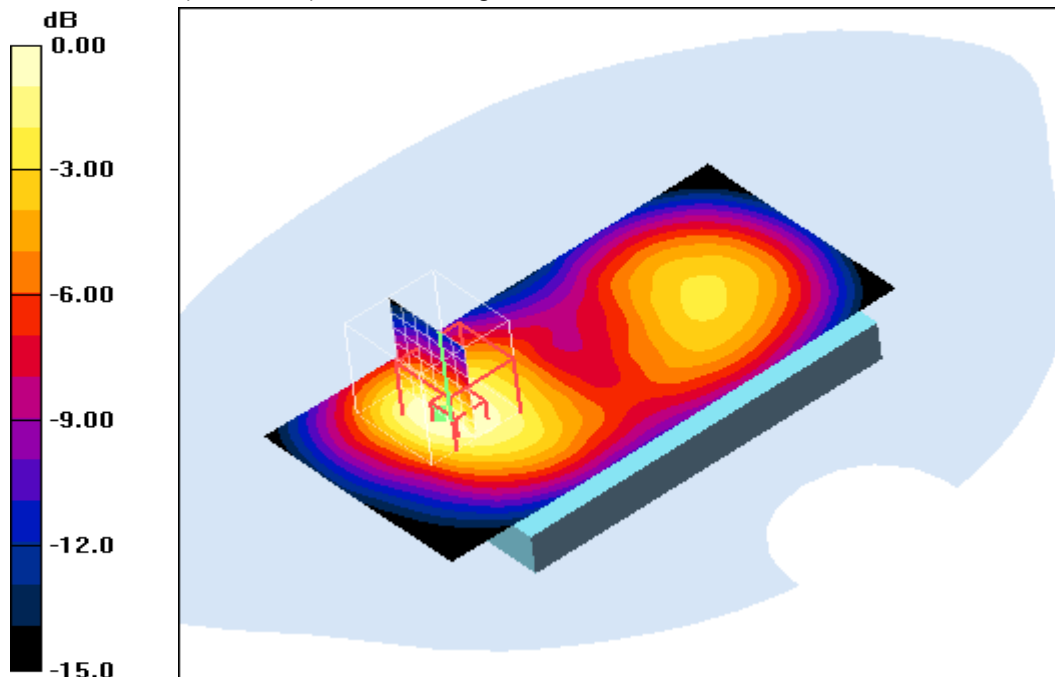
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.35, 4.35, 4.35); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.488 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 = 18.3 V/m; Power Drift = -0.010 dB
 Peak SAR (extrapolated) = 0.637 W/kg
SAR(1 g) = 0.431 mW/g; SAR(10 g) = 0.261 mW/g
 Maximum value of SAR (measured) = 0.482 mW/g



0 dB = 0.482mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

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

Date/Time: 11.02.2011 10:54:09 Date/Time: 11.02.2011 11:01:07

IEEE1528_OET65-Body-GSM1900 1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 53.3$; $\rho = 1000 \text{ kg/m}^3$

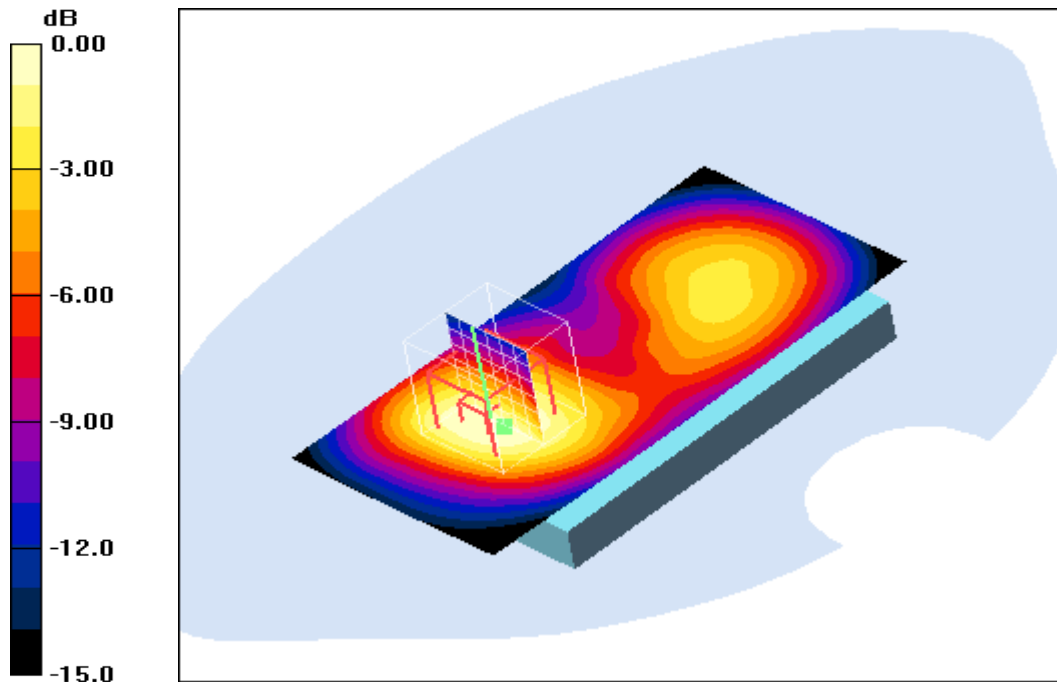
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.35, 4.35, 4.35); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.648 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 = 21.6 V/m; Power Drift = -0.064 dB
 Peak SAR (extrapolated) = 0.839 W/kg
SAR(1 g) = 0.563 mW/g; SAR(10 g) = 0.345 mW/g
 Maximum value of SAR (measured) = 0.619 mW/g



0 dB = 0.619mW/g

Additional information:

position or distance of DUT to SAM: 10 mm
 ambient temperature: 22.3°C; liquid temperature: 22.2°C

Date/Time: 11.02.2011 11:18:09 Date/Time: 11.02.2011 11:25:09

IEEE1528_OET65-Body-GSM1900 1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M1900 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.35, 4.35, 4.35); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.540 mW/g

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

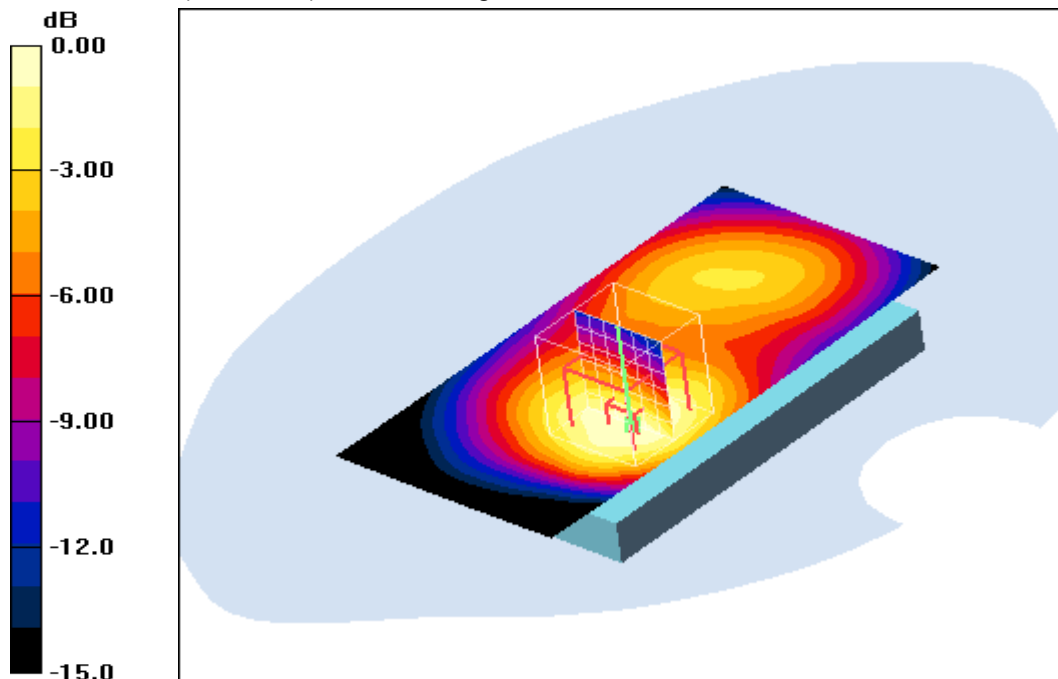
dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.0 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 0.662 W/kg

SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.286 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: 10 mm

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

Date/Time: 11.02.2011 11:39:56 Date/Time: 11.02.2011 11:46:56

IEEE1528_OET65-Body-GSM1900 1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 53.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.35, 4.35, 4.35); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.659 mW/g

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

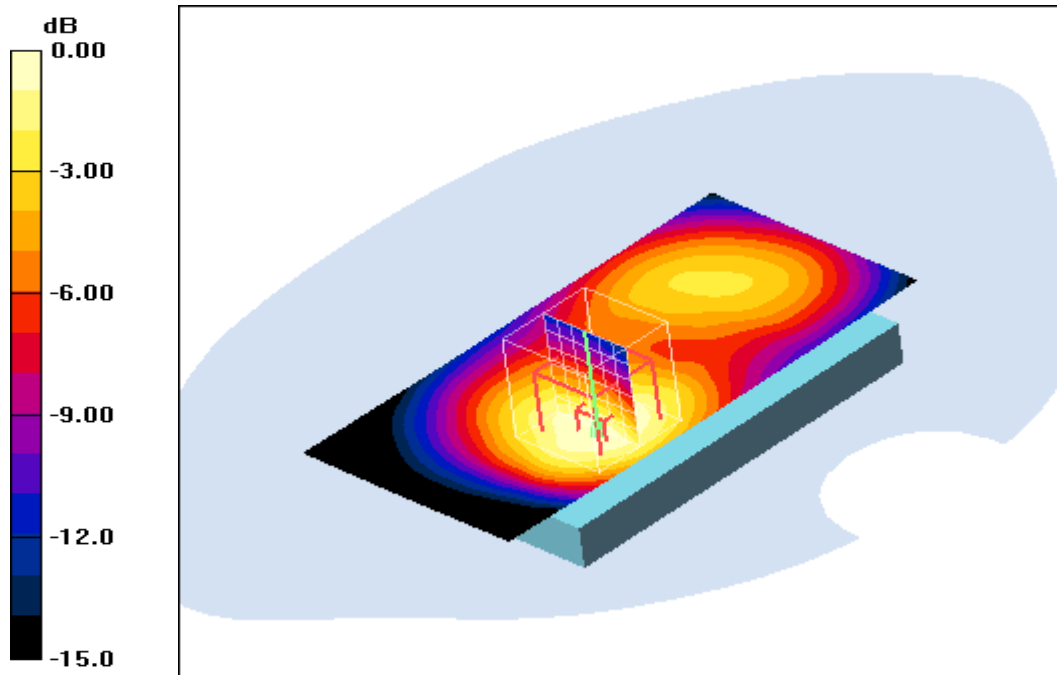
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.8 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.815 W/kg

SAR(1 g) = 0.560 mW/g; SAR(10 g) = 0.350 mW/g

Maximum value of SAR (measured) = 0.609 mW/g



0 dB = 0.609mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

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

Date/Time: 11.02.2011 12:01:00 Date/Time: 11.02.2011 12:08:00

IEEE1528_OET65-Body-GSM1900 1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 53.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.35, 4.35, 4.35); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.853 mW/g

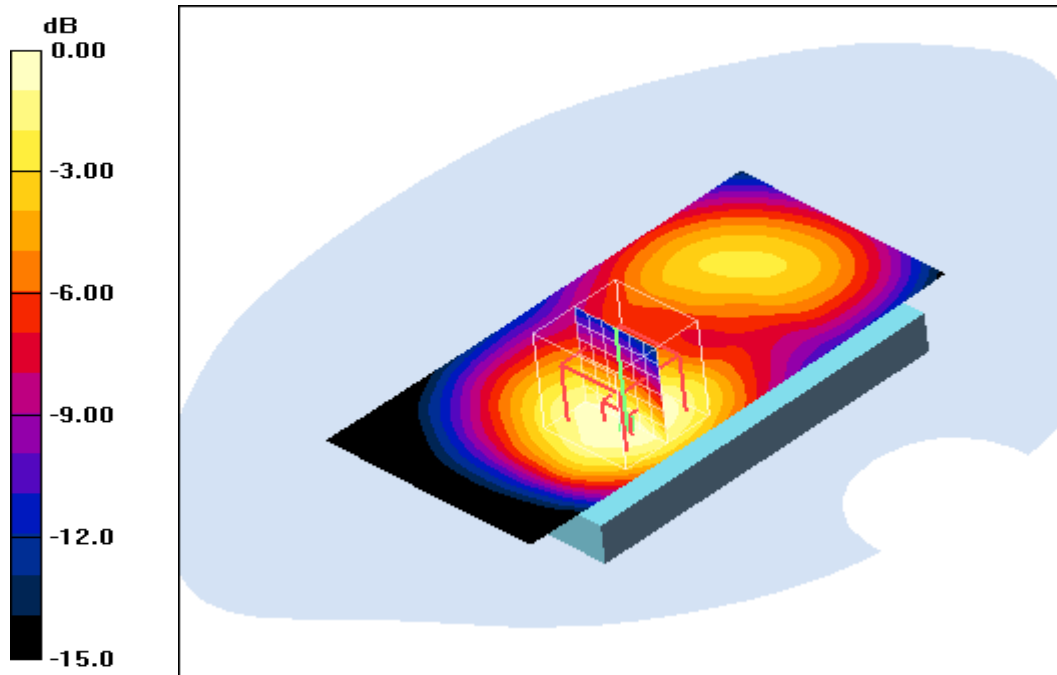
Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.9 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.721 mW/g; SAR(10 g) = 0.448 mW/g

Maximum value of SAR (measured) = 0.781 mW/g



0 dB = 0.781mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

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

Date/Time: 11.02.2011 13:13:30 Date/Time: 11.02.2011 13:20:36

IEEE1528_OET65-Body-GSM1900 1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 53.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.35, 4.35, 4.35); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Left side edge position - Middle/Area Scan (51x101x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.381 mW/g

Left side edge position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

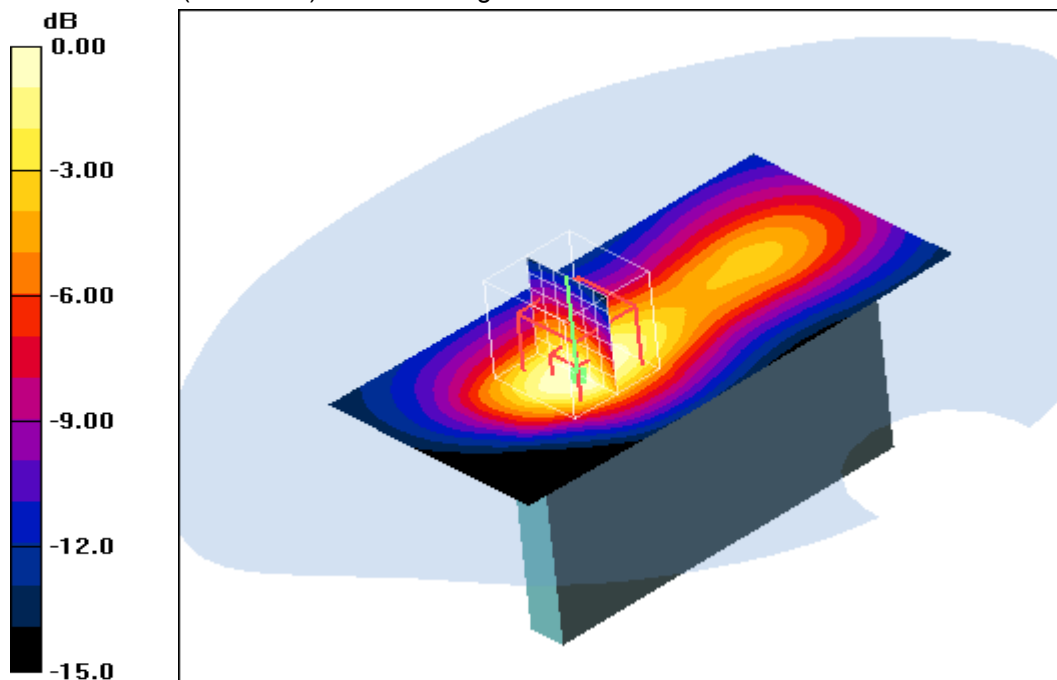
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.2 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 0.461 W/kg

SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.172 mW/g

Maximum value of SAR (measured) = 0.329 mW/g



0 dB = 0.329mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

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

Date/Time: 11.02.2011 12:50:48 Date/Time: 11.02.2011 12:58:43

IEEE1528_OET65-Body-GSM1900 1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 53.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.35, 4.35, 4.35); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Right side edge position - Middle/Area Scan (51x101x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.109 mW/g

Right side edge position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

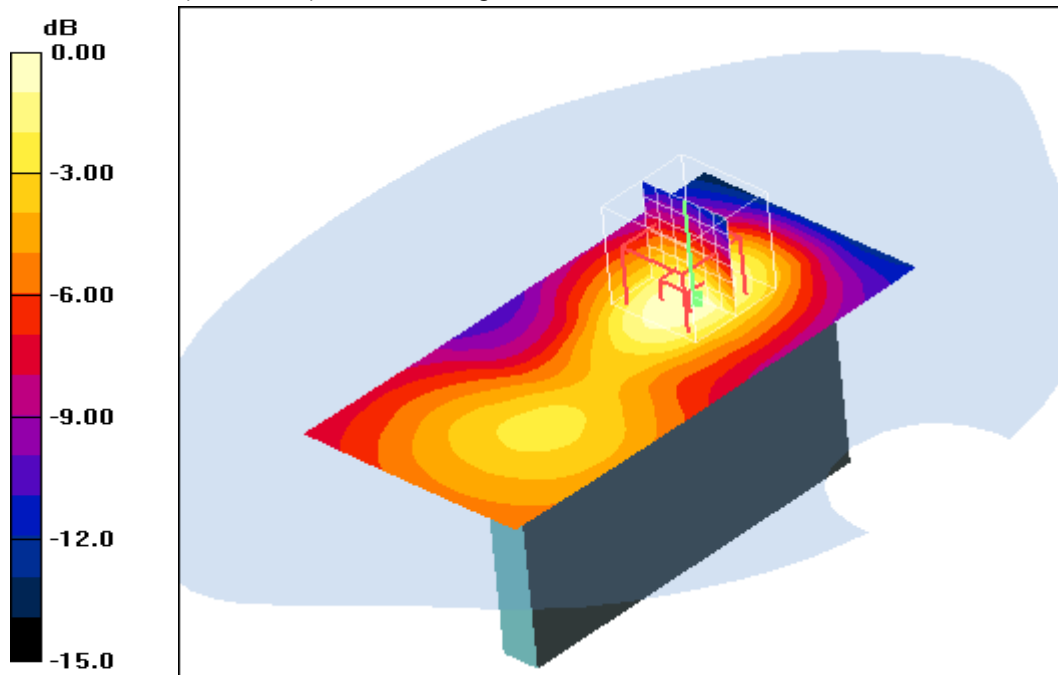
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.48 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.144 W/kg

SAR(1 g) = 0.097 mW/g; SAR(10 g) = 0.060 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: 10 mm

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

Date/Time: 11.02.2011 13:35:21 Date/Time: 11.02.2011 13:40:44

IEEE1528_OET65-Body-GSM1900 1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.35, 4.35, 4.35); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Bottom edge position - Middle/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.273 mW/g

Bottom edge position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

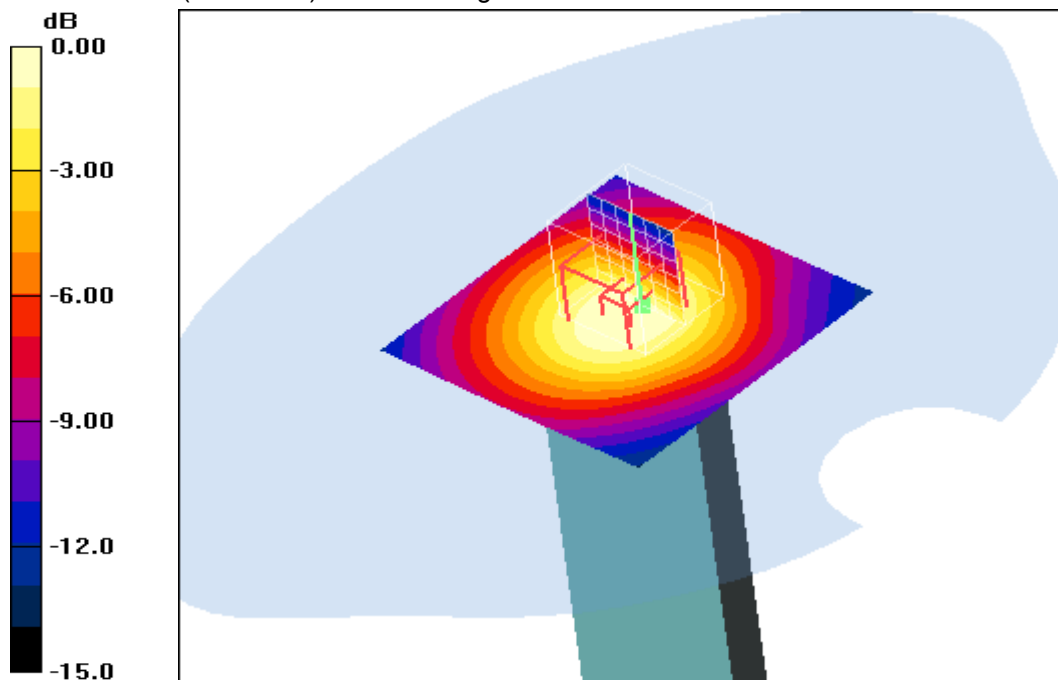
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.1 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 0.378 W/kg

SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.153 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: 10 mm

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

Date/Time: 11.02.2011 12:25:12 Date/Time: 11.02.2011 12:32:14

IEEE1528_OET65-Body-GSM1900 1TS

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN1U

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

Medium: M1900 Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.35, 4.35, 4.35); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - High 15mm/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.386 mW/g

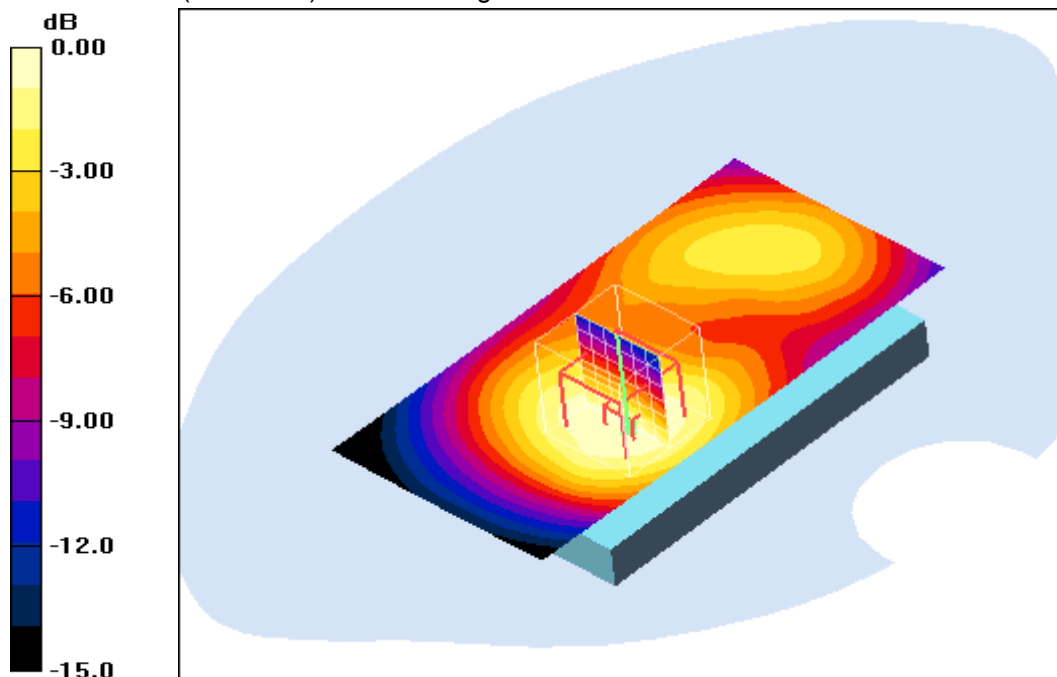
Rear position - High 15mm/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.2 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 0.487 W/kg

SAR(1 g) = 0.338 mW/g; SAR(10 g) = 0.218 mW/g

Maximum value of SAR (measured) = 0.366 mW/g



0 dB = 0.366mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

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

Annex B.5: WLAN 2450 MHz head

Date/Time: 14.02.2011 09:28:39 Date/Time: 14.02.2011 09:35:35

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

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

Medium: HSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.206 mW/g

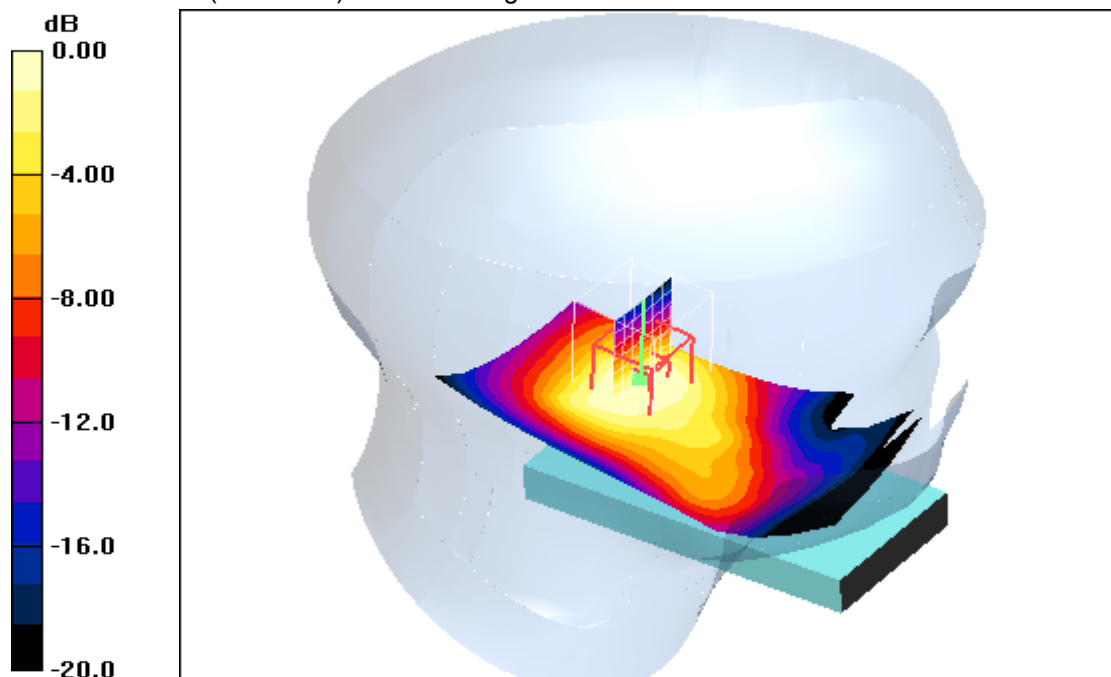
Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.0 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 0.351 W/kg

SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.185 mW/g



0 dB = 0.185mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 12:14:28 Date/Time: 14.02.2011 12:21:00

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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) = 0.169 mW/g

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

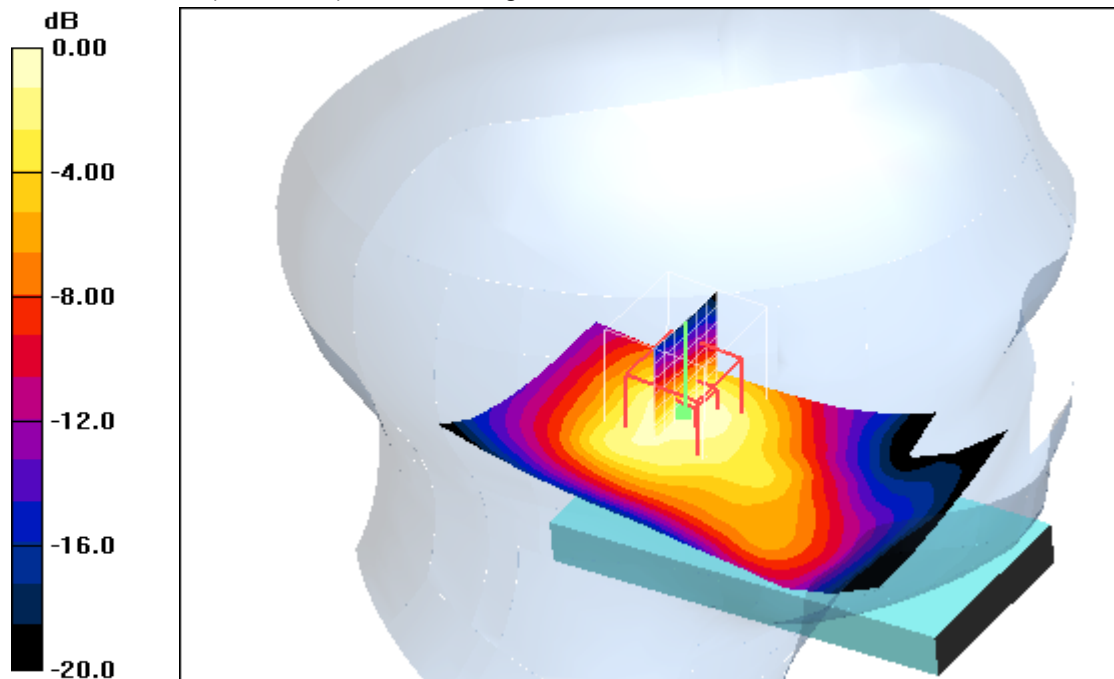
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.31 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.311 W/kg

SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.081 mW/g

Maximum value of SAR (measured) = 0.167 mW/g



0 dB = 0.167mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 12:39:05 Date/Time: 14.02.2011 12:46:06

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.206 mW/g

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

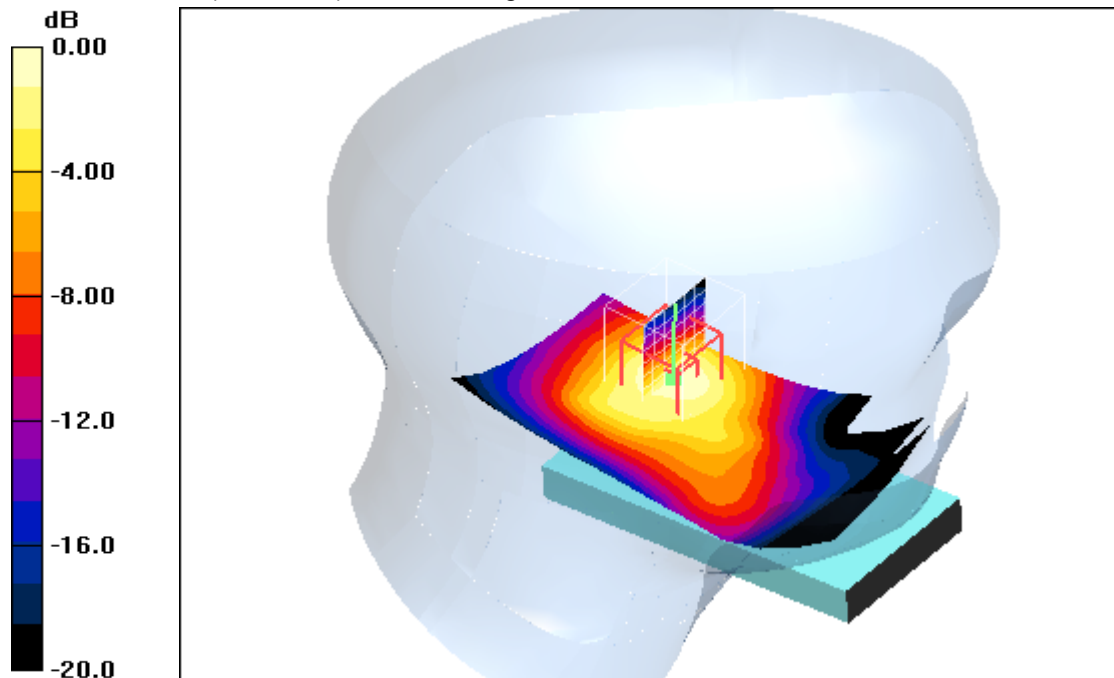
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.5 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 0.369 W/kg

SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.093 mW/g

Maximum value of SAR (measured) = 0.201 mW/g



Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 09:50:58 Date/Time: 14.02.2011 09:57:29

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

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

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 0.172 mW/g

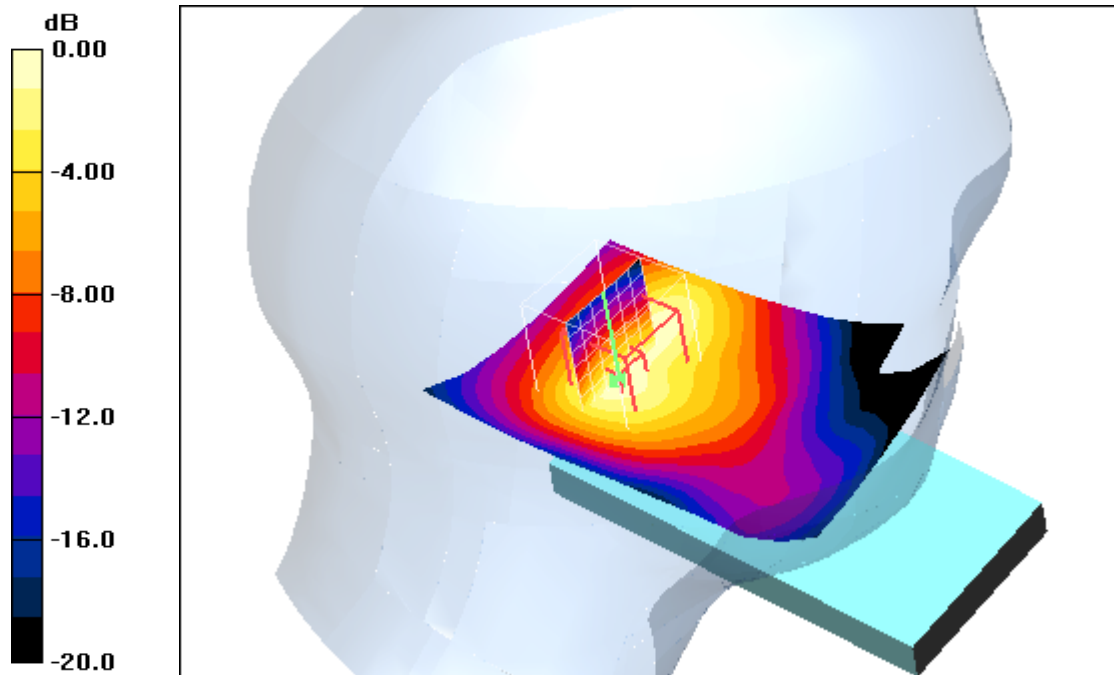
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.23 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.306 W/kg

SAR(1 g) = 0.158 mW/g; SAR(10 g) = 0.081 mW/g

Maximum value of SAR (measured) = 0.179 mW/g



0 dB = 0.179mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 11:41:52 Date/Time: 14.02.2011 11:48:21 Date/Time: 14.02.2011 12:00:16

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

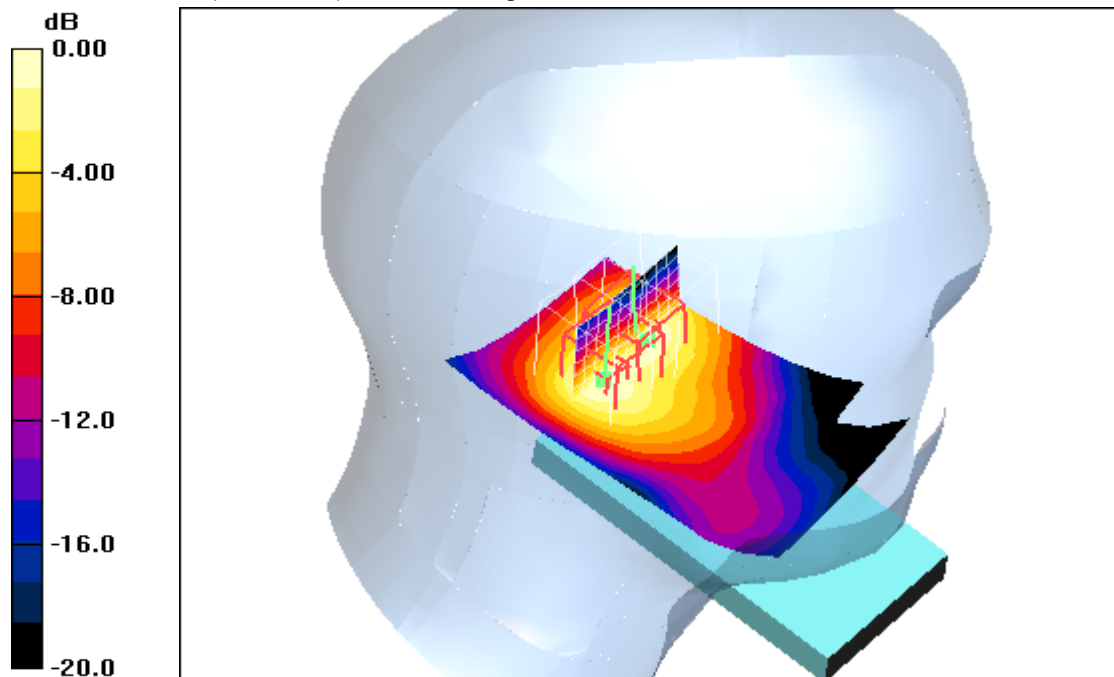
DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.133 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 = 8.28 V/m; Power Drift = 0.041 dB
 Peak SAR (extrapolated) = 0.227 W/kg
SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.061 mW/g
 Maximum value of SAR (measured) = 0.132 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 = 8.28 V/m; Power Drift = 0.041 dB
 Peak SAR (extrapolated) = 0.275 W/kg
SAR(1 g) = 0.113 mW/g; SAR(10 g) = 0.056 mW/g
 Maximum value of SAR (measured) = 0.120 mW/g



0 dB = 0.120mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 13:00:55 Date/Time: 14.02.2011 13:07:30 Date/Time: 14.02.2011 13:19:05

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.157 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 = 9.18 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.348 W/kg

SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.154 mW/g

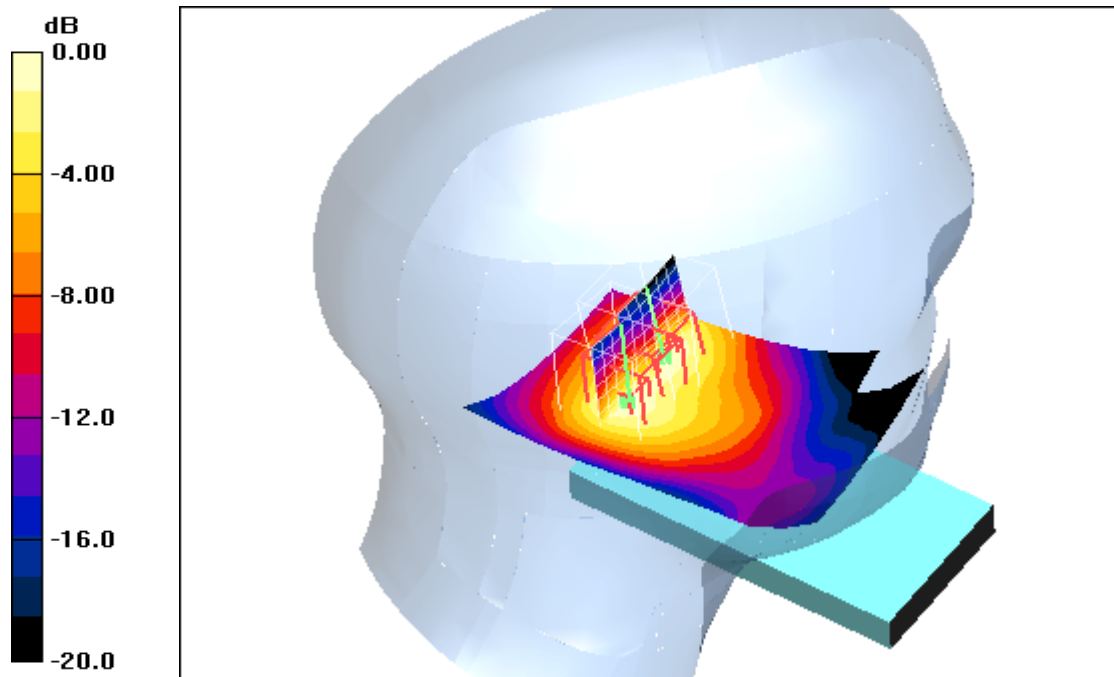
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.18 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.286 W/kg

SAR(1 g) = 0.129 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.145 mW/g



0 dB = 0.145mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 10:34:05 Date/Time: 14.02.2011 10:40:38

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

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

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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) = 0.181 mW/g

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

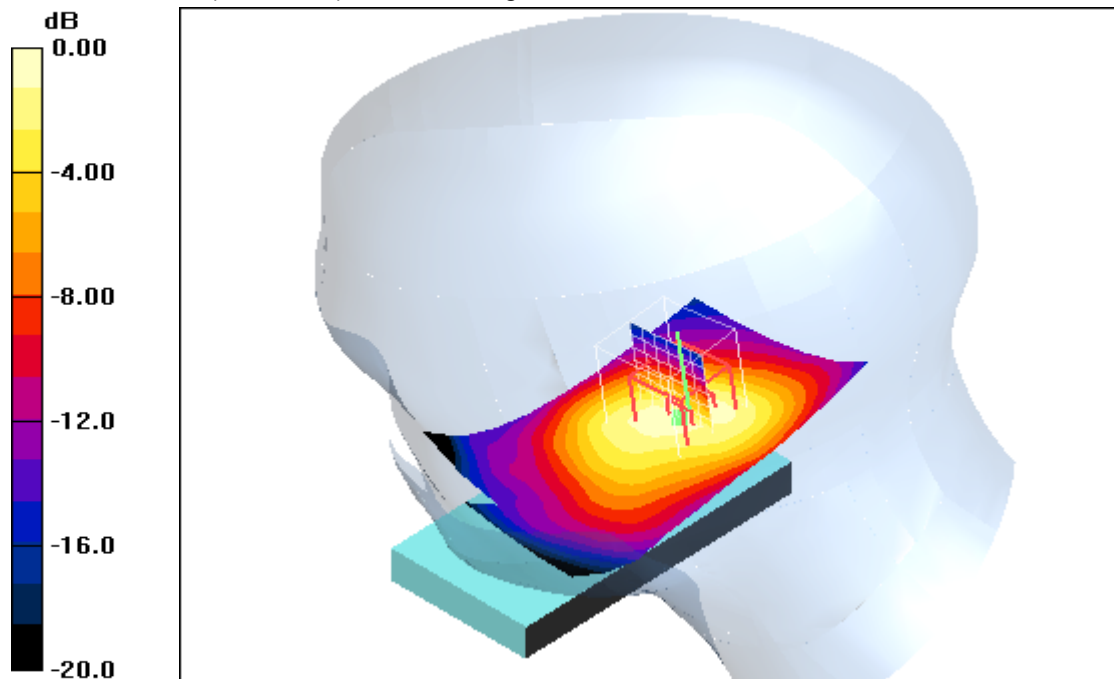
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.1 V/m; Power Drift = 0.093 dB

Peak SAR (extrapolated) = 0.318 W/kg

SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.189 mW/g



0 dB = 0.189mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 10:57:11 Date/Time: 14.02.2011 11:03:45

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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) = 0.164 mW/g

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

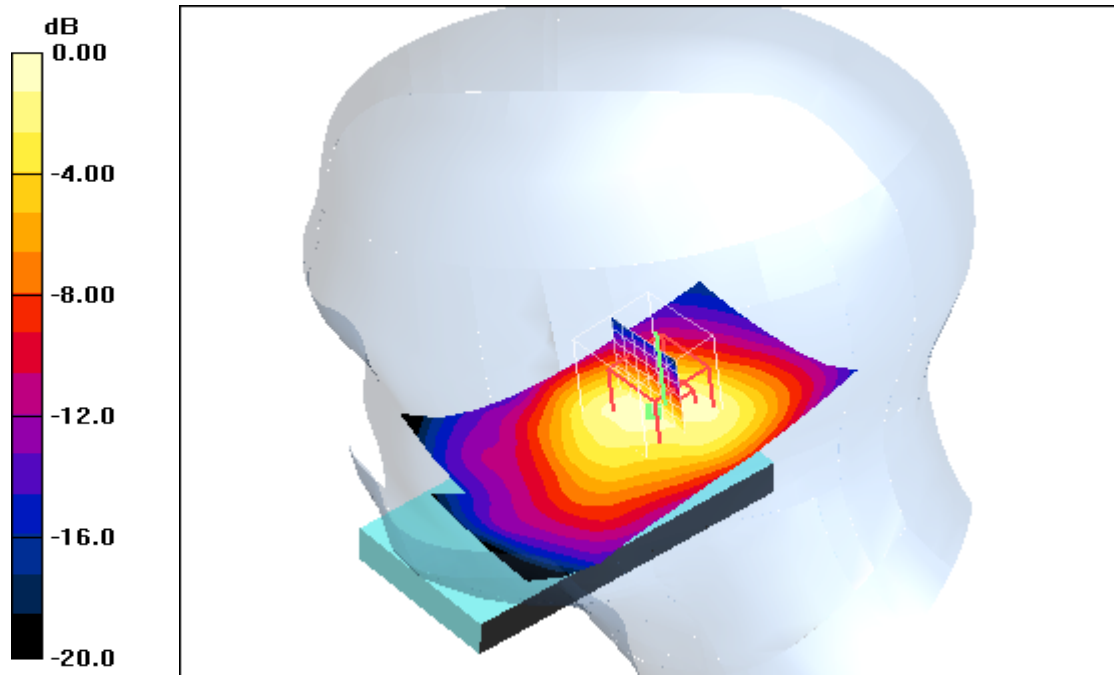
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.48 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.274 W/kg

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.080 mW/g

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



0 dB = 0.163mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 13:53:46 Date/Time: 14.02.2011 14:15:28

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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) = 0.159 mW/g

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

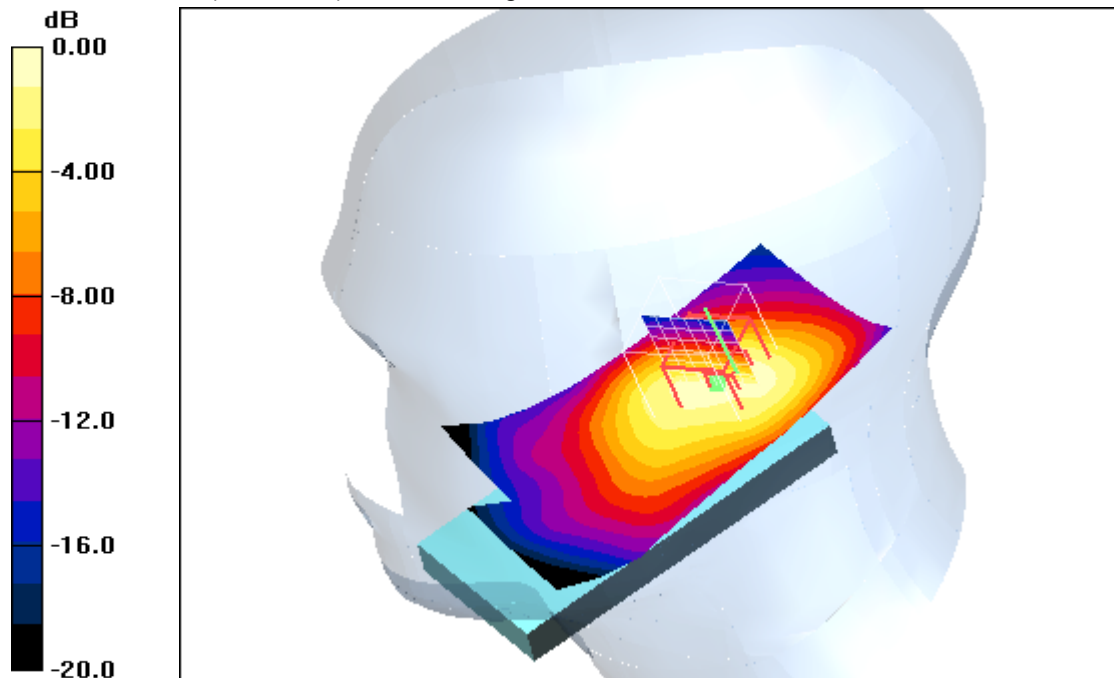
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.49 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.289 W/kg

SAR(1 g) = 0.154 mW/g; SAR(10 g) = 0.084 mW/g

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



0 dB = 0.168mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 10:14:06 Date/Time: 14.02.2011 10:20:38

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

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

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 0.208 mW/g

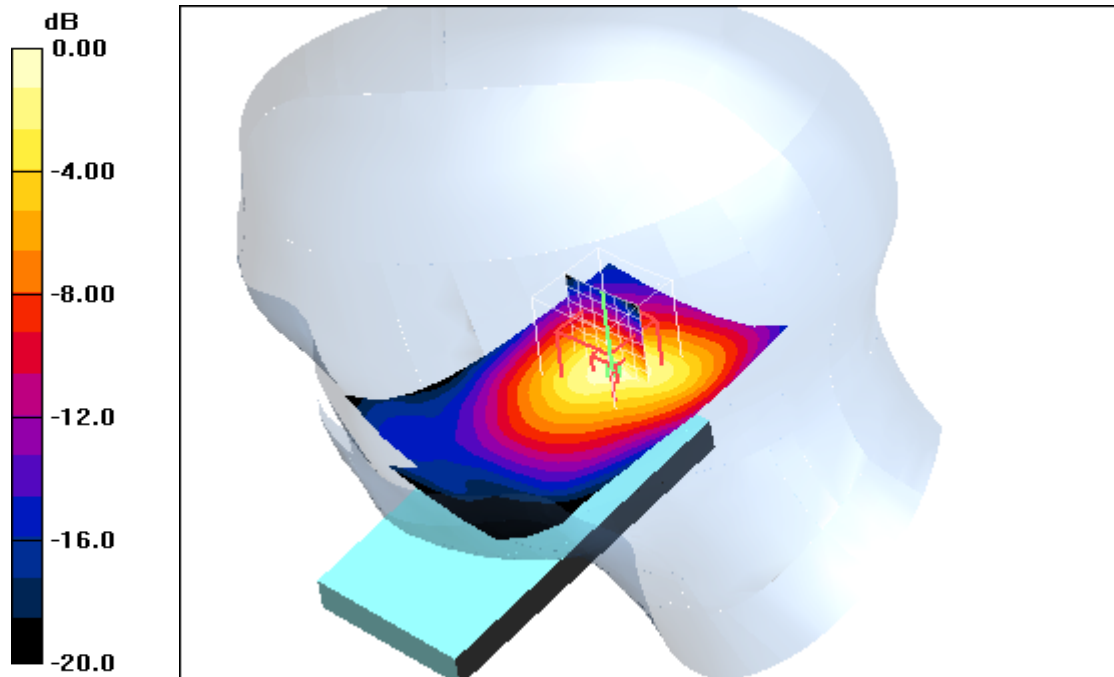
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.60 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.097 mW/g

Maximum value of SAR (measured) = 0.215 mW/g



0 dB = 0.215mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 11:17:46 Date/Time: 14.02.2011 11:24:20

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

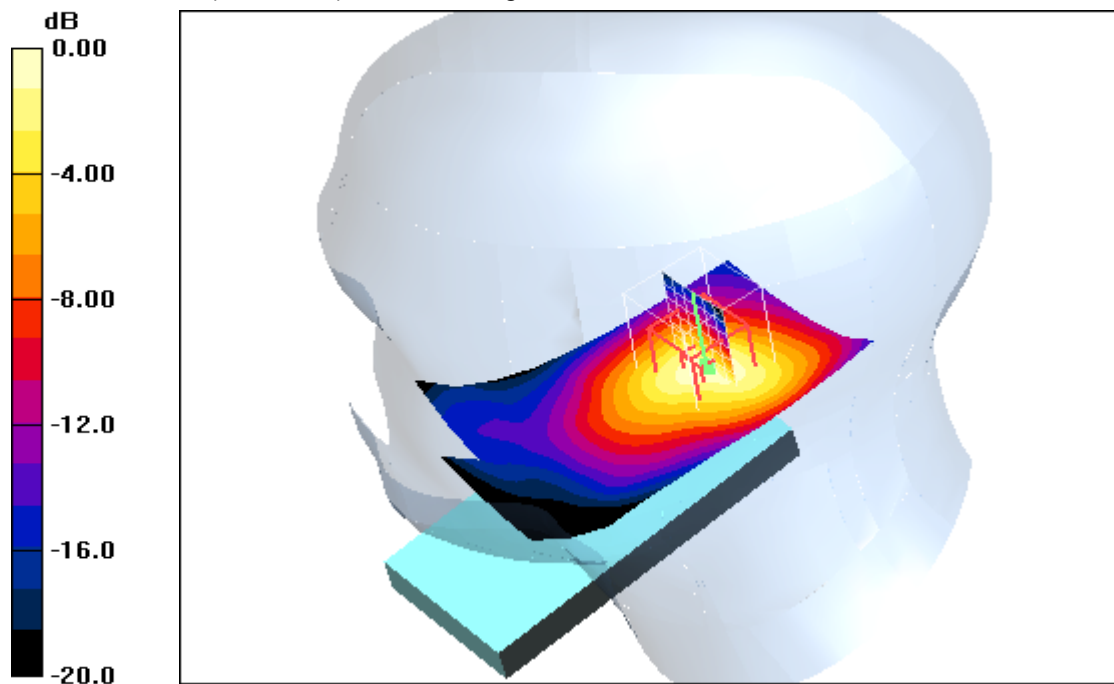
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.171 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 = 9.00 V/m; Power Drift = -0.080 dB
 Peak SAR (extrapolated) = 0.298 W/kg
SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.077 mW/g
 Maximum value of SAR (measured) = 0.170 mW/g



0 dB = 0.170mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 13:33:31 Date/Time: 14.02.2011 13:40:06

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 0.188 mW/g

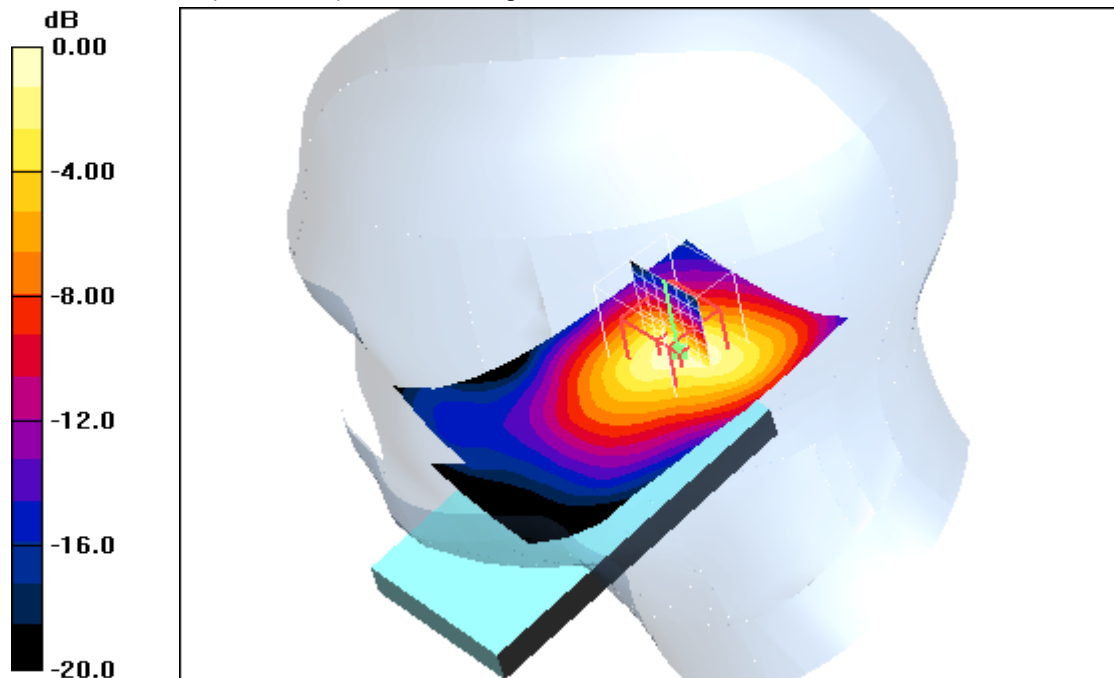
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.48 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.338 W/kg

SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.084 mW/g

Maximum value of SAR (measured) = 0.188 mW/g



0 dB = 0.188mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 15:05:32 Date/Time: 14.02.2011 15:12:10

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

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

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low 6Mbps/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.130 mW/g

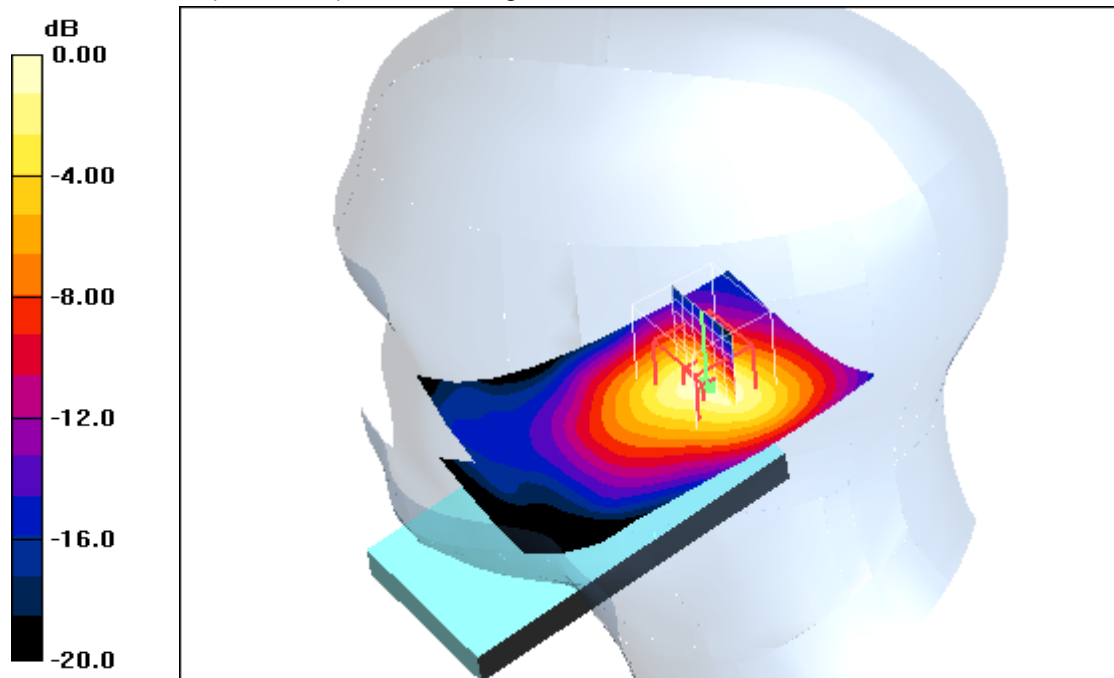
Tilt position - Low 6Mbps/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.78 V/m; Power Drift = -0.055 dB

Peak SAR (extrapolated) = 0.230 W/kg

SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.058 mW/g

Maximum value of SAR (measured) = 0.131 mW/g



0 dB = 0.131mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 15:32:53 Date/Time: 14.02.2011 15:39:31

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

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

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low 65Mbps MixedMode preamble/Area Scan (51x91x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Tilt position - Low 65Mbps MixedMode preamble/Zoom Scan (7x7x7)

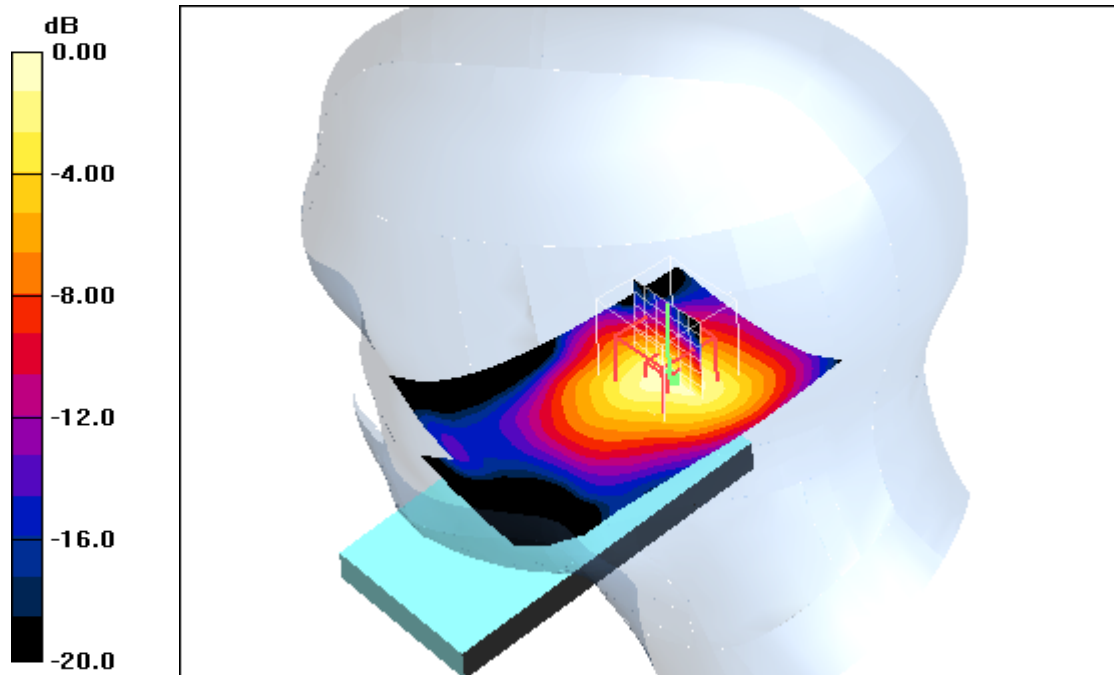
(7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.93 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.093 W/kg

SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.023 mW/g

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



0 dB = 0.053mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Date/Time: 14.02.2011 15:59:29 Date/Time: 14.02.2011 16:06:08

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

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

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.14, 4.14, 4.14); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low 65Mbps Greenfield preamble/Area Scan (51x91x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Tilt position - Low 65Mbps Greenfield preamble/Zoom Scan (7x7x7)

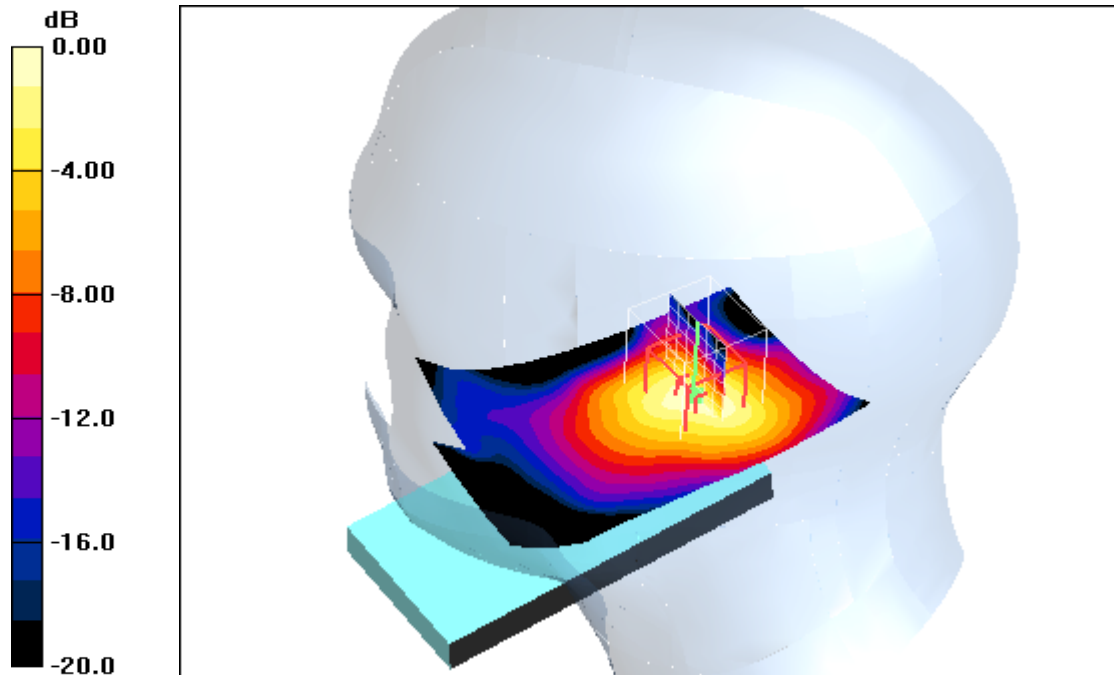
(7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.84 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 0.090 W/kg

SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.023 mW/g

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



0 dB = 0.051mW/g

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.5°C

Annex B.6: WLAN 2450 MHz body

Date/Time: 15.02.2011 09:06:54 Date/Time: 15.02.2011 09:13:19

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

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

Medium: M2450 Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010

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

- Electronics: DAE3 Sn477; Calibrated: 07.05.2010

- 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 (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.082 mW/g

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

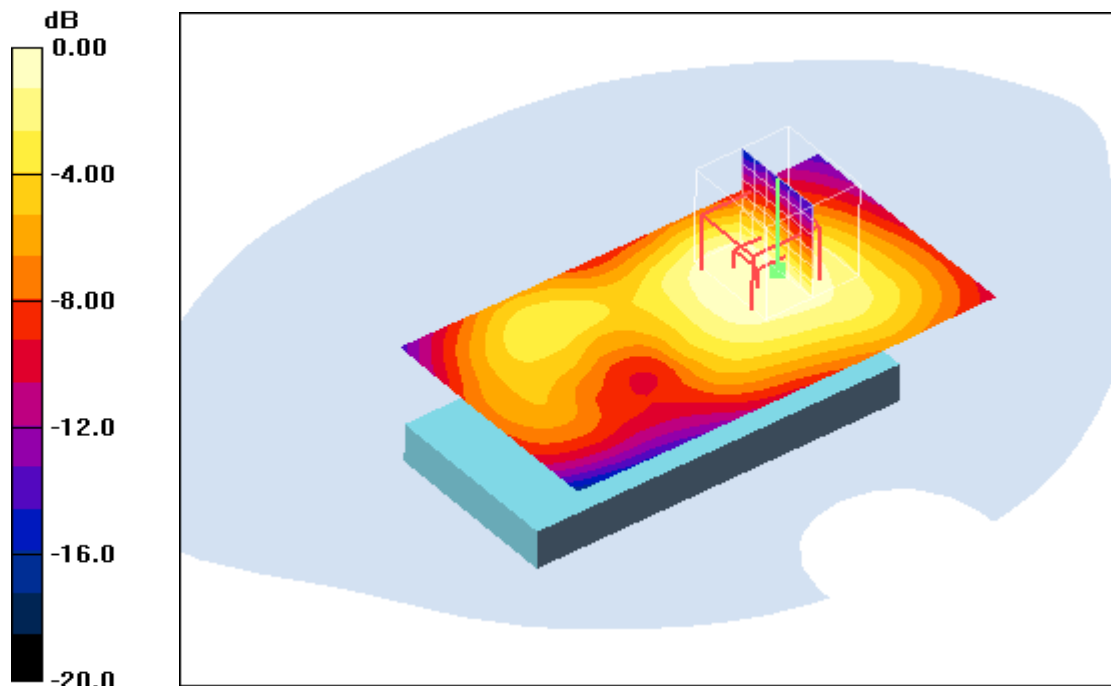
dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.51 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.071 mW/g; SAR(10 g) = 0.042 mW/g

Maximum value of SAR (measured) = 0.075 mW/g



0 dB = 0.075mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.2°C; liquid temperature: 22.1°C

Date/Time: 15.02.2011 10:18:16 Date/Time: 15.02.2011 10:24:09

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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) = 0.061 mW/g

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

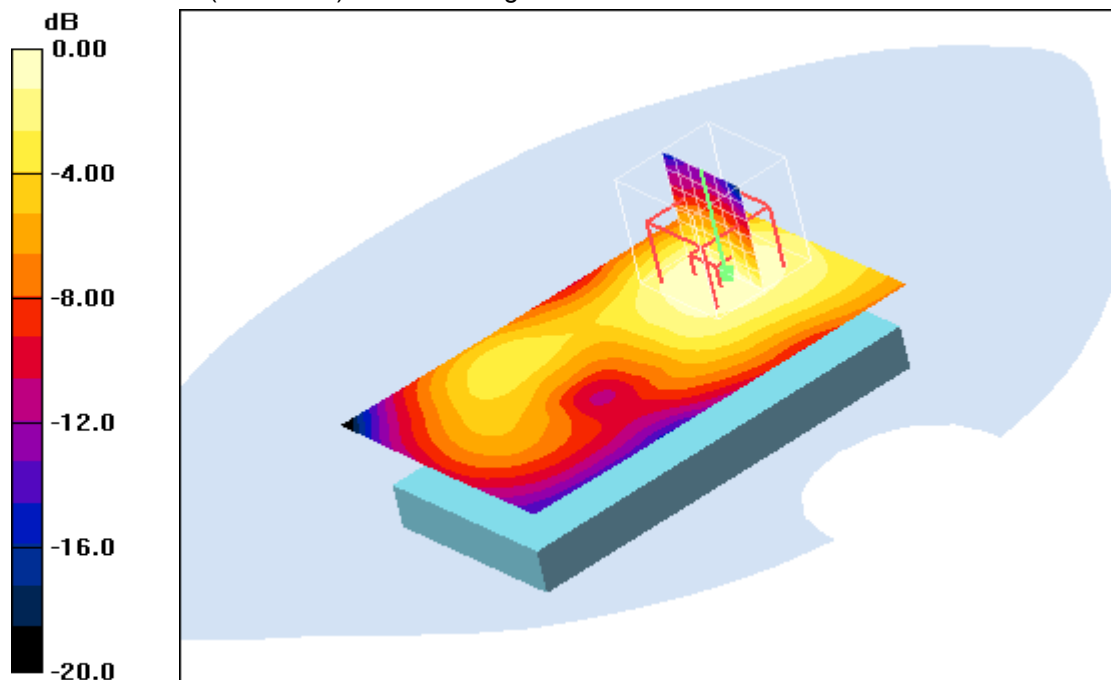
dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.61 V/m; Power Drift = 0.133 dB

Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.033 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: 10 mm

ambient temperature: 22.2°C; liquid temperature: 22.1°C

Date/Time: 15.02.2011 12:01:47 Date/Time: 15.02.2011 12:08:19

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 52$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

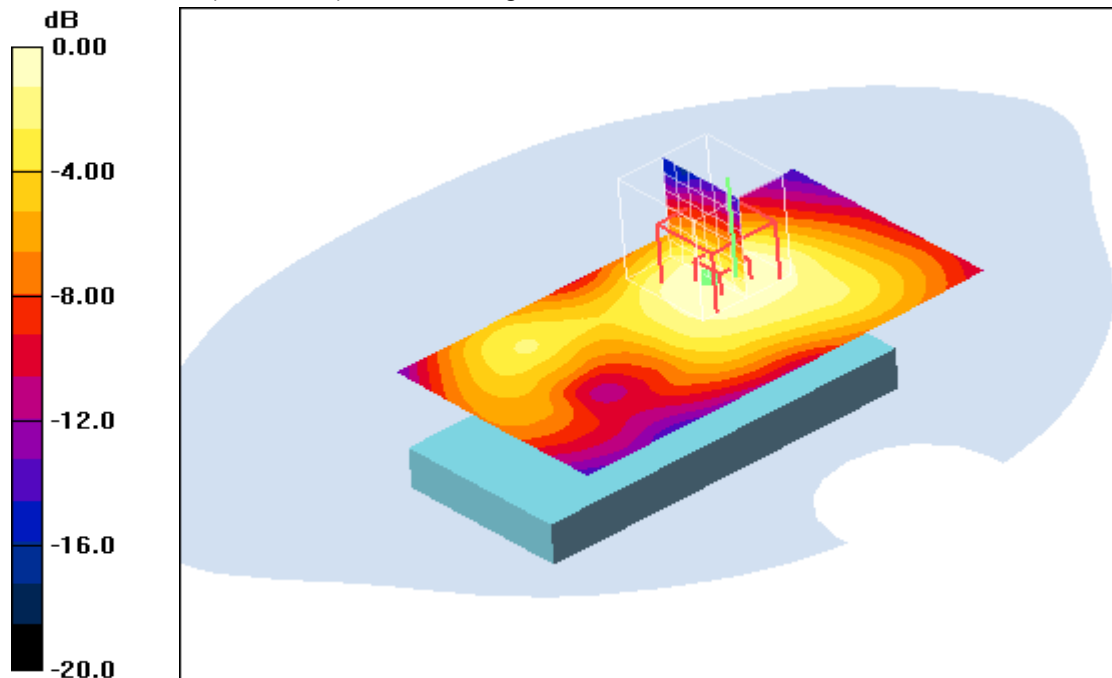
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.91 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 0.110 W/kg

SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.035 mW/g

Maximum value of SAR (measured) = 0.064 mW/g



0 dB = 0.064mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.2°C; liquid temperature: 22.1°C

Date/Time: 15.02.2011 09:33:26 Date/Time: 15.02.2011 09:39:53

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

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

Medium: M2450 Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 52$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.106 mW/g

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

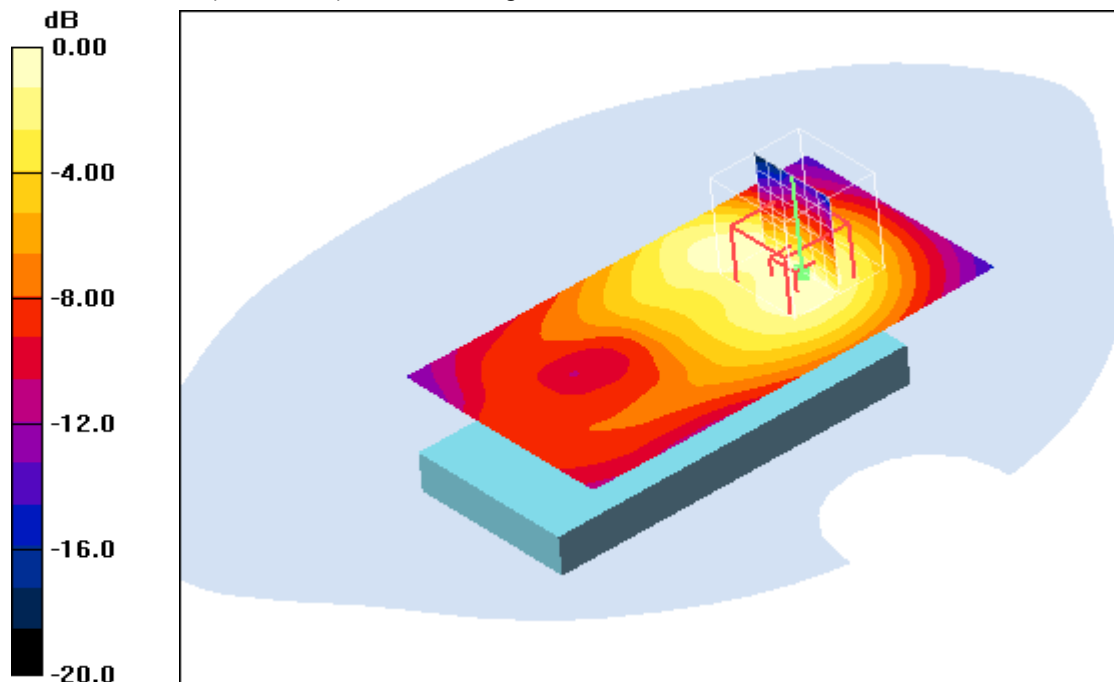
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.14 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 0.192 W/kg

SAR(1 g) = 0.096 mW/g; SAR(10 g) = 0.053 mW/g

Maximum value of SAR (measured) = 0.102 mW/g



0 dB = 0.102mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.2°C; liquid temperature: 22.1°C

Date/Time: 15.02.2011 09:57:49 Date/Time: 15.02.2011 10:04:16

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 52$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.094 mW/g

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

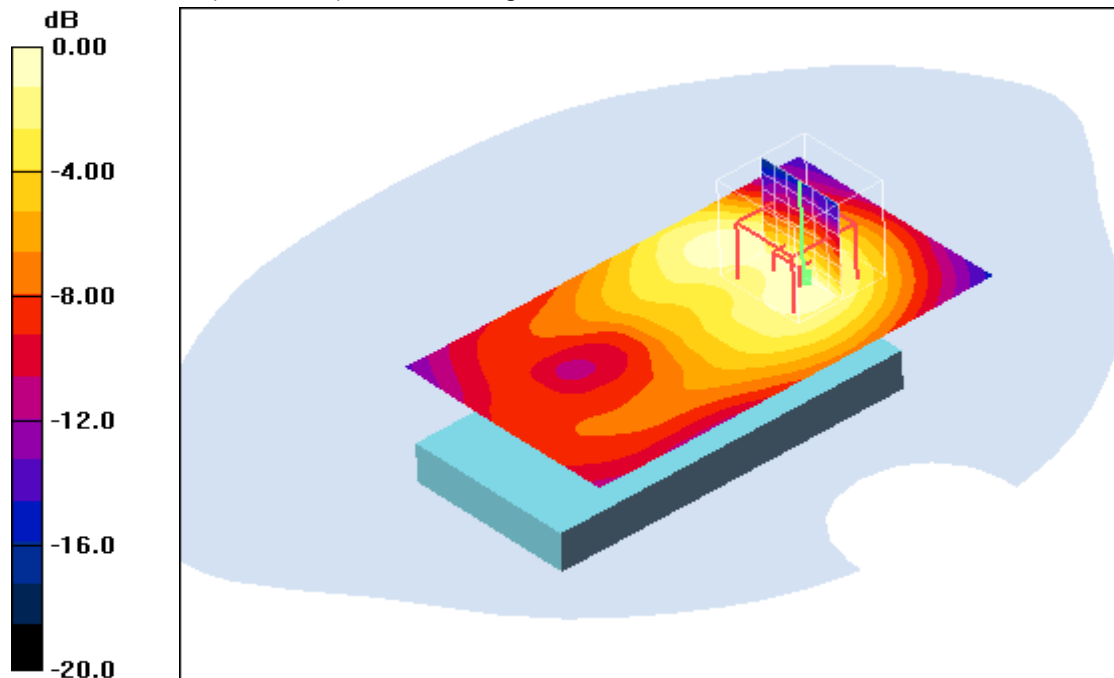
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.85 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.181 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.049 mW/g

Maximum value of SAR (measured) = 0.094 mW/g



0 dB = 0.094mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.2°C; liquid temperature: 22.1°C

Date/Time: 15.02.2011 12:22:33 Date/Time: 15.02.2011 12:29:10 Date/Time: 15.02.2011 12:40:31

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- 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 (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.100 mW/g

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

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

Reference Value = 7.03 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 0.193 W/kg

SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.044 mW/g

Maximum value of SAR (measured) = 0.095 mW/g

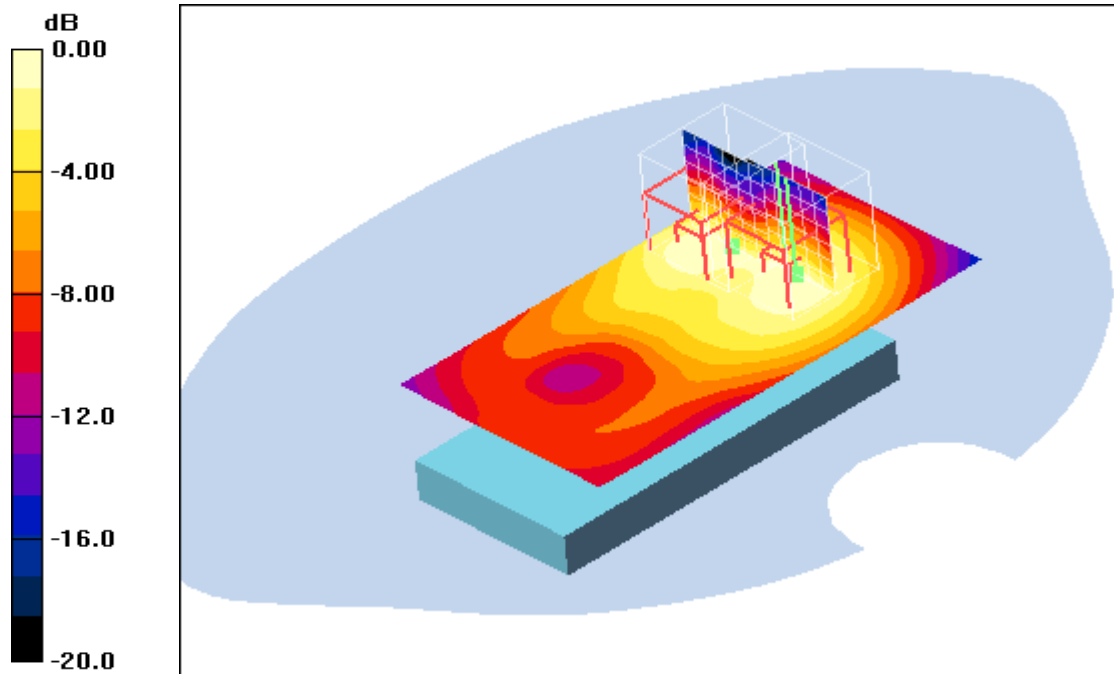
Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

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

Reference Value = 7.03 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 0.185 W/kg

SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.050 mW/g



0 dB = 0.095mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.2°C; liquid temperature: 22.1°C

Date/Time: 15.02.2011 10:38:11 Date/Time: 15.02.2011 10:45:14 Date/Time: 15.02.2011 10:56:41

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Left side edge - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.025 mW/g

Left side edge - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.72 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.053 W/kg

SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.014 mW/g

Maximum value of SAR (measured) = 0.025 mW/g

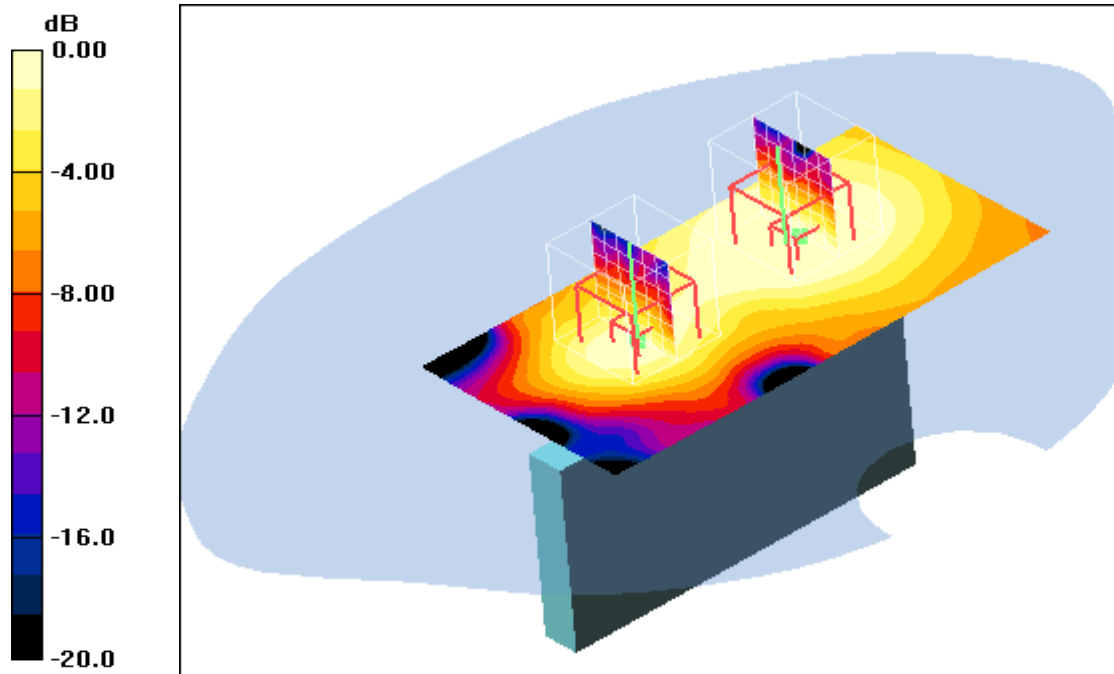
Left side edge - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.72 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.038 W/kg

SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00925 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: 10 mm

ambient temperature: 22.2°C; liquid temperature: 22.1°C

Date/Time: 15.02.2011 11:14:01 Date/Time: 15.02.2011 11:21:06

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Right side edge - Middle/Area Scan (51x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.064 mW/g

Right side edge - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

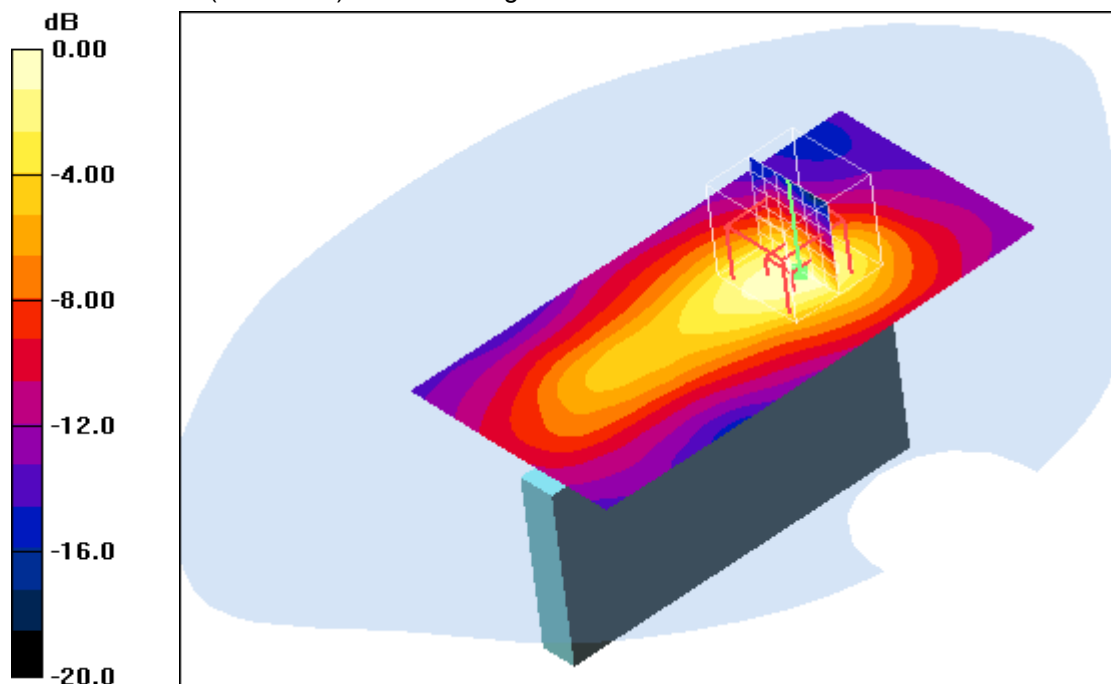
$dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.32 V/m; Power Drift = -0.080 dB

Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.028 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: 10 mm

ambient temperature: 22.2°C; liquid temperature: 22.1°C

Date/Time: 15.02.2011 11:36:20 Date/Time: 15.02.2011 11:42:48

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010

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

- Electronics: DAE3 Sn477; Calibrated: 07.05.2010

- Phantom: SAM 12; Type: SAM; Serial: 1043

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Top edge - Middle/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.086 mW/g

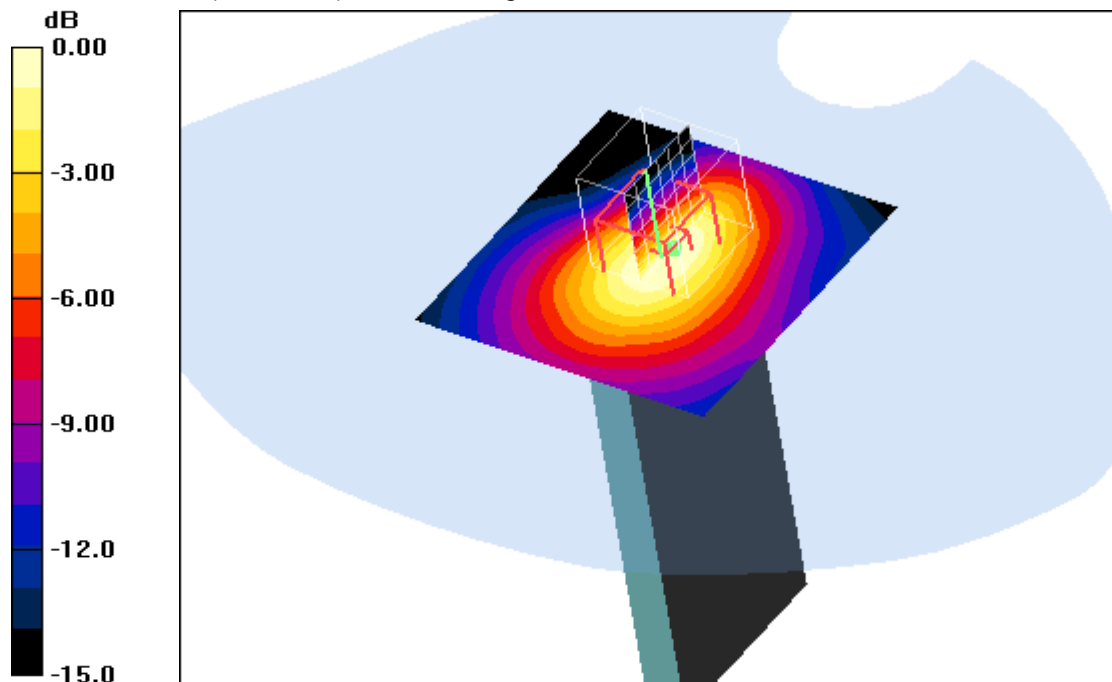
Top edge - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.68 V/m; Power Drift = -0.128 dB

Peak SAR (extrapolated) = 0.170 W/kg

SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.039 mW/g

Maximum value of SAR (measured) = 0.080 mW/g



0 dB = 0.080mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.2°C; liquid temperature: 22.1°C

Date/Time: 15.02.2011 13:35:34 Date/Time: 15.02.2011 13:42:11

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

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

Medium: M2450 Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low 6Mbps/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

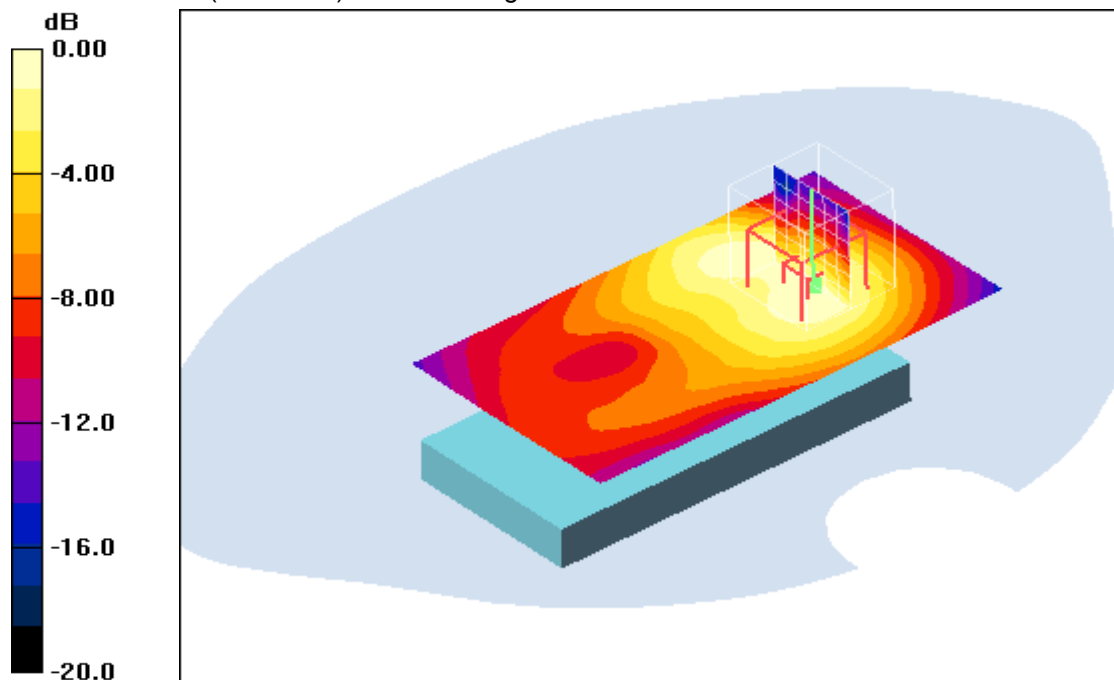
Rear position - Low 6Mbps/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.32 V/m; Power Drift = 0.082 dB

Peak SAR (extrapolated) = 0.114 W/kg

SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.031 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: 10 mm

ambient temperature: 22.2°C; liquid temperature: 22.1°C

Date/Time: 15.02.2011 13:59:43 Date/Time: 15.02.2011 14:06:20

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

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

Medium: M2450 Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low 65Mbps MixedMode preamble/Area Scan (51x91x1):

Measurement grid: dx=15mm, dy=15mm

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

Rear position - Low 65Mbps MixedMode preamble/Zoom Scan (7x7x7)

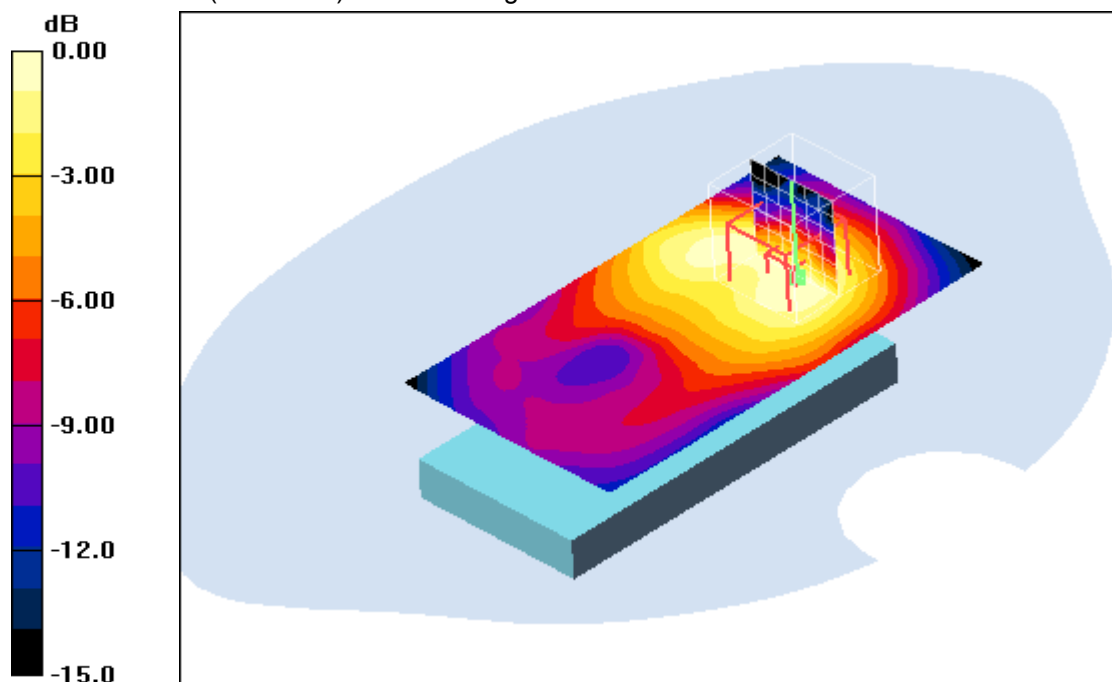
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.48 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.046 W/kg

SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.024 mW/g



0 dB = 0.024mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 22.2°C; liquid temperature: 22.1°C

Date/Time: 15.02.2011 14:24:47 Date/Time: 15.02.2011 14:31:26 Date/Time: 15.02.2011 14:42:52

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880100-BV; Serial: CB5A1CGN6W

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

Medium: M2450 Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.03, 4.03, 4.03); Calibrated: 11.08.2010
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn477; Calibrated: 07.05.2010
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low 65Mbps Greenfield preamble/Area Scan (51x91x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.025 mW/g

Rear position - Low 65Mbps Greenfield preamble/Zoom Scan (7x7x7)

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.44 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.047 W/kg

SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.024 mW/g

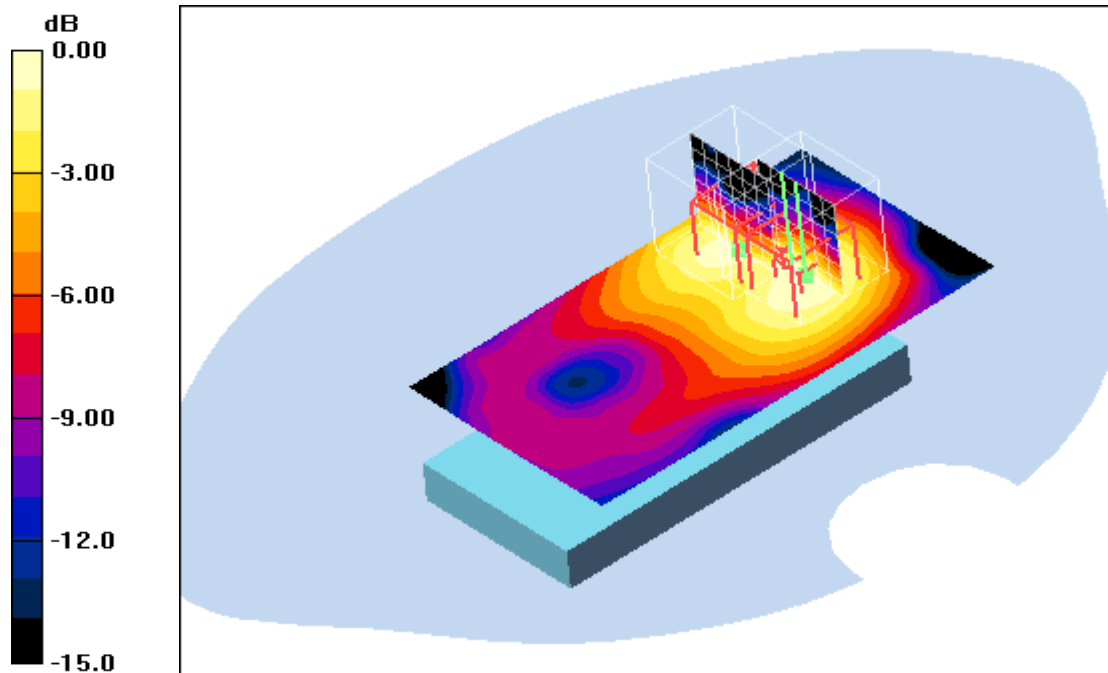
Rear position - Low 65Mbps Greenfield preamble/Zoom Scan (7x7x7)

(7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.44 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.041 W/kg

SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.010 mW/g



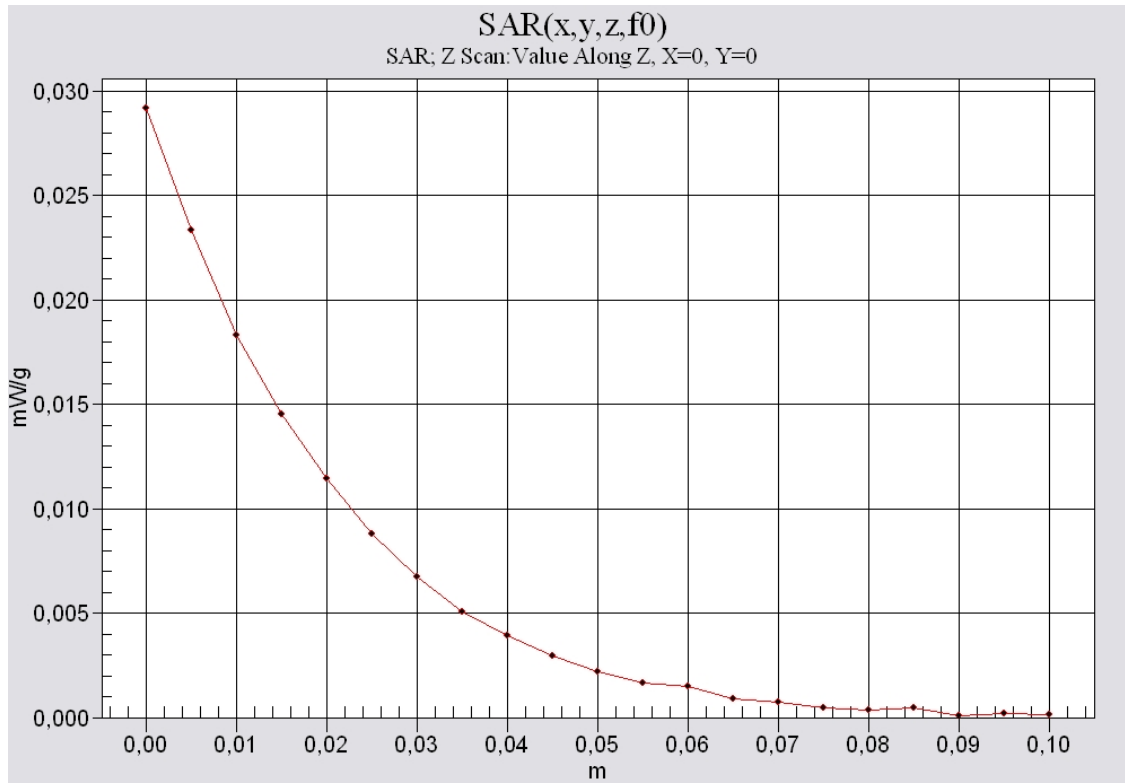
0 dB = 0.024mW/g

Additional information:

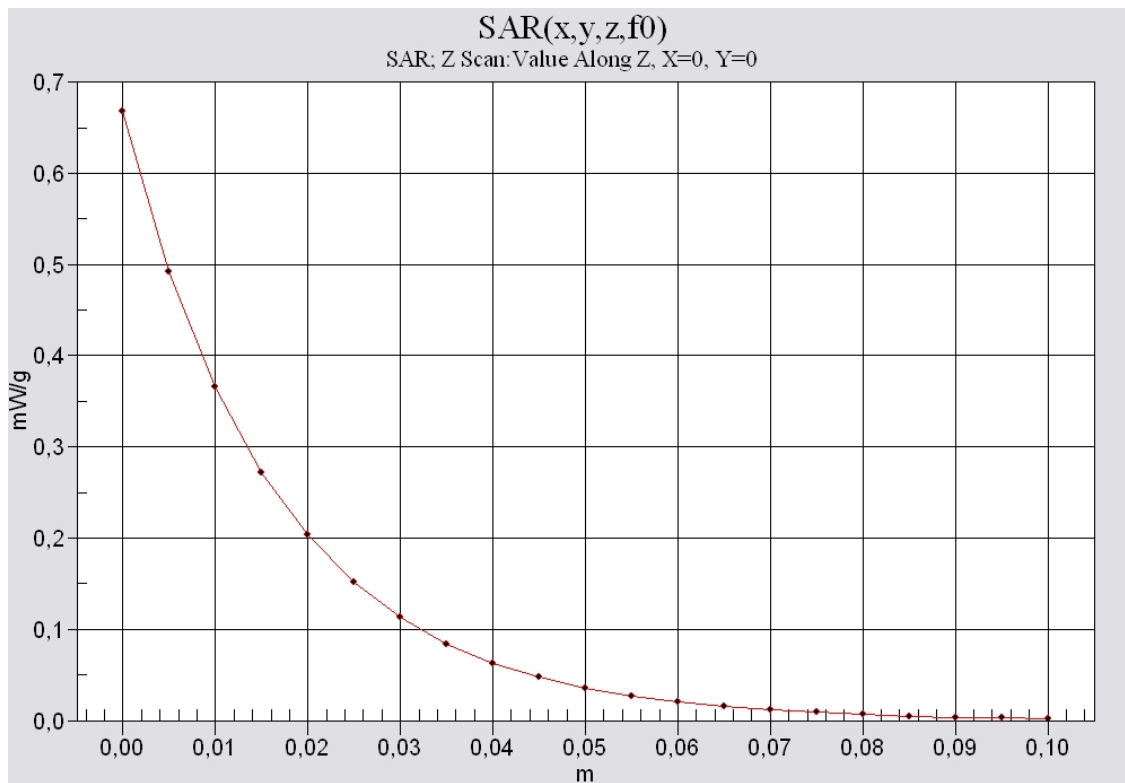
position or distance of DUT to SAM: 10 mm

ambient temperature: 22.2°C; liquid temperature: 22.1°C

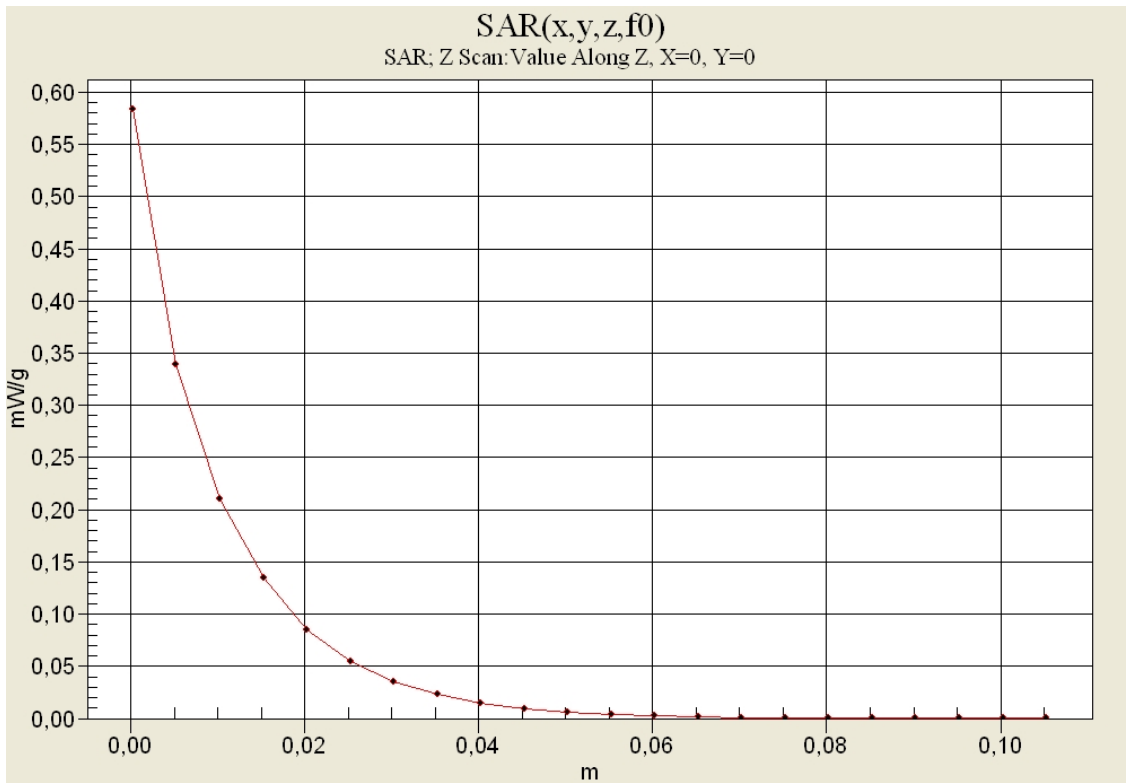
Annex B.7: Z-axis scan



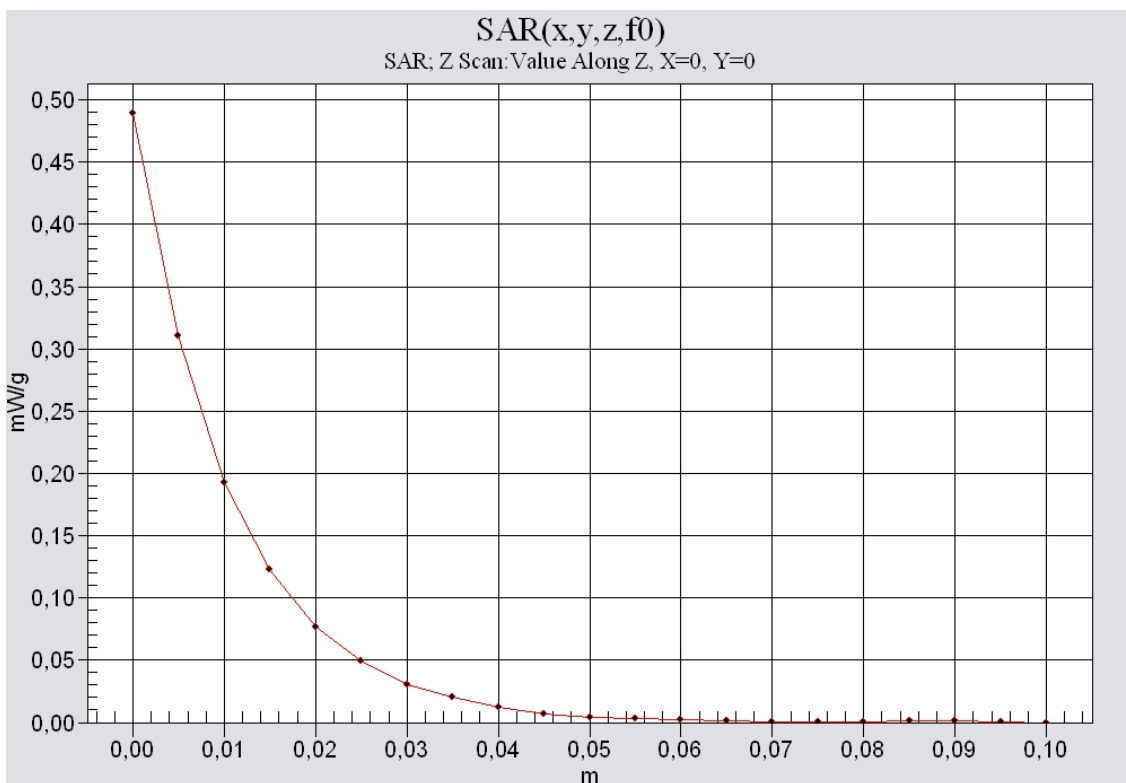
850 head



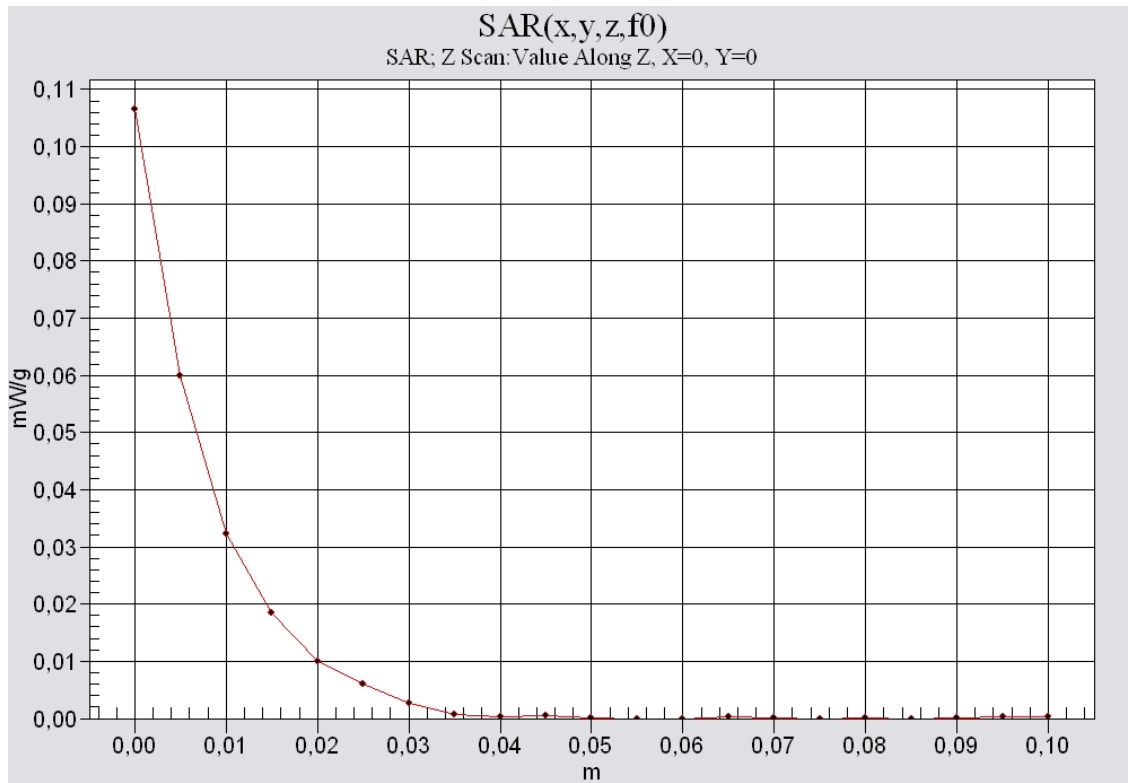
850 body



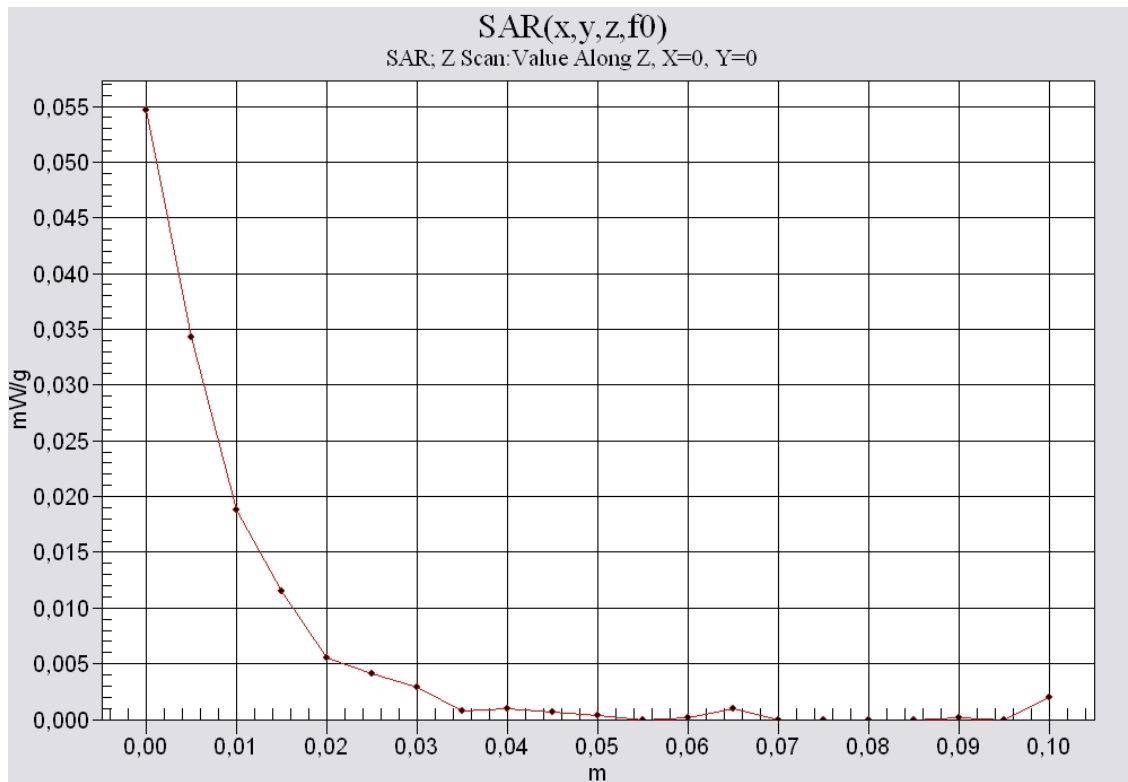
1900 head



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 2450 MHz body simulating liquid



Annex C: Photo documentation

Photo 1: Measurement System DASY 4



Photo 2: DUT - front view

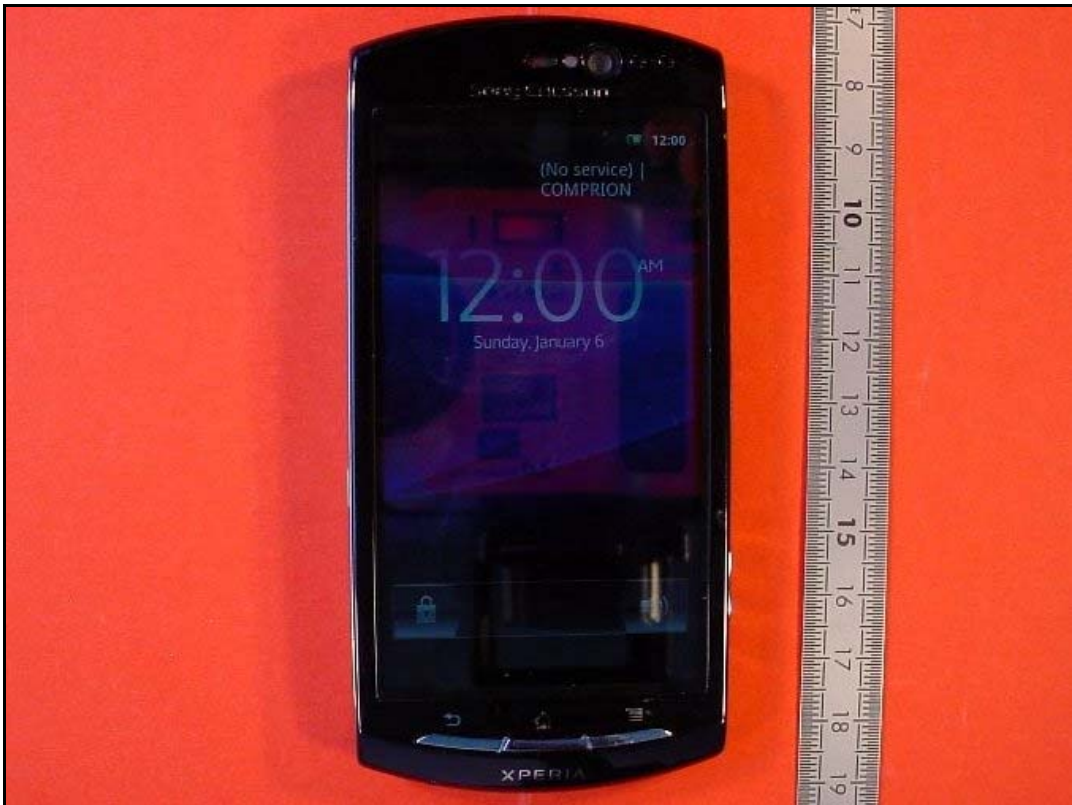


Photo 3: DUT - side view



Photo 4: DUT - rear view



Photo 5: DUT - rear view (open)



Photo 6: DUT - rear view (open) without battery



Photo 7: DUT - rear view (label)



Photo 8: Battery



Photo 9: Test position left hand touched

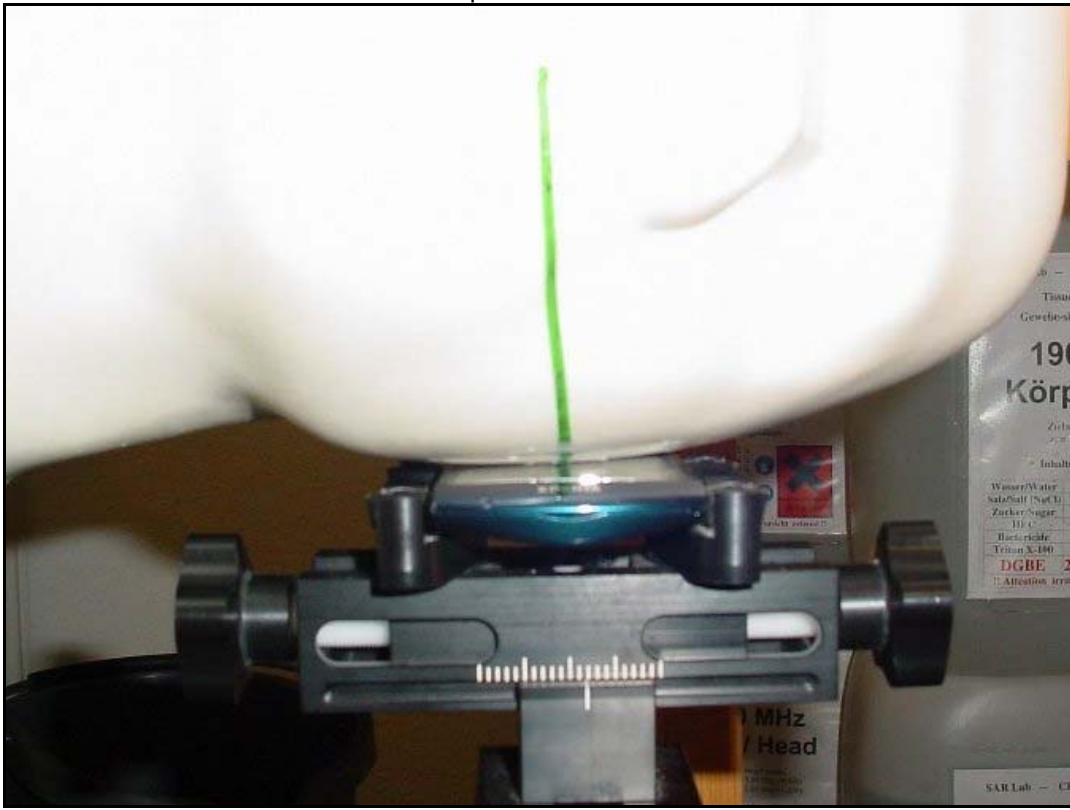


Photo 10: Test position left hand touched



Photo 11: Test position left hand touched

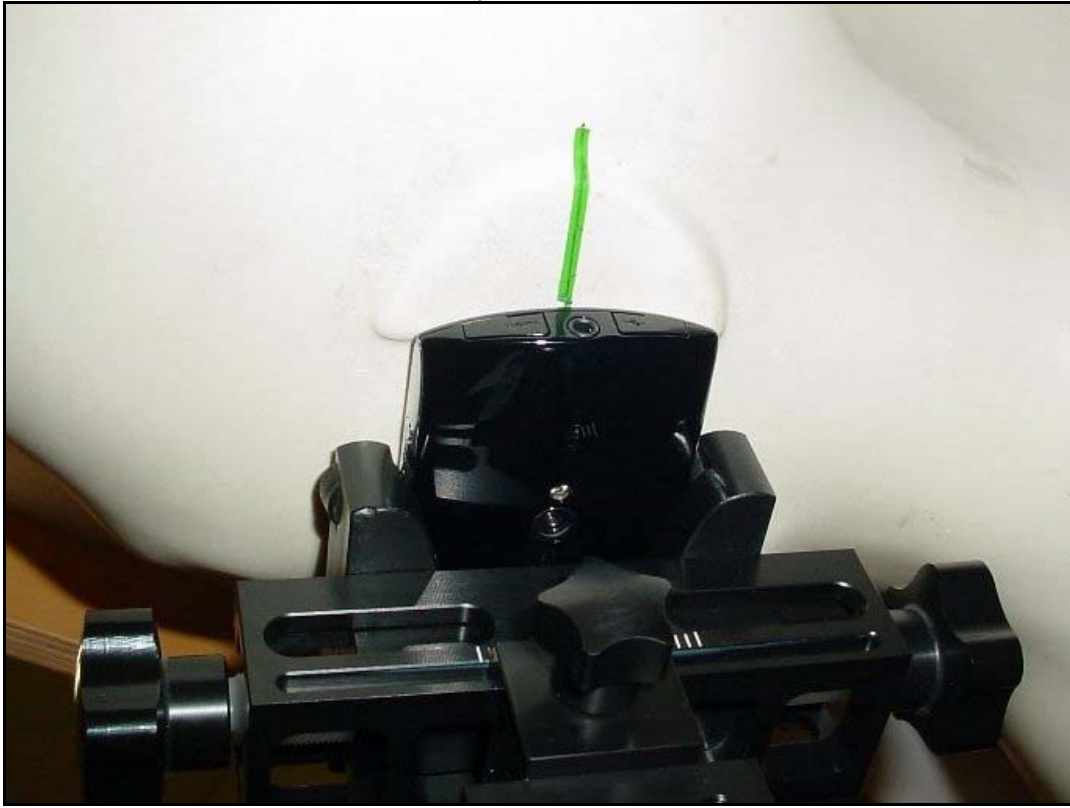


Photo 12: Test position left hand tilted 15°



Photo 13: Test position left hand tilted 15°



Photo 14: Test position right hand touched

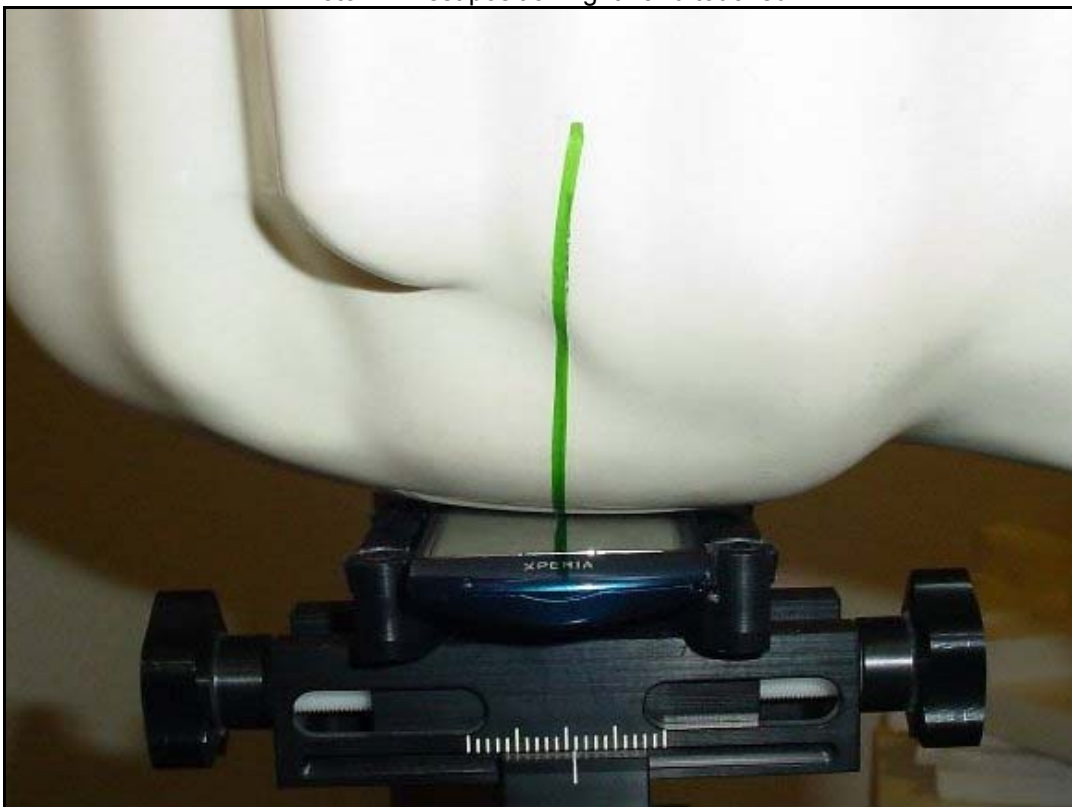


Photo 15: Test position right hand touched



Photo 16: Test position right hand touched

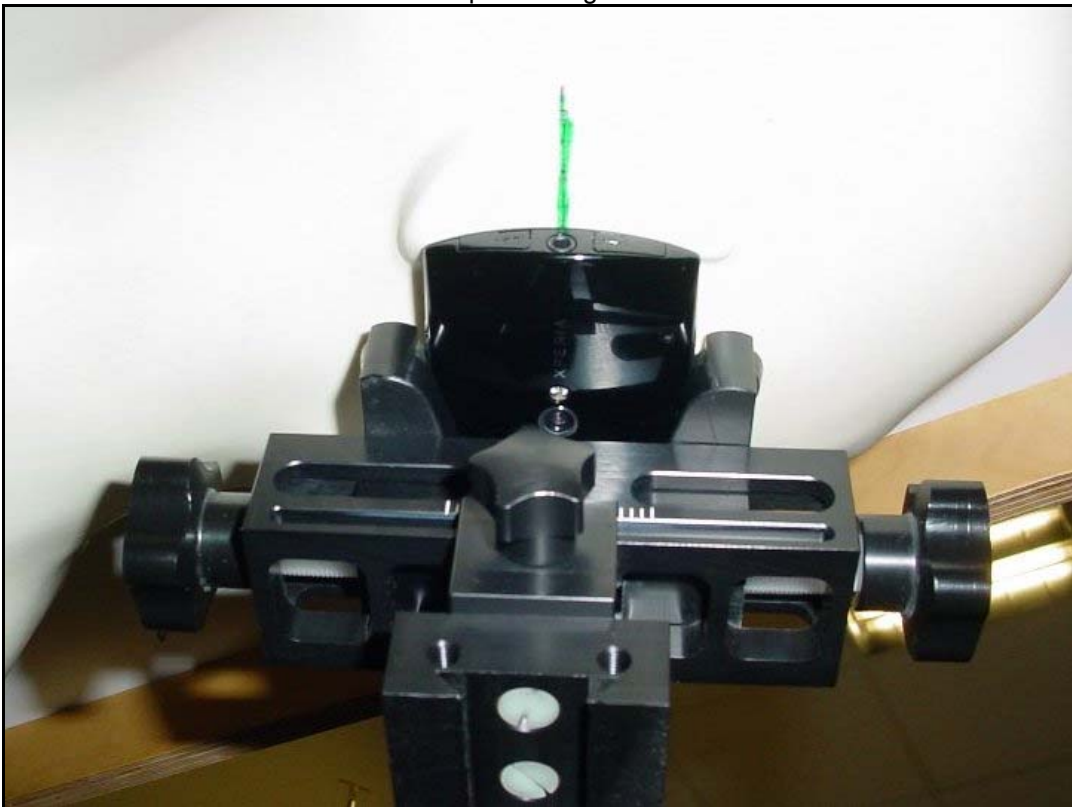


Photo 17: Test position right hand tilted 15°

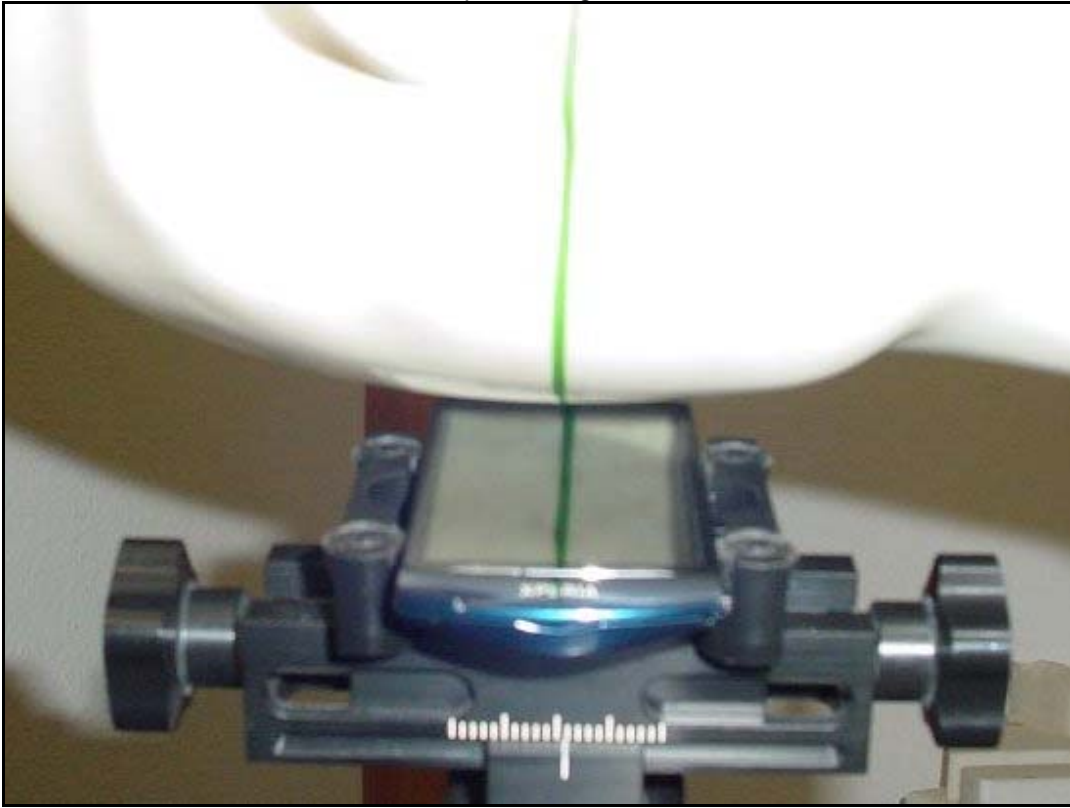


Photo 18: Test position right hand tilted 15°



Photo 19: Test position body worn front side (10 mm distance)



Photo 20: Test position body worn rear side (10 mm distance)

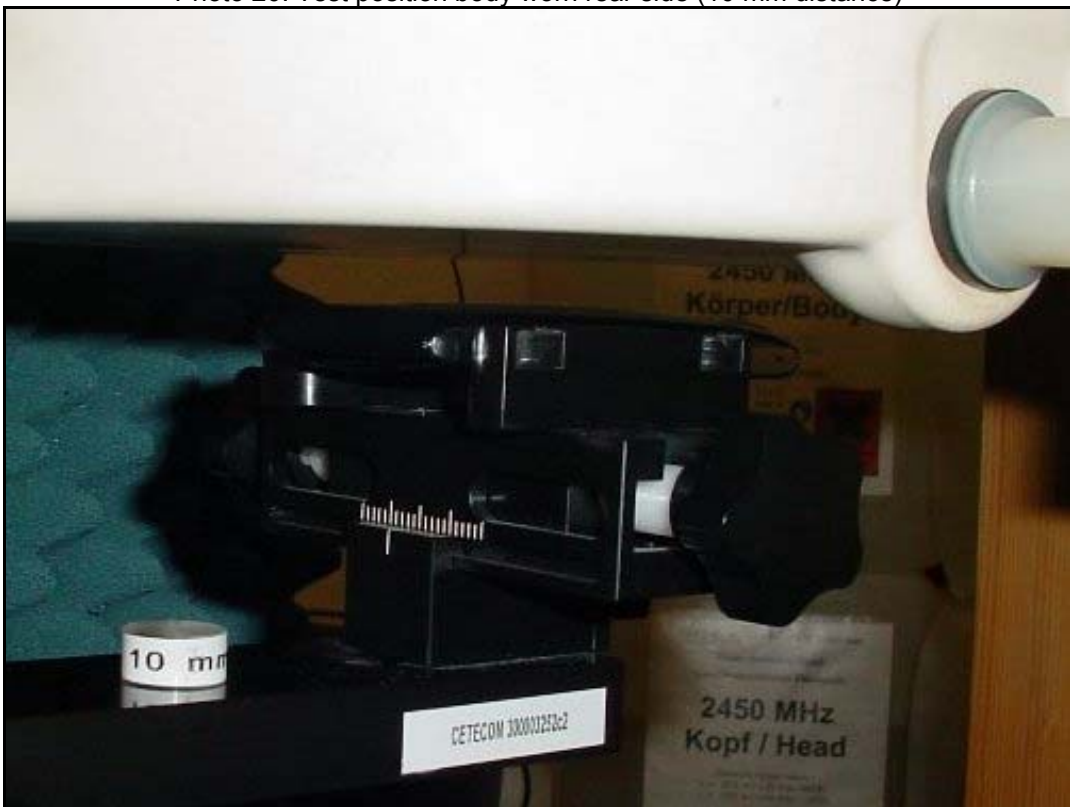


Photo 21: Test position body worn left side edge (10 mm distance)



Photo 22: Test position body worn right side edge (10 mm distance)



Photo 23: Test position body worn top edge (10 mm distance)



Photo 24: Test position body worn bottom edge (10 mm distance)



Photo 25: Test position body worn front side (15 mm distance)



Photo 26: Test position body worn rear side (15 mm distance)



Annex D: RF Technical Brief Cover Sheet acc. to RSS-102 Annex A

1. COMPANY NUMBER: 4170B
2. MODEL NUMBER: A3880100
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: **0.766 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: 12.5 %
- Standard used for evaluation: RSS-102 Issue 4 (2010-03)
- SAR value: **0.853 W/kg.** Measured Computed Calculated

Annex D.9: 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: 2011-02-16

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. 1-2977-08-02/11 Calibration data, Phantom certificate and detail information of the DASY4 System

Annex F: Document History

Version	Applied Changes	Date of Release
	Initial Release	2011-02-16

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