

TEST REPORT

Test Report No.: 1-1954-09-02/10-A



Testing Laboratory

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

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

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Test Standard/s

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

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

Test Item

Kind of test item:	Mobile Phone
Device type:	portable device
Model name:	AAD-3880077-BV
S/N serial number:	BX9019LXEF / BX9019RF48 (for WLAN)
FCC-ID:	PY7A3880077
IC:	4170B- A3880077
IMEI-Number:	00440214-012741-0 / 00440214-012863-2 (WLAN)
HW hardware status:	AP1
SW software status:	R2CAxxx
Frequency:	see technical details
Antenna:	integrated antenna
Battery option:	Li-Polymer EP500 battery 3.7V / 1200mAh
Accessories:	stereo headset
Test sample status:	production used
Exposure category:	general population / uncontrolled environment



Test performed:

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2 General information

2.1 Notes

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

2.2 Application details

Date of receipt of order:	2010-02-19
Date of receipt of test item:	2010-02-22
Start of test:	2010-02-22
End of test:	2010-03-04
Person(s) present during the test:	

2.3 Statement of compliance

The SAR values found for the AAD-3880077-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.

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

2.4 Technical details

Band tested for this SAR test report	Technology	Frequency band	Lowest transmit frequency/MHz	Highest transmit frequency/MHz	Lowest receive Frequency/MHz	Highest receive Frequency/MHz	Kind of modulation	Power Class	Tested power control level	GPRS/EGPRS mobile station class	GPRS/EGPRS multislots 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	10	no	975	37	124	--
<input type="checkbox"/>	GSM	DCS	1710.2	1784.8	1805.2	1879.8	GMSK 8-PSK	1 E2	0	B	10	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	10	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	10	no	512	661	810	29.6
<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	18.2
<input type="checkbox"/>	BT	ISM	2412	2462	2412	2462	GFSK	3	max	--	--	--	0	39	78	9.6

)*: 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

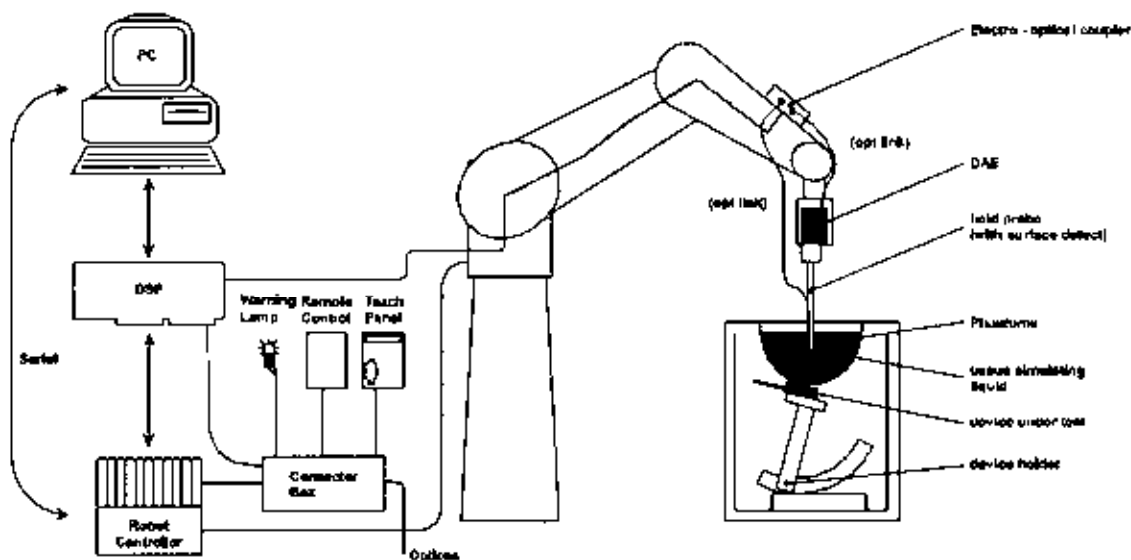
Ambient temperature:	20 – 24 °C
Tissue Simulating liquid:	20 – 24 °C
Relative humidity content:	40 – 50 %
Air pressure:	not relevant for this kind of testing
Power supply:	230 V / 50 Hz

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

6.1.2 Test environment

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

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

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

6.1.3 Probe description

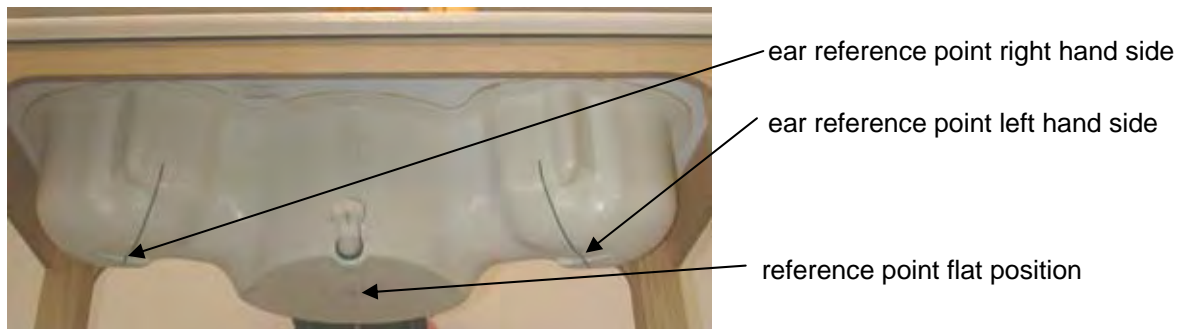
Isotropic E-Field Probe ET3DV6 for Dosimetric Measurements

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

6.1.4 Phantom description

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

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



6.1.5 Device holder description

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



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

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

6.1.6 Scanning procedure

- The DASY4 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.
- The „reference“ and „drift“ measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT's output power and should vary max. +/- 5 %.
- The „surface check“ measurement tests the optical surface detection system of the DASY4 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)
- The „area scan“ measures the SAR above the DUT or verification dipole on a parallel plane to the surface. It is used to locate the approximate location of the peak SAR with 2D spline interpolation. The robot performs a stepped movement along one grid axis while the local electrical field strength is measured by the probe. The probe is touching the surface of the SAM during acquisition of measurement values. The standard scan uses large grid spacing for faster measurement. Standard grid spacing for head measurements is 15 mm in x- and y- dimension. If a finer resolution is needed, the grid spacing can be reduced. Grid spacing and orientation have no influence on the SAR result. For special applications where the standard scan method does not find the peak SAR within the grid, e.g. mobile phones with flip cover, the grid can be adapted in orientation. Results of this coarse scan are shown in annex 2.
- A „7x7x7 zoom scan“ measures the field in a volume around the 2D peak SAR value acquired in the previous „coarse“ scan. This is a fine 7x7 grid where the robot additionally moves the probe in 7 steps along the z-axis away from the bottom of the Phantom. Grid spacing for the cube measurement is 5 mm in x and y-direction and 5 mm in z-direction. DASY4 is also able to perform repeated zoom scans if more than 1 peak is found during area scan. In this document, the evaluated peak 1g and 10g averaged SAR values are shown in the 2D-graphics in annex 2. Test results relevant for the specified standard (see section 3) are shown in table form in section 7.
- A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube 7x7x7 scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 2mm steps. This measurement shows the continuity of the liquid and can - depending in the field strength – also show the liquid depth. A z-axis scan of the measurement with maximum SAR value is shown in annex 2.

6.1.7 Spatial Peak SAR Evaluation

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

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

Extrapolation

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

Interpolation

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

Volume Averaging

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

Advanced Extrapolation

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

6.1.8 Data Storage and Evaluation

Data Storage

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

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

Data Evaluation by SEMCAD

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

Probe parameters:	- Sensitivity	$\text{Norm}_i, a_{i0}, a_{i1}, a_{i2}$
	- Conversion factor	ConvF_i
	- Diode compression point	D_{cpi}
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, 16M Ω + resistivity

HEC: Hydroxyethyl Cellulose

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

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

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

6.1.10 Tissue simulating liquids: parameters

Used Target Frequency	Target Head Tissue		Measured Head Tissue		Measured Date
	Permittivity	Conductivity [S/m]	Permittivity	Conductivity [S/m]	
835	41.5	0.90	42.2	0.90	2010-02-24
900	41.5	0.97	41.4	0.97	2010-02-24
1900	40.0	1.40	40.4	1.40	2010-02-27
2450	39.2	1.80	38.9	1.89	2010-03-03

Table 4: Parameter of the head tissue simulating liquid

Used Target Frequency	Target Body Tissue		Measured Body Tissue		Measured Date
	Permittivity	Conductivity [S/m]	Permittivity	Conductivity [S/m]	
835	55.2	0.97	54.5	0.96	2010-02-22
900	55.0	1.05	53.9	1.03	2010-02-22
1900	53.3	1.52	53.0	1.52	2010-02-23
2450	52.7	1.95	51.9	1.99	2010-03-01

Table 5: Parameter of the body tissue simulating liquid

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

6.1.11 Measurement uncertainty evaluation for SAR test

The overall combined measurement uncertainty of the measurement system is $\pm 10.3\%$ ($K=1$).
 The expanded uncertainty ($k=2$) is assessed to be $\pm 20.6\%$
 This measurement uncertainty budget is suggested by IEEE 1528-2003 and determined by Schmid & Partner Engineering AG. The breakdown of the individual uncertainties is as follows:

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

Table 6: Measurement uncertainties

6.1.12 Measurement uncertainty evaluation for system validation

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

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

This measurement uncertainty budget is suggested by IEEE 1528-2003 and determined by Schmid & Partner Engineering AG. The breakdown of the individual uncertainties is as follows:

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

Table 7: Measurement uncertainties

6.1.13 System validation

The system validation is performed for verifying the accuracy of the complete measurement system and performance of the software. The system validation is performed with tissue equivalent material according to IEEE 1528. The following table shows validation results for all frequency bands and tissue liquids used during the tests (plot(s) see annex A).

Validation Kit	Frequency	Target Peak SAR (1000 mW) (+/- 10%)	Target SAR _{1g} (1000 mW) (+/- 10%)	Measured Peak SAR (1000 mW)	Measured SAR _{1g} (1000 mW)	Measured date
D900V2 S/N: 102	900 MHz head	16.7 mW/g	11.3 mW/g	17.5 mW/g	11.6 mW/g	2010-02-24
D900V2 S/N: 102	900 MHz body	16.8 mW/g	11.3 mW/g	16.6 mW/g	11.3 mW/g	2010-02-22
D1900V2 S/N: 5d009	1900 MHz head	72.4 mW/g	39.7 mW/g	69.5 mW/g	39.0 mW/g	2010-02-27
D1900V2 S/N: 5d009	1900 MHz body	68.1 mW/g	40.1 mW/g	65.9 mW/g	36.9 mW/g	2010-02-23
D2450V2 S/N: 710	2450 MHz head	108.8 mW/g	52.7 mW/g	115.8 mW/g	53.8 mW/g	2010-03-03
D2450V2 S/N: 710	2450 MHz body	109.6 mW/g	51.4 mW/g	112.0 mW/g	54.7 mW/g	2010-03-01

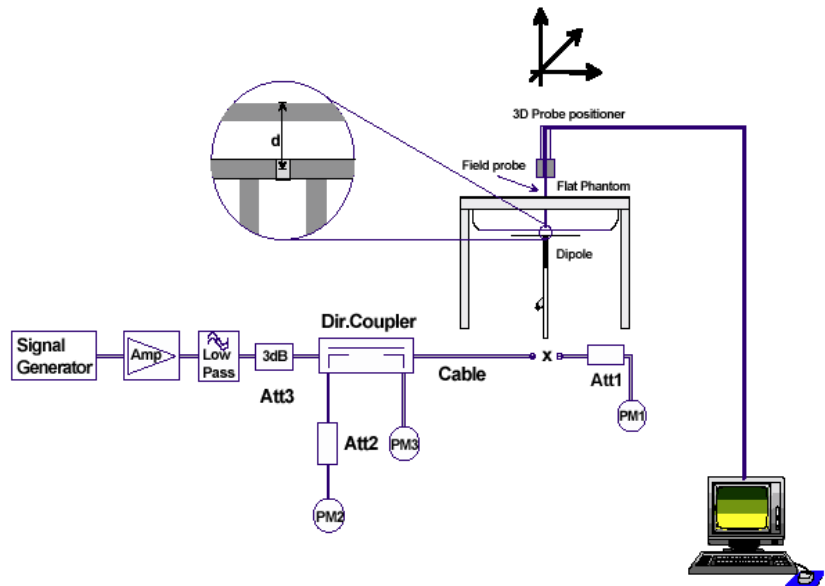
Table 8: Results system validation

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

6.1.14 Validation procedure

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

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



7 Detailed Test Results

7.1 Conducted power measurements

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

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

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

The signalling modes differ as follows :

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

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

7.1.1 Conducted power measurements GSM 850 MHz

Channel / frequency	modulation	timeslots	slotted avg. power	timebased avg. power (calculated)
128 / 824.2 MHz	GMSK	1	33.4dBm	24.4dBm
190 / 836.6 MHz	GMSK	1	33.3dBm	24.3dBm
251 / 848.0 MHz	GMSK	1	33.2dBm	24.2dBm
128 / 824.2 MHz	GMSK	2	31.0dBm	25.0dBm
190 / 836.6 MHz	GMSK	2	30.9dBm	24.9dBm
251 / 848.0 MHz	GMSK	2	30.8dBm	24.8dBm
128 / 824.2 MHz	8PSK	2	24.9dBm	21.9dBm
190 / 836.6 MHz	8PSK	2	24.9dBm	21.9dBm
251 / 848.0 MHz	8PSK	2	24.9dBm	21.9dBm

Table 9: Test results conducted power measurement GSM 850 MHz

7.1.2 Conducted power measurements GSM 1900 MHz

Channel / frequency	modulation	timeslots	slotted avg. power	timebased avg. power (calculated)
512 / 1850.2 MHz	GMSK	1	29.6dBm	20.6dBm
661 / 1880.0 MHz	GMSK	1	29.6dBm	20.6dBm
810 / 1909.8 MHz	GMSK	1	29.3dBm	20.3dBm
512 / 1850.2 MHz	GMSK	2	27.7dBm	21.7dBm
661 / 1880.0 MHz	GMSK	2	27.8dBm	21.8dBm
810 / 1909.8 MHz	GMSK	2	27.0dBm	21.0dBm
512 / 1850.2 MHz	8PSK	2	22.4dBm	16.4dBm
661 / 1880.0 MHz	8PSK	2	23.0dBm	17.0dBm
810 / 1909.8 MHz	8PSK	2	22.1dBm	16.1dBm

Table 10: Test results conducted power measurement GSM 1900 MHz

7.1.3 Justification of SAR measurements in GSM mode

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

For comparison an additional delta measurement was performed with 1 timeslot in speech mode. In EDGE mode no delta measurement was performed.

7.1.4 Conducted power measurements WLAN 2.4 GHz

Channel / frequency	modulation	bit rate	peak power	avg. power
1 / 2412 MHz	CCK	1 MBit/s	20.0dBm	17.6dBm
6 / 2437 MHz	CCK	1 MBit/s	20.5dBm	18.2dBm
11 / 2462 MHz	CCK	1 MBit/s	20.1dBm	17.9dBm
1 / 2412 MHz	OFDM	6 MBit/s	22.8dBm	13.6dBm
6 / 2437 MHz	OFDM	6 MBit/s	23.3dBm	14.2dBm
11 / 2462 MHz	OFDM	6 MBit/s	23.1dBm	13.7dBm

Table 11: Test results conducted power measurement WLAN 2.4 GHz

Test results and measurement procedures see also Part 15.247 test report 1-1954-11-06/10.

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. 2.6)	remarks
1a	GSM 850 MHz	250	0.636	routine evaluation
1b	GSM 1900 MHz	125	1.030	routine evaluation
2	WLAN 2450 MHz	100	0.510	$P_2 > P_{ref}$
3	Bluetooth 2450 MHz	7	$:=0$	$P_3 < P_{ref}$
Sum of all 1g-SAR values			n/a	

Table 12: Communication systems and SAR values in head position

antenna pair (x,y)	peak SAR distance d_{xy} (cm)	L_{xy} (cm)	SPLSR _{xy}	sim.-Tx SAR	remarks
(1a,2)	7.1	n/a	0.161	N	$SPLSR_{1a2} < 0.3$
(1b,2)	7.2	n/a	0.214	N	$SPLSR_{1b2} < 0.3$

Table 13: Antenna distances and SPLSR evaluation in head position

b) body position

Tx No.	Communication system and frequency band	P_{avg} (mW)	single SAR (W/kg) (see ch. 2.6)	remarks
1a	GSM 850 MHz	500	0.923	routine evaluation
1b	GSM 1900 MHz	250	0.475	routine evaluation
2	WLAN 2450 MHz	100	0.081	$P_2 > P_{ref}$
3	Bluetooth 2450 MHz	7	$:=0$	$P_3 < P_{ref}$
Sum of all 1g-SAR values			n/a	

Table 14: Communication systems and SAR values in body position

antenna pair (x,y)	antenna distance d_{xy} (cm)	L_{xy} (cm)	SPLSR _{xy}	sim.-Tx SAR	remarks
(1a,2)	7.4	n/a	0.136	N	SPLSR _{1a2} < 0.3
(1b,2)	7.5	n/a	0.074	N	SPLSR _{1b2} < 0.3

Table 15: Antenna distances and SPLSR evaluation in body position

7.2 SAR test results

7.2.1 Results overview

Head SAR GSM 850 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature	
					left	right
128 / 824.2 MHz	cheek	0.524 W/kg	0.515 W/kg	1.6 W/kg	22.6 °C	22.9 °C
190 / 836.6 MHz	cheek	0.568 W/kg	0.578 W/kg	1.6 W/kg	22.6 °C	22.9 °C
251 / 848.8 MHz	cheek	0.578 W/kg	0.566 W/kg	1.6 W/kg	22.6 °C	22.9 °C
128 / 824.2 MHz	tilted 15°	0.258 W/kg	0.288 W/kg	1.6 W/kg	22.4 °C	22.9 °C
190 / 836.6 MHz	tilted 15°	0.310 W/kg	0.331 W/kg	1.6 W/kg	22.4 °C	22.9 °C
251 / 848.8 MHz	tilted 15°	0.324 W/kg	0.336 W/kg	1.6 W/kg	22.4 °C	22.9 °C
slide opened						
128 / 824.2 MHz	cheek	0.496 W/kg	0.196 W/kg	1.6 W/kg	22.3 °C	22.5 °C
190 / 836.6 MHz	cheek	0.576 W/kg	0.241 W/kg	1.6 W/kg	22.3 °C	22.5 °C
251 / 848.8 MHz	cheek	0.636 W/kg	0.270 W/kg	1.6 W/kg	22.3 °C	22.5 °C
128 / 824.2 MHz	tilted 15°	0.124 W/kg	0.128 W/kg	1.6 W/kg	22.3 °C	22.8 °C
190 / 836.6 MHz	tilted 15°	0.147 W/kg	0.144 W/kg	1.6 W/kg	22.3 °C	22.8 °C
251 / 848.8 MHz	tilted 15°	0.150 W/kg	0.133 W/kg	1.6 W/kg	22.3 °C	22.8 °C

Table 16: Test results head SAR GSM 850 MHz

Body SAR GSM 850 MHz (averaged over 1g tissue volume)					
Channel / frequency	Position	test condition	Body worn test result	Limit	Liquid temperature
128 / 824.2 MHz	front	2 time slots	0.347 W/kg	1.6 W/kg	22.3 °C
190 / 836.6 MHz	front	2 time slots	0.468 W/kg	1.6 W/kg	22.3 °C
251 / 848.8 MHz	front	2 time slots	0.566 W/kg	1.6 W/kg	22.3 °C
128 / 824.2 MHz	rear	2 time slots	0.537 W/kg	1.6 W/kg	21.7 °C
190 / 836.6 MHz	rear	2 time slots	0.751 W/kg	1.6 W/kg	21.7 °C
251 / 848.8 MHz	rear	2 time slots	0.923 W/kg	1.6 W/kg	21.7 °C
251 / 848.8 MHz	rear	1 time slot	0.585 W/kg	1.6 W/kg	21.7 °C

Table 17: Test results body SAR GSM 850 MHz

Head SAR GSM 1900 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature	
					left	right
512 / 1850.2 MHz	cheek	0.828 W/kg	0.522 W/kg	1.6 W/kg	21.1 °C	21.4 °C
661 / 1880.0 MHz	cheek	0.994 W/kg	0.642 W/kg	1.6 W/kg	21.1 °C	21.4 °C
810 / 1909.8 MHz	cheek	0.931 W/kg	0.607 W/kg	1.6 W/kg	21.1 °C	21.4 °C
512 / 1850.2 MHz	tilted 15°	0.346 W/kg	0.325 W/kg	1.6 W/kg	21.1 °C	21.4 °C
661 / 1880.0 MHz	tilted 15°	0.427 W/kg	0.422 W/kg	1.6 W/kg	21.1 °C	21.4 °C
810 / 1909.8 MHz	tilted 15°	0.398 W/kg	0.394 W/kg	1.6 W/kg	21.1 °C	21.4 °C
slide opened						
512 / 1850.2 MHz	cheek	0.944 W/kg	0.329 W/kg	1.6 W/kg	21.3 °C	21.3 °C
661 / 1880.0 MHz	cheek	0.992 W/kg	0.334 W/kg	1.6 W/kg	21.3 °C	21.3 °C
810 / 1909.8 MHz	cheek	1.030 W/kg	0.336 W/kg	1.6 W/kg	21.3 °C	21.3 °C
512 / 1850.2 MHz	tilted 15°	0.282 W/kg	0.390 W/kg	1.6 W/kg	21.3 °C	21.3 °C
661 / 1880.0 MHz	tilted 15°	0.277 W/kg	0.411 W/kg	1.6 W/kg	21.3 °C	21.3 °C
810 / 1909.8 MHz	tilted 15°	0.281 W/kg	0.409 W/kg	1.6 W/kg	21.3 °C	21.3 °C

Table 18: Test results head SAR GSM 1900 MHz

Body SAR GSM 1900 MHz (averaged over 1g tissue volume)					
Channel / frequency	Position	test condition	Body worn test result	Limit	Liquid temperature
512 / 1850.2 MHz	front	2 time slots	0.276 W/kg	1.6 W/kg	21.1 °C
661 / 1880.0 MHz	front	2 time slots	0.347 W/kg	1.6 W/kg	21.1 °C
810 / 1909.8 MHz	front	2 time slots	0.350 W/kg	1.6 W/kg	21.1 °C
512 / 1850.2 MHz	rear	2 time slots	0.394 W/kg	1.6 W/kg	21.8 °C
661 / 1880.0 MHz	rear	2 time slots	0.475 W/kg	1.6 W/kg	21.8 °C
810 / 1909.8 MHz	rear	2 time slots	0.469 W/kg	1.6 W/kg	21.8 °C
661 / 1880.0 MHz	rear	1 time slot	0.350 W/kg	1.6 W/kg	21.8 °C

Table 19: Test results body SAR GSM 1900 MHz

Head SAR WLAN 2450 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature	
					left	right
1 / 2412 MHz	cheek	0.510 W/kg	0.267 W/kg	1.6 W/kg	21.6 °C	21.6 °C
6 / 2437 MHz	cheek	0.469 W/kg	0.259 W/kg	1.6 W/kg	21.6 °C	21.6 °C
11 / 2462 MHz	cheek	0.294 W/kg	0.141 W/kg	1.6 W/kg	21.6 °C	21.6 °C
1 / 2412 MHz	tilted 15°	0.329 W/kg	0.230 W/kg	1.6 W/kg	21.6 °C	21.6 °C
6 / 2437 MHz	tilted 15°	0.299 W/kg	0.212 W/kg	1.6 W/kg	21.6 °C	21.6 °C
11 / 2462 MHz	tilted 15°	0.197 W/kg	0.118 W/kg	1.6 W/kg	21.6 °C	21.6 °C
1 / 2412 MHz	cheek 6Mbps	0.230 W/kg	--- W/kg	1.6 W/kg	--- °C	--- °C
slide opened						
1 / 2412 MHz	cheek	0.088 W/kg	0.170 W/kg	1.6 W/kg	21.1 °C	21.1 °C
6 / 2437 MHz	cheek	0.060 W/kg	0.111 W/kg	1.6 W/kg	21.1 °C	21.1 °C
11 / 2462 MHz	cheek	0.038 W/kg	0.069 W/kg	1.6 W/kg	21.1 °C	21.1 °C
1 / 2412 MHz	tilted 15°	0.115 W/kg	0.209 W/kg	1.6 W/kg	21.1 °C	21.1 °C
6 / 2437 MHz	tilted 15°	0.075 W/kg	0.138 W/kg	1.6 W/kg	21.1 °C	21.1 °C
11 / 2462 MHz	tilted 15°	0.048 W/kg	0.092 W/kg	1.6 W/kg	21.1 °C	21.1 °C

Table 20: Test results head SAR WLAN 2450 MHz

Body SAR WLAN 2450 MHz (averaged over 1g tissue volume)					
Channel / frequency	Position	test condition	Body worn test result	Limit	Liquid temperature
1 / 2412 MHz	front	CCK 1 Mbit/s	0.053 W/kg	1.6 W/kg	21.1 °C
6 / 2437 MHz	front	CCK 1 Mbit/s	0.081 W/kg	1.6 W/kg	21.1 °C
11 / 2462 MHz	front	CCK 1 Mbit/s	0.041 W/kg	1.6 W/kg	21.1 °C
1 / 2412 MHz	rear	CCK 1 Mbit/s	0.081 W/kg	1.6 W/kg	21.1 °C
6 / 2437 MHz	rear	CCK 1 Mbit/s	0.078 W/kg	1.6 W/kg	21.1 °C
11 / 2462 MHz	rear	CCK 1 Mbit/s	0.042 W/kg	1.6 W/kg	21.1 °C
1 / 2412 MHz	rear	OFDM 6 Mbit/s	0.033 W/kg	1.6 W/kg	21.1 °C

Table 21: Test results body SAR WLAN 2450 MHz

Note:

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

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

The additional GSM body test was performed at worst case with 1 time slot in uplink 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 2.3 for details).

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 21, 2009	12
2	<input type="checkbox"/>	Dosimetric E-Field Probe	ET3DV6	Schmid & Partner Engineering AG	1559	January 20, 2010	12
3	<input checked="" type="checkbox"/>	900 MHz System Validation Dipole	D900V2	Schmid & Partner Engineering AG	102	August 17, 2009	12
4	<input type="checkbox"/>	1800 MHz System Validation Dipole	D1800V2	Schmid & Partner Engineering AG	287	August 18, 2009	12
5	<input checked="" type="checkbox"/>	1900 MHz System Validation Dipole	D1900V2	Schmid & Partner Engineering AG	531	August 18, 2009	12
6	<input checked="" type="checkbox"/>	2450 MHz System Validation Dipole	D2450V2	Schmid & Partner Engineering AG	710	August 17, 2009	12
7	<input checked="" type="checkbox"/>	Data acquisition electronics	DAE3V1	Schmid & Partner Engineering AG	413	January 4, 2010	12
8	<input type="checkbox"/>	Data acquisition electronics	DAE3V1	Schmid & Partner Engineering AG	477	May 14, 2009	12
9	<input checked="" type="checkbox"/>	Software	DASY 4 V4.5	Schmid & Partner Engineering AG	---	N/A	--
10	<input checked="" type="checkbox"/>	Phantom	SAM	Schmid & Partner Engineering AG	---	N/A	--
11	<input checked="" type="checkbox"/>	Universal Radio Communication Tester	CMU 200	Rohde & Schwarz	106826	January 12, 2010	12
12	<input checked="" type="checkbox"/>	Network Analyser 300 kHz to 6 GHz	8753C	Hewlett Packard)*	2937U00269	January 8, 2010	12
13	<input checked="" type="checkbox"/>	Network Analyser 300 kHz to 6 GHz	85047A	Hewlett Packard)*	2936A00872	January 8, 2010	12
14	<input checked="" type="checkbox"/>	Dielectric Probe Kit	85070C	Hewlett Packard	US99360146	N/A	12
15	<input checked="" type="checkbox"/>	Signal Generator	8665A	Hewlett Packard	2833A00112	January 8, 2010	12
16	<input checked="" type="checkbox"/>	Amplifier	25S1G4 (25 Watt)	Amplifier Research	20452	N/A	--
17	<input checked="" type="checkbox"/>	Power Meter	NRP	Rohde & Schwarz	101367	January 8, 2010	12
18	<input checked="" type="checkbox"/>	Power Meter Sensor	NRP Z22	Rohde & Schwarz	100227	January 8, 2010	12
19	<input checked="" type="checkbox"/>	Power Meter Sensor	NRP Z22	Rohde & Schwarz	100234	January 8, 2010	12

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

9 Observations

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

Annex A: System performance verification

Date/Time: 2010-02-24 10:04:08 Date/Time: 2010-02-24 10:08:09

System Performance Check-D900-850 head 2010-02-24

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

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

Medium: HSL850 Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

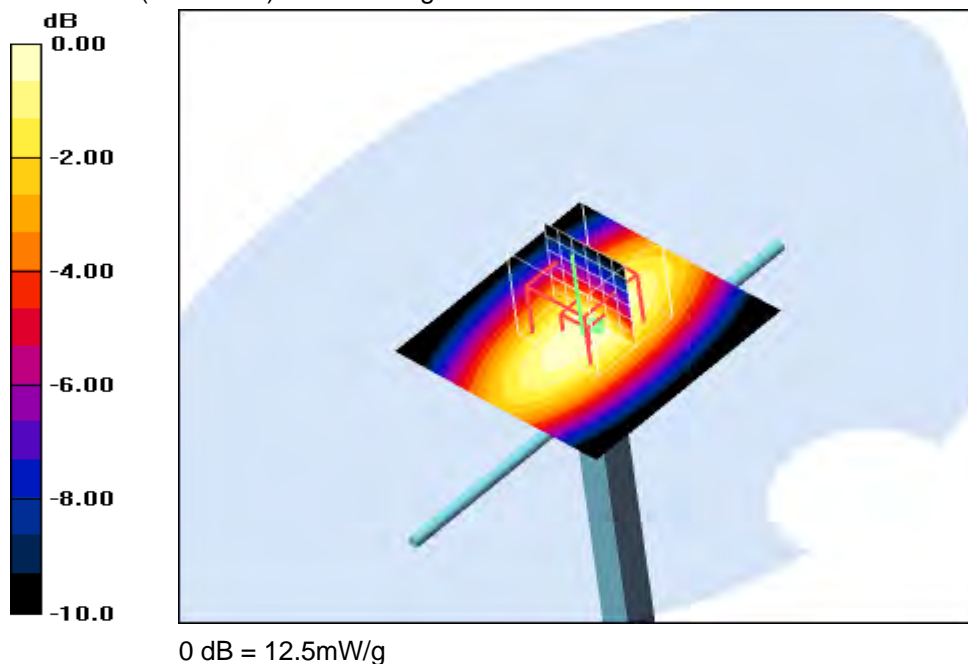
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.84, 5.84, 5.84); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 12.1 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 118.2 V/m; Power Drift = 0.035 dB
Peak SAR (extrapolated) = 17.5 W/kg
SAR(1 g) = 11.6 mW/g; SAR(10 g) = 7.39 mW/g
Maximum value of SAR (measured) = 12.5 mW/g



Additional information:

ambient temperature: 23.3°C; liquid temperature: 22.6°C

Date/Time: 2010-02-22 08:40:56 Date/Time: 2010-02-22 08:44:35

System Performance Check-D900-850 body 2010-02-22

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

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

Medium: M850 Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 1.03 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

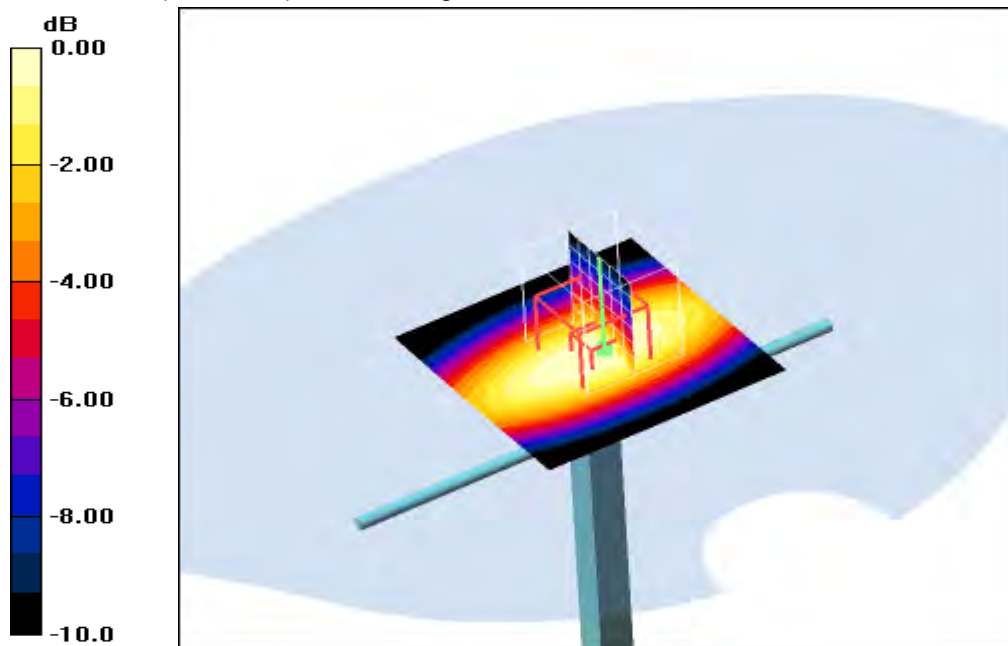
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.63, 5.63, 5.63); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 12.2 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 = -0.086 dB
 Peak SAR (extrapolated) = 16.6 W/kg
SAR(1 g) = 11.3 mW/g; SAR(10 g) = 7.28 mW/g
 Maximum value of SAR (measured) = 12.2 mW/g



0 dB = 12.2mW/g

Additional information:

ambient temperature: 22.3°C; liquid temperature: 22.0°C

Date/Time: 2010-02-27 08:53:55 Date/Time: 2010-02-27 08:57:34

System Performance Check-D1900 head 2010-02-27

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

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

Medium: HSL1900 Medium parameters used (interpolated): $f = 1900 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 51.3 mW/g

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

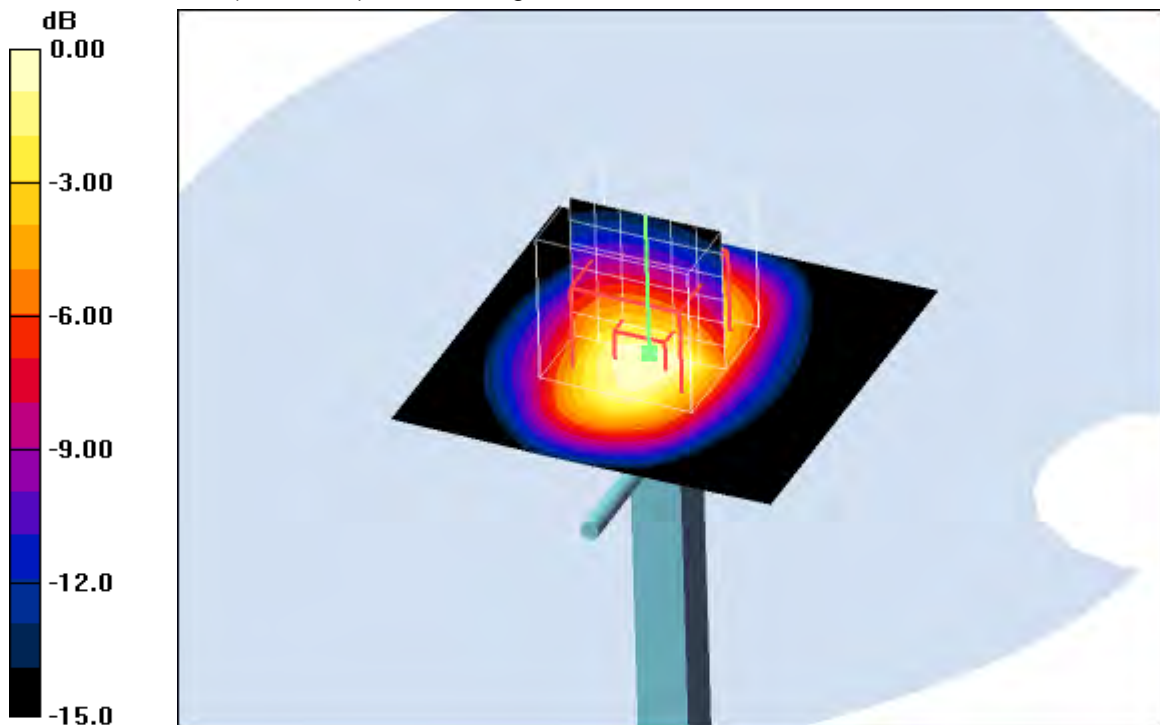
dx=5mm, dy=5mm, dz=5mm

Reference Value = 183.9 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 69.5 W/kg

SAR(1 g) = 39 mW/g; SAR(10 g) = 20.4 mW/g

Maximum value of SAR (measured) = 44.2 mW/g



0 dB = 44.2mW/g

Additional information:

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

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

Date/Time: 2010-02-23 13:24:46 Date/Time: 2010-02-23 13:28:24

System Performance Check-D1900 body 2010-02-23

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

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

Medium: M1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

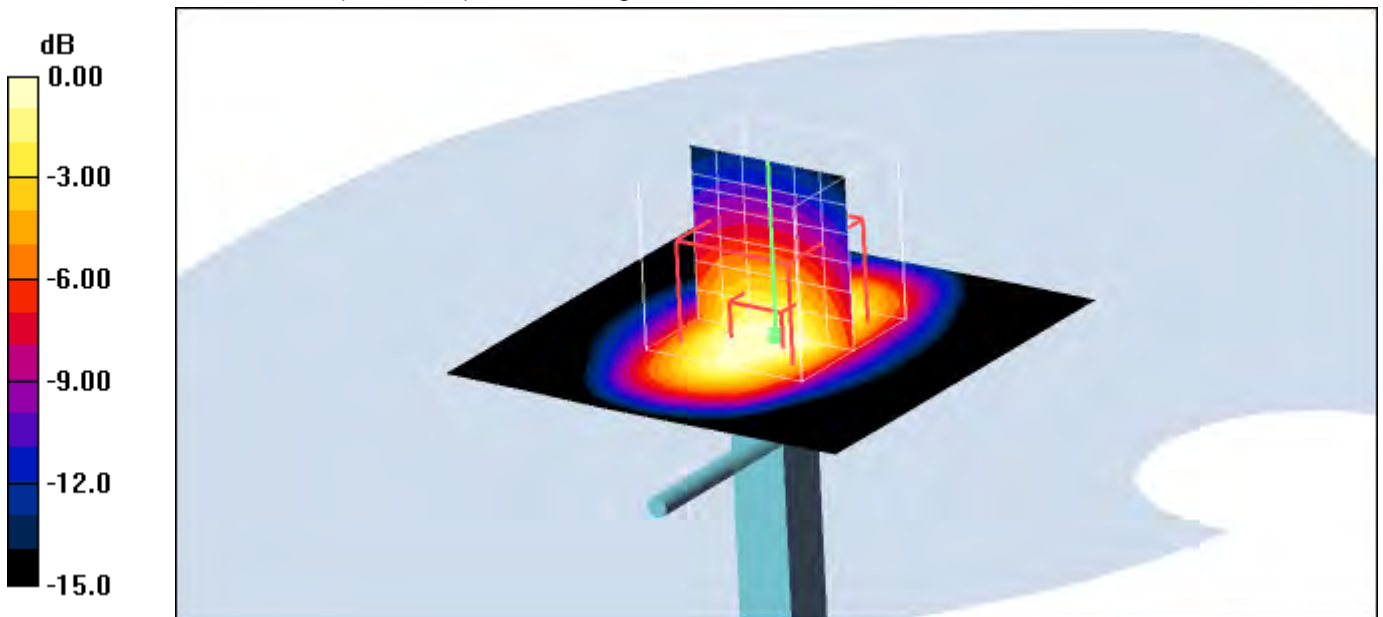
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 53.5 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 184.8 V/m; Power Drift = -0.020 dB
 Peak SAR (extrapolated) = 65.9 W/kg
SAR(1 g) = 36.9 mW/g; SAR(10 g) = 20.2 mW/g
 Maximum value of SAR (measured) = 42.1 mW/g



0 dB = 42.1mW/g

Additional information:

ambient temperature: 23.5°C; liquid temperature: 21.8°C

Date/Time: 2010-03-03 08:54:17 Date/Time: 2010-03-03 08:57:58

System Performance Check-D2450 head 2010-03-03

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

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

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

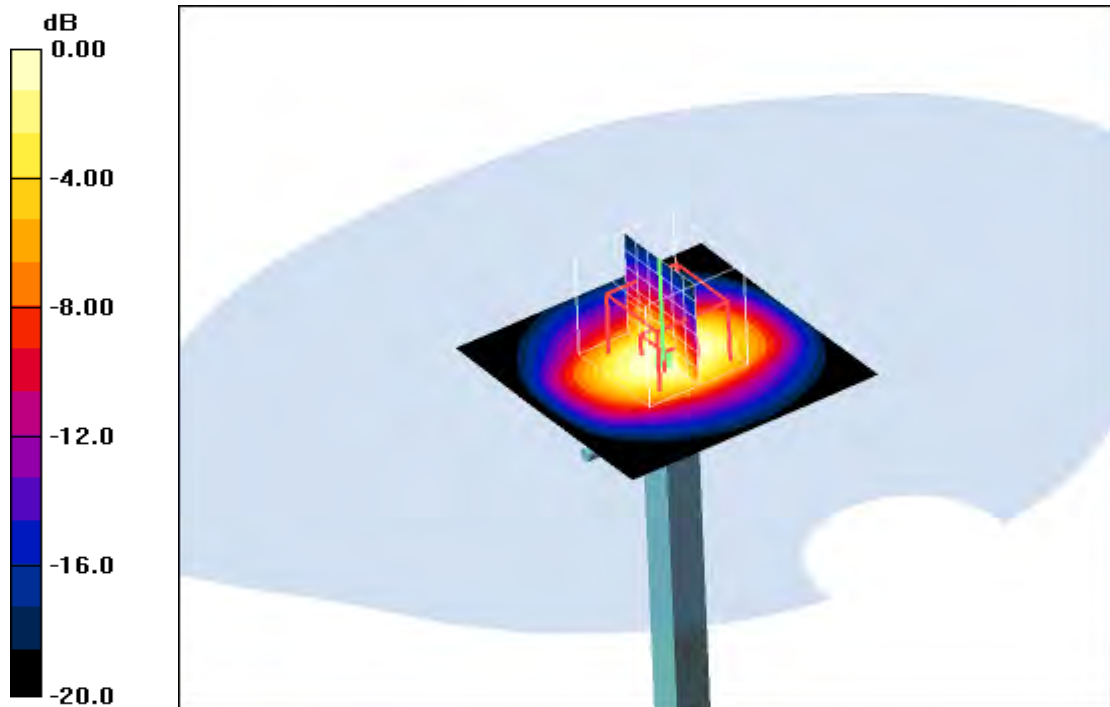
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 73.8 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 = -0.024 dB
 Peak SAR (extrapolated) = 115.8 W/kg
SAR(1 g) = 53.8 mW/g; SAR(10 g) = 24.8 mW/g
 Maximum value of SAR (measured) = 60.2 mW/g



0 dB = 60.2mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-01 17:42:06 Date/Time: 2010-03-01 17:45:43

System Performance Check-D2450 body 2010-03-01

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

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

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

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 77.2 mW/g

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

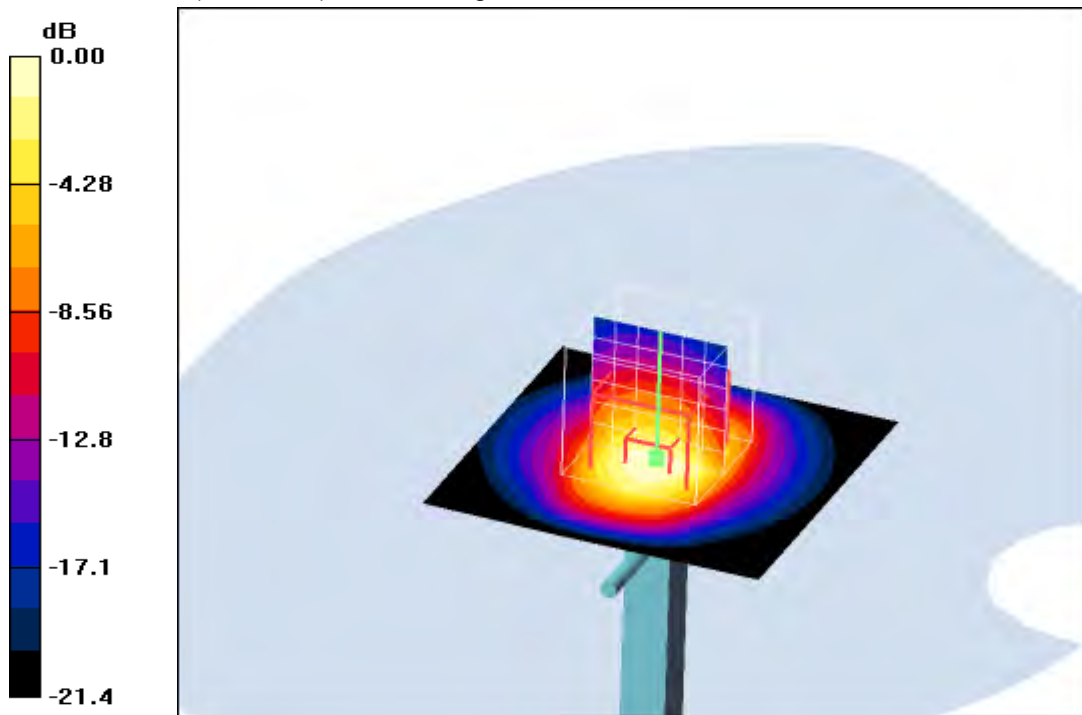
dx=5mm, dy=5mm, dz=5mm

Reference Value = 185.5 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 112.0 W/kg

SAR(1 g) = 54.7 mW/g; SAR(10 g) = 25.4 mW/g

Maximum value of SAR (measured) = 62.0 mW/g



Additional information:

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

Annex B: DASY4 measurement results

Annex B.1: GSM 850 MHz head

Date/Time: 2010-02-24 10:23:27 Date/Time: 2010-02-24 10:30:01

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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; $\epsilon_r = 42.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21

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

- Electronics: DAE3 Sn413; Calibrated: 2010-01-04

- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.578 mW/g

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

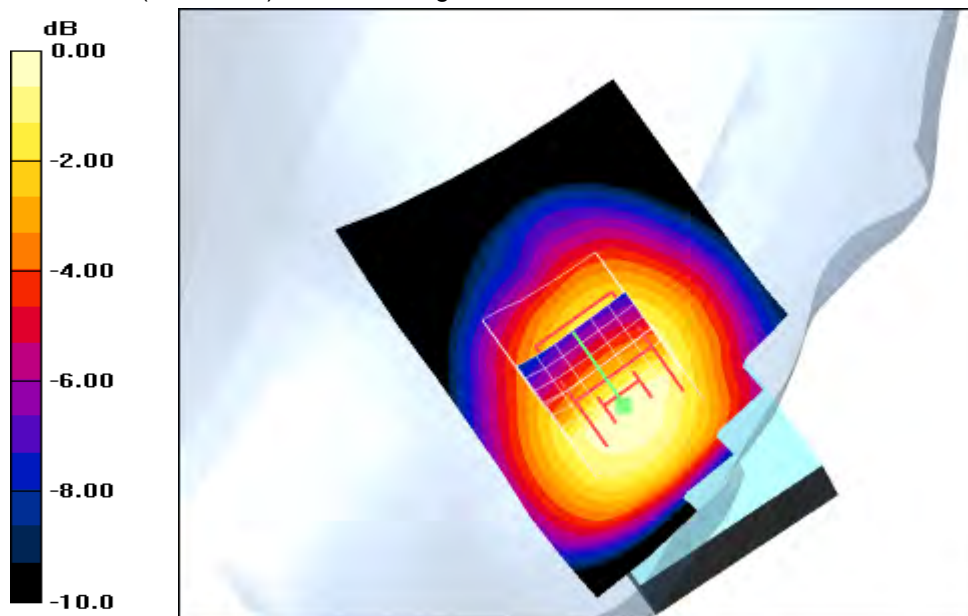
dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.9 V/m; Power Drift = -0.092 dB

Peak SAR (extrapolated) = 0.666 W/kg

SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.383 mW/g

Maximum value of SAR (measured) = 0.556 mW/g



0 dB = 0.556mW/g

Additional information:

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

ambient temperature: 23.3°C; liquid temperature: 22.6°C

Date/Time: 2010-02-24 10:45:25 Date/Time: 2010-02-24 10:51:57

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

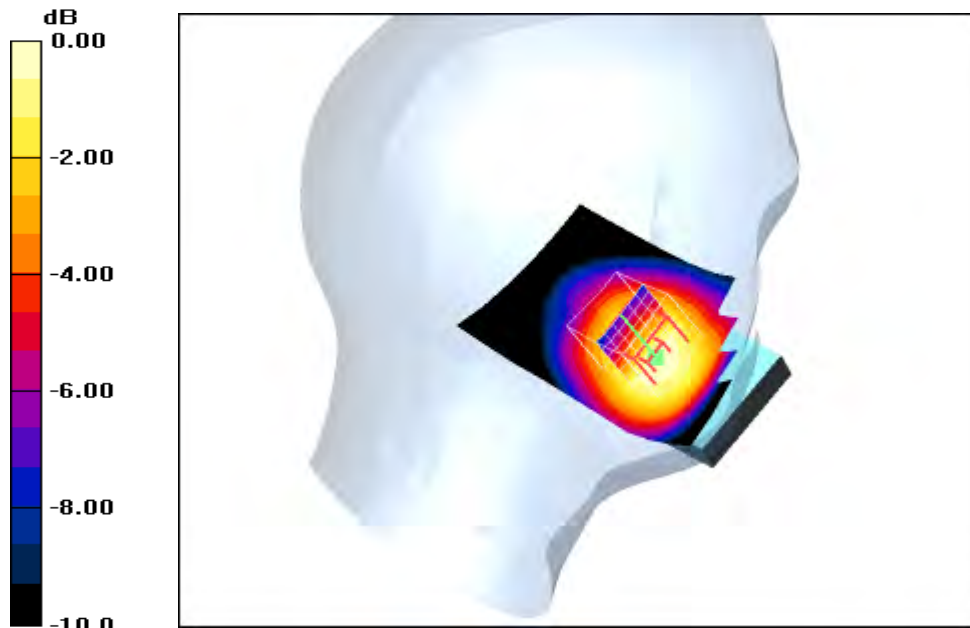
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.606 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 = 26.8 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 0.722 W/kg
SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.413 mW/g
 Maximum value of SAR (measured) = 0.601 mW/g



0 dB = 0.601mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : touched
 ambient temperature: 23.3°C; liquid temperature: 22.6°C

Date/Time: 2010-02-24 11:13:11 Date/Time: 2010-02-24 11:33:05

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.605 mW/g

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

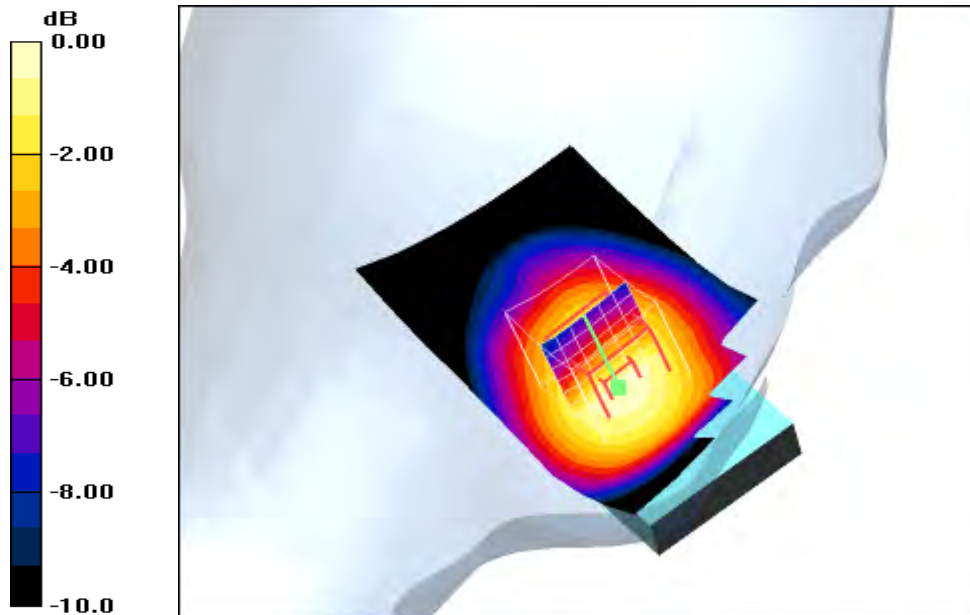
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.1 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.732 W/kg

SAR(1 g) = 0.578 mW/g; SAR(10 g) = 0.419 mW/g

Maximum value of SAR (measured) = 0.612 mW/g



0 dB = 0.612mW/g

Additional information:

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

ambient temperature: 23.3°C; liquid temperature: 22.6°C

Date/Time: 2010-02-24 12:31:45 Date/Time: 2010-02-24 12:38:26

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.271 mW/g

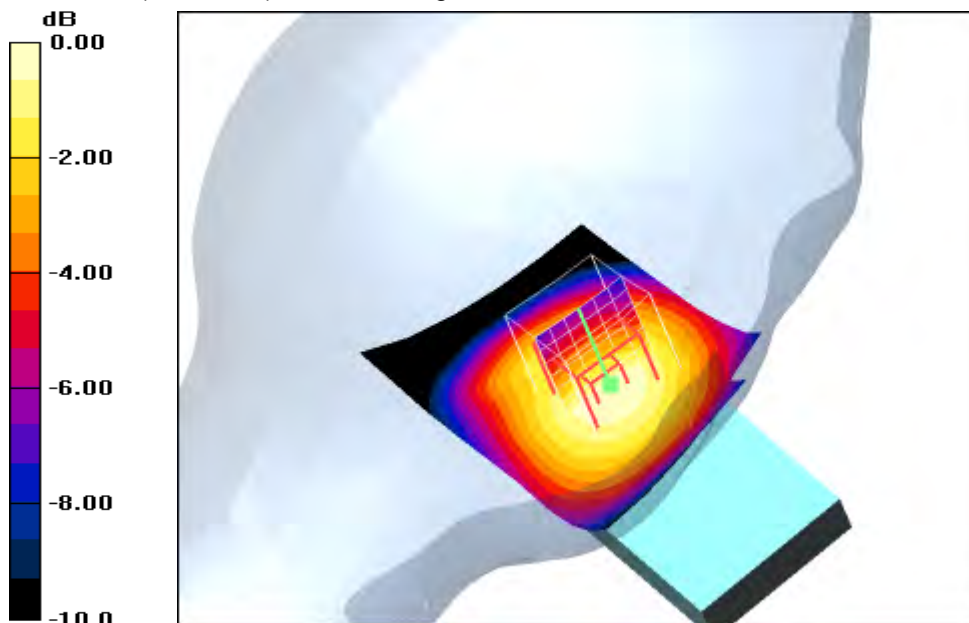
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.9 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 0.326 W/kg

SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.191 mW/g

Maximum value of SAR (measured) = 0.272 mW/g



0 dB = 0.272mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : tilted
 ambient temperature: 23.3°C; liquid temperature: 22.4°C

Date/Time: 2010-02-24 12:10:52 Date/Time: 2010-02-24 12:17:33

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.325 mW/g

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

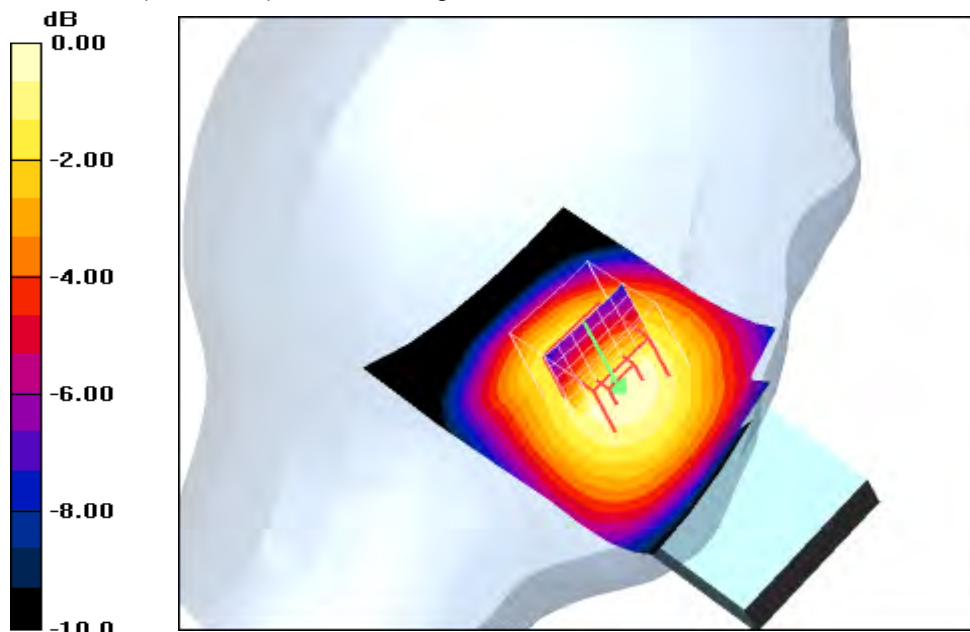
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.5 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.390 W/kg

SAR(1 g) = 0.310 mW/g; SAR(10 g) = 0.229 mW/g

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



0 dB = 0.328mW/g

Additional information:

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

ambient temperature: 23.3°C; liquid temperature: 22.4°C

Date/Time: 2010-02-24 11:48:20 Date/Time: 2010-02-24 11:54:59

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.339 mW/g

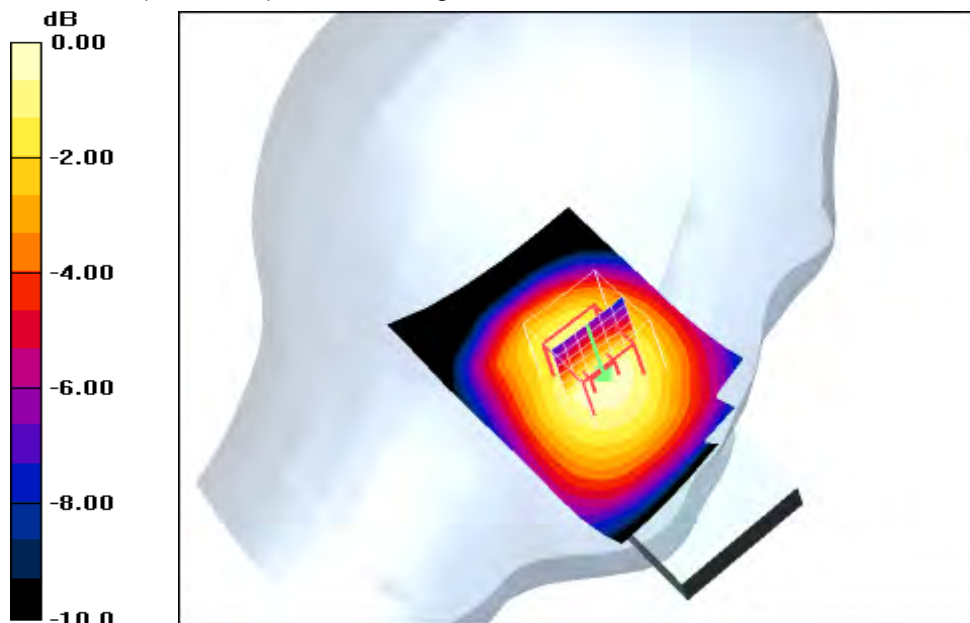
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.1 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.408 W/kg

SAR(1 g) = 0.324 mW/g; SAR(10 g) = 0.238 mW/g

Maximum value of SAR (measured) = 0.343 mW/g



0 dB = 0.343mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 22.4°C

Date/Time: 2010-02-24 13:03:35 Date/Time: 2010-02-24 13:12:46

IEEE1528_OET65-LeftHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.543 mW/g

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

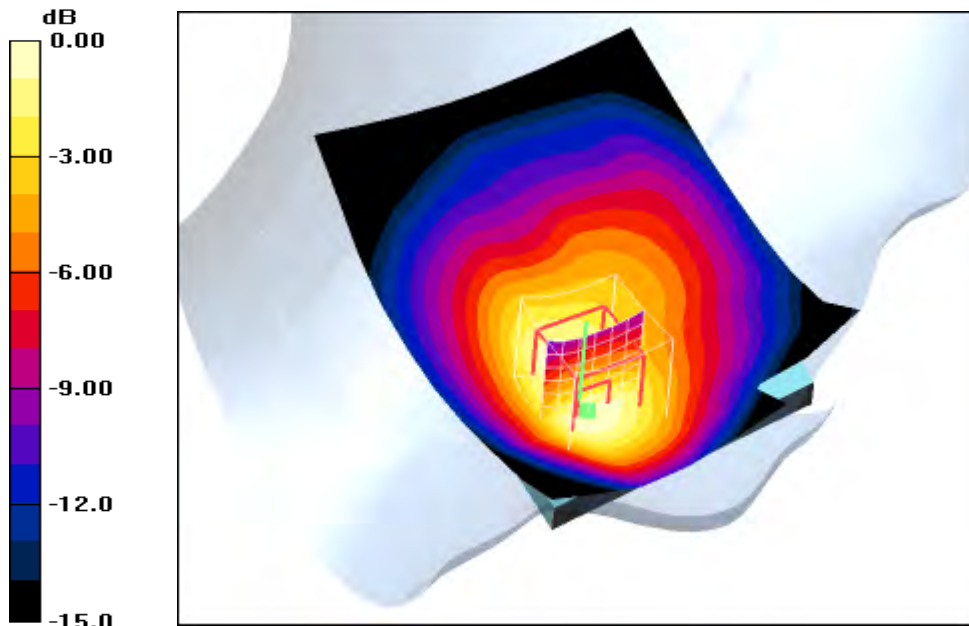
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.9 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 0.687 W/kg

SAR(1 g) = 0.496 mW/g; SAR(10 g) = 0.329 mW/g

Maximum value of SAR (measured) = 0.531 mW/g



0 dB = 0.531mW/g

Additional information:

ambient temperature: 23.2°C; liquid temperature: 22.3°C

Date/Time: 2010-02-24 13:28:30 Date/Time: 2010-02-24 13:37:56

IEEE1528_OET65-LeftHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.616 mW/g

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

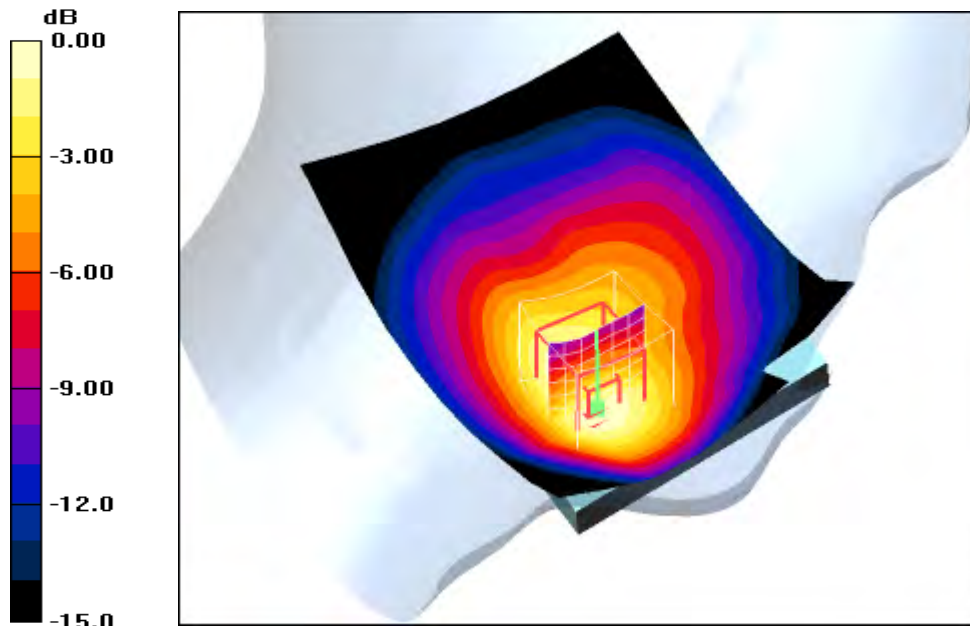
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.8 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.810 W/kg

SAR(1 g) = 0.576 mW/g; SAR(10 g) = 0.377 mW/g

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



0 dB = 0.608mW/g

Additional information:

ambient temperature: 23.2°C; liquid temperature: 22.3°C

Date/Time: 2010-02-24 13:55:27 Date/Time: 2010-02-24 14:06:15

IEEE1528_OET65-LeftHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.668 mW/g

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

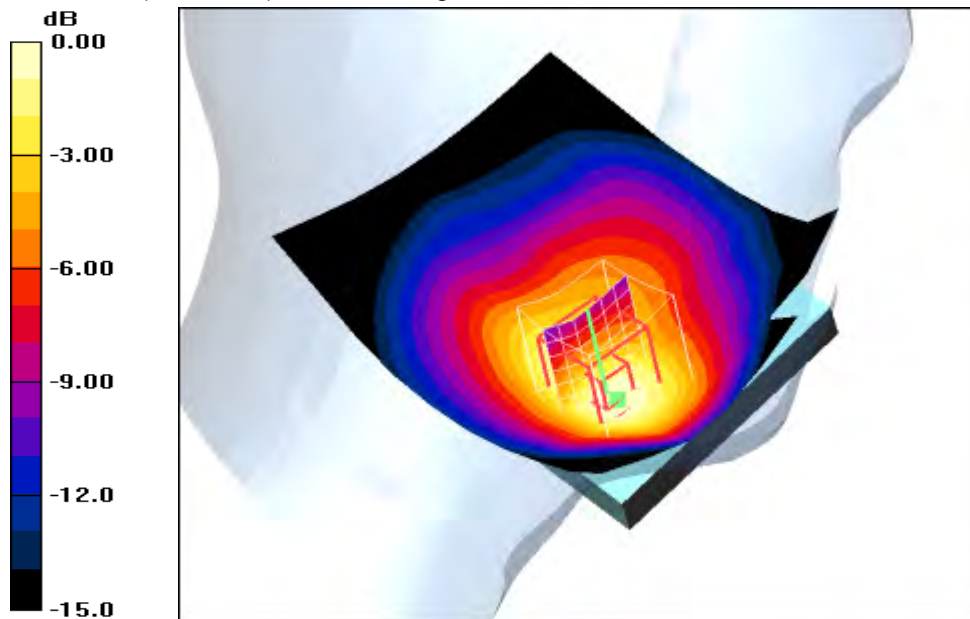
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.8 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.896 W/kg

SAR(1 g) = 0.636 mW/g; SAR(10 g) = 0.412 mW/g

Maximum value of SAR (measured) = 0.671 mW/g



0 dB = 0.671mW/g

Additional information:

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

ambient temperature: 23.2°C; liquid temperature: 22.3°C

Date/Time: 2010-02-24 15:23:57 Date/Time: 2010-02-24 15:32:56

IEEE1528_OET65-LeftHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

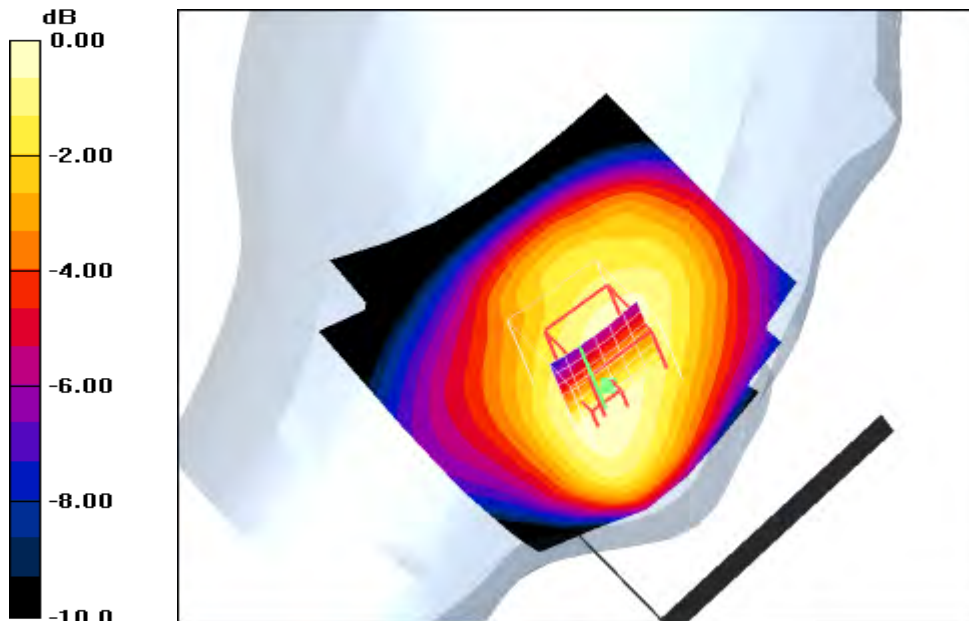
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.3 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.160 W/kg

SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.094 mW/g

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



0 dB = 0.131mW/g

Additional information:

ambient temperature: 23.2°C; liquid temperature: 22.3°C

Date/Time: 2010-02-24 14:49:11 Date/Time: 2010-02-24 14:58:10 Date/Time: 2010-02-24 15:10:02

IEEE1528_OET65-LeftHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

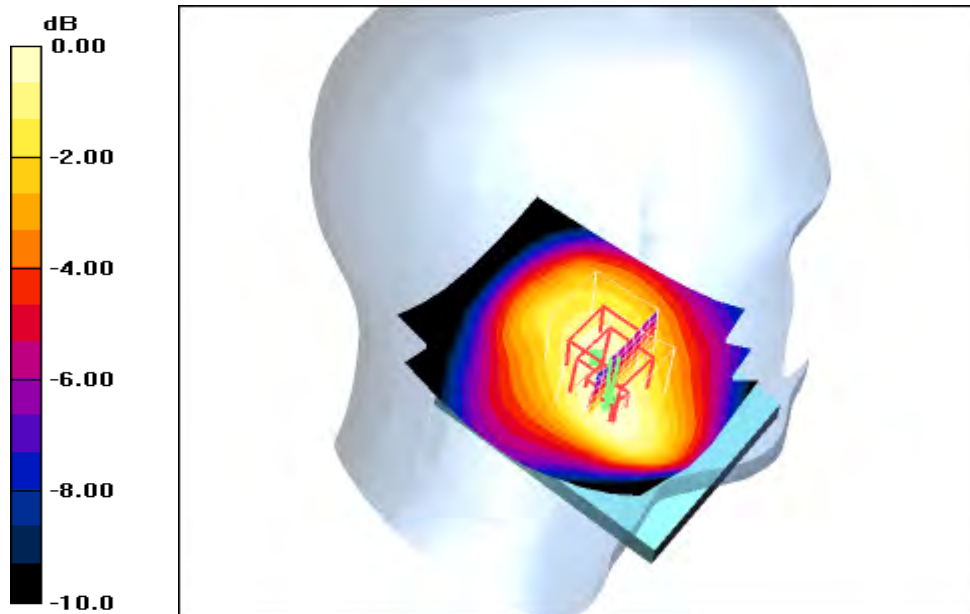
DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.150 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 13.4 V/m; Power Drift = -0.053 dB
 Peak SAR (extrapolated) = 0.190 W/kg
SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.110 mW/g
 Maximum value of SAR (measured) = 0.154 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 = 13.4 V/m; Power Drift = -0.053 dB
 Peak SAR (extrapolated) = 0.183 W/kg
SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.109 mW/g
 Maximum value of SAR (measured) = 0.152 mW/g



0 dB = 0.152mW/g

Additional information:

ambient temperature: 23.2°C; liquid temperature: 22.3°C

Date/Time: 2010-02-24 14:25:31 Date/Time: 2010-02-24 14:34:29

IEEE1528_OET65-LeftHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.153 mW/g

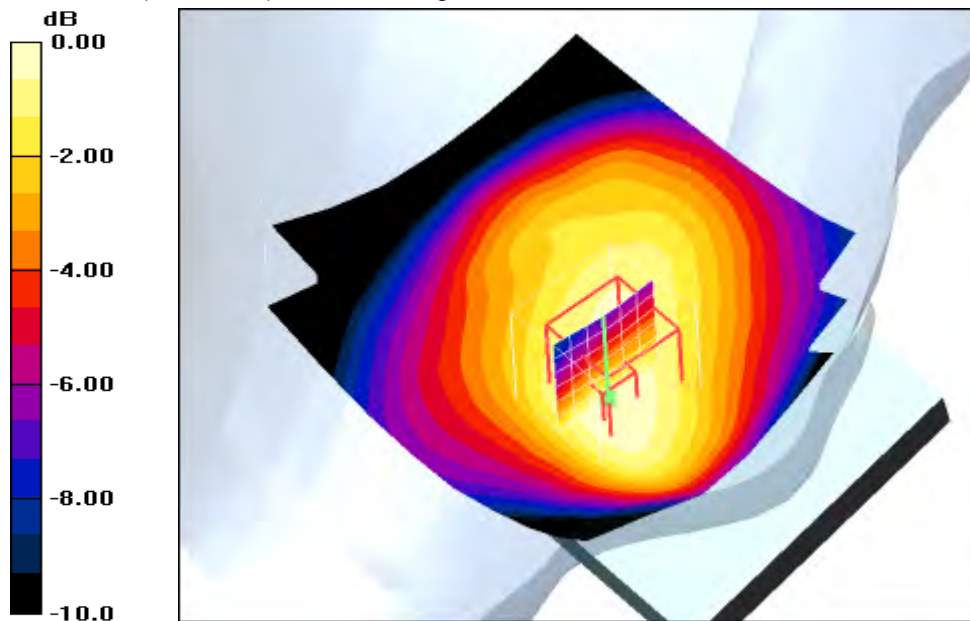
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.3 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 0.197 W/kg

SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.109 mW/g

Maximum value of SAR (measured) = 0.156 mW/g



0 dB = 0.156mW/g

Additional information:

ambient temperature: 23.2°C; liquid temperature: 22.3°C

Date/Time: 2010-02-24 20:16:54 Date/Time: 2010-02-24 20:23:40

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.555 mW/g

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

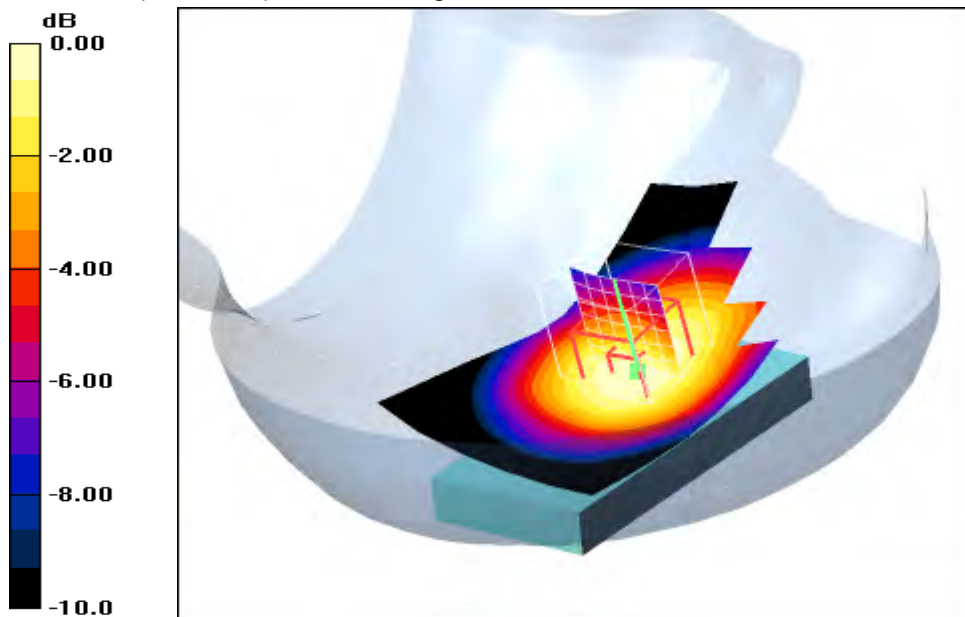
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.3 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 0.642 W/kg

SAR(1 g) = 0.515 mW/g; SAR(10 g) = 0.383 mW/g

Maximum value of SAR (measured) = 0.546 mW/g



0 dB = 0.546mW/g

Additional information:

ambient temperature: 23.7°C; liquid temperature: 22.9°C

Date/Time: 2010-02-24 19:54:21 Date/Time: 2010-02-24 20:00:54

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

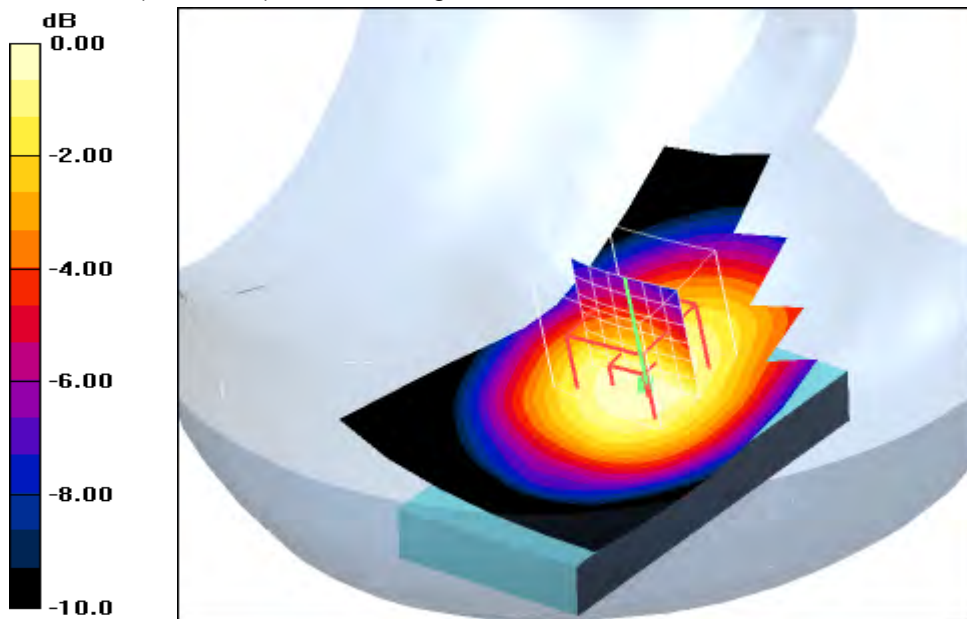
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.617 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 = 26.6 V/m; Power Drift = 0.017 dB
 Peak SAR (extrapolated) = 0.723 W/kg
SAR(1 g) = 0.578 mW/g; SAR(10 g) = 0.426 mW/g
 Maximum value of SAR (measured) = 0.611 mW/g



Additional information:
 ambient temperature: 23.7°C; liquid temperature: 22.9°C

Date/Time: 2010-02-24 18:57:16 Date/Time: 2010-02-24 19:09:26

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.609 mW/g

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

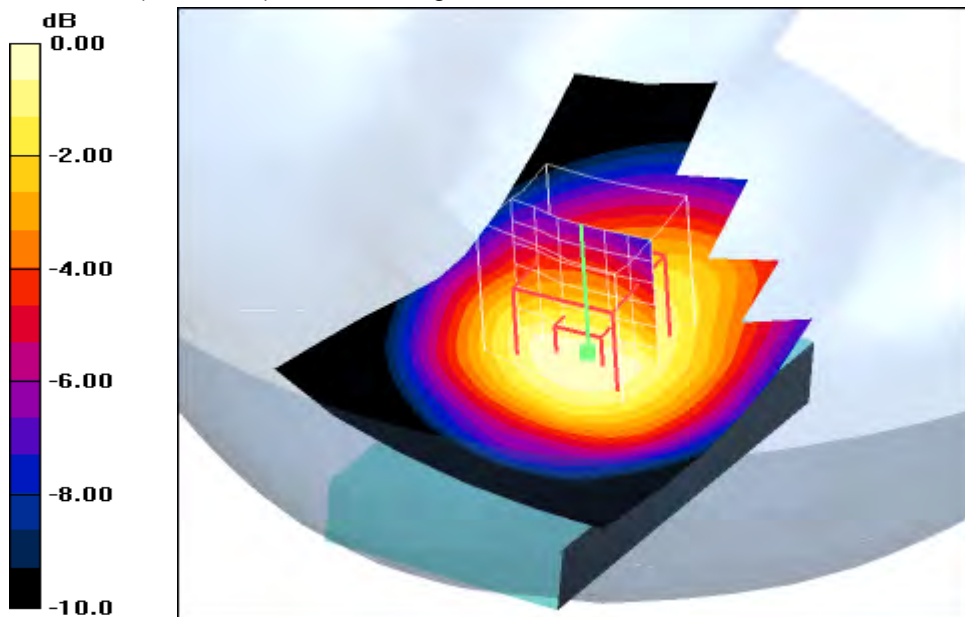
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.3 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.704 W/kg

SAR(1 g) = 0.566 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (measured) = 0.595 mW/g



0 dB = 0.595mW/g

Additional information:

ambient temperature: 23.7°C; liquid temperature: 22.9°C

Date/Time: 2010-02-24 17:14:13 Date/Time: 2010-02-24 17:21:52 Date/Time: 2010-02-24 17:34:02

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

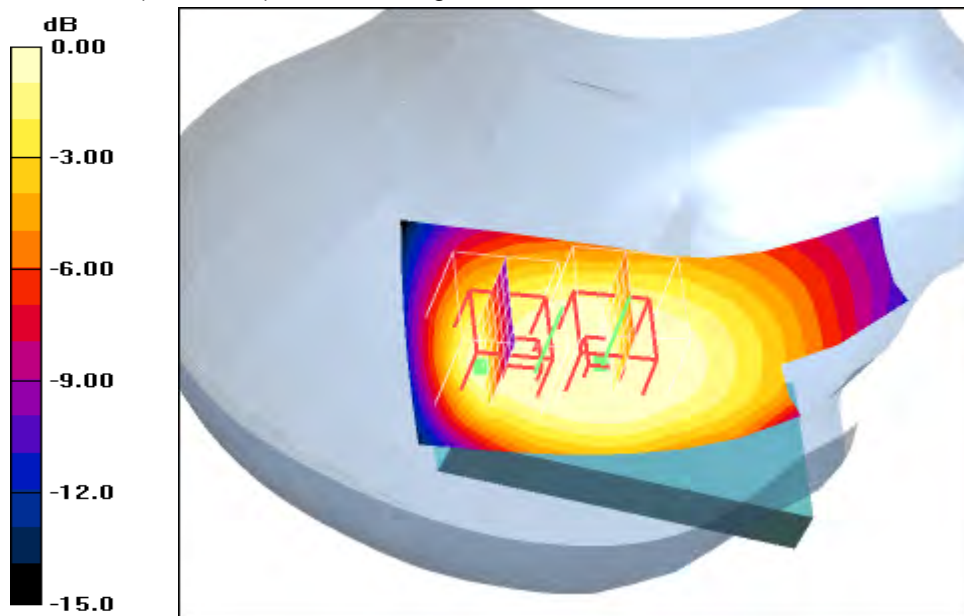
DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.304 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 18.6 V/m; Power Drift = -0.097 dB
 Peak SAR (extrapolated) = 0.366 W/kg
SAR(1 g) = 0.288 mW/g; SAR(10 g) = 0.213 mW/g
 Maximum value of SAR (measured) = 0.306 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 18.6 V/m; Power Drift = -0.097 dB
 Peak SAR (extrapolated) = 0.342 W/kg
SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.132 mW/g
 Maximum value of SAR (measured) = 0.233 mW/g



0 dB = 0.233mW/g

Additional information:

ambient temperature: 23.7°C; liquid temperature: 22.9°C

Date/Time: 2010-02-24 17:47:36 Date/Time: 2010-02-24 17:54:09 Date/Time: 2010-02-24 18:06:04

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

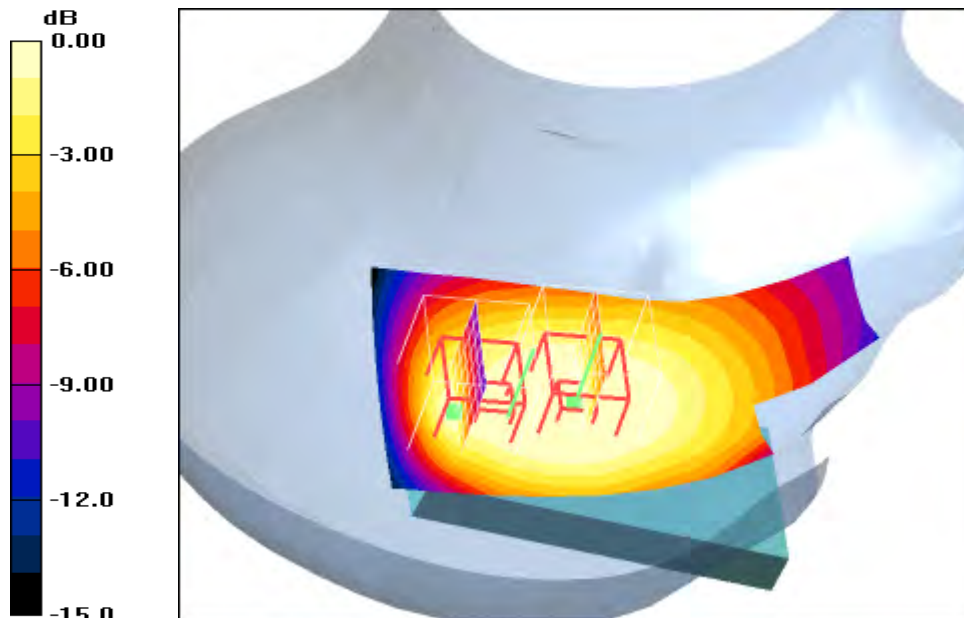
DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.344 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 = 19.8 V/m; Power Drift = -0.020 dB
 Peak SAR (extrapolated) = 0.415 W/kg
SAR(1 g) = 0.331 mW/g; SAR(10 g) = 0.245 mW/g
 Maximum value of SAR (measured) = 0.349 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 = 19.8 V/m; Power Drift = -0.020 dB
 Peak SAR (extrapolated) = 0.397 W/kg
SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.152 mW/g
 Maximum value of SAR (measured) = 0.272 mW/g



0 dB = 0.272mW/g

Additional information:

ambient temperature: 23.7°C; liquid temperature: 22.9°C

Date/Time: 2010-02-24 18:20:21 Date/Time: 2010-02-24 18:39:00 Date/Time: 2010-02-24 18:26:59

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.352 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 = 19.9 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.415 W/kg

SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.157 mW/g

Maximum value of SAR (measured) = 0.274 mW/g

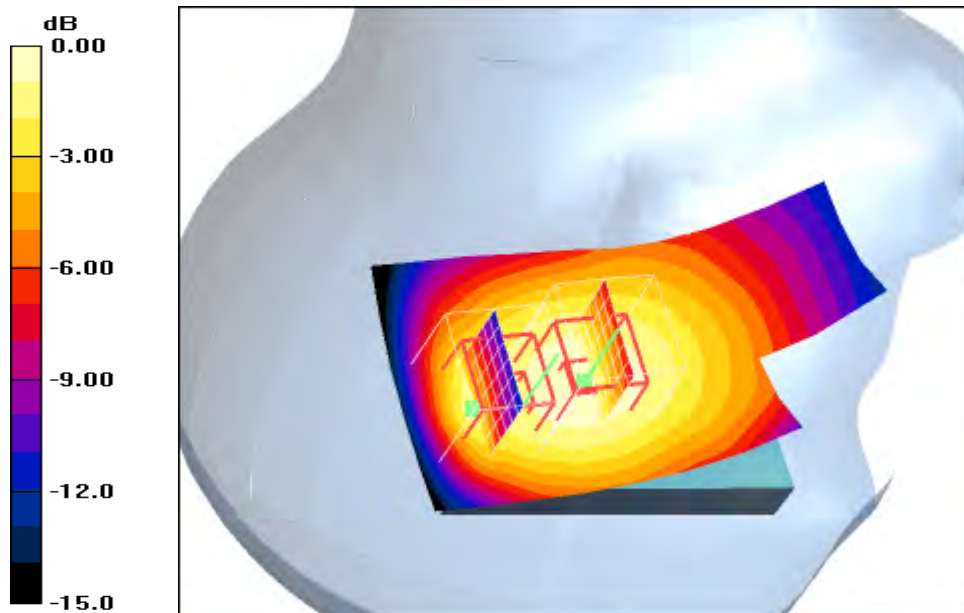
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.9 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.246 mW/g

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



0 dB = 0.357mW/g

Additional information:

ambient temperature: 23.7°C; liquid temperature: 22.9°C

Date/Time: 2010-02-24 20:42:45 Date/Time: 2010-02-24 20:50:58

IEEE1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.213 mW/g

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

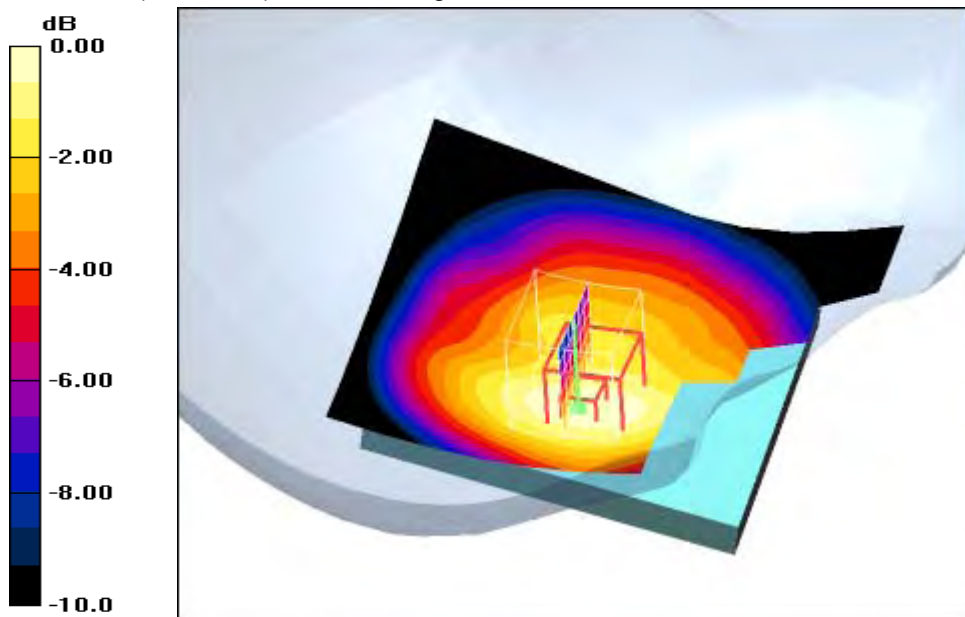
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.8 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 0.286 W/kg

SAR(1 g) = 0.196 mW/g; SAR(10 g) = 0.137 mW/g

Maximum value of SAR (measured) = 0.210 mW/g



0 dB = 0.210mW/g

Additional information:

ambient temperature: 23.4°C; liquid temperature: 22.5°C

Date/Time: 2010-02-24 21:07:20 Date/Time: 2010-02-24 21:15:32

IEEE1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.257 mW/g

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

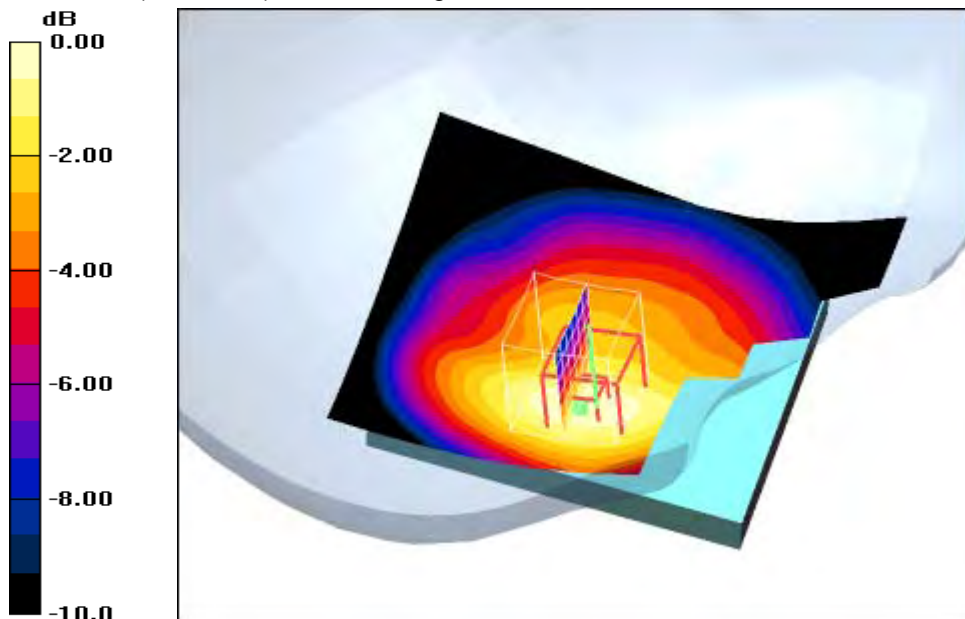
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.4 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.353 W/kg

SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.164 mW/g

Maximum value of SAR (measured) = 0.257 mW/g



0 dB = 0.257mW/g

Additional information:

ambient temperature: 23.4°C; liquid temperature: 22.5°C

Date/Time: 2010-02-24 21:31:20 Date/Time: 2010-02-24 21:39:43

IEEE1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.289 mW/g

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

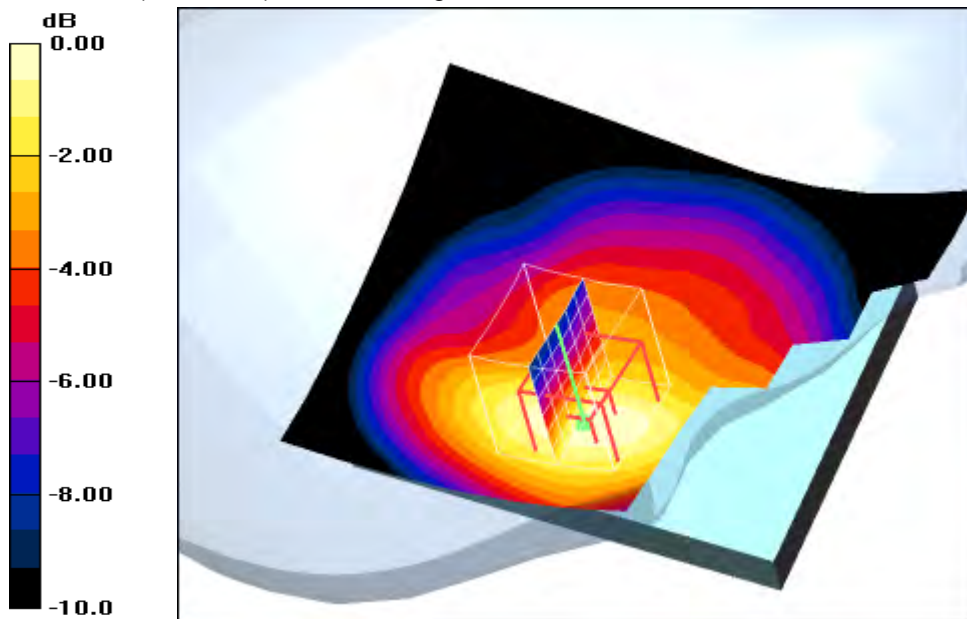
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.5 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.270 mW/g; SAR(10 g) = 0.182 mW/g

Maximum value of SAR (measured) = 0.292 mW/g



0 dB = 0.292mW/g

Additional information:

ambient temperature: 23.5°C; liquid temperature: 22.4°C

Date/Time: 2010-02-24 16:48:59 Date/Time: 2010-02-24 16:57:30

IEEE1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.133 mW/g

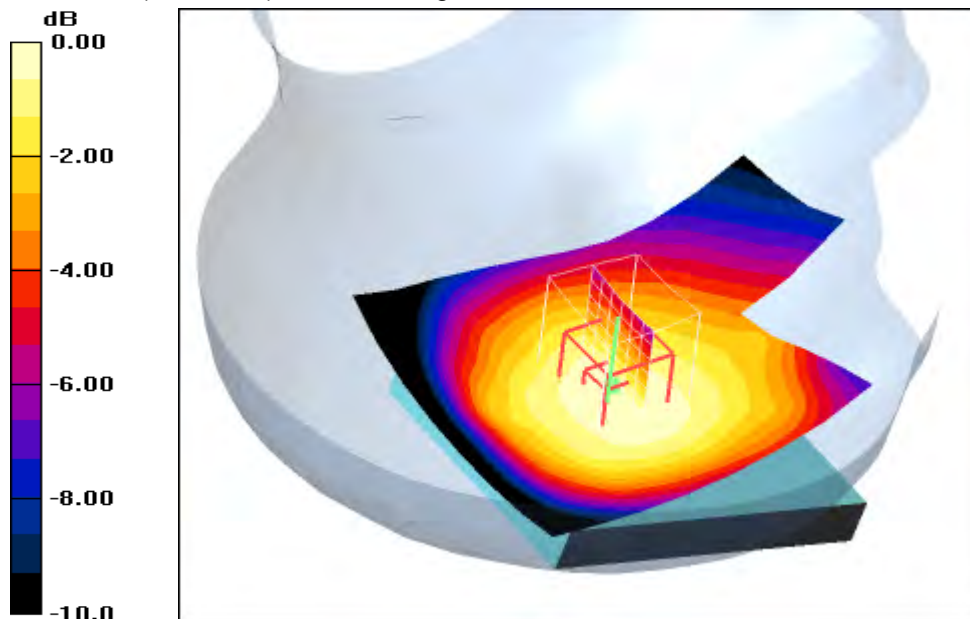
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.5 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 0.152 W/kg

SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.100 mW/g

Maximum value of SAR (measured) = 0.133 mW/g



Additional information:

ambient temperature: 23.5°C; liquid temperature: 22.8°C

Date/Time: 2010-02-24 16:26:33 Date/Time: 2010-02-24 16:35:04

IEEE1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.150 mW/g

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

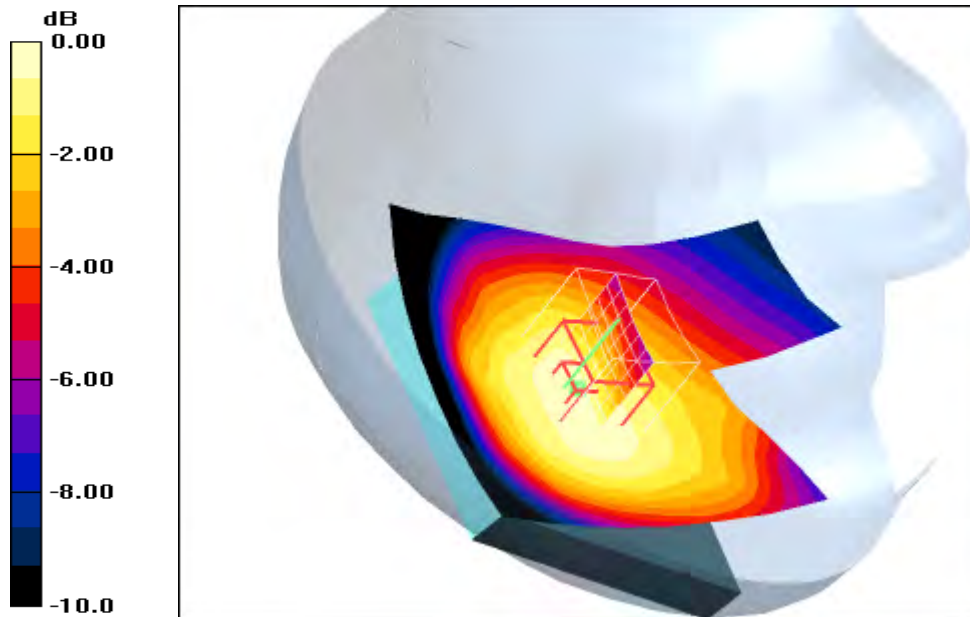
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.2 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.172 W/kg

SAR(1 g) = 0.144 mW/g; SAR(10 g) = 0.113 mW/g

Maximum value of SAR (measured) = 0.151 mW/g



0 dB = 0.151mW/g

Additional information:

ambient temperature: 23.5°C; liquid temperature: 22.8°C

Date/Time: 2010-02-24 16:02:01 Date/Time: 2010-02-24 16:11:12

IEEE1528_OET65-RightHandSide-GSM850 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

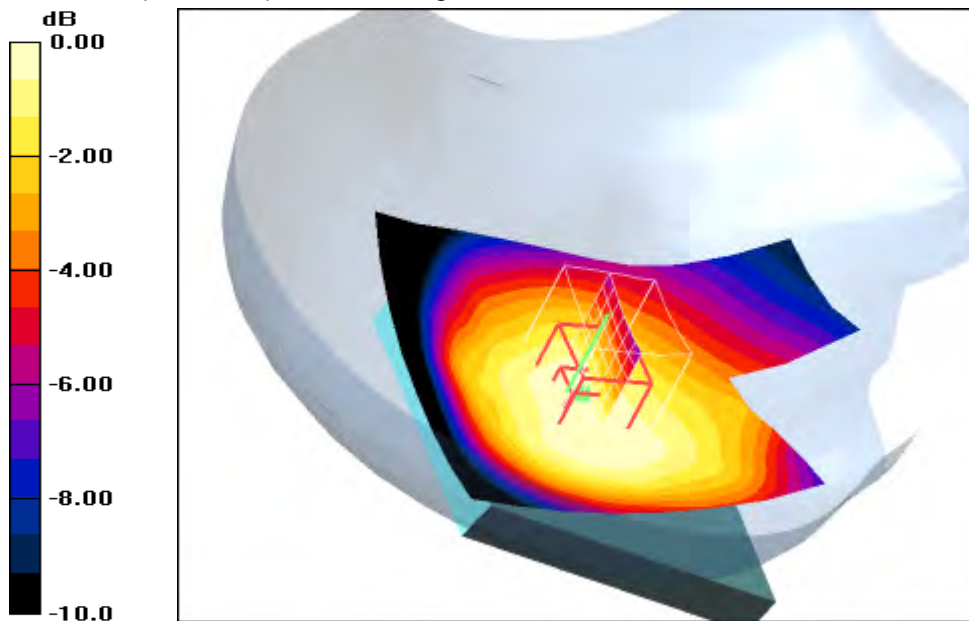
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.7 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.158 W/kg

SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.104 mW/g

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



Additional information:

ambient temperature: 23.5°C; liquid temperature: 22.8°C

Annex B.2: GSM 850 MHz body

Date/Time: 2010-02-22 07:22:55 Date/Time: 2010-02-22 07:29:44

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M850 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.370 mW/g

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

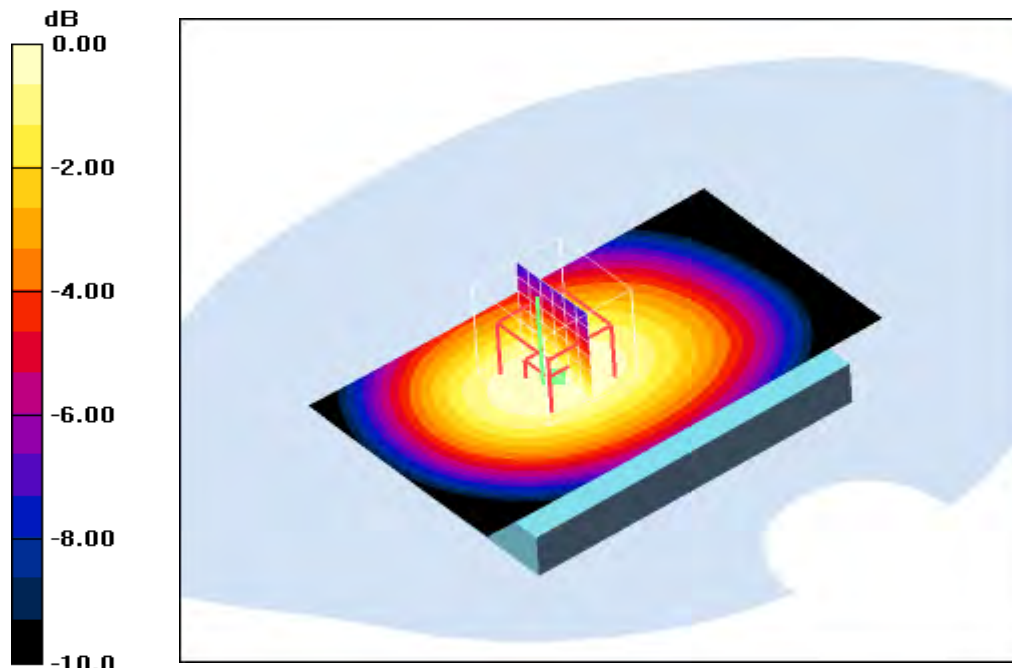
dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.2 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.429 W/kg

SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.259 mW/g

Maximum value of SAR (measured) = 0.365 mW/g



0 dB = 0.365mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 22.0°C; liquid temperature: 22.3°C

Date/Time: 2010-02-22 07:44:51 Date/Time: 2010-02-22 07:51:35

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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 (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.498 mW/g

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

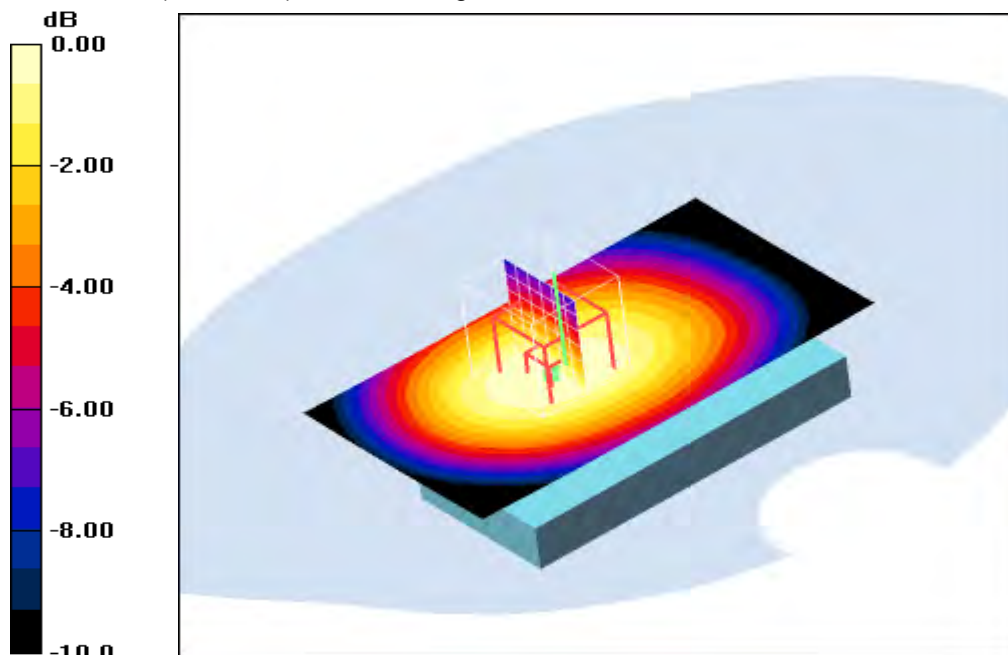
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.4 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.577 W/kg

SAR(1 g) = 0.468 mW/g; SAR(10 g) = 0.350 mW/g

Maximum value of SAR (measured) = 0.495 mW/g



0 dB = 0.495mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 22.0°C; liquid temperature: 22.3°C

Date/Time: 2010-02-22 08:06:32 Date/Time: 2010-02-22 08:13:05

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.596 mW/g

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

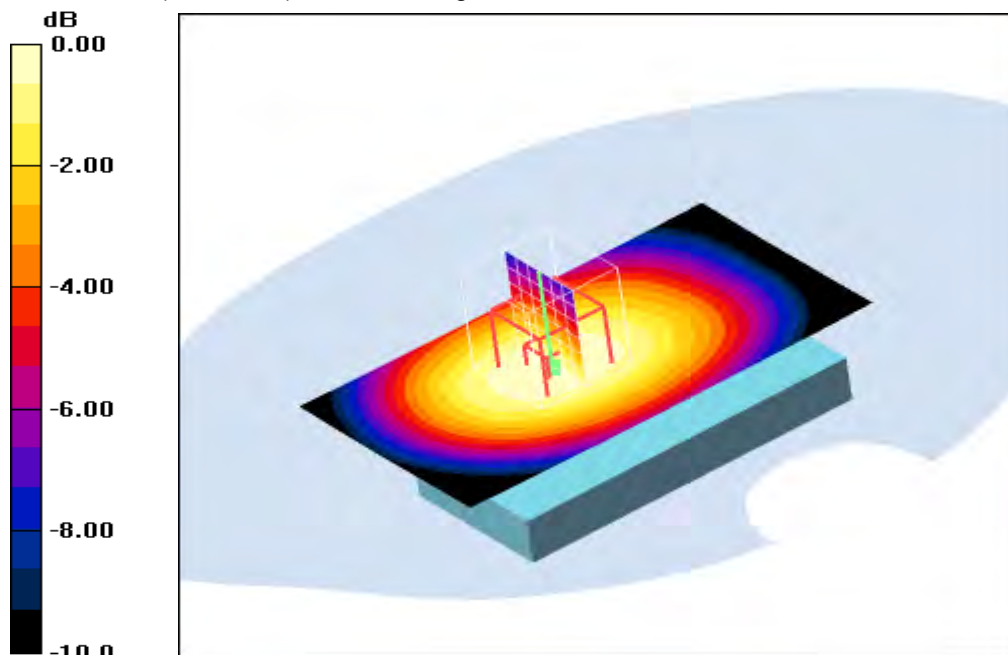
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.8 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.708 W/kg

SAR(1 g) = 0.566 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (measured) = 0.599 mW/g



0 dB = 0.599mW/g

Additional information:

position or distance of DUT to SAM: 15 mm

ambient temperature: 22.0°C; liquid temperature: 22.3°C

Date/Time: 2010-02-22 16:54:58 Date/Time: 2010-02-22 17:02:02

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.572 mW/g

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

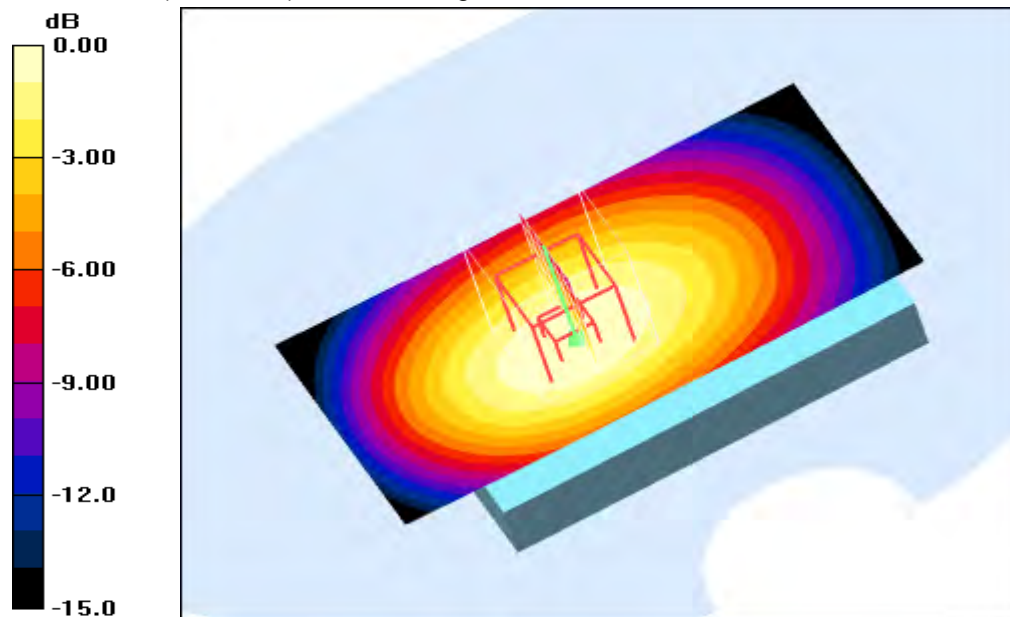
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.4 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.689 W/kg

SAR(1 g) = 0.537 mW/g; SAR(10 g) = 0.386 mW/g

Maximum value of SAR (measured) = 0.571 mW/g



0 dB = 0.571mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15mm distance

ambient temperature: 23.3°C; liquid temperature: 21.7°C

Date/Time: 2010-02-22 16:33:14 Date/Time: 2010-02-22 16:39:53

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

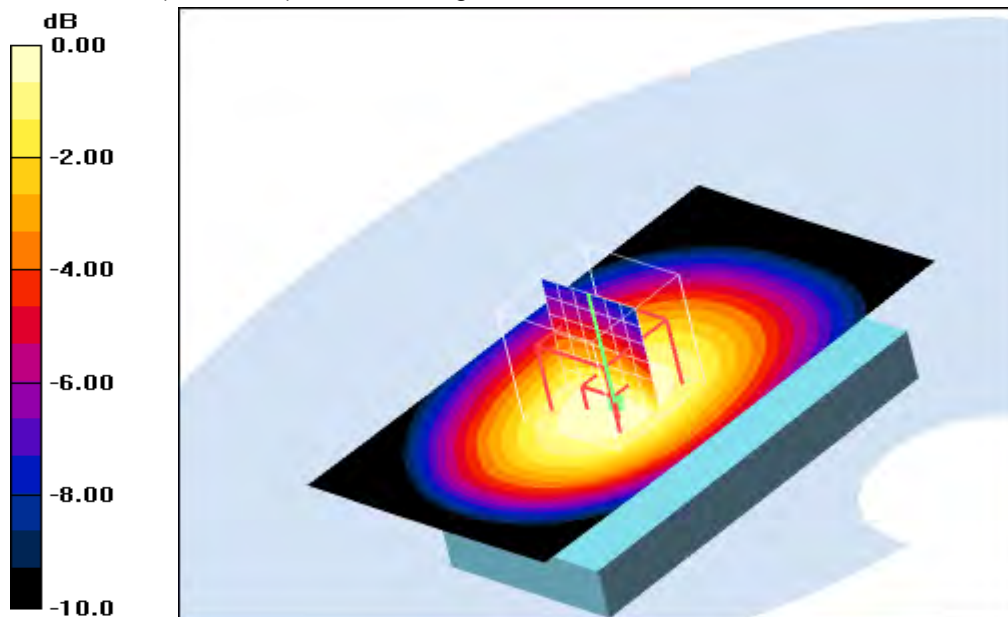
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.798 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 = 29.9 V/m; Power Drift = -0.021 dB
 Peak SAR (extrapolated) = 0.986 W/kg
SAR(1 g) = 0.751 mW/g; SAR(10 g) = 0.538 mW/g
 Maximum value of SAR (measured) = 0.793 mW/g



Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15mm distance
 ambient temperature: 23.3°C; liquid temperature: 21.7°C

Date/Time: 2010-02-22 16:10:30 Date/Time: 2010-02-22 16:17:15

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

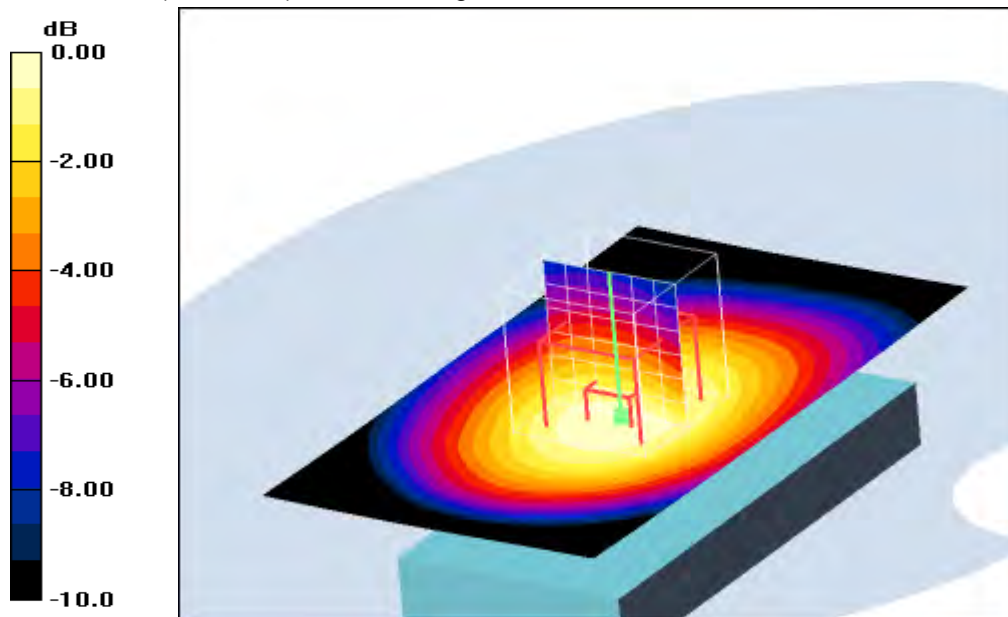
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.997 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 33.2 V/m; Power Drift = -0.011 dB
 Peak SAR (extrapolated) = 1.20 W/kg
SAR(1 g) = 0.923 mW/g; SAR(10 g) = 0.662 mW/g
 Maximum value of SAR (measured) = 0.987 mW/g



0 dB = 0.987mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15mm distance
 ambient temperature: 23.3°C; liquid temperature: 21.7°C

Date/Time: 2010-02-22 17:19:24 Date/Time: 2010-02-22 17:26:25

IEEE1528_OET65-Body-GSM850 GPRS 1TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

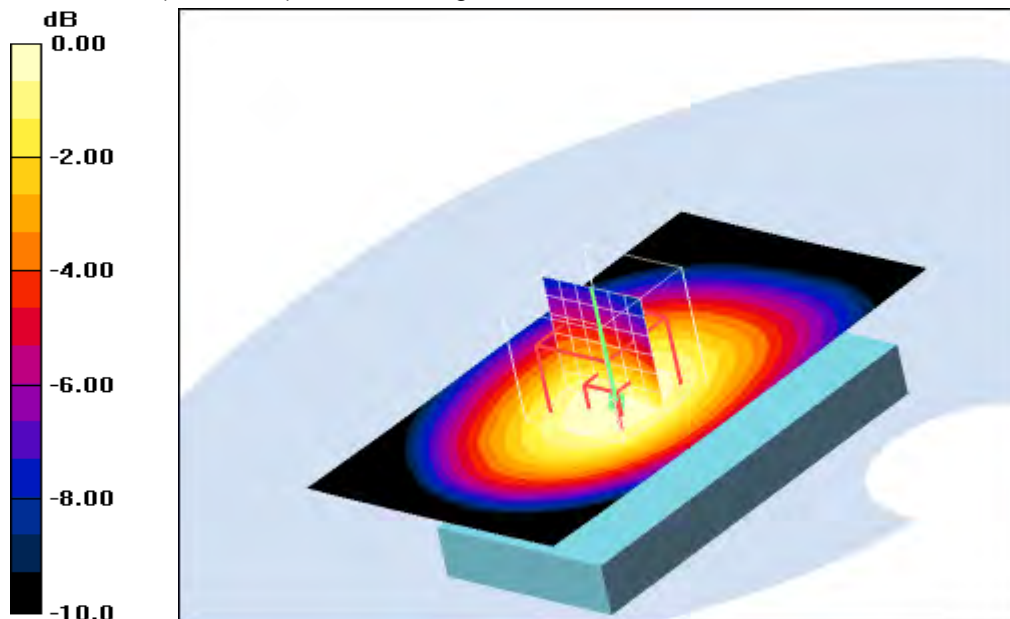
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.626 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 = 26.5 V/m; Power Drift = 0.010 dB
 Peak SAR (extrapolated) = 0.764 W/kg
SAR(1 g) = 0.585 mW/g; SAR(10 g) = 0.418 mW/g
 Maximum value of SAR (measured) = 0.625 mW/g



0 dB = 0.625mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15mm distance
 ambient temperature: 23.3°C; liquid temperature: 21.7°C

Annex B.3: GSM 1900 MHz head

Date/Time: 2010-02-28 11:24:12 Date/Time: 2010-02-28 11:30:43

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.885 mW/g

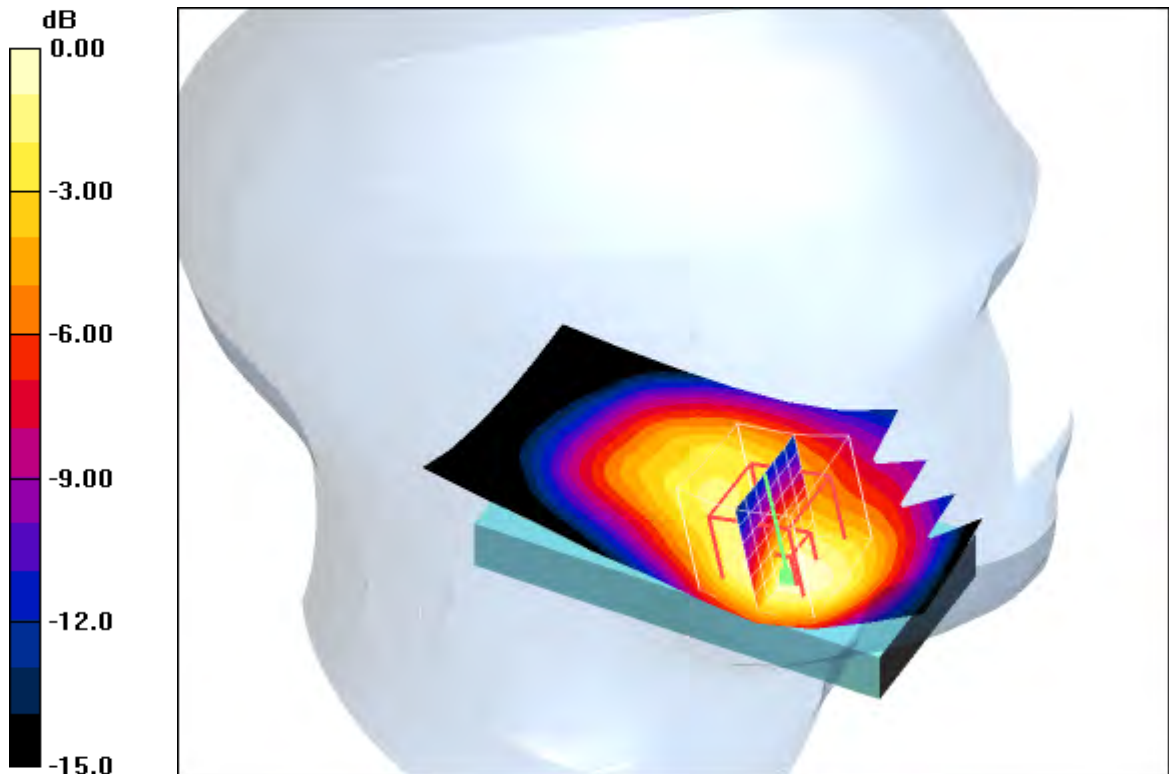
Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.8 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.828 mW/g; SAR(10 g) = 0.489 mW/g

Maximum value of SAR (measured) = 0.901 mW/g



0 dB = 0.901mW/g

Additional information:

ambient temperature: 22.0°C; liquid temperature: 21.1°C

Date/Time: 2010-02-28 11:03:10 Date/Time: 2010-02-28 11:10:08

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 1.06 mW/g

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

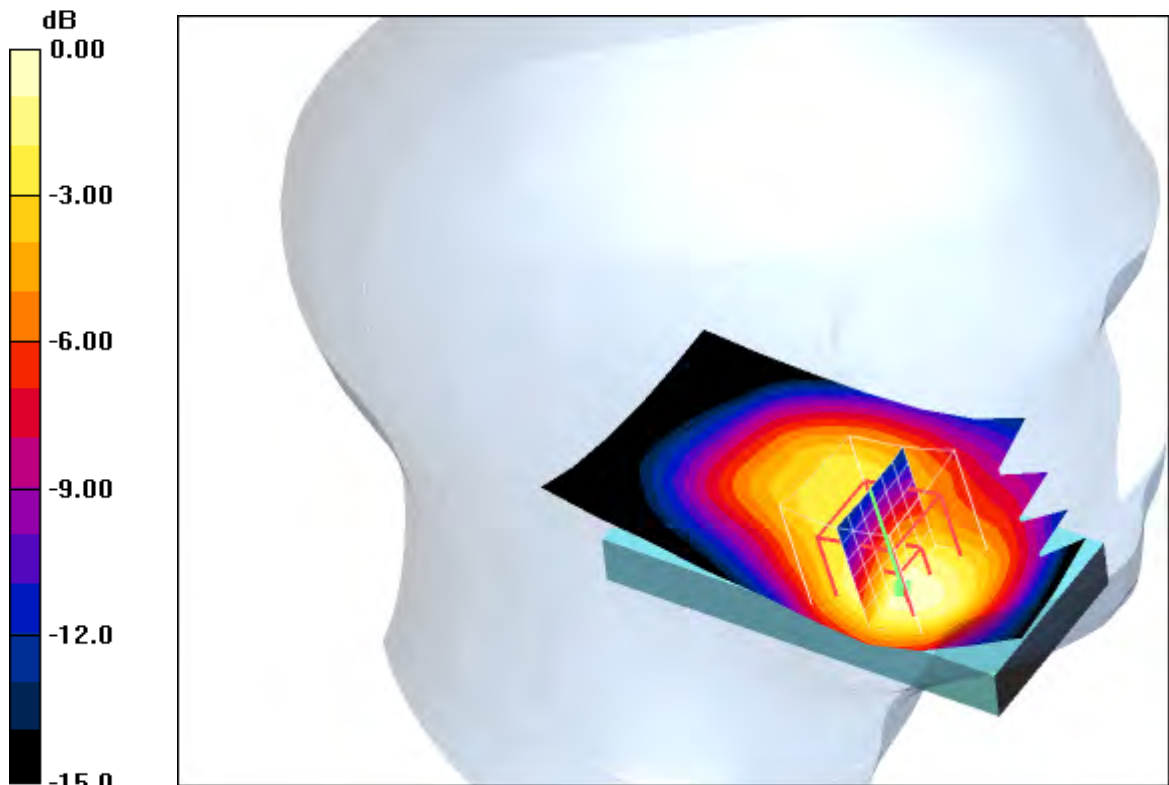
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.1 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.994 mW/g; SAR(10 g) = 0.580 mW/g

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



0 dB = 1.09mW/g

Additional information:

ambient temperature: 22.0°C; liquid temperature: 21.1°C

Date/Time: 2010-02-28 10:42:02 Date/Time: 2010-02-28 10:48:29

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

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

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

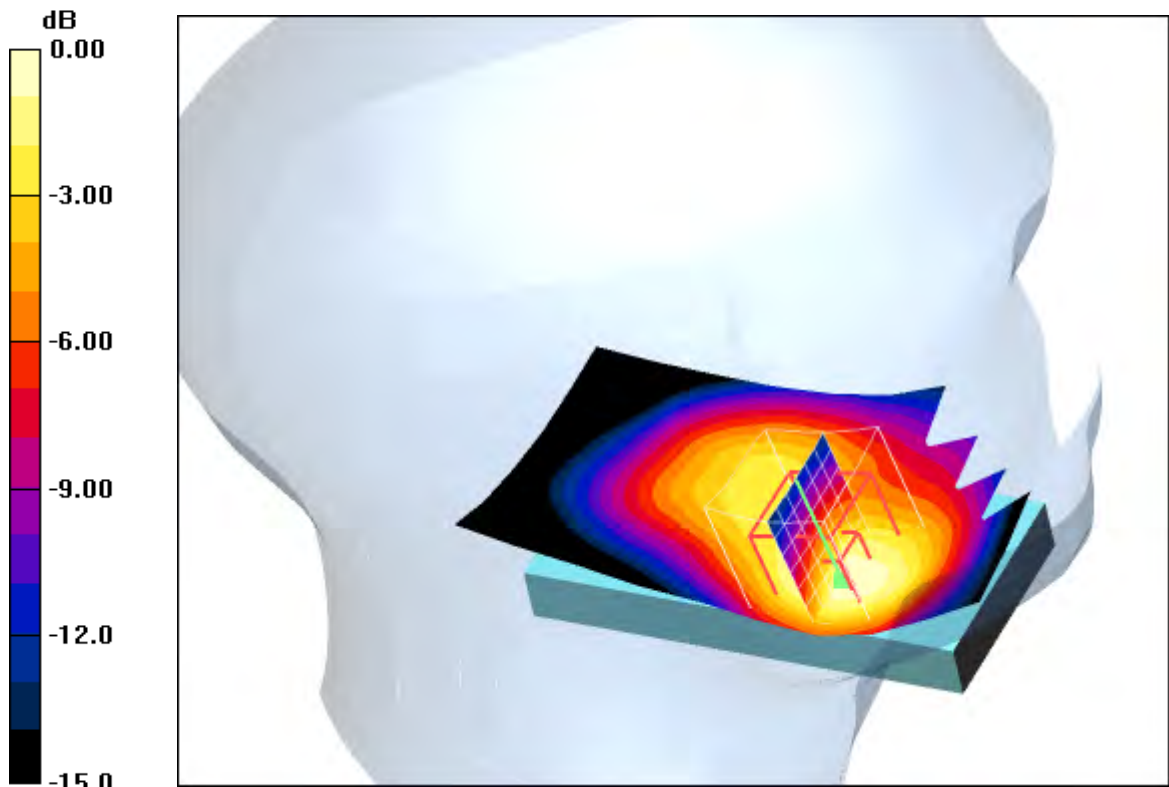
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.5 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.540 mW/g

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



0 dB = 1.01mW/g

Additional information:

ambient temperature: 22.0°C; liquid temperature: 21.1°C

Date/Time: 2010-02-28 11:46:15 Date/Time: 2010-02-28 11:52:56

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.408 mW/g

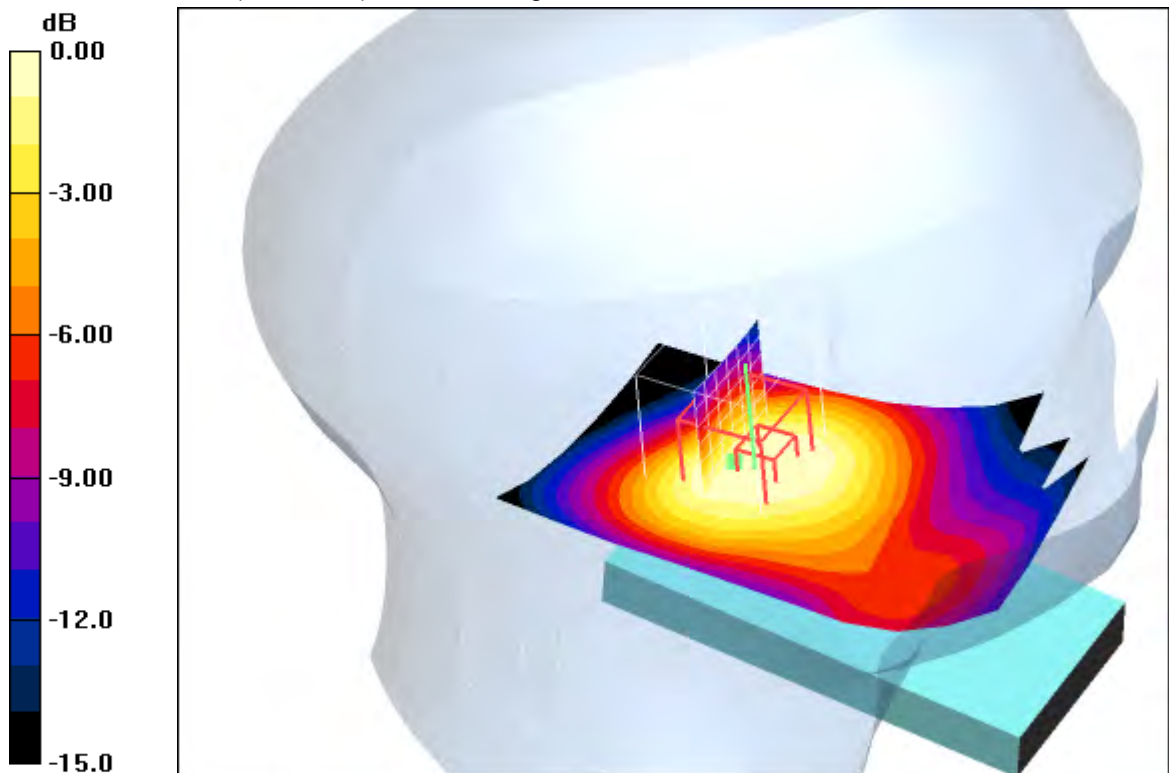
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.2 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.469 W/kg

SAR(1 g) = 0.346 mW/g; SAR(10 g) = 0.226 mW/g

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



0 dB = 0.369mW/g

Additional information:

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-02-28 12:06:22 Date/Time: 2010-02-28 12:13:04

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.510 mW/g

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

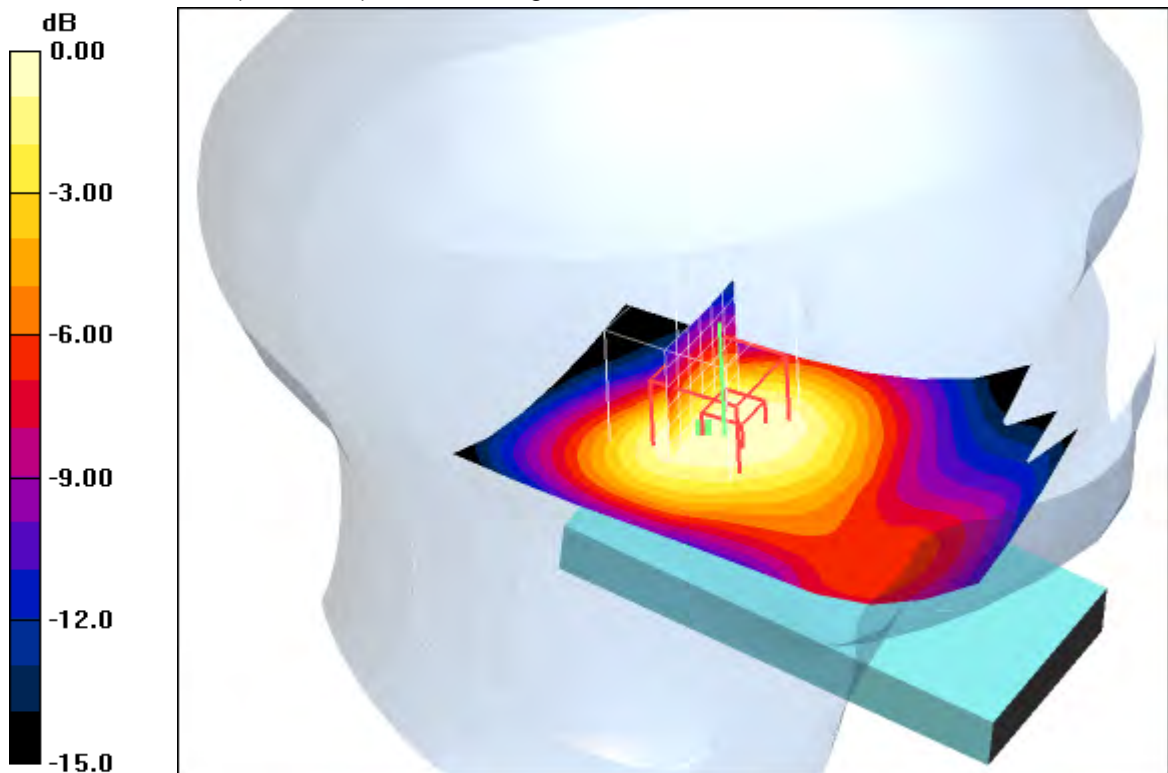
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.8 V/m; Power Drift = 0.072 dB

Peak SAR (extrapolated) = 0.585 W/kg

SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.281 mW/g

Maximum value of SAR (measured) = 0.458 mW/g



0 dB = 0.458mW/g

Additional information:

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-02-28 12:26:19 Date/Time: 2010-02-28 12:33:02

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.487 mW/g

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

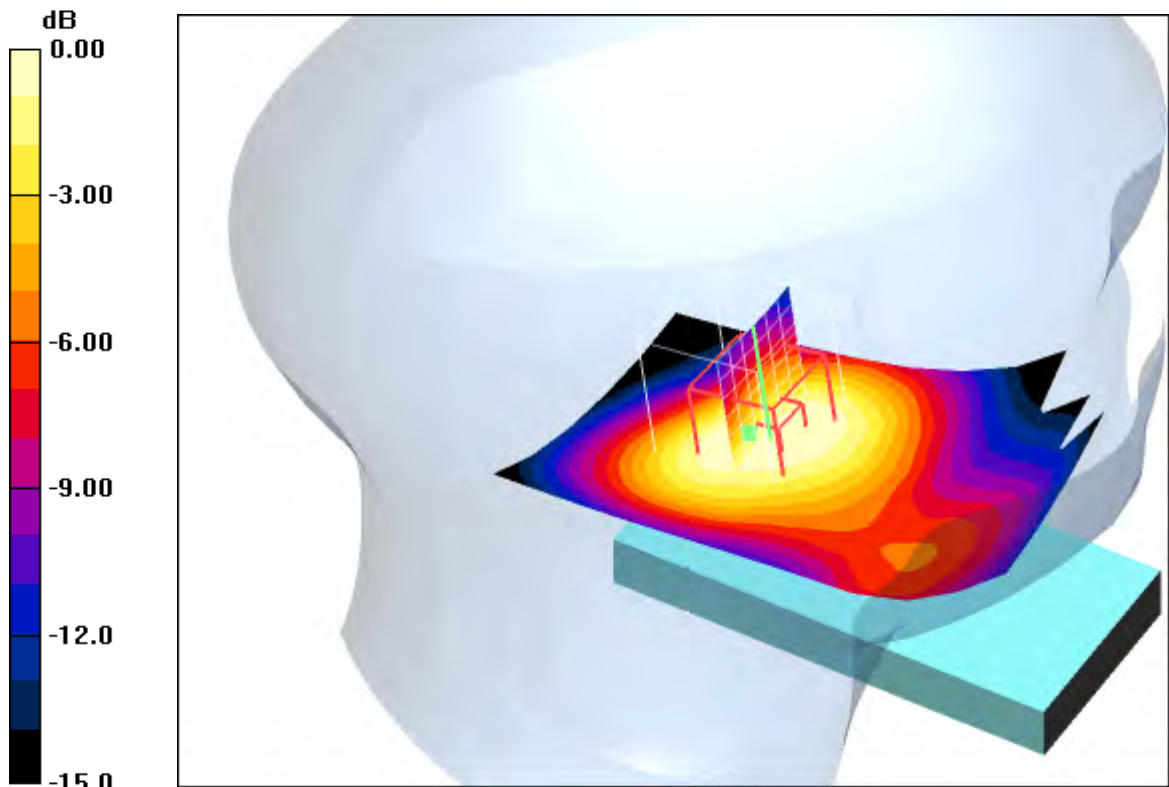
$dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.2 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.556 W/kg

SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.260 mW/g

Maximum value of SAR (measured) = 0.426 mW/g



0 dB = 0.426mW/g

Additional information:

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-02-27 17:03:54 Date/Time: 2010-02-27 17:16:39

IEEE1528_OET65-LeftHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEf

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.13 mW/g

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

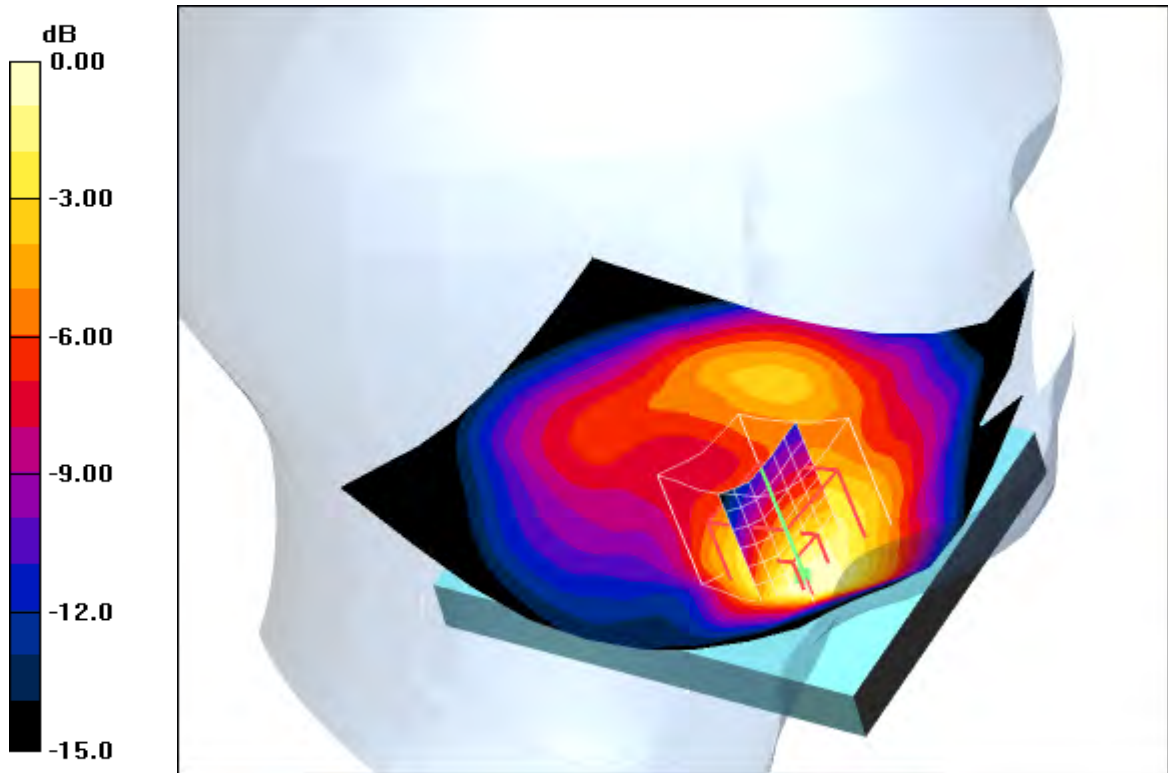
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.2 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.944 mW/g; SAR(10 g) = 0.575 mW/g

Maximum value of SAR (measured) = 1.03 mW/g



0 dB = 1.03mW/g

Additional information:

ambient temperature: 22.6°C; liquid temperature: 21.3°C

Date/Time: 2010-02-27 16:36:50 Date/Time: 2010-02-27 16:46:58

IEEE1528_OET65-LeftHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

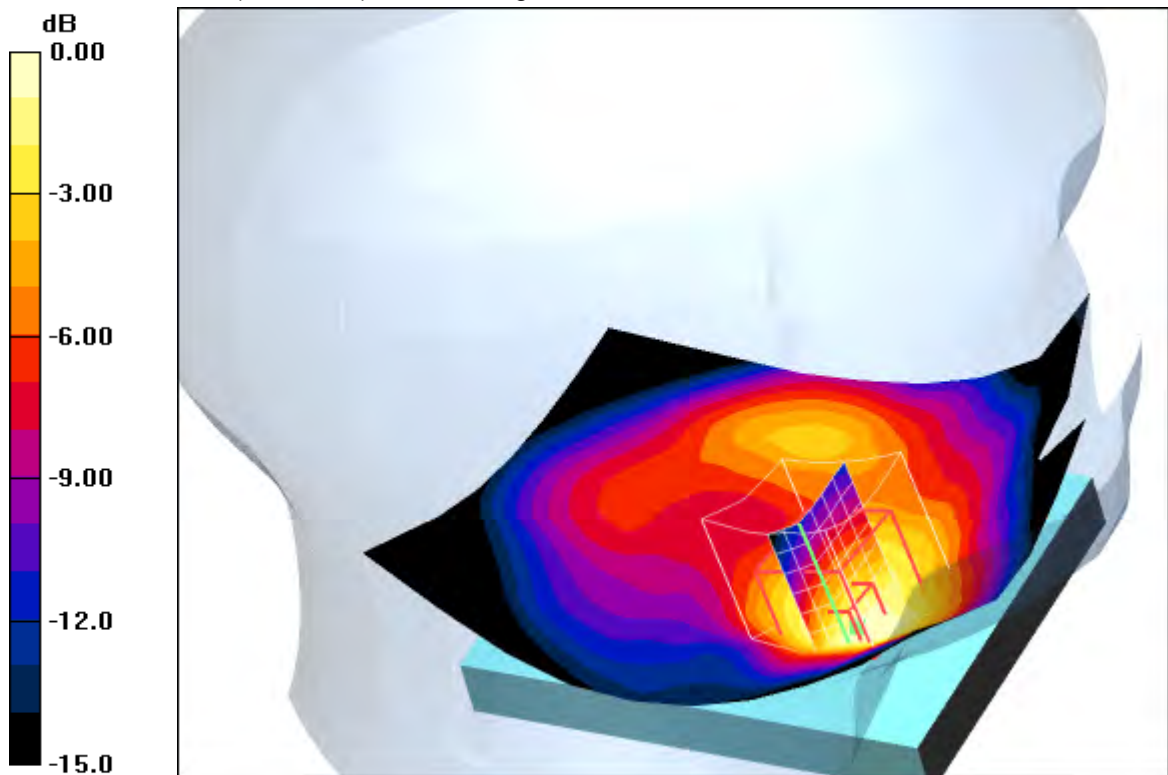
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.7 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.992 mW/g; SAR(10 g) = 0.594 mW/g

Maximum value of SAR (measured) = 1.08 mW/g



0 dB = 1.08mW/g

Additional information:

ambient temperature: 22.6°C; liquid temperature: 21.3°C

Date/Time: 2010-02-27 16:12:20 Date/Time: 2010-02-27 16:21:43

IEEE1528_OET65-LeftHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.22 mW/g

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

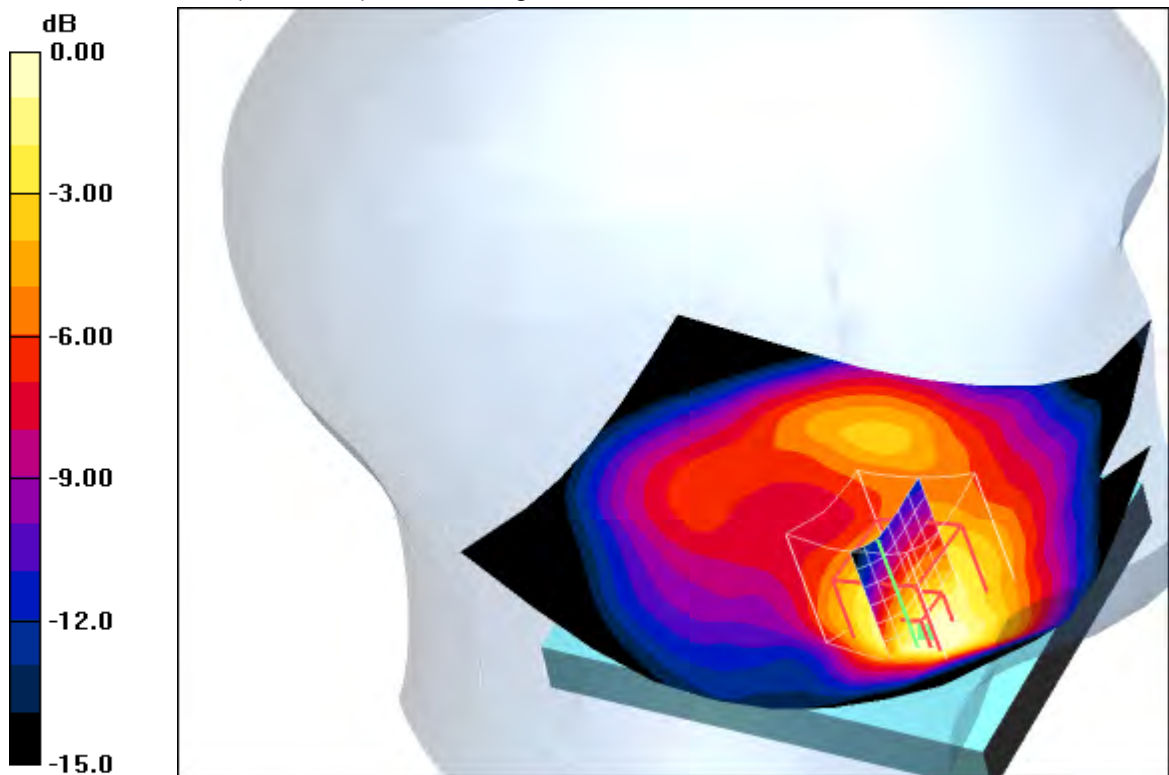
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.6 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.609 mW/g

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



0 dB = 1.12mW/g

Additional information:

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

ambient temperature: 22.6°C; liquid temperature: 21.3°C

Date/Time: 2010-02-27 17:37:40 Date/Time: 2010-02-27 17:46:41 Date/Time: 2010-02-27 17:59:15

IEEE1528_OET65-LeftHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXE

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.312 mW/g

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

Reference Value = 15.6 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.425 W/kg

SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.171 mW/g

Maximum value of SAR (measured) = 0.305 mW/g

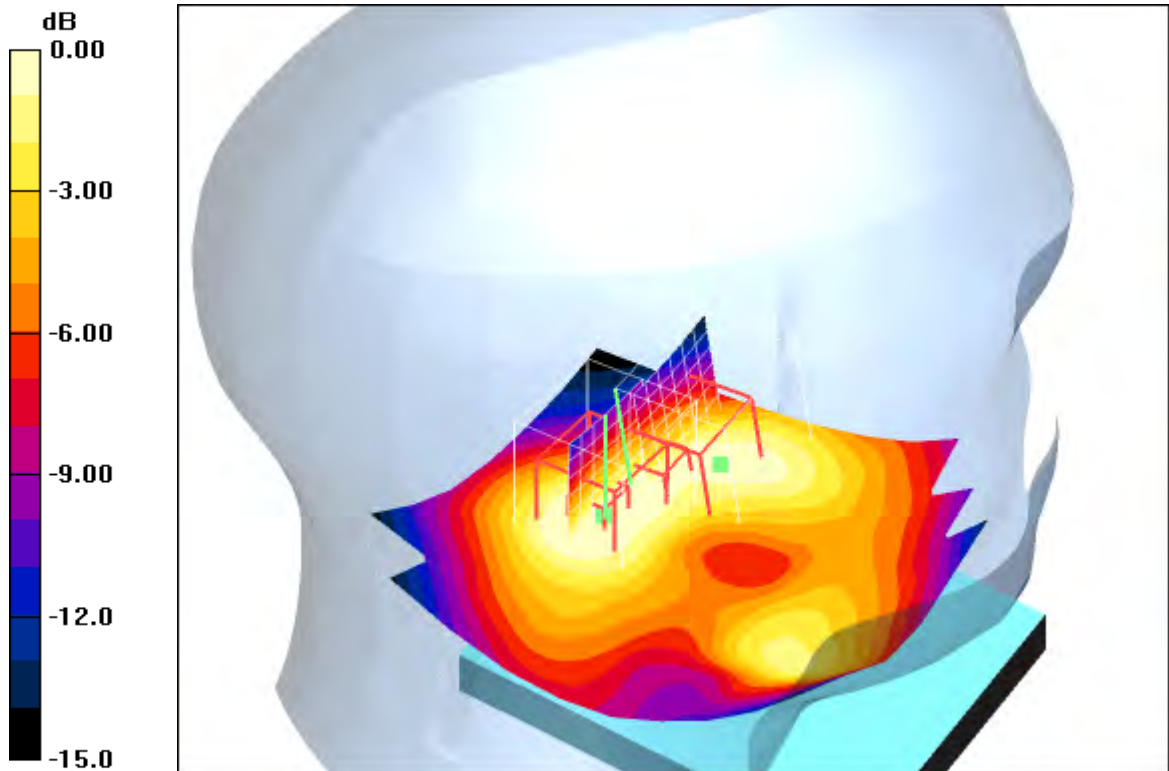
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.6 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.329 W/kg

SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.137 mW/g

Maximum value of SAR (measured) = 0.247 mW/g



0 dB = 0.247mW/g

Additional information:

ambient temperature: 22.6°C; liquid temperature: 21.3°C

Date/Time: 2010-02-27 18:12:32 Date/Time: 2010-02-27 18:21:34 Date/Time: 2010-02-27 18:33:39

IEEE1528_OET65-LeftHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEf

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

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

Reference Value = 15.5 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.426 W/kg

SAR(1 g) = 0.277 mW/g; SAR(10 g) = 0.166 mW/g

Maximum value of SAR (measured) = 0.306 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

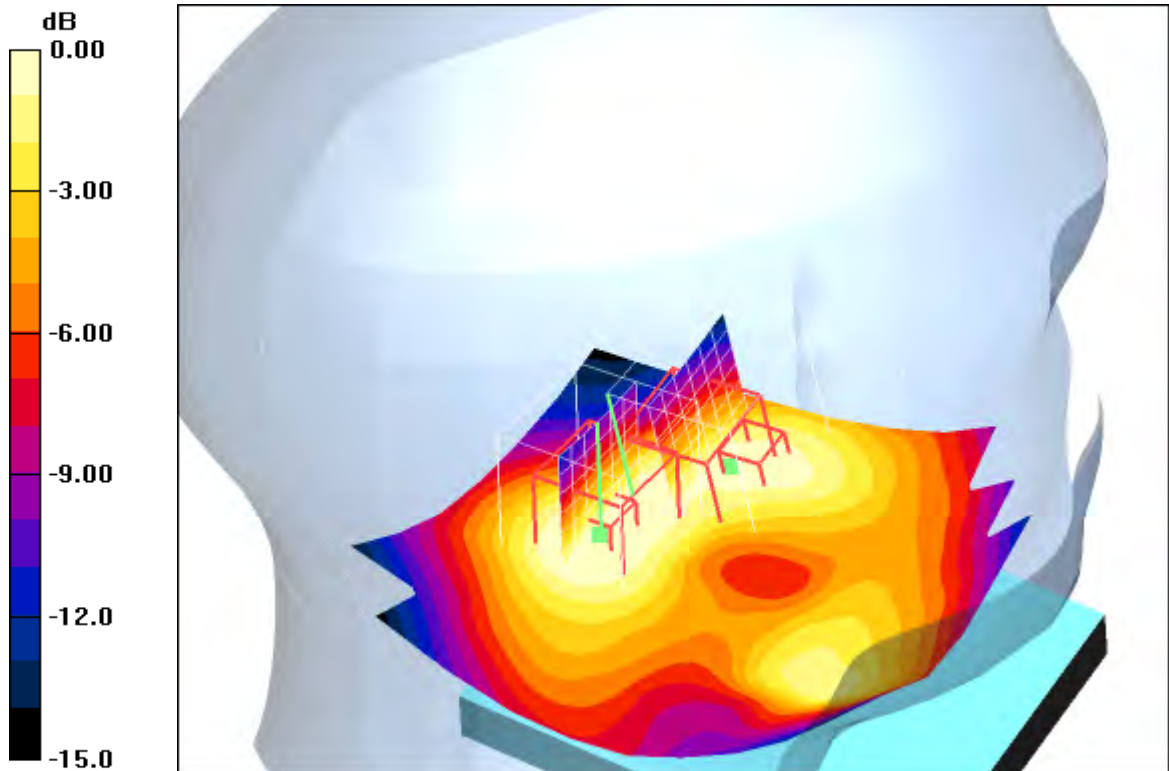
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.5 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.323 W/kg

SAR(1 g) = 0.205 mW/g; SAR(10 g) = 0.132 mW/g

Maximum value of SAR (measured) = 0.237 mW/g



0 dB = 0.237mW/g

Additional information:

ambient temperature: 22.6°C; liquid temperature: 21.3°C

Date/Time: 2010-02-27 18:48:29 Date/Time: 2010-02-27 18:57:40 Date/Time: 2010-02-27 19:10:02

IEEE1528_OET65-LeftHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEf

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.313 mW/g

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

Reference Value = 15.4 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.440 W/kg

SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.166 mW/g

Maximum value of SAR (measured) = 0.309 mW/g

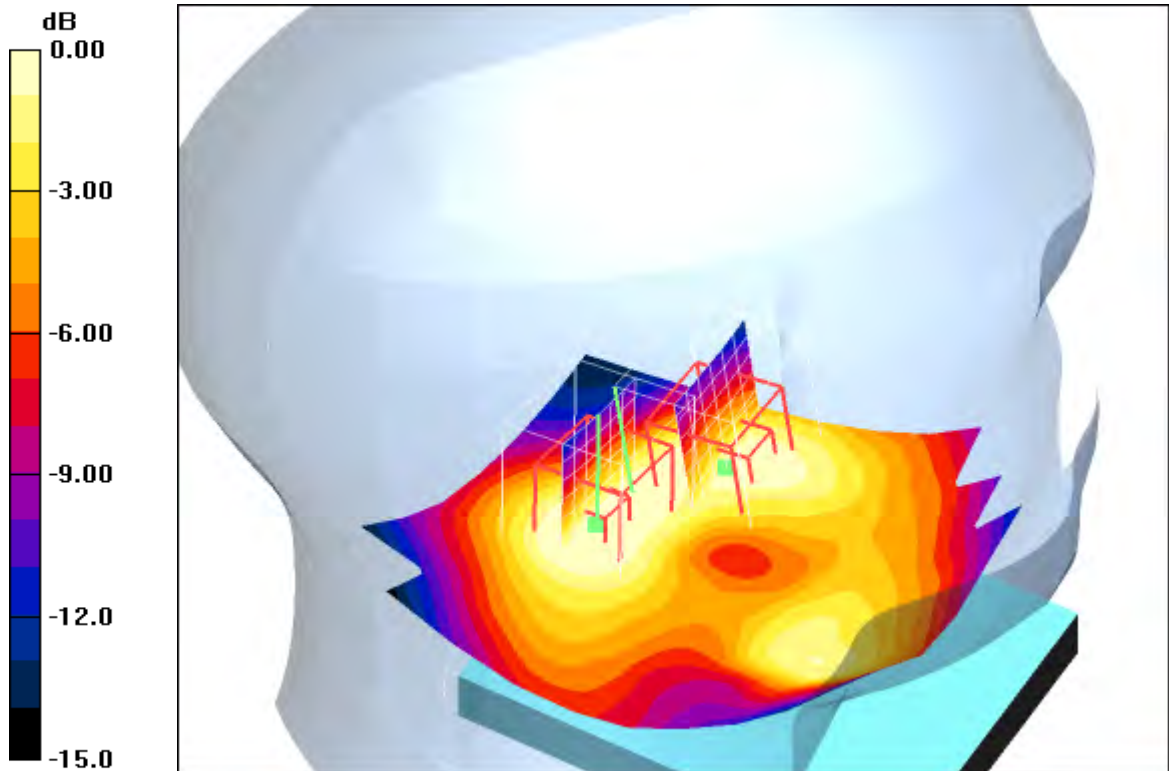
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.4 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.318 W/kg

SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.134 mW/g

Maximum value of SAR (measured) = 0.236 mW/g



0 dB = 0.236mW/g

Additional information:

ambient temperature: 22.6°C; liquid temperature: 21.3°C

Date/Time: 2010-02-27 10:05:56 Date/Time: 2010-02-27 10:12:23

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.561 mW/g

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

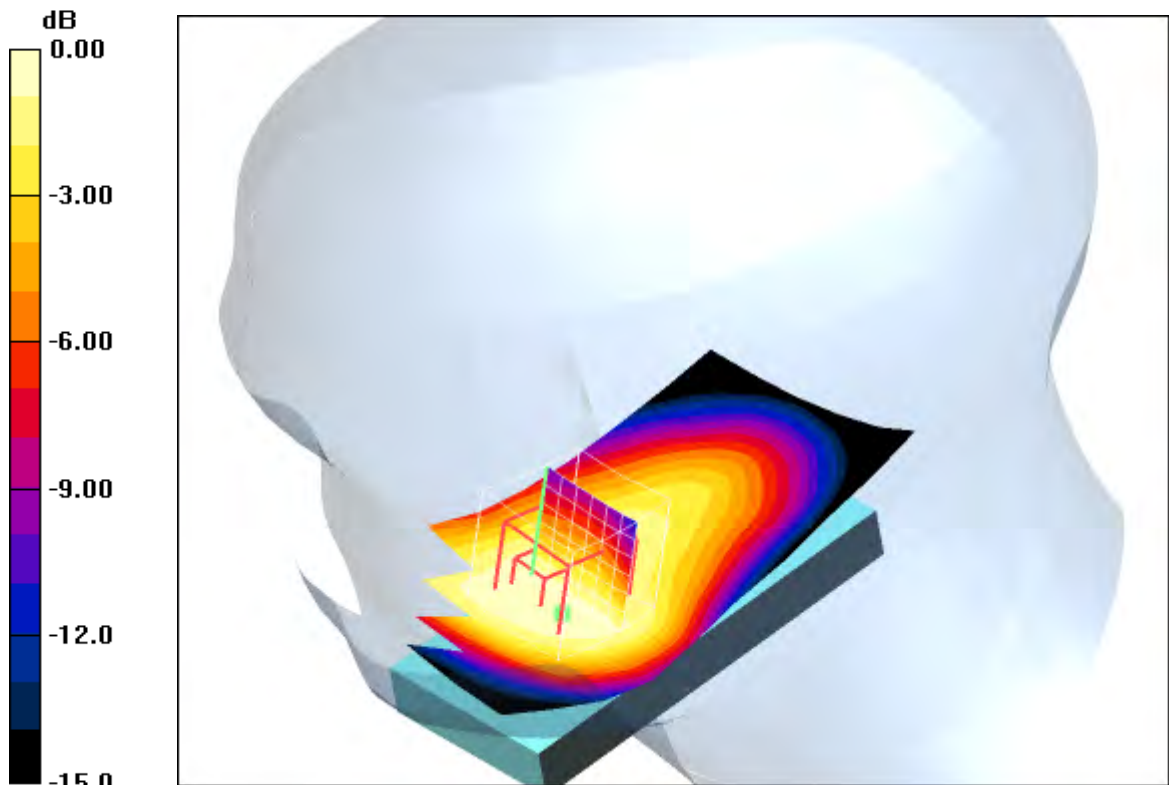
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.5 V/m; Power Drift = 0.049 dB

Peak SAR (extrapolated) = 0.740 W/kg

SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.363 mW/g

Maximum value of SAR (measured) = 0.571 mW/g



0 dB = 0.571mW/g

Additional information:

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

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

Date/Time: 2010-02-27 09:41:39 Date/Time: 2010-02-27 09:49:40

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.668 mW/g

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

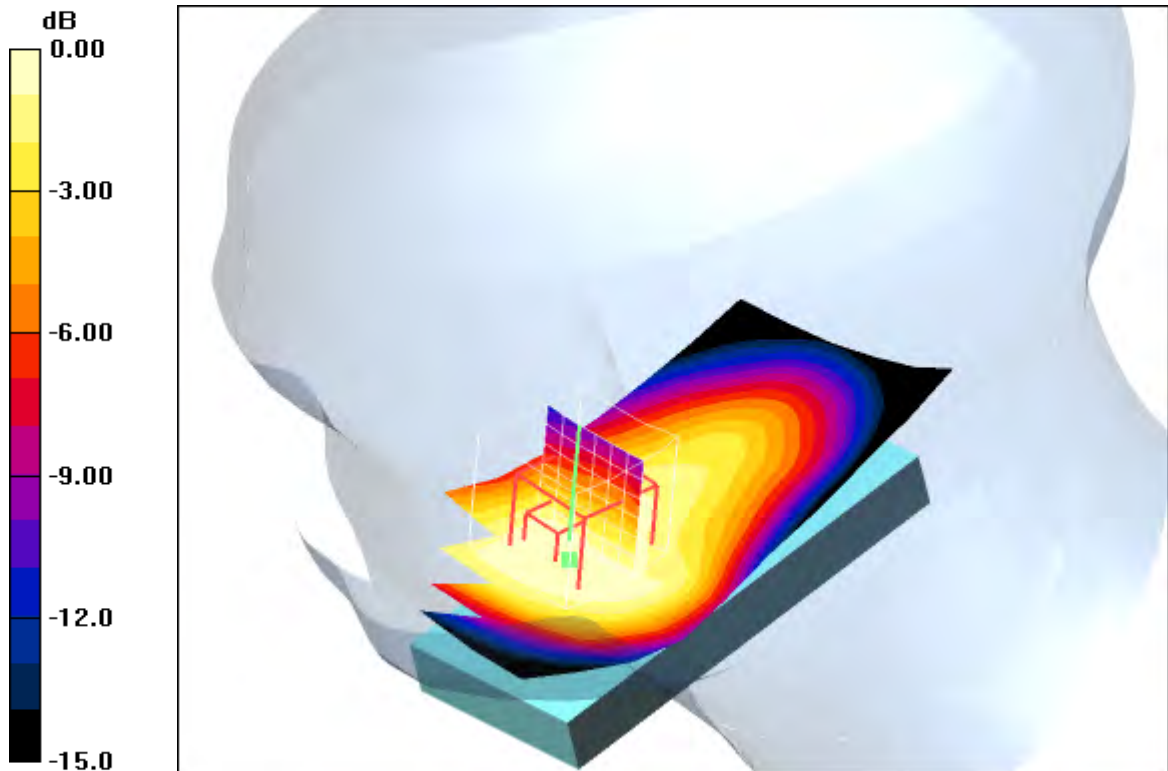
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.6 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.908 W/kg

SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.434 mW/g

Maximum value of SAR (measured) = 0.685 mW/g



0 dB = 0.685mW/g

Additional information:

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

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

Date/Time: 2010-02-27 10:28:15 Date/Time: 2010-02-27 10:34:54

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.633 mW/g

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

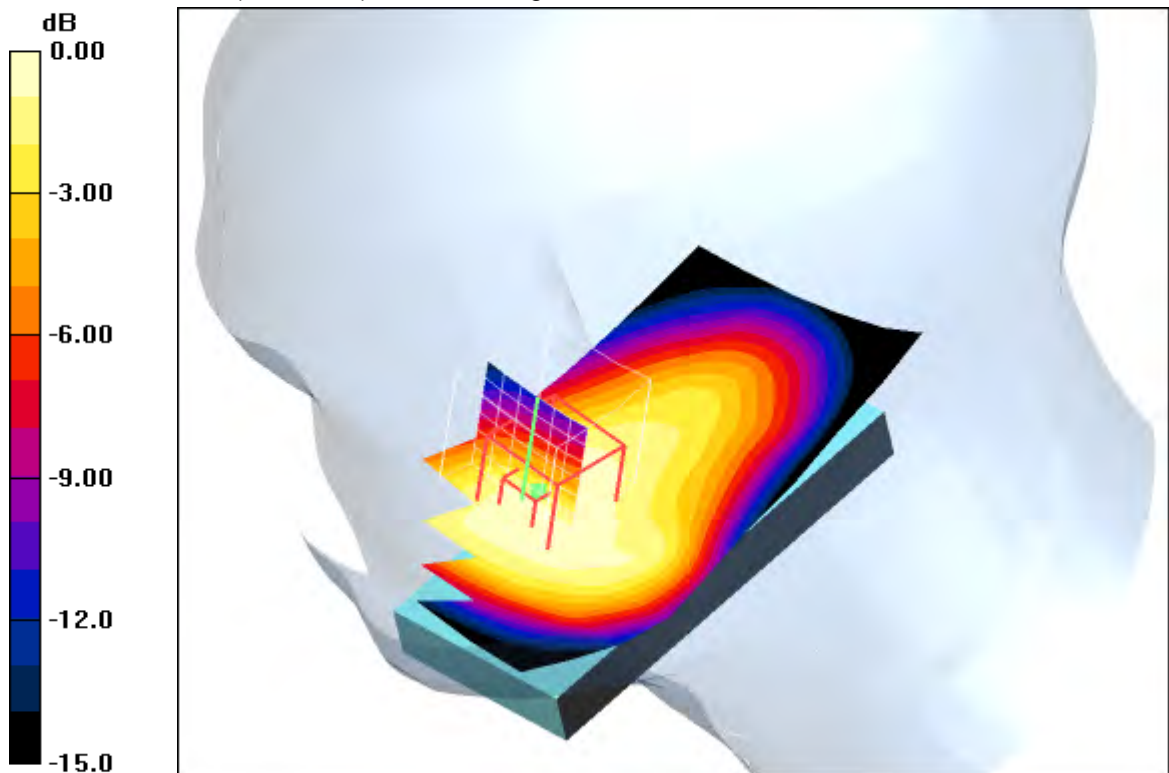
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.0 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.888 W/kg

SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.396 mW/g

Maximum value of SAR (measured) = 0.647 mW/g



0 dB = 0.647mW/g

Additional information:

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

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

Date/Time: 2010-02-27 11:34:33 Date/Time: 2010-02-27 11:41:22

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.384 mW/g

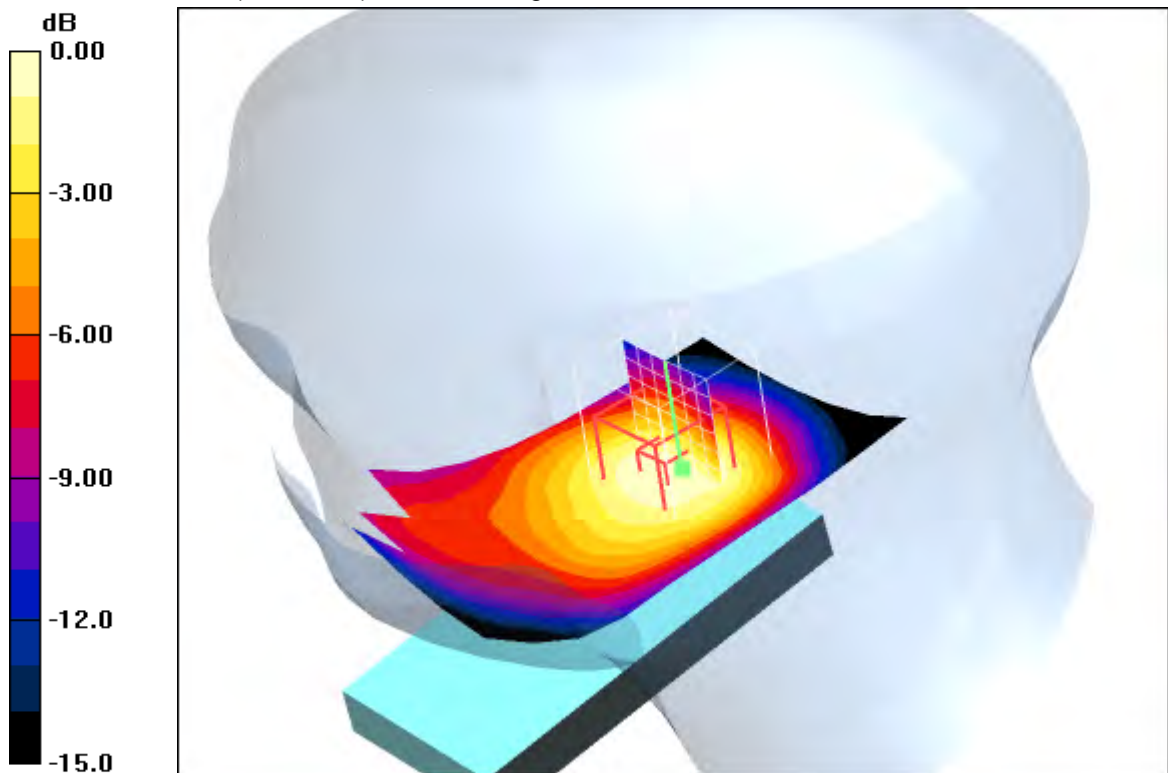
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.1 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.434 W/kg

SAR(1 g) = 0.325 mW/g; SAR(10 g) = 0.213 mW/g

Maximum value of SAR (measured) = 0.349 mW/g



0 dB = 0.349mW/g

Additional information:

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

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

Date/Time: 2010-02-27 11:13:03 Date/Time: 2010-02-27 11:19:49

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.496 mW/g

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

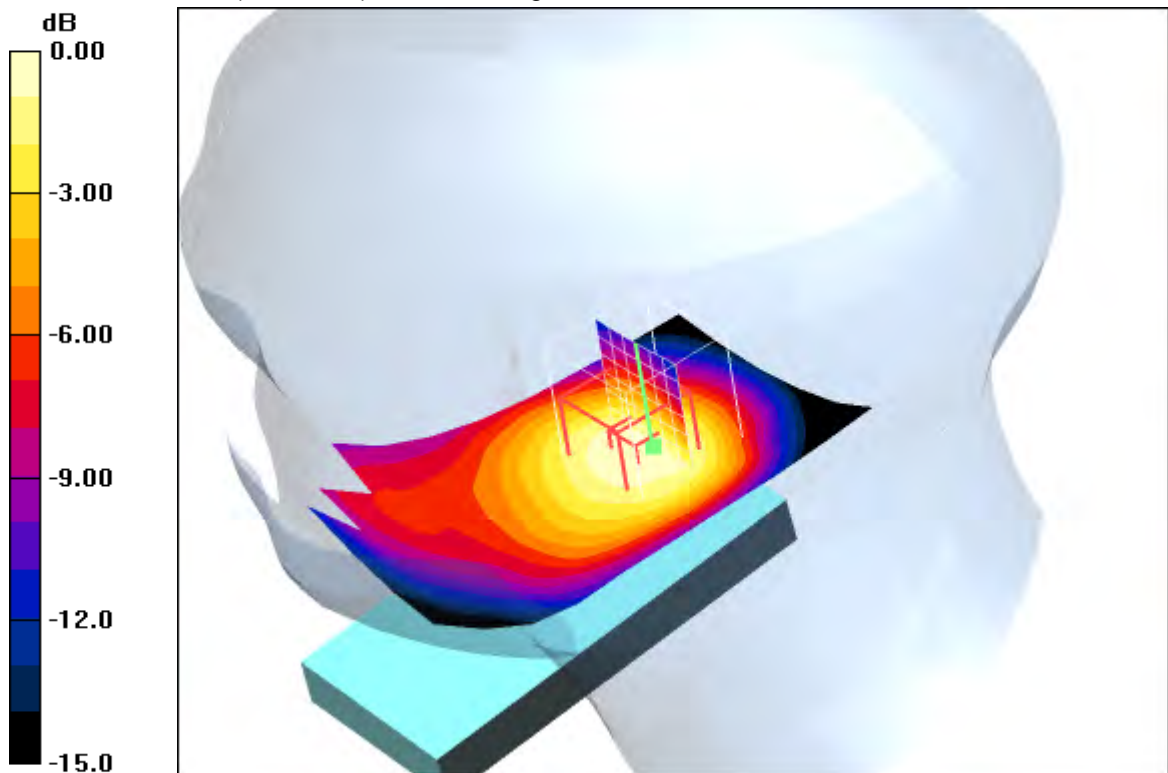
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.1 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.566 W/kg

SAR(1 g) = 0.422 mW/g; SAR(10 g) = 0.274 mW/g

Maximum value of SAR (measured) = 0.455 mW/g



0 dB = 0.455mW/g

Additional information:

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

Date/Time: 2010-02-27 10:51:46 Date/Time: 2010-02-27 10:58:39

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.468 mW/g

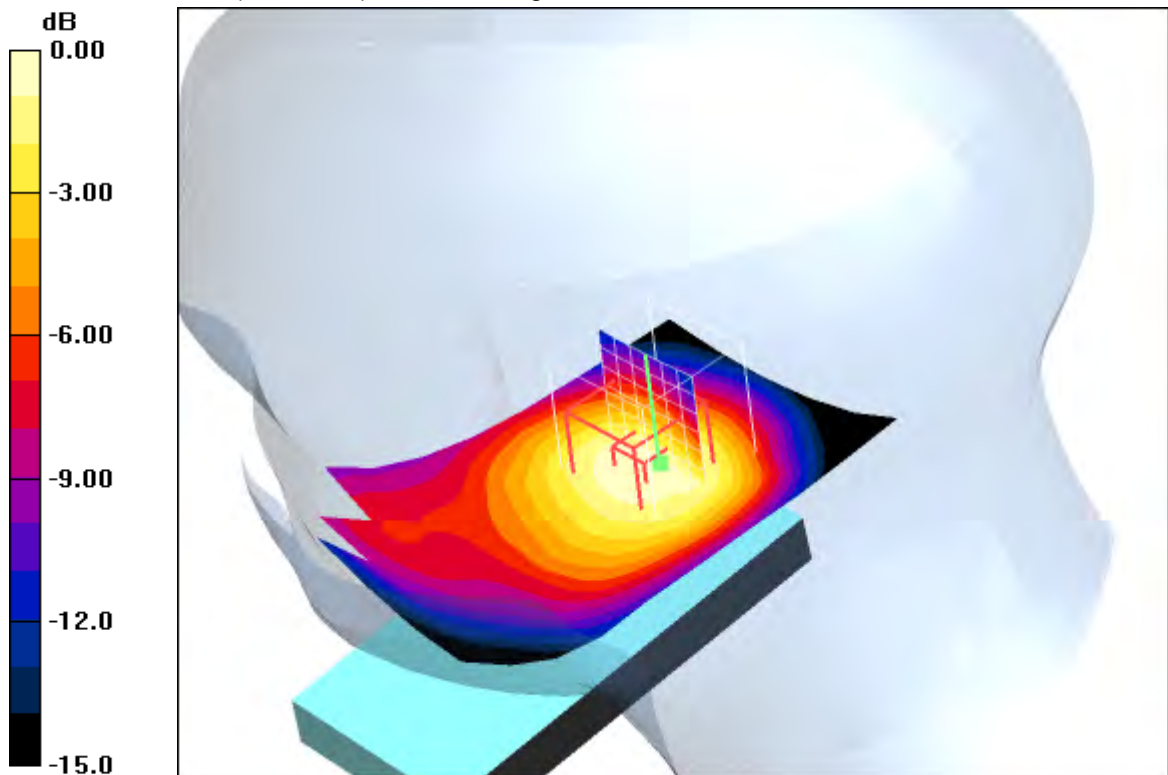
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.4 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 0.538 W/kg

SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.253 mW/g

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



0 dB = 0.428mW/g

Additional information:

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

Date/Time: 2010-02-27 13:14:17 Date/Time: 2010-02-27 13:29:13
 Date/Time: 2010-02-27 13:43:31 Date/Time: 2010-02-27 13:56:46

IEEE1528_OET65-RightHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.359 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 = 15.9 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.423 W/kg

SAR(1 g) = 0.300 mW/g; SAR(10 g) = 0.204 mW/g

Maximum value of SAR (measured) = 0.321 mW/g

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

Reference Value = 15.9 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.445 W/kg

SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.217 mW/g

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

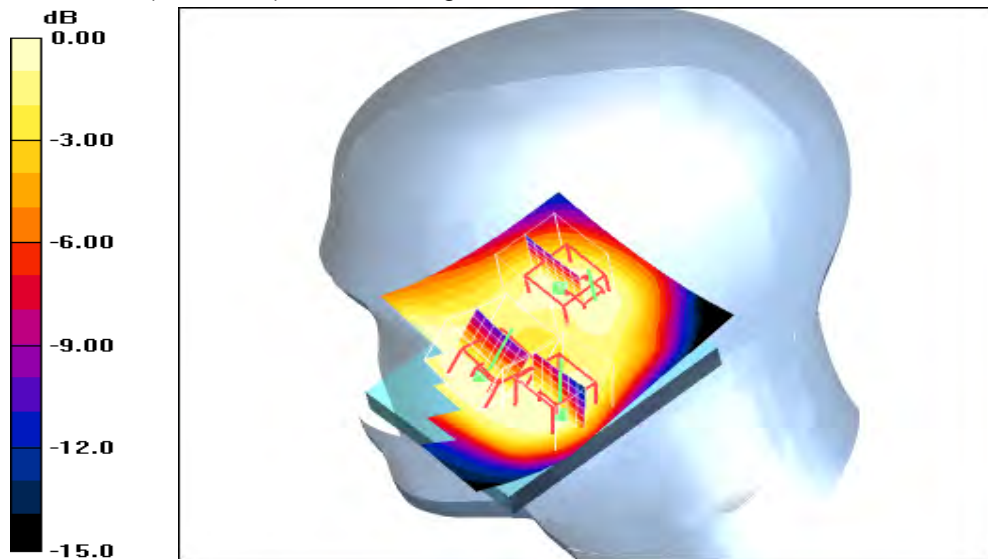
Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 2: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.9 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.437 W/kg

SAR(1 g) = 0.307 mW/g; SAR(10 g) = 0.208 mW/g

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



0 dB = 0.332mW/g

Additional information:

ambient temperature: 22.5°C; liquid temperature: 21.3°C

Date/Time: 2010-02-27 14:12:59 Date/Time: 2010-02-27 14:24:43
 Date/Time: 2010-02-27 14:38:30 Date/Time: 2010-02-27 14:51:57

IEEE1528_OET65-RightHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

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

Reference Value = 16.4 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.324 mW/g; SAR(10 g) = 0.218 mW/g

Maximum value of SAR (measured) = 0.350 mW/g

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

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

Reference Value = 16.4 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.455 W/kg

SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.221 mW/g

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

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

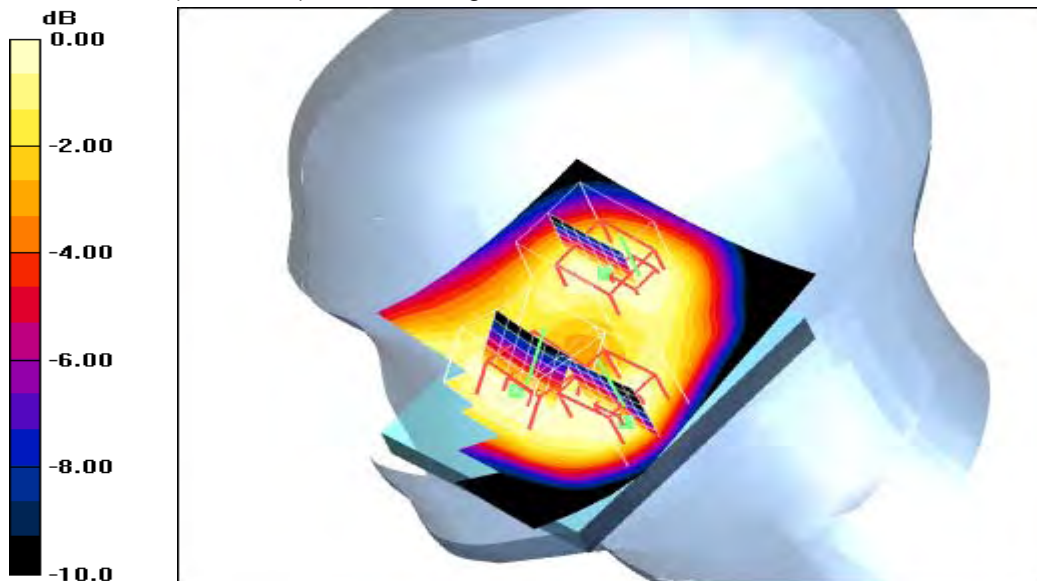
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.4 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.322 mW/g; SAR(10 g) = 0.215 mW/g

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



0 dB = 0.347mW/g

Additional information:

ambient temperature: 22.5°C; liquid temperature: 21.3°C

Date/Time: 2010-02-27 15:08:20 Date/Time: 2010-02-27 15:20:22
 Date/Time: 2010-02-27 15:33:47 Date/Time: 2010-02-27 15:47:10

IEEE1528_OET65-RightHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.362 mW/g

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

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

Reference Value = 16.5 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 0.474 W/kg

SAR(1 g) = 0.318 mW/g; SAR(10 g) = 0.213 mW/g

Maximum value of SAR (measured) = 0.344 mW/g

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

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

Reference Value = 16.5 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 0.469 W/kg

SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.219 mW/g

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

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

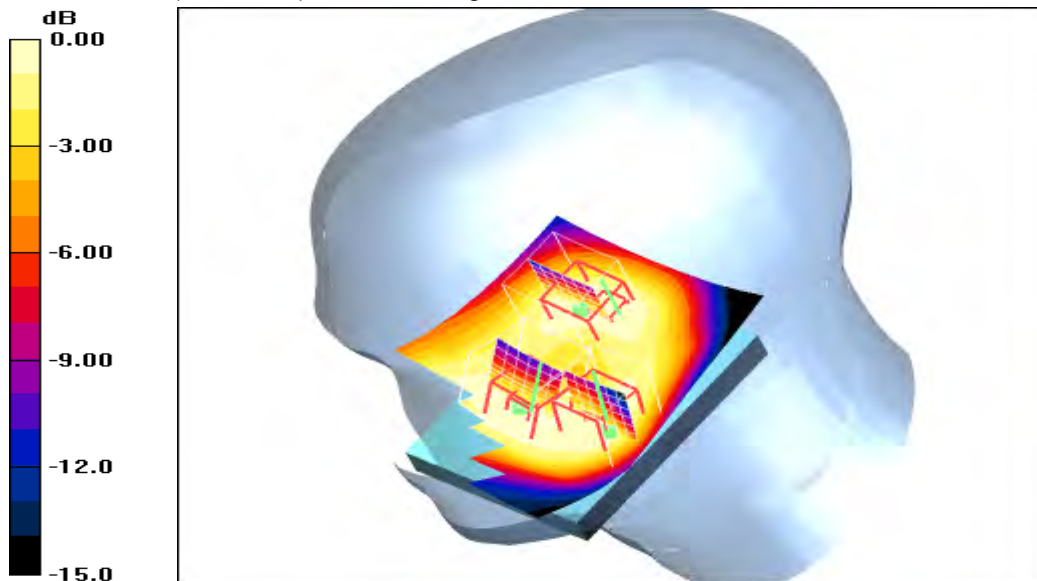
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.5 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 0.479 W/kg

SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.220 mW/g

Maximum value of SAR (measured) = 0.355 mW/g



0 dB = 0.355mW/g

Additional information:

ambient temperature: 22.5°C; liquid temperature: 21.3°C

Date/Time: 2010-02-27 11:55:25 Date/Time: 2010-02-27 12:04:19

IEEE1528_OET65-RightHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.430 mW/g

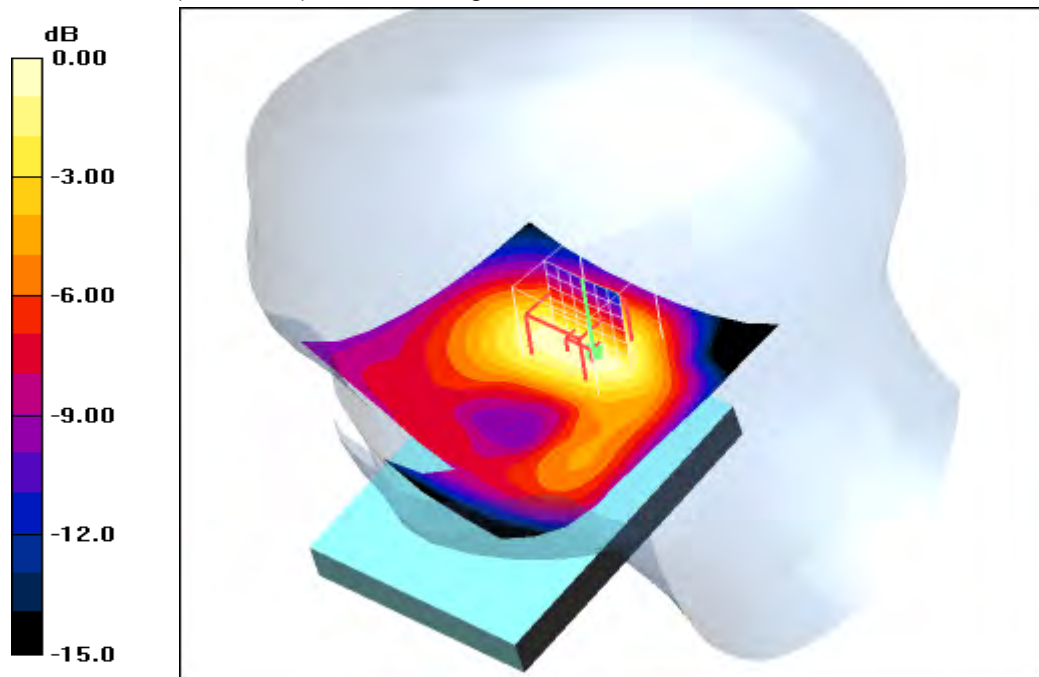
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.2 V/m; Power Drift = 0.045 dB

Peak SAR (extrapolated) = 0.594 W/kg

SAR(1 g) = 0.390 mW/g; SAR(10 g) = 0.238 mW/g

Maximum value of SAR (measured) = 0.426 mW/g



0 dB = 0.426mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.3°C

Date/Time: 2010-02-27 12:20:28 Date/Time: 2010-02-27 12:29:01

IEEE1528_OET65-RightHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

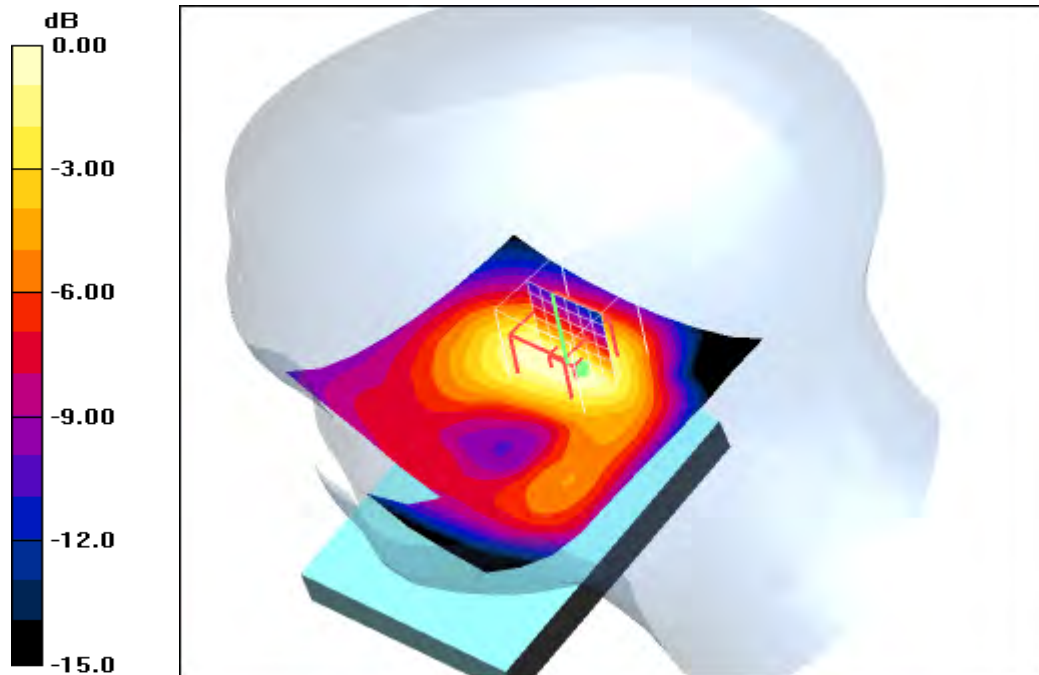
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.7 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.644 W/kg

SAR(1 g) = 0.411 mW/g; SAR(10 g) = 0.247 mW/g

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



0 dB = 0.454mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.3°C

Date/Time: 2010-02-27 12:43:26 Date/Time: 2010-02-27 12:53:17

IEEE1528_OET65-RightHandSide-GSM1900 open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

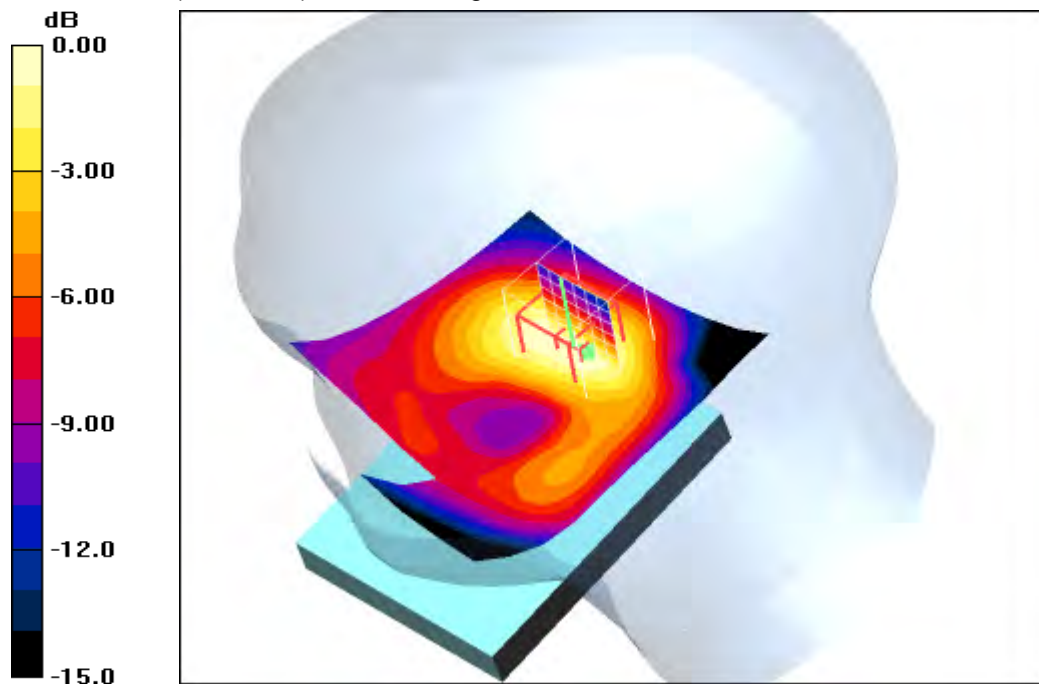
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.8 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.653 W/kg

SAR(1 g) = 0.409 mW/g; SAR(10 g) = 0.245 mW/g

Maximum value of SAR (measured) = 0.447 mW/g



0 dB = 0.447mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.3°C

Annex B.4: GSM 1900 MHz body

Date/Time: 2010-02-23 13:53:28 Date/Time: 2010-02-23 13:59:58 Date/Time: 2010-02-23 14:11:41

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M1900 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.307 mW/g

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

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

Reference Value = 15.0 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.384 W/kg

SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.300 mW/g

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

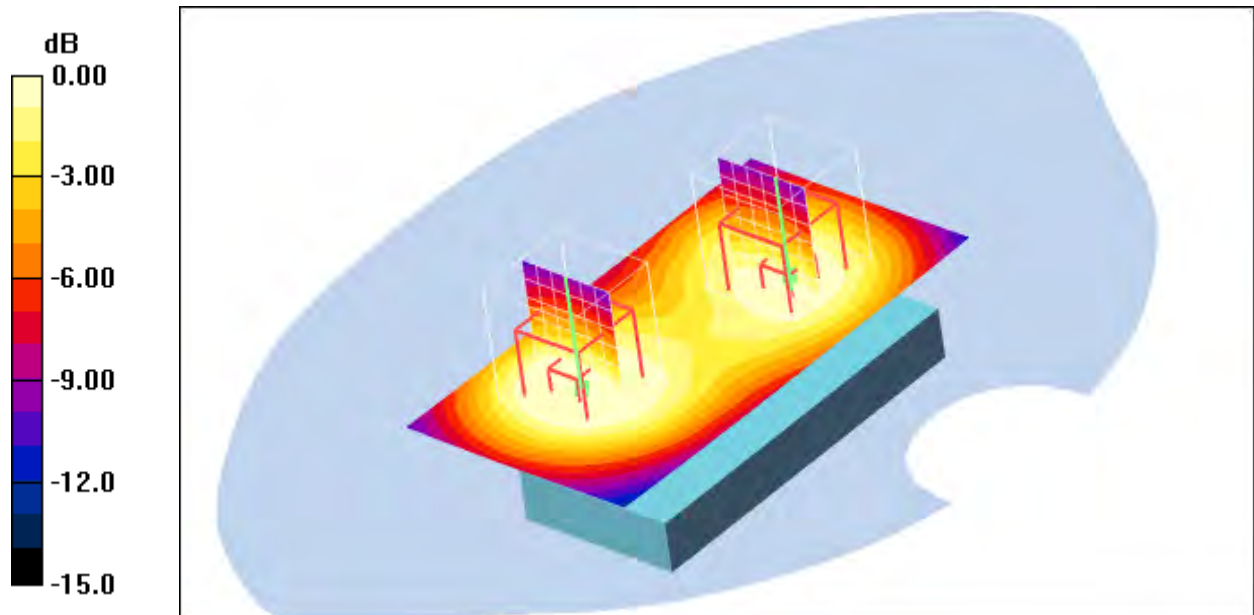
dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.0 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.258 W/kg

SAR(1 g) = 0.202 mW/g; SAR(10 g) = 0.139 mW/g

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



0 dB = 0.215mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15mm distance

ambient temperature: 23.5°C; liquid temperature: 21.1°C

Date/Time: 2010-02-23 14:33:54 Date/Time: 2010-02-23 14:40:54 Date/Time: 2010-02-23 14:52:45

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

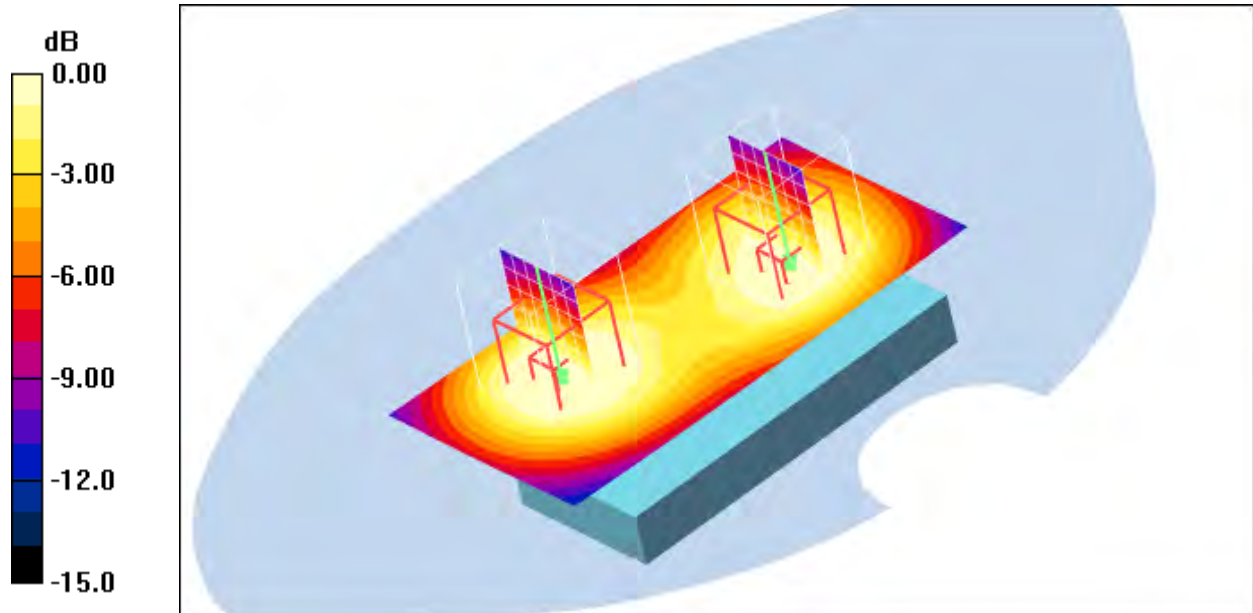
DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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 (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.386 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 = 16.7 V/m; Power Drift = 0.050 dB
 Peak SAR (extrapolated) = 0.501 W/kg
SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.218 mW/g
 Maximum value of SAR (measured) = 0.382 mW/g

Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 16.7 V/m; Power Drift = 0.050 dB
 Peak SAR (extrapolated) = 0.333 W/kg
SAR(1 g) = 0.260 mW/g; SAR(10 g) = 0.178 mW/g
 Maximum value of SAR (measured) = 0.279 mW/g



0 dB = 0.279mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15mm distance
 ambient temperature: 23.5°C; liquid temperature: 21.1°C

Date/Time: 2010-02-23 15:10:06 Date/Time: 2010-02-23 15:17:02 Date/Time: 2010-02-23 15:28:45

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

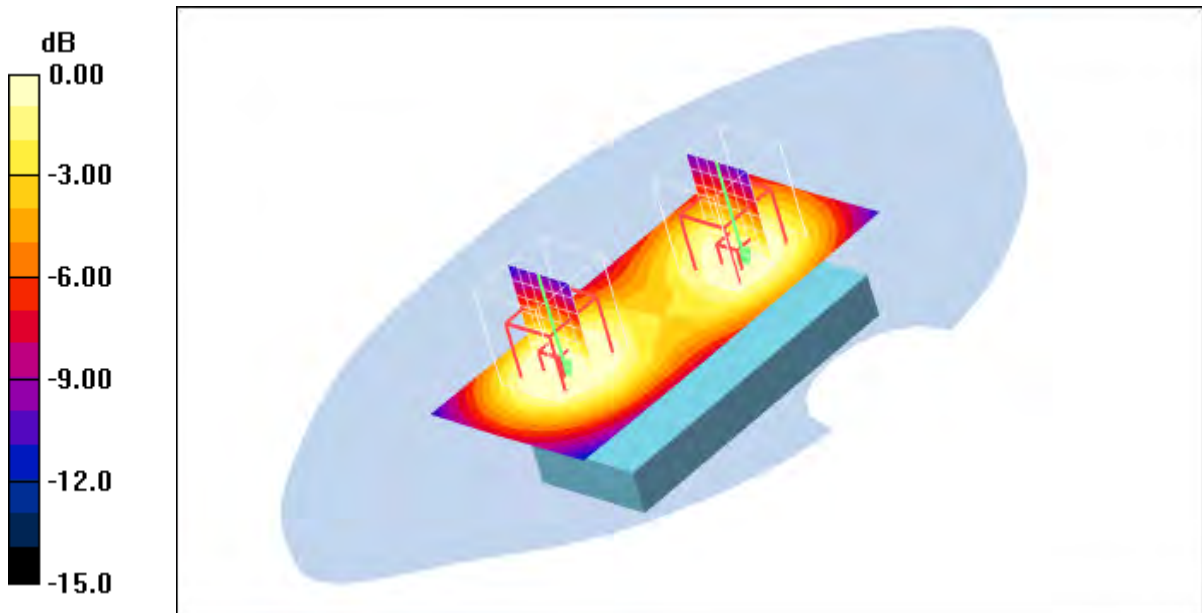
DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.392 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 = 16.7 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 0.510 W/kg
SAR(1 g) = 0.350 mW/g; SAR(10 g) = 0.218 mW/g
 Maximum value of SAR (measured) = 0.385 mW/g

Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 16.7 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 0.338 W/kg
SAR(1 g) = 0.261 mW/g; SAR(10 g) = 0.177 mW/g
 Maximum value of SAR (measured) = 0.281 mW/g



0 dB = 0.281mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15mm distance
 ambient temperature: 23.5°C; liquid temperature: 21.1°C

Date/Time: 2010-02-23 20:04:09 Date/Time: 2010-02-23 20:30:42

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

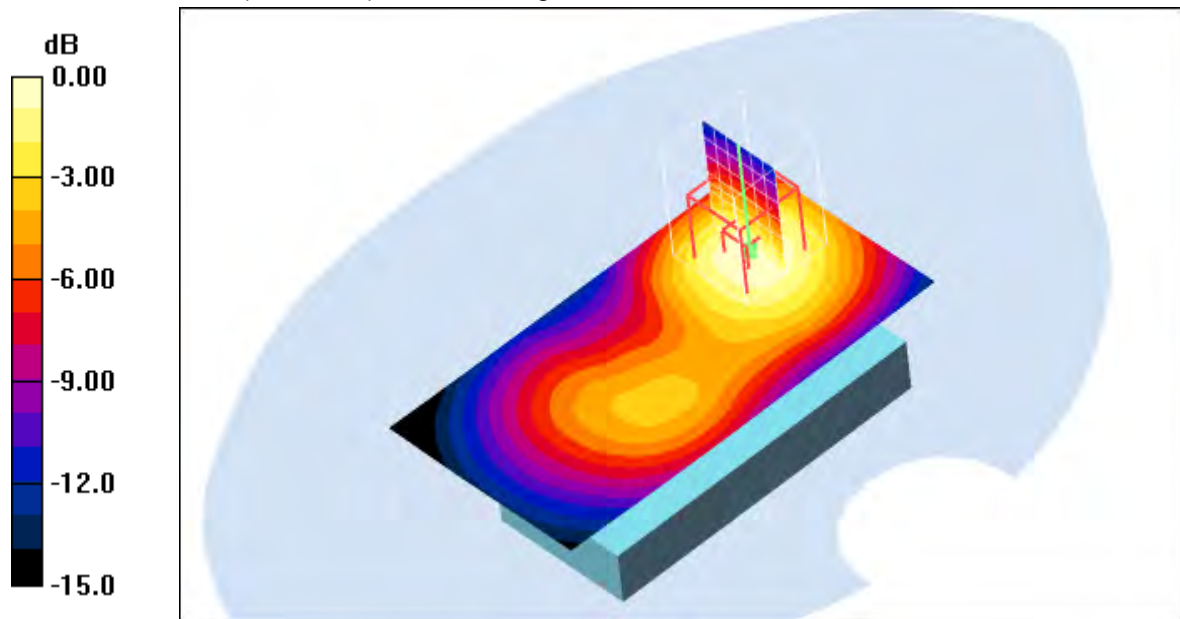
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.425 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 = 17.9 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 0.547 W/kg
SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.245 mW/g
 Maximum value of SAR (measured) = 0.431 mW/g



0 dB = 0.431mW/g

Additional information:

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

Date/Time: 2010-02-23 19:27:52 Date/Time: 2010-02-23 19:34:29

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

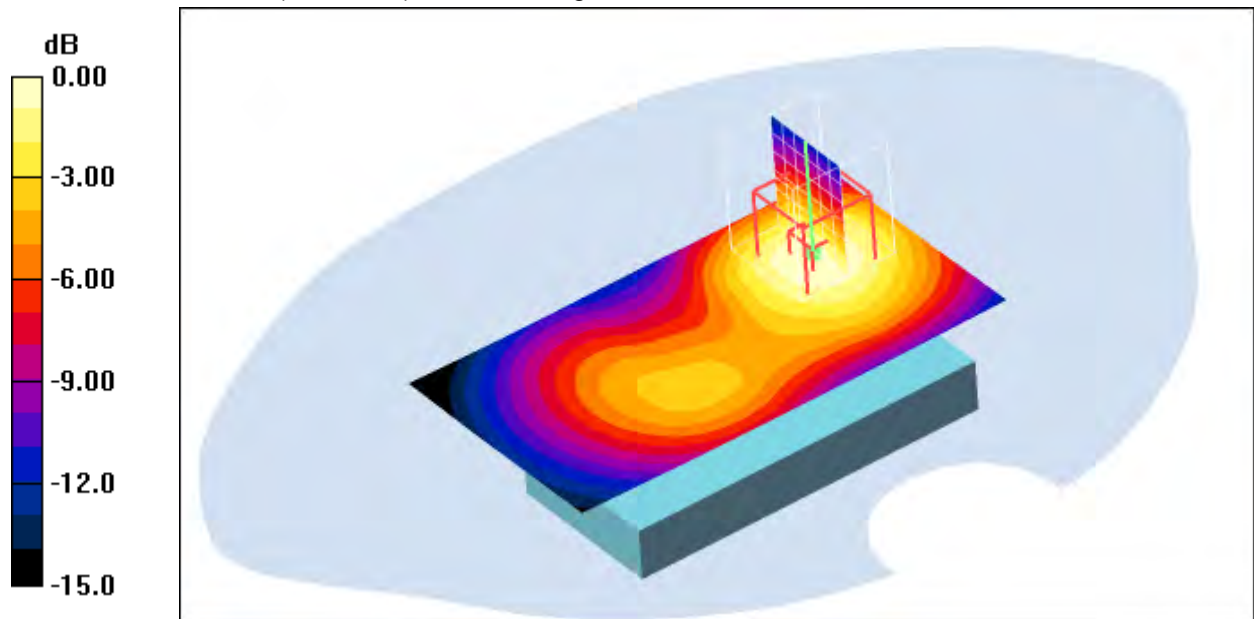
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.518 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 = 19.8 V/m; Power Drift = -0.040 dB
 Peak SAR (extrapolated) = 0.654 W/kg
SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.297 mW/g
 Maximum value of SAR (measured) = 0.518 mW/g



0 dB = 0.518mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15mm distance
 ambient temperature: 23.3°C; liquid temperature: 21.8°C

Date/Time: 2010-02-23 19:04:39 Date/Time: 2010-02-23 19:11:12

IEEE1528_OET65-Body-GSM1900 GPRS 2TS**DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF**

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

Medium: M1900 Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.507 mW/g

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

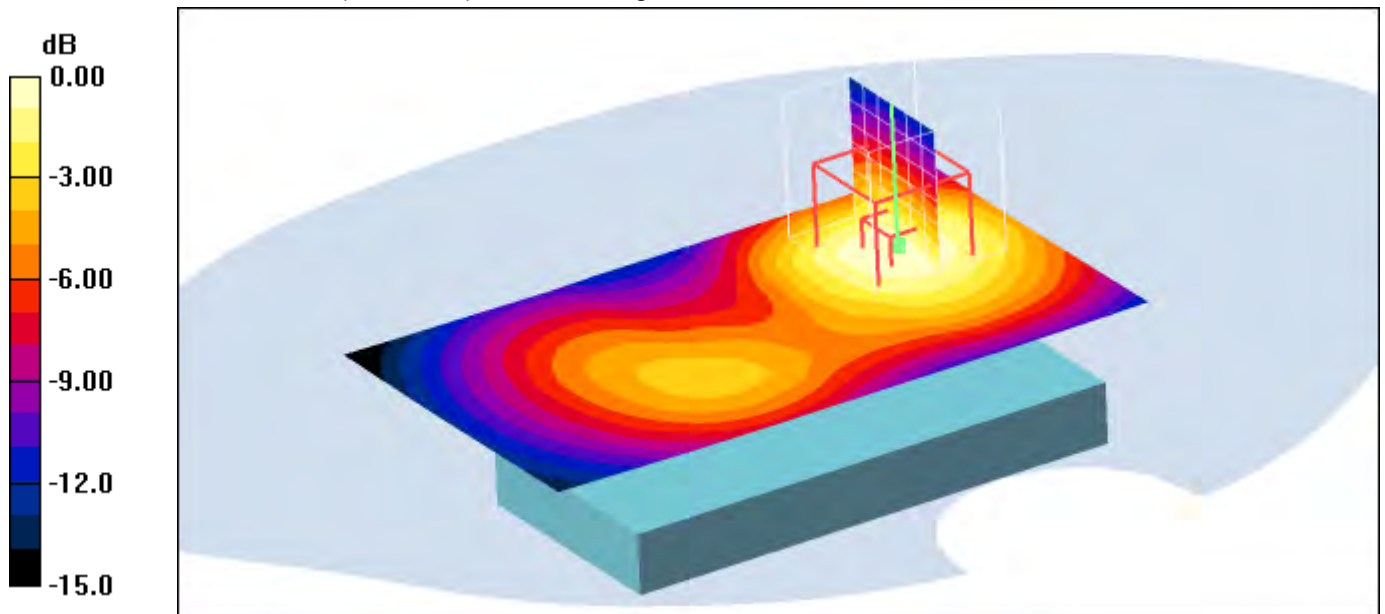
dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.4 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.671 W/kg

SAR(1 g) = 0.469 mW/g; SAR(10 g) = 0.289 mW/g

Maximum value of SAR (measured) = 0.510 mW/g



0 dB = 0.510mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15mm distance

ambient temperature: 23.3°C; liquid temperature: 21.8°C

Date/Time: 2010-02-23 21:00:02 Date/Time: 2010-02-23 21:06:41

IEEE1528_OET65-Body-GSM1900 GPRS 1TS

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019LXEF

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

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.388 mW/g

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

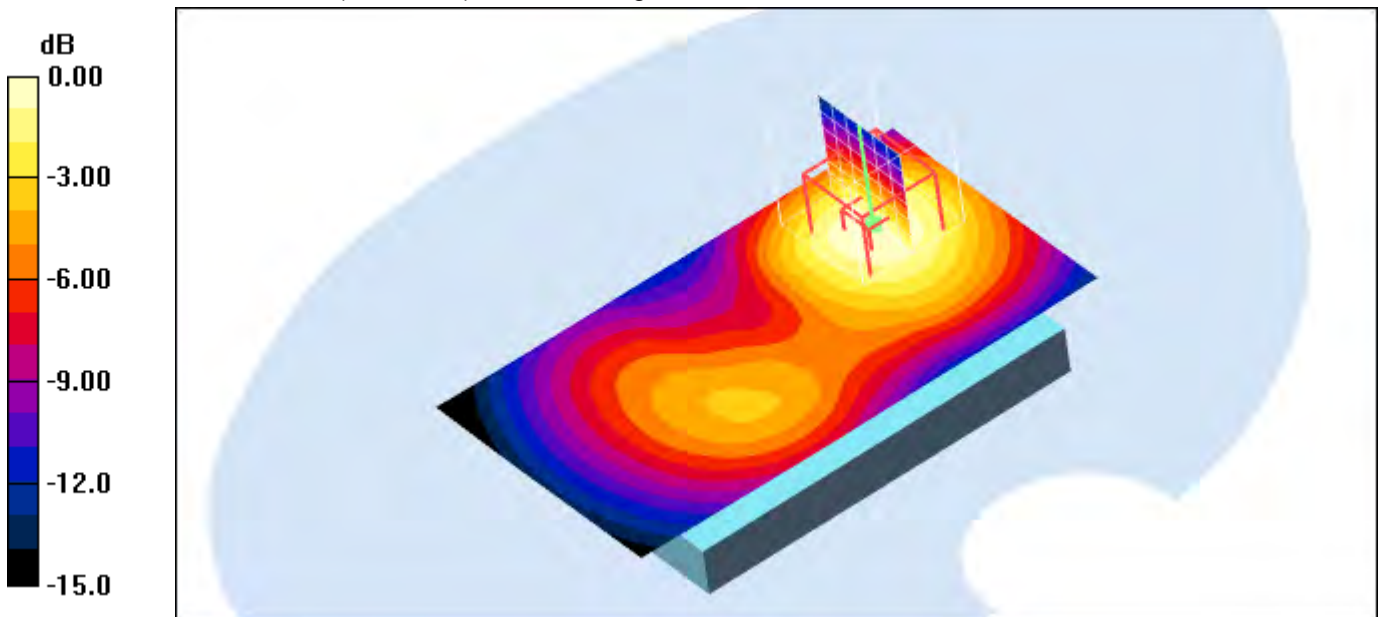
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.6 V/m; Power Drift = 0.052 dB

Peak SAR (extrapolated) = 0.494 W/kg

SAR(1 g) = 0.350 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.384 mW/g



0 dB = 0.384mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15mm distance

ambient temperature: 23.3°C; liquid temperature: 21.8°C

Annex B.5: WLAN 2450 MHz head

Date/Time: 2010-03-03 09:16:34 Date/Time: 2010-03-03 09:23:12

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

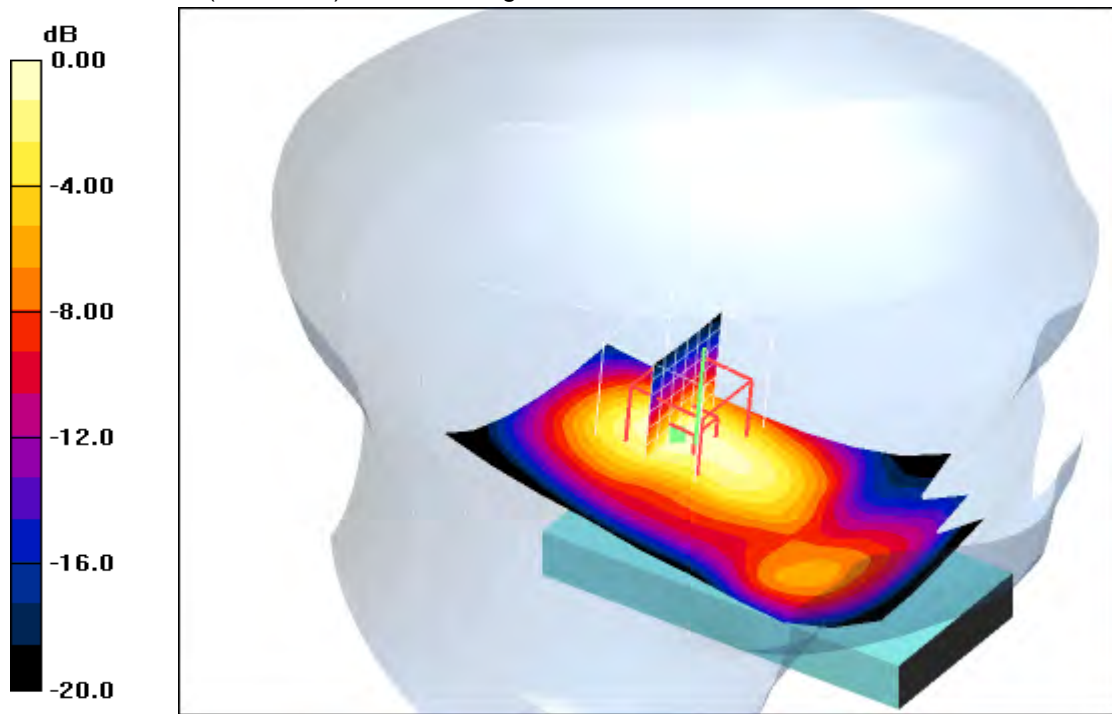
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.592 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 16.4 V/m; Power Drift = -0.171 dB
 Peak SAR (extrapolated) = 1.13 W/kg
SAR(1 g) = 0.510 mW/g; SAR(10 g) = 0.245 mW/g
 Maximum value of SAR (measured) = 0.566 mW/g



0 dB = 0.566mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-03 11:48:28 Date/Time: 2010-03-03 11:55:04

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.523 mW/g

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

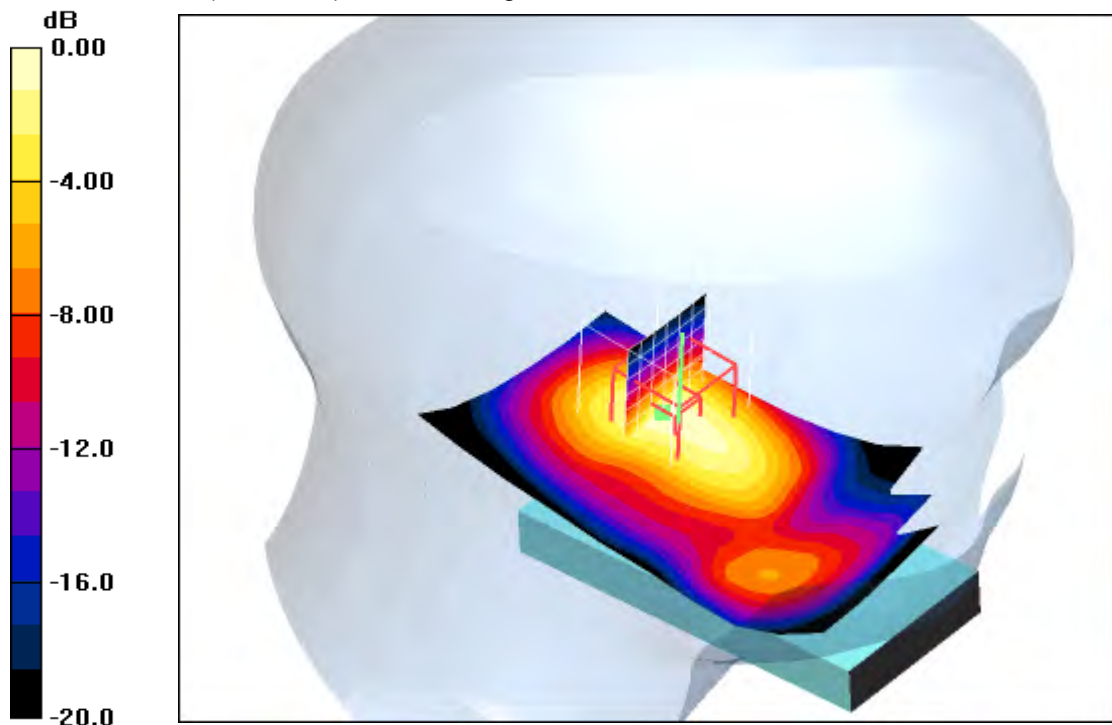
dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.1 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.469 mW/g; SAR(10 g) = 0.224 mW/g

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



0 dB = 0.522mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-03 12:14:21 Date/Time: 2010-03-03 12:20:57

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.349 mW/g

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

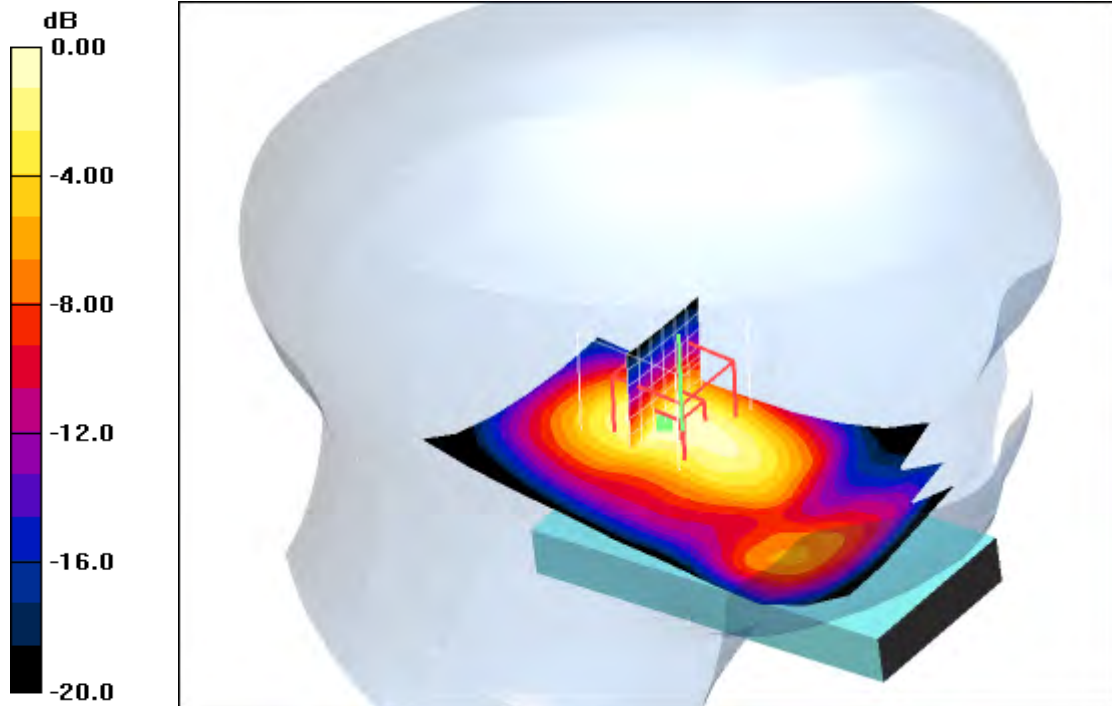
dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.4 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 0.671 W/kg

SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.140 mW/g

Maximum value of SAR (measured) = 0.325 mW/g



0 dB = 0.325mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-03 09:38:17 Date/Time: 2010-03-03 09:45:30

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

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

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.410 mW/g

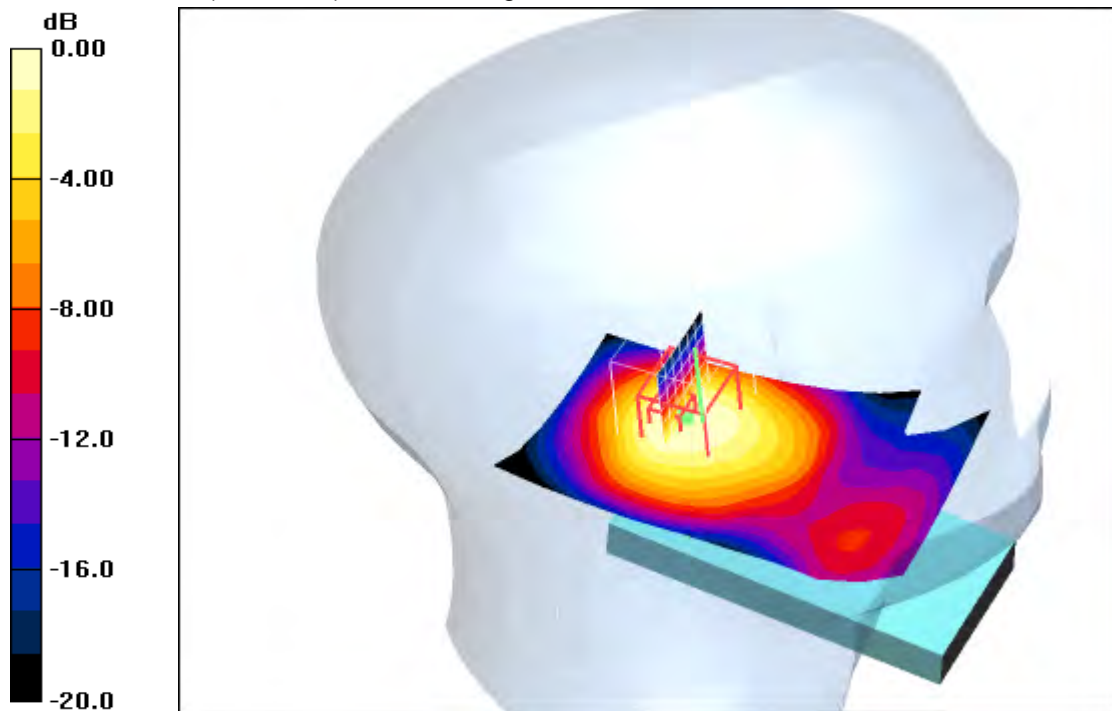
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.6 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 0.858 W/kg

SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.172 mW/g

Maximum value of SAR (measured) = 0.349 mW/g



0 dB = 0.349mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-03 11:27:12 Date/Time: 2010-03-03 11:33:51

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.375 mW/g

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

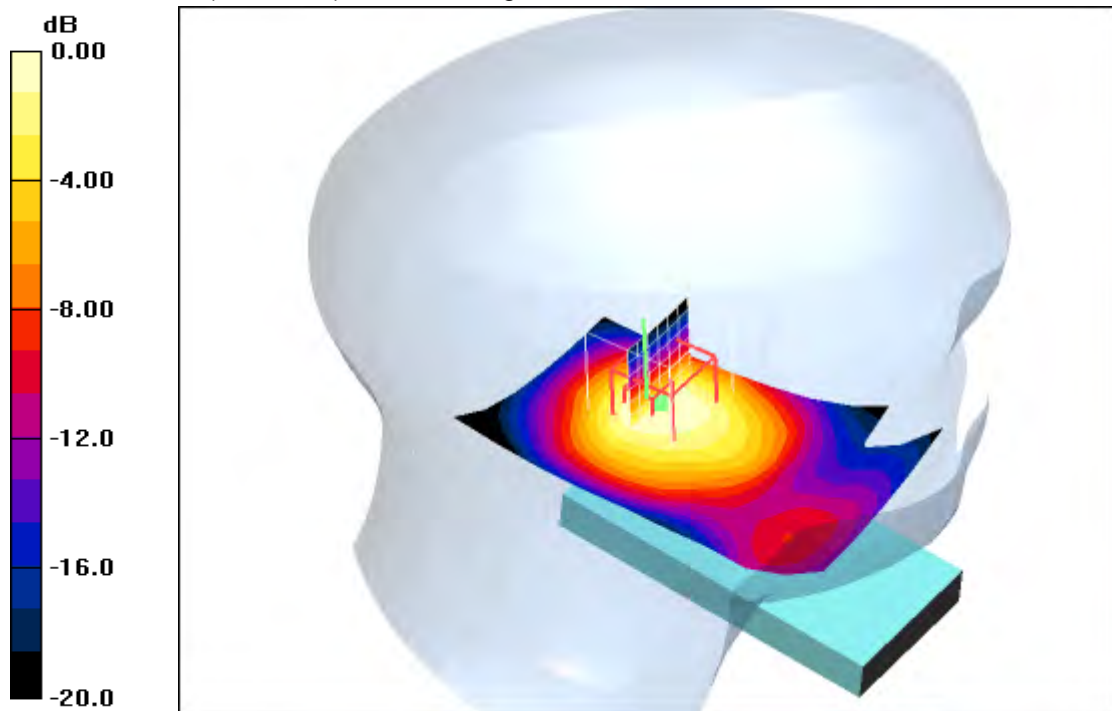
dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.805 W/kg

SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.152 mW/g

Maximum value of SAR (measured) = 0.320 mW/g



0 dB = 0.320mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-03 12:36:19 Date/Time: 2010-03-03 12:43:03

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.240 mW/g

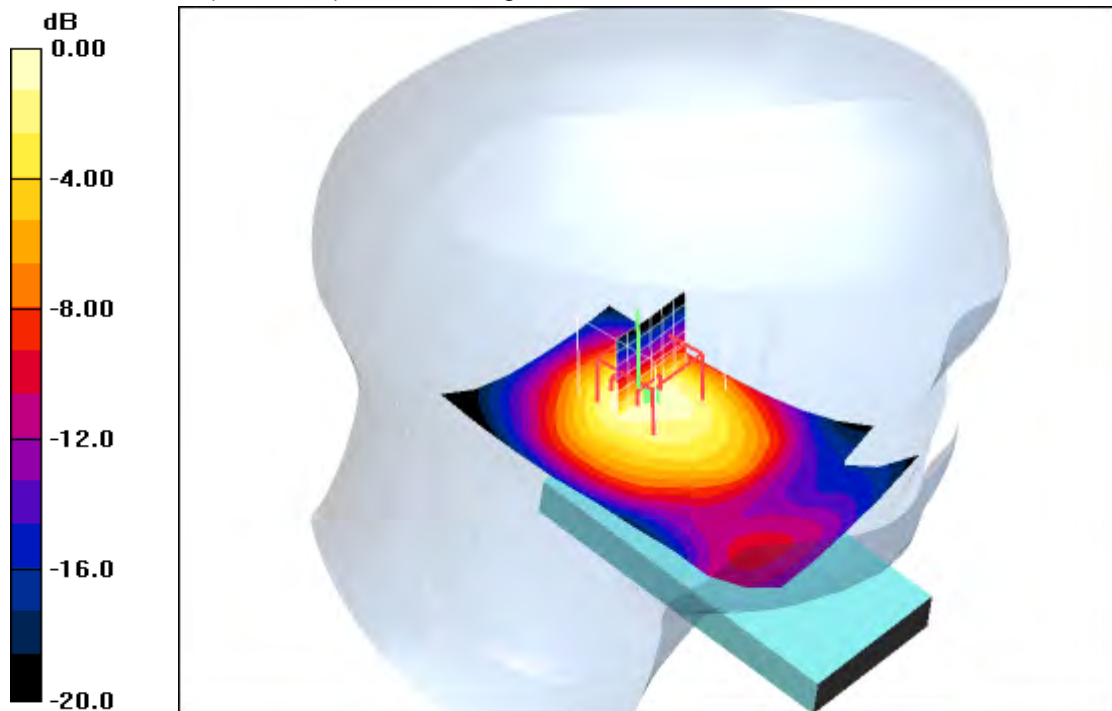
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.546 W/kg

SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.094 mW/g

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



0 dB = 0.206mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-04 10:07:08 Date/Time: 2010-03-04 10:13:56

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

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

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 0.259 mW/g

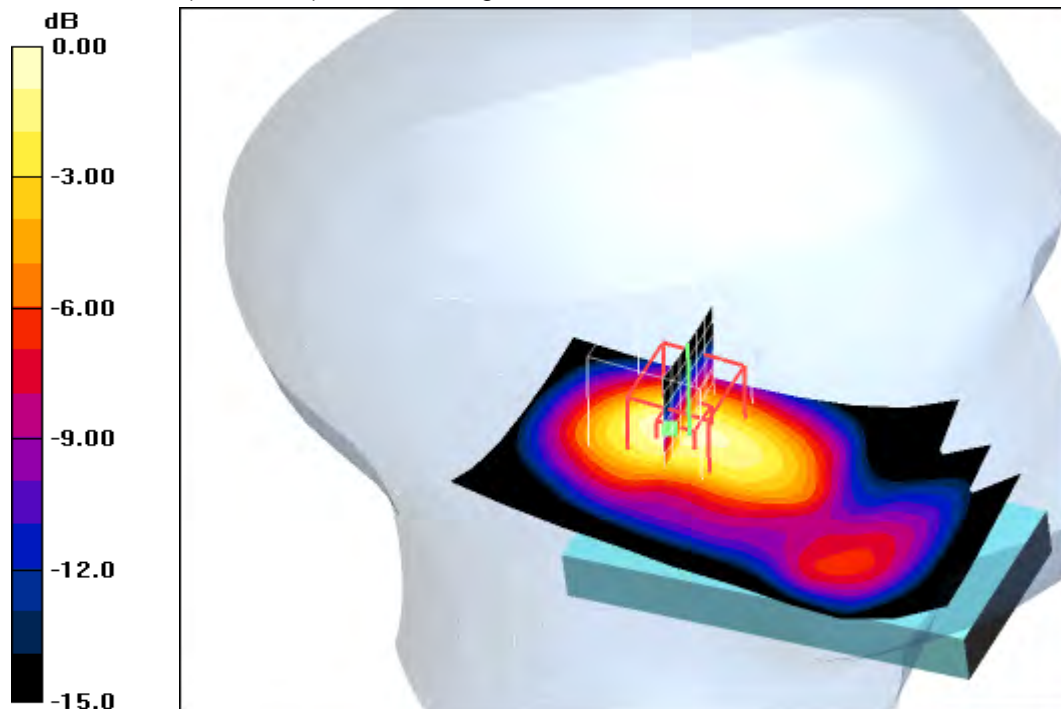
Touch position - Low 6Mbit/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.3 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.510 W/kg

SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.111 mW/g

Maximum value of SAR (measured) = 0.257 mW/g



0 dB = 0.257mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-03 14:56:57 Date/Time: 2010-03-03 15:05:58 Date/Time: 2010-03-03 15:17:30

IEEE1528_OET65-LeftHandSide-WLAN open**DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48**

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; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.087 mW/g

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

Reference Value = 6.71 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.206 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.041 mW/g

Maximum value of SAR (measured) = 0.098 mW/g

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

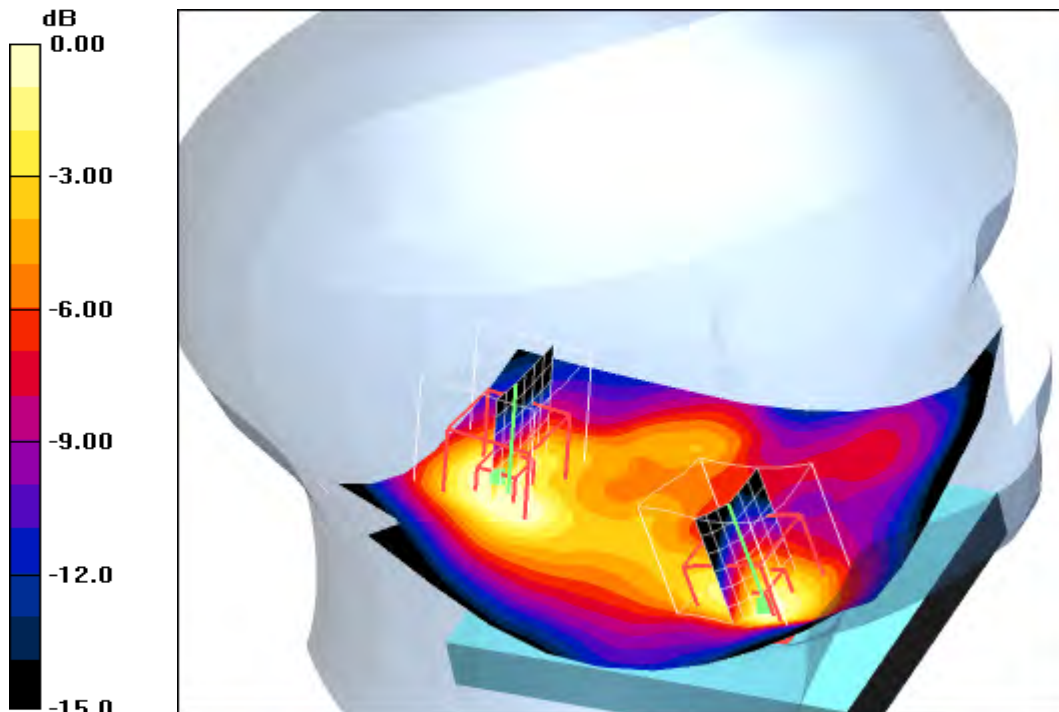
dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.71 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.118 W/kg

SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.035 mW/g

Maximum value of SAR (measured) = 0.078 mW/g



0 dB = 0.078mW/g

Additional information:

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-03 15:41:49 Date/Time: 2010-03-03 15:50:51 Date/Time: 2010-03-03 16:02:20

IEEE1528_OET65-LeftHandSide-WLAN open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

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

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

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

Reference Value = 5.63 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.028 mW/g

Maximum value of SAR (measured) = 0.067 mW/g

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

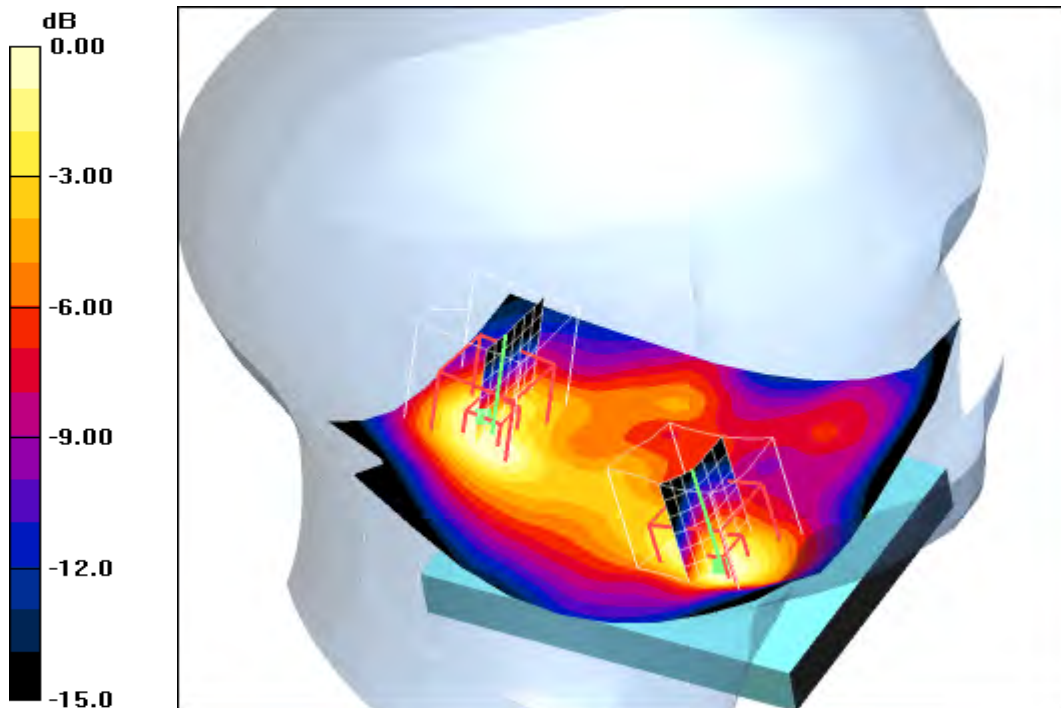
dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.63 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.088 W/kg

SAR(1 g) = 0.051 mW/g; SAR(10 g) = 0.026 mW/g

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



0 dB = 0.058mW/g

Additional information:

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-04 08:57:41 Date/Time: 2010-03-04 09:06:58 Date/Time: 2010-03-04 09:18:57

IEEE1528_OET65-LeftHandSide-WLAN open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.035 mW/g

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

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

Reference Value = 4.48 V/m; Power Drift = -0.080 dB

Peak SAR (extrapolated) = 0.092 W/kg

SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.043 mW/g

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

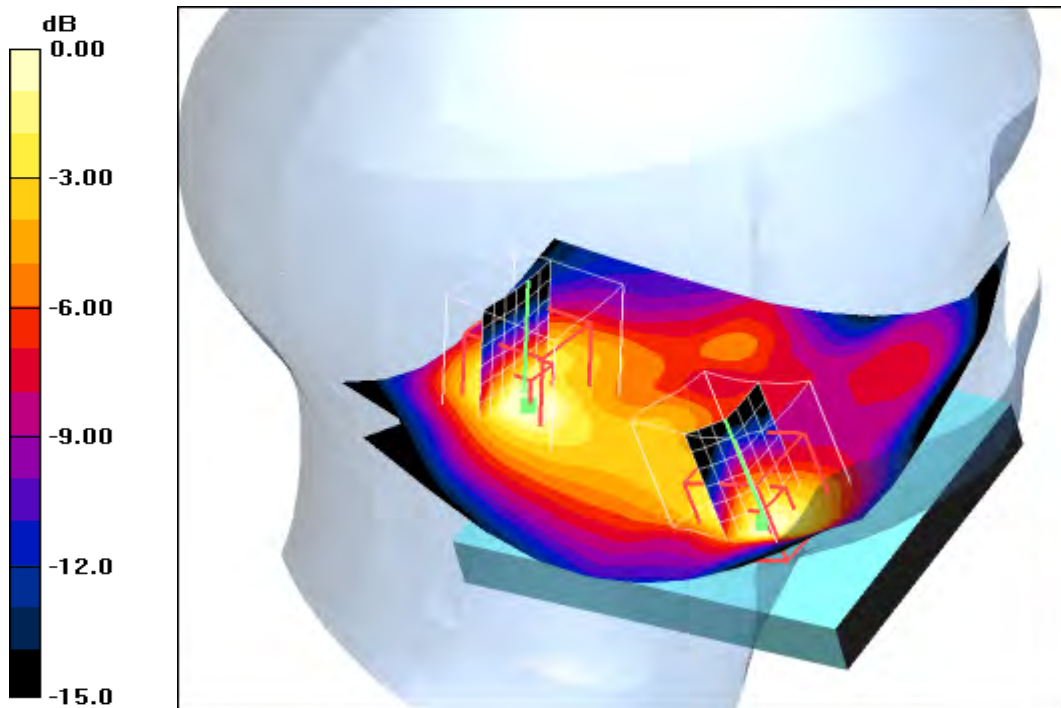
dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.48 V/m; Power Drift = -0.080 dB

Peak SAR (extrapolated) = 0.050 W/kg

SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.015 mW/g

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



0 dB = 0.034mW/g

Additional information:

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

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-03 14:34:29 Date/Time: 2010-03-03 14:43:14

IEEE1528_OET65-LeftHandSide-WLAN open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

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

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.110 mW/g

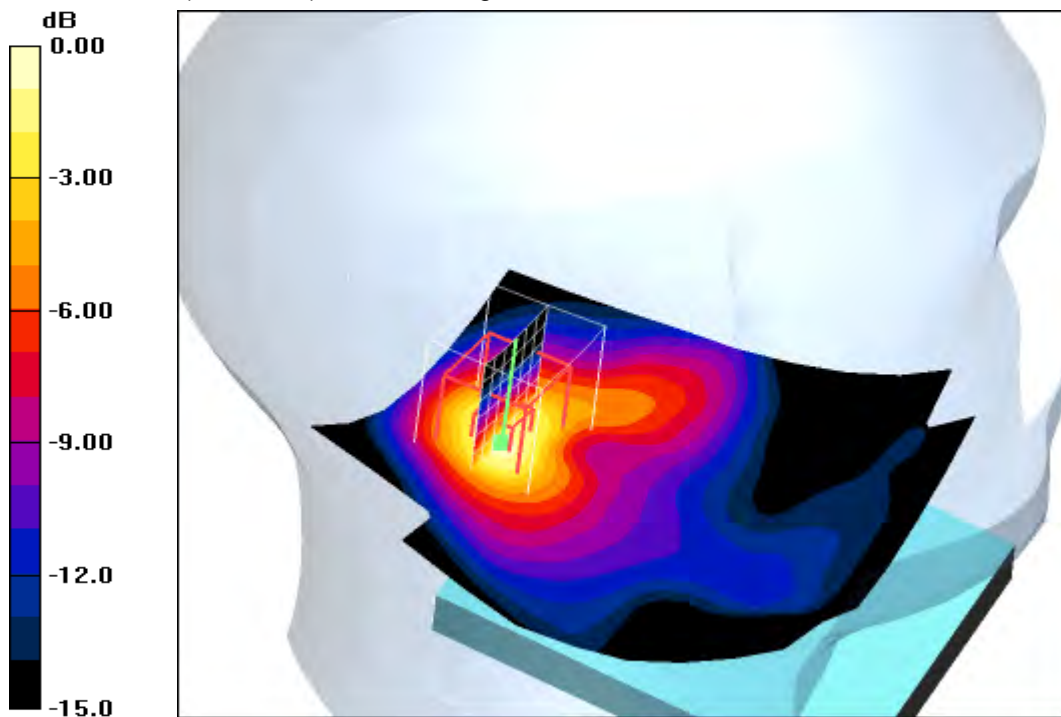
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.52 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 0.266 W/kg

SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.052 mW/g

Maximum value of SAR (measured) = 0.126 mW/g



0 dB = 0.126mW/g

Additional information:

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

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-03 16:17:29 Date/Time: 2010-03-03 16:26:20

IEEE1528_OET65-LeftHandSide-WLAN open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.073 mW/g

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

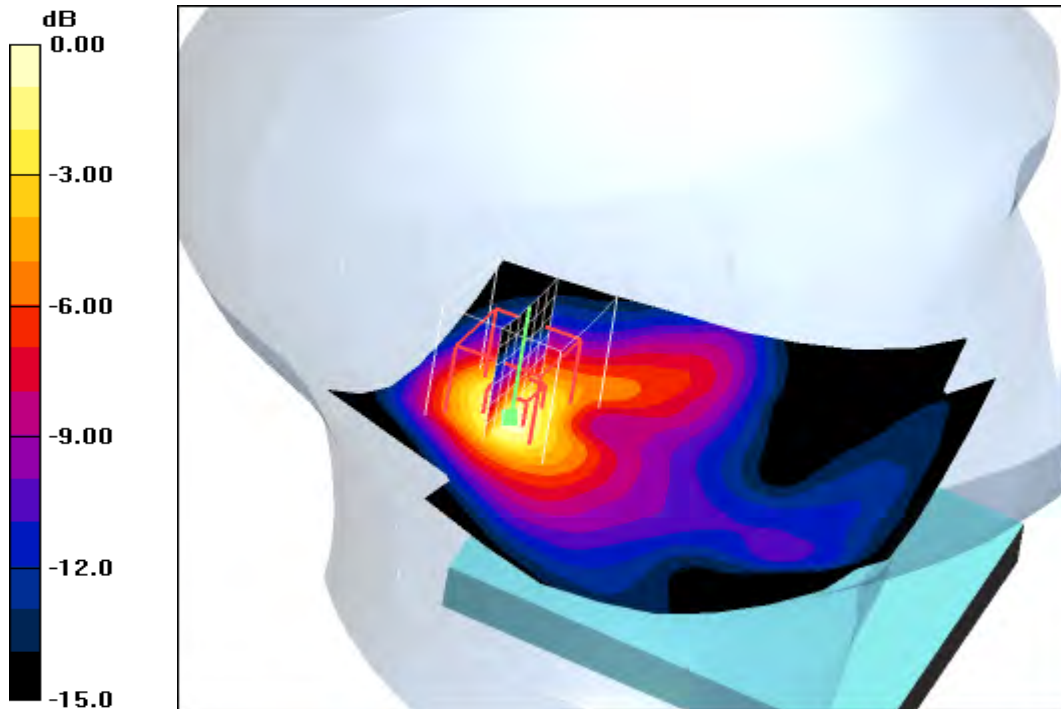
dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.16 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.177 W/kg

SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.034 mW/g

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



0 dB = 0.082mW/g

Additional information:

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

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-04 08:34:56 Date/Time: 2010-03-04 08:43:52

IEEE1528_OET65-LeftHandSide-WLAN open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.048 mW/g

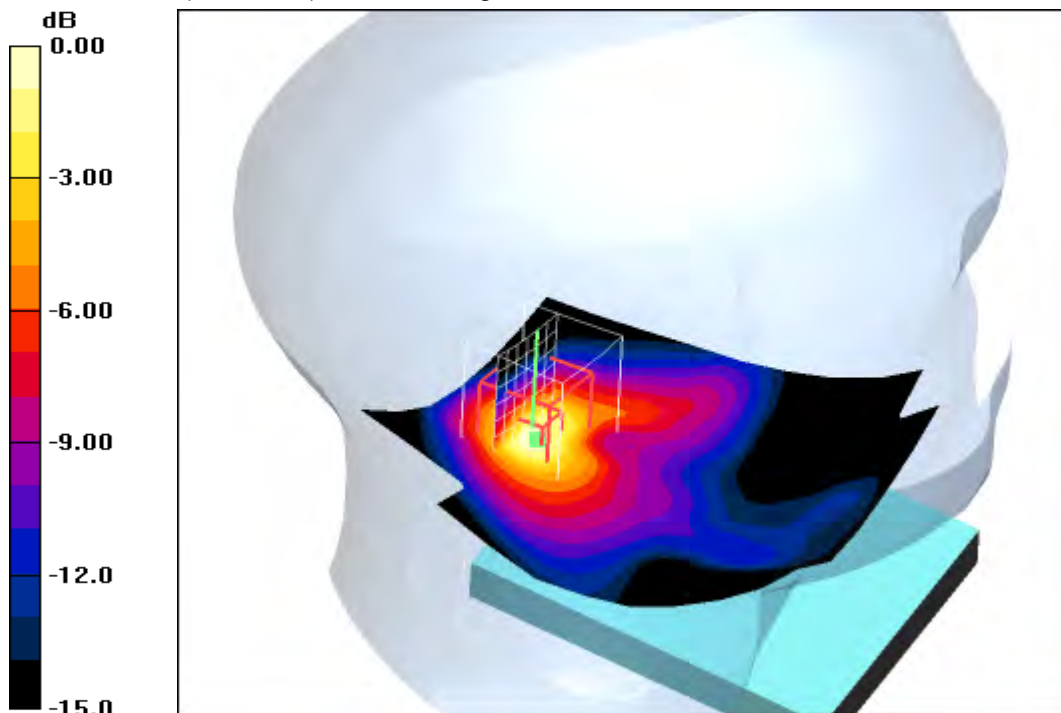
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.16 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.048 mW/g; SAR(10 g) = 0.021 mW/g

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



0 dB = 0.053mW/g

Additional information:

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

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-03 10:20:18 Date/Time: 2010-03-03 10:26:52

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

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

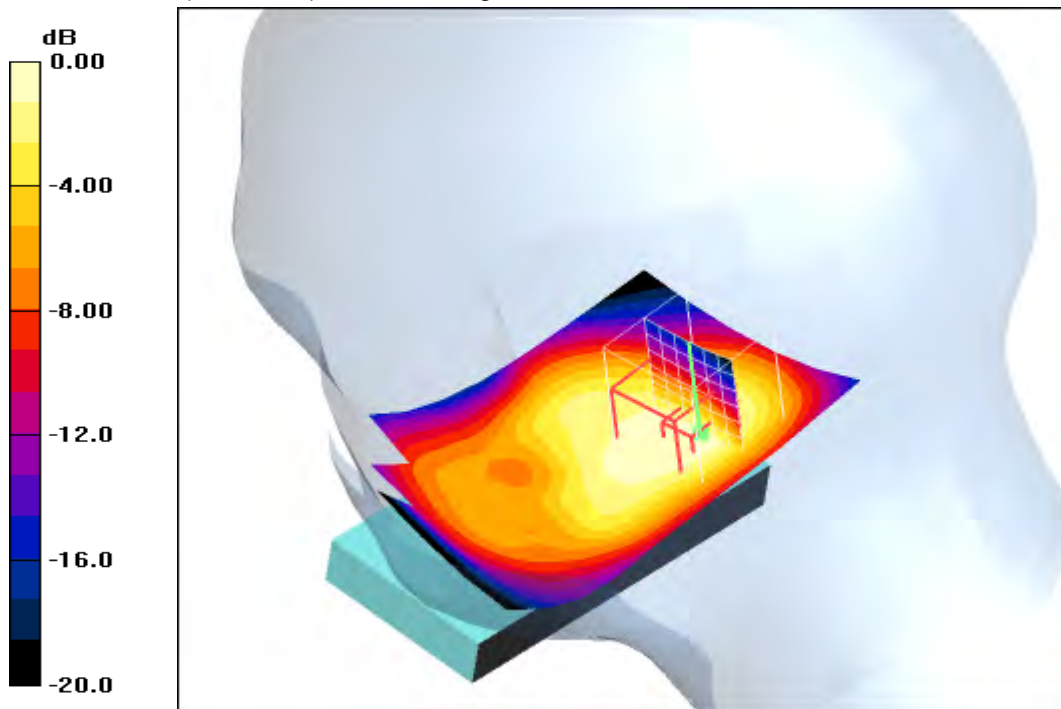
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.284 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 12.1 V/m; Power Drift = 0.019 dB
 Peak SAR (extrapolated) = 0.530 W/kg
SAR(1 g) = 0.267 mW/g; SAR(10 g) = 0.147 mW/g
 Maximum value of SAR (measured) = 0.287 mW/g



0 dB = 0.287mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-03 10:45:21 Date/Time: 2010-03-03 10:51:56

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.286 mW/g

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

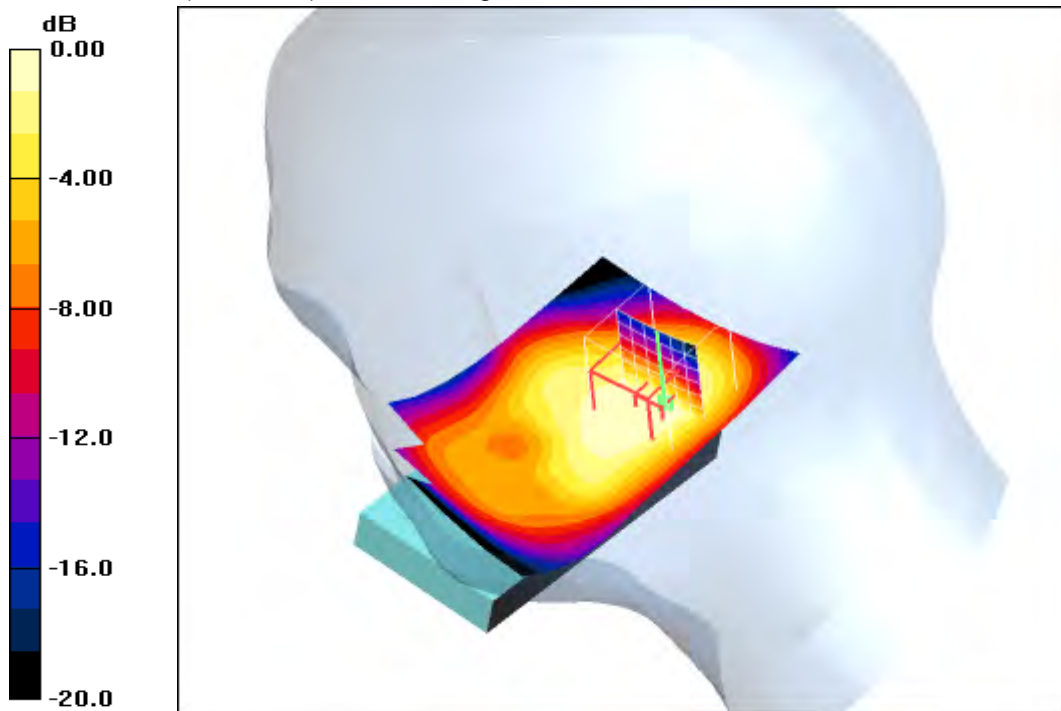
dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.0 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 0.518 W/kg

SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.143 mW/g

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



0 dB = 0.279mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-03 13:19:42 Date/Time: 2010-03-03 13:26:24

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.152 mW/g

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

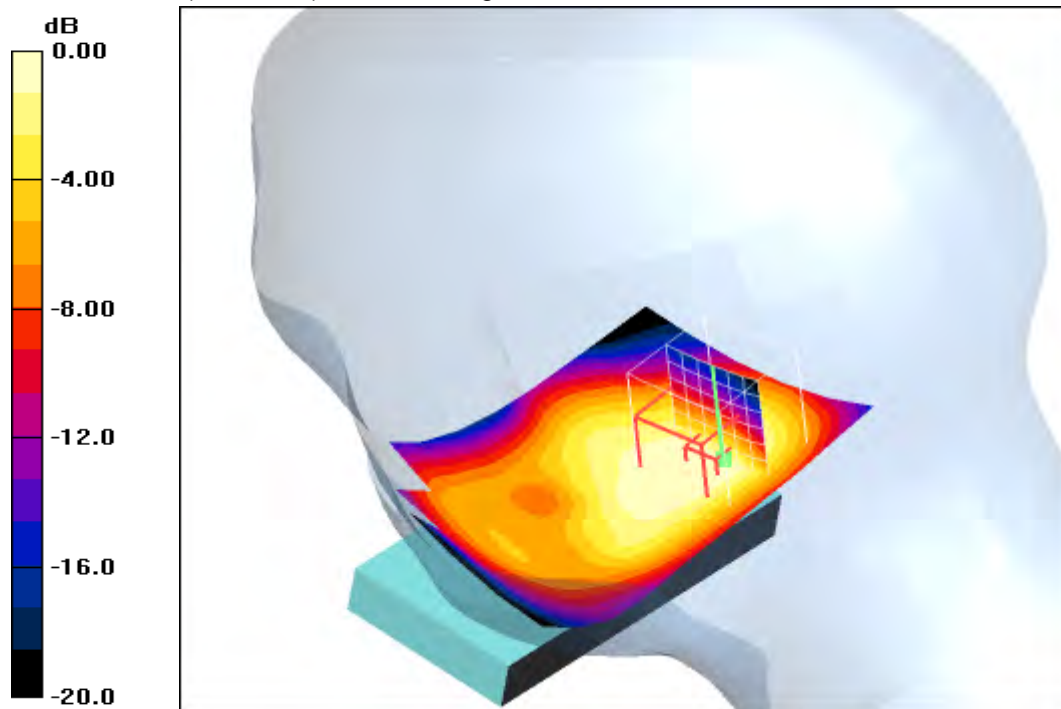
dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.77 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 0.294 W/kg

SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.079 mW/g

Maximum value of SAR (measured) = 0.151 mW/g



0 dB = 0.151mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-03 10:00:16 Date/Time: 2010-03-03 10:06:50

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

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

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.274 mW/g

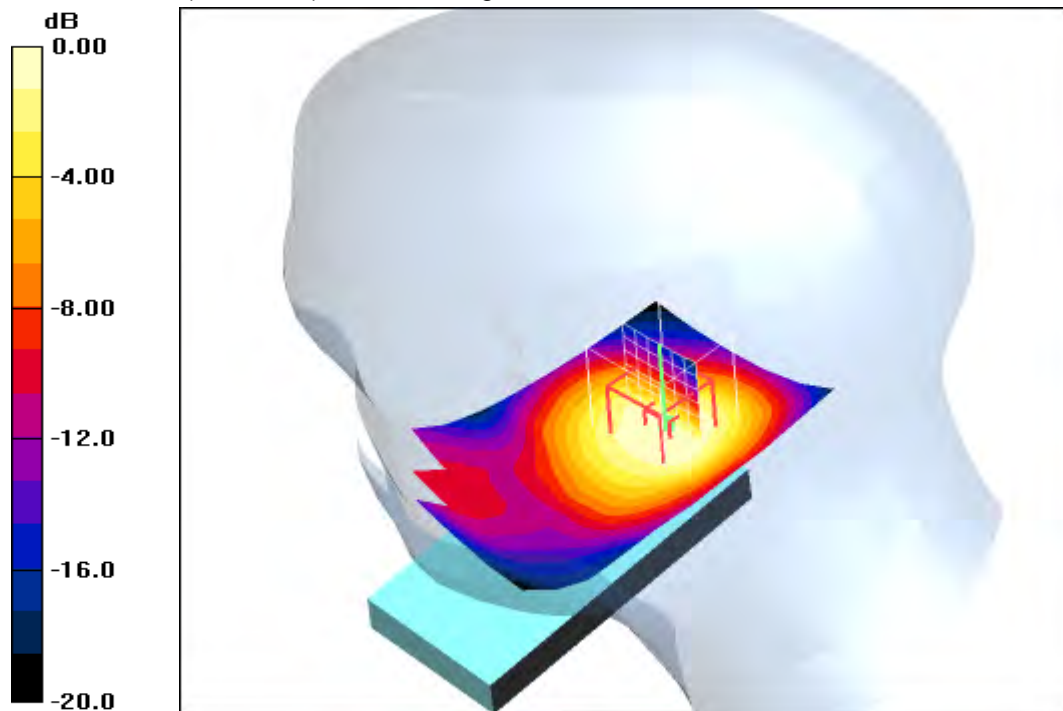
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.6 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.471 W/kg

SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.130 mW/g

Maximum value of SAR (measured) = 0.244 mW/g



0 dB = 0.244mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-03 11:06:03 Date/Time: 2010-03-03 11:12:42

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.261 mW/g

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

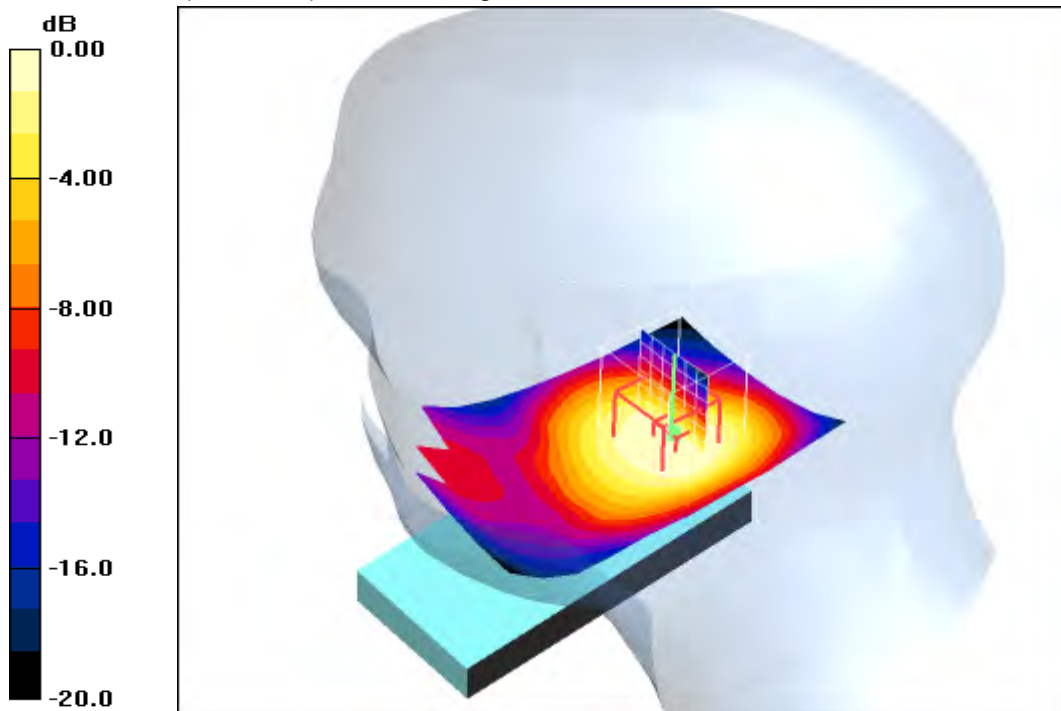
dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.2 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.440 W/kg

SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.224 mW/g



0 dB = 0.224mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-03 12:58:03 Date/Time: 2010-03-03 13:04:42

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.142 mW/g

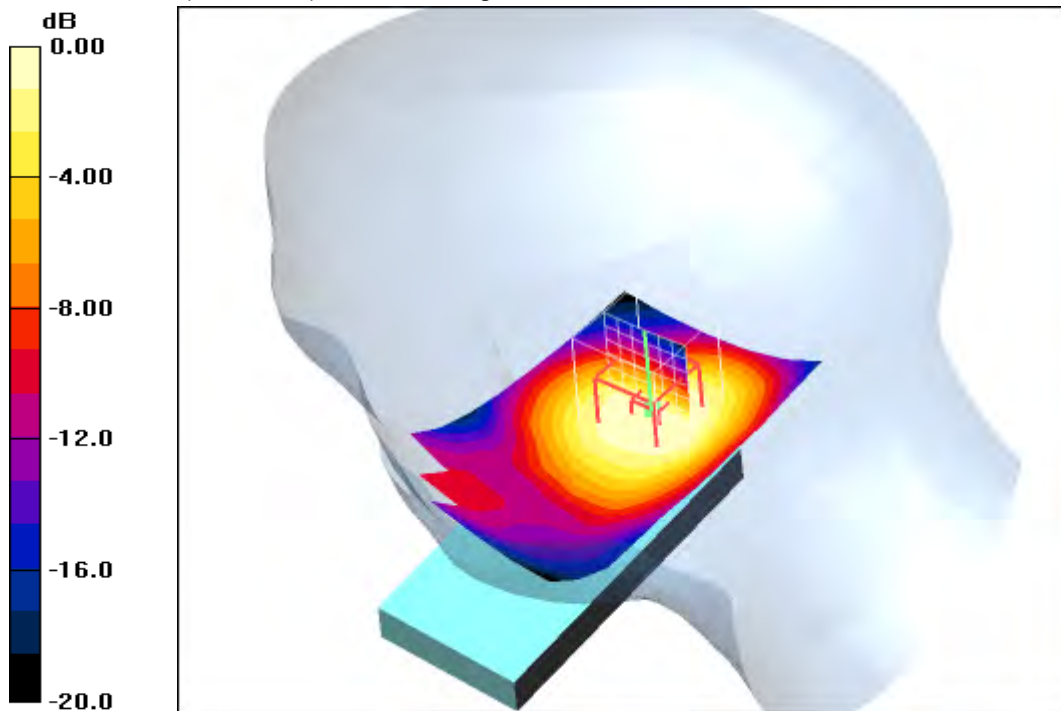
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.38 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.254 W/kg

SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.124 mW/g



0 dB = 0.124mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.6°C

Date/Time: 2010-03-03 13:47:06 Date/Time: 2010-03-03 13:55:18

IEEE1528_OET65-RightHandSide-WLAN open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

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

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (71x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.174 mW/g

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

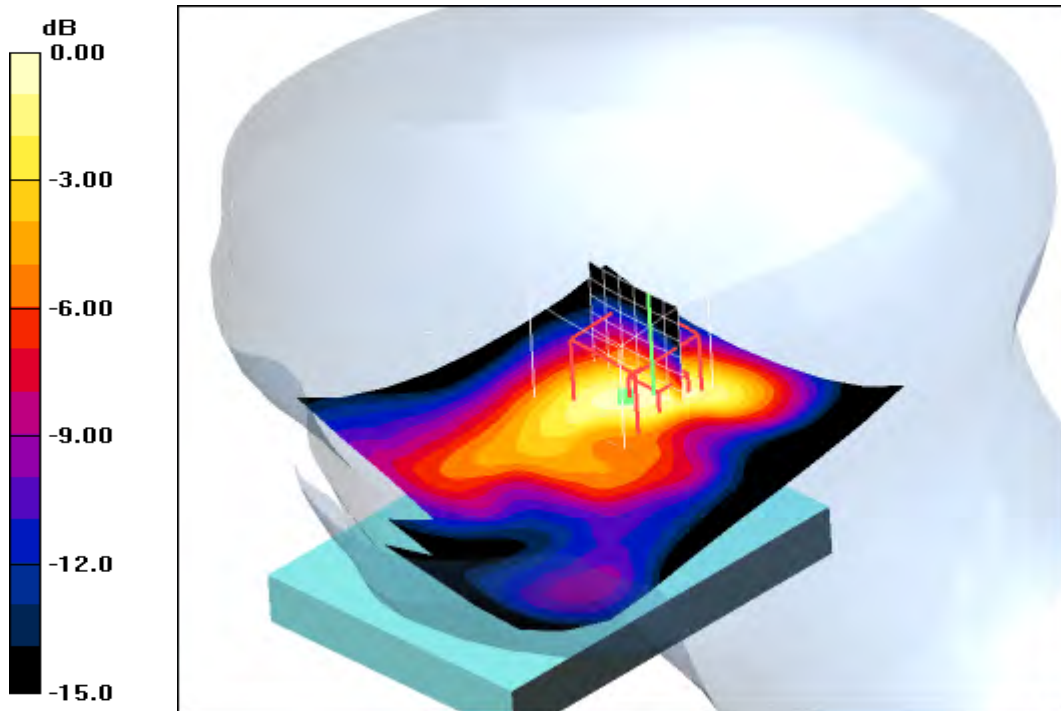
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.01 V/m; Power Drift = -0.120 dB

Peak SAR (extrapolated) = 0.425 W/kg

SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.079 mW/g

Maximum value of SAR (measured) = 0.191 mW/g



0 dB = 0.191mW/g

Additional information:

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-03 17:04:14 Date/Time: 2010-03-03 17:12:32

IEEE1528_OET65-RightHandSide-WLAN open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.111 mW/g

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

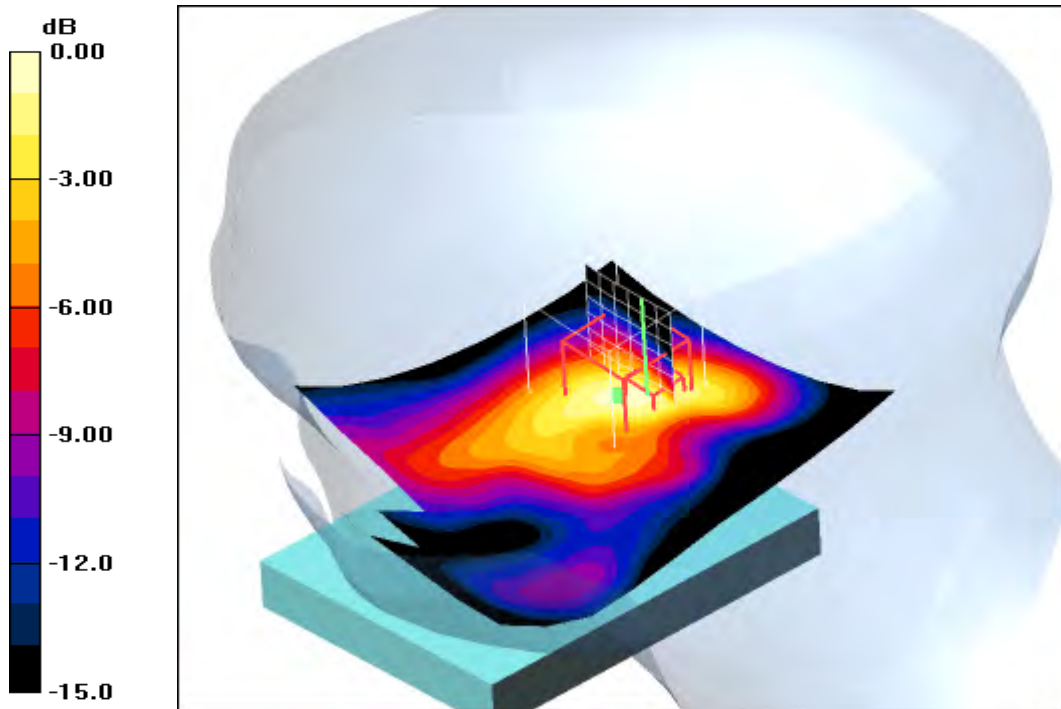
dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.49 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.286 W/kg

SAR(1 g) = 0.111 mW/g; SAR(10 g) = 0.051 mW/g

Maximum value of SAR (measured) = 0.126 mW/g



0 dB = 0.126mW/g

Additional information:

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-04 07:48:09 Date/Time: 2010-03-04 07:56:34

IEEE1528_OET65-RightHandSide-WLAN open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.072 mW/g

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

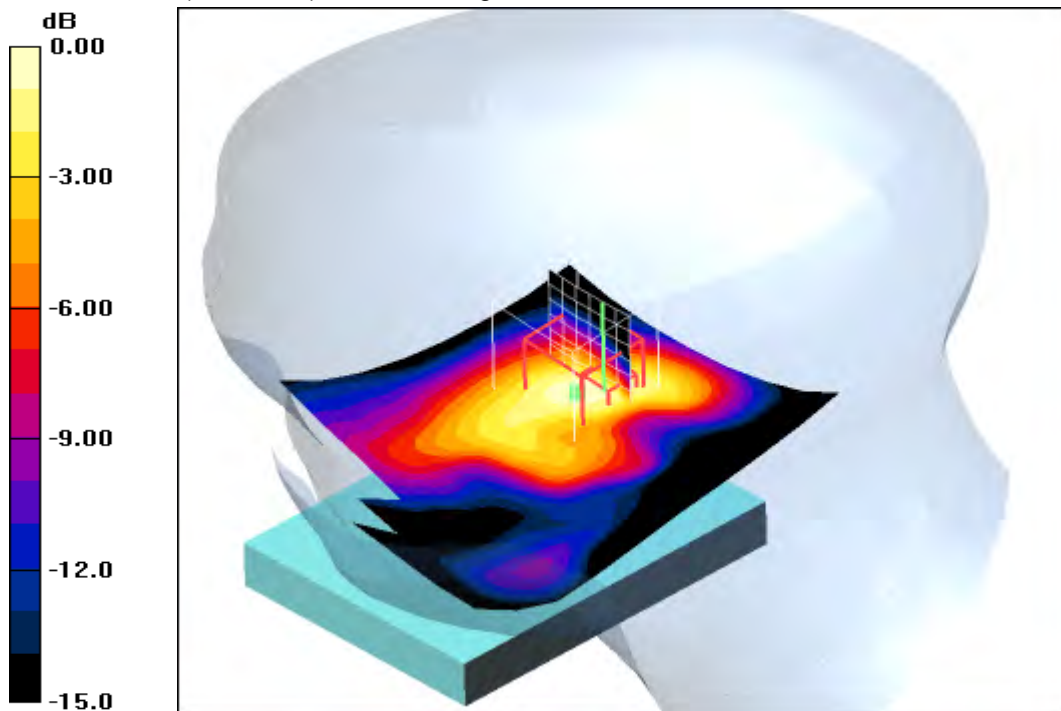
dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.84 V/m; Power Drift = -0.105 dB

Peak SAR (extrapolated) = 0.171 W/kg

SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.032 mW/g

Maximum value of SAR (measured) = 0.078 mW/g



0 dB = 0.078mW/g

Additional information:

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-03 14:10:18 Date/Time: 2010-03-03 14:18:47

IEEE1528_OET65-RightHandSide-WLAN open**DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48**

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; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.234 mW/g

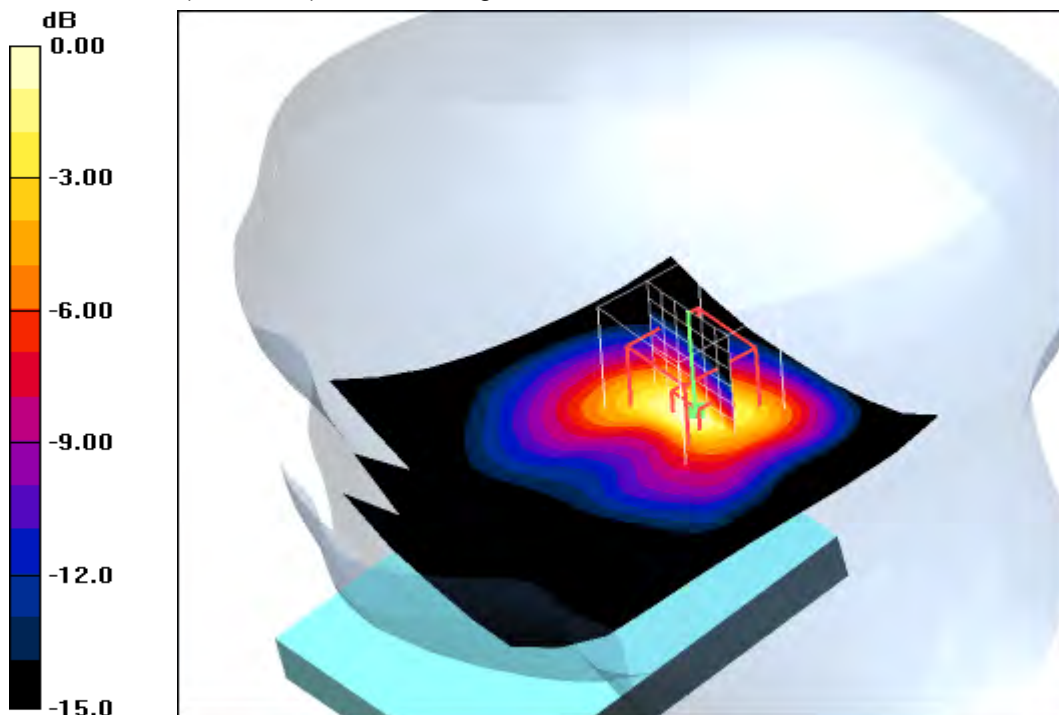
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 0.542 W/kg

SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.089 mW/g

Maximum value of SAR (measured) = 0.241 mW/g

**Additional information:**

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-03 16:40:28 Date/Time: 2010-03-03 16:49:11

IEEE1528_OET65-RightHandSide-WLAN open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

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

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

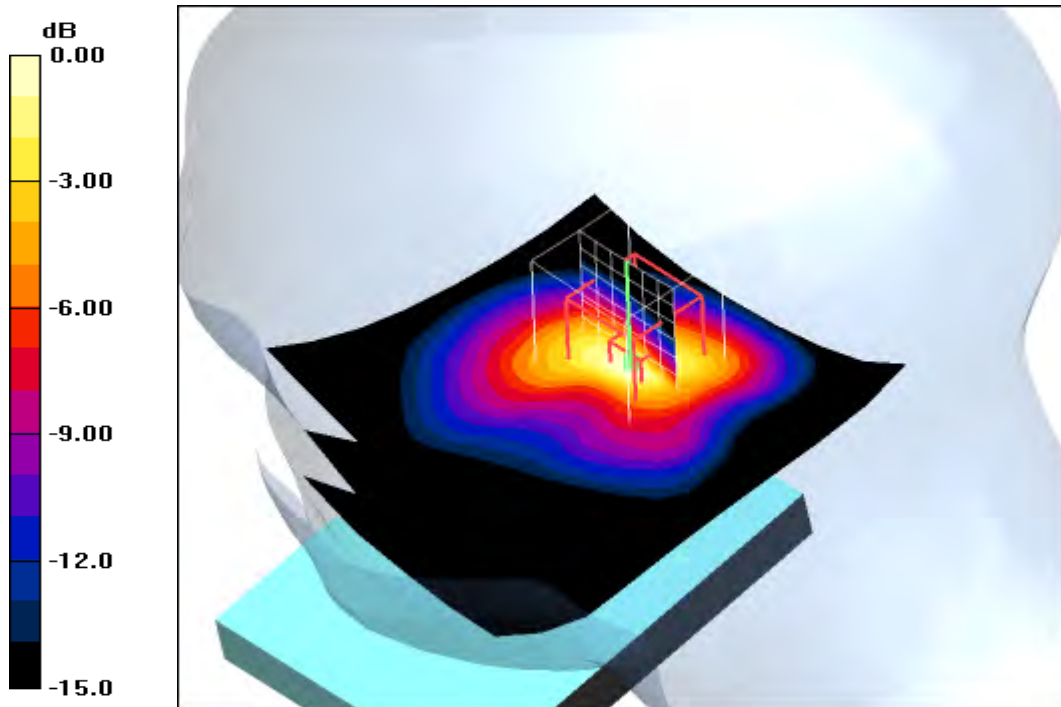
dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.39 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.366 W/kg

SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.058 mW/g

Maximum value of SAR (measured) = 0.153 mW/g



0 dB = 0.153mW/g

Additional information:

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-04 08:11:41 Date/Time: 2010-03-04 08:20:31

IEEE1528_OET65-RightHandSide-WLAN open

DUT: Sony Ericsson; Type: AAD-3880077-BV; Serial: BX9019RF48

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

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

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

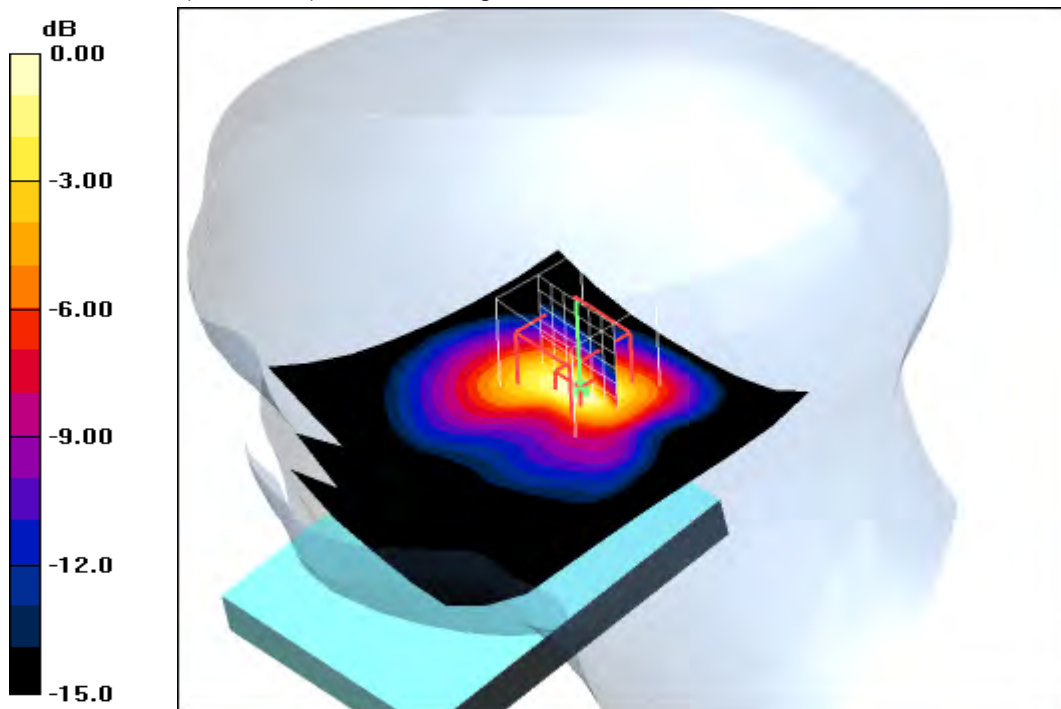
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.89 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.242 W/kg

SAR(1 g) = 0.092 mW/g; SAR(10 g) = 0.039 mW/g

Maximum value of SAR (measured) = 0.104 mW/g



0 dB = 0.104mW/g

Additional information:

ambient temperature: 22.2°C; liquid temperature: 21.1°C

Annex B.6: WLAN 2450MHz body

Date/Time: 2010-03-01 18:06:03 Date/Time: 2010-03-01 18:11:54 Date/Time: 2010-03-01 18:23:45

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3352031-BV; Serial: BX9019RF48

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

Medium: M2450 Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.061 mW/g

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

Reference Value = 5.55 V/m; Power Drift = -0.138 dB

Peak SAR (extrapolated) = 0.101 W/kg

SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.057 mW/g

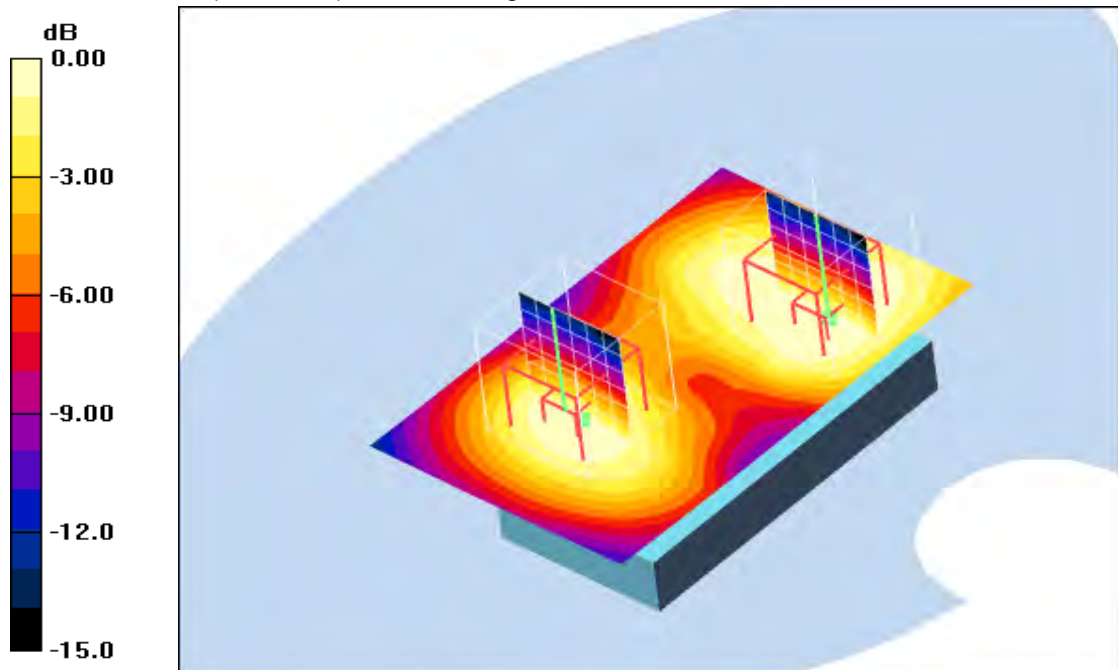
Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.55 V/m; Power Drift = -0.138 dB

Peak SAR (extrapolated) = 0.089 W/kg

SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.029 mW/g

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



0 dB = 0.053mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

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

Date/Time: 2010-03-01 18:44:00 Date/Time: 2010-03-01 18:50:52 Date/Time: 2010-03-01 19:02:54

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3352031-BV; Serial: BX9019RF48

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

Medium: M2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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 (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.088 mW/g

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

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

Reference Value = 6.80 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 0.157 W/kg

SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.085 mW/g

Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

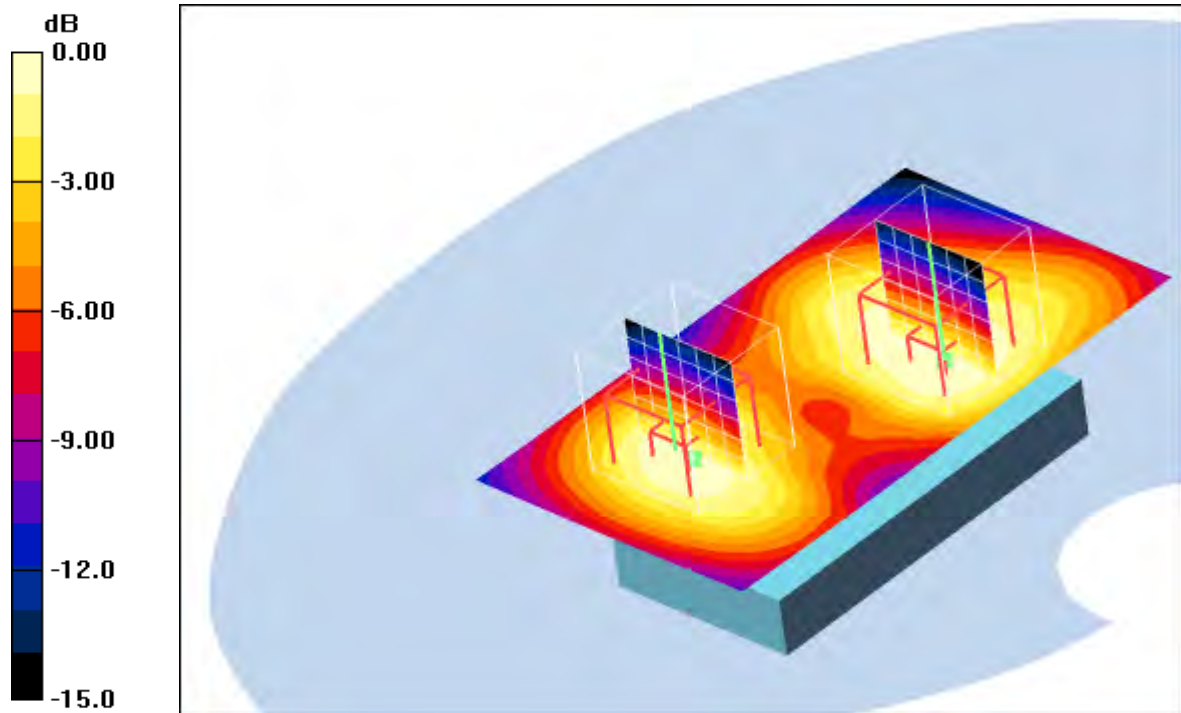
dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.80 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 0.145 W/kg

SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.044 mW/g

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



0 dB = 0.082mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

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

Date/Time: 2010-03-01 19:16:59 Date/Time: 2010-03-01 19:47:24 Date/Time: 2010-03-01 19:59:24

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3352031-BV; Serial: BX9019RF48

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

Medium: M2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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=15mm, dy=15mm

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

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

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

Reference Value = 5.41 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.078 W/kg

SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.024 mW/g

Maximum value of SAR (measured) = 0.043 mW/g

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

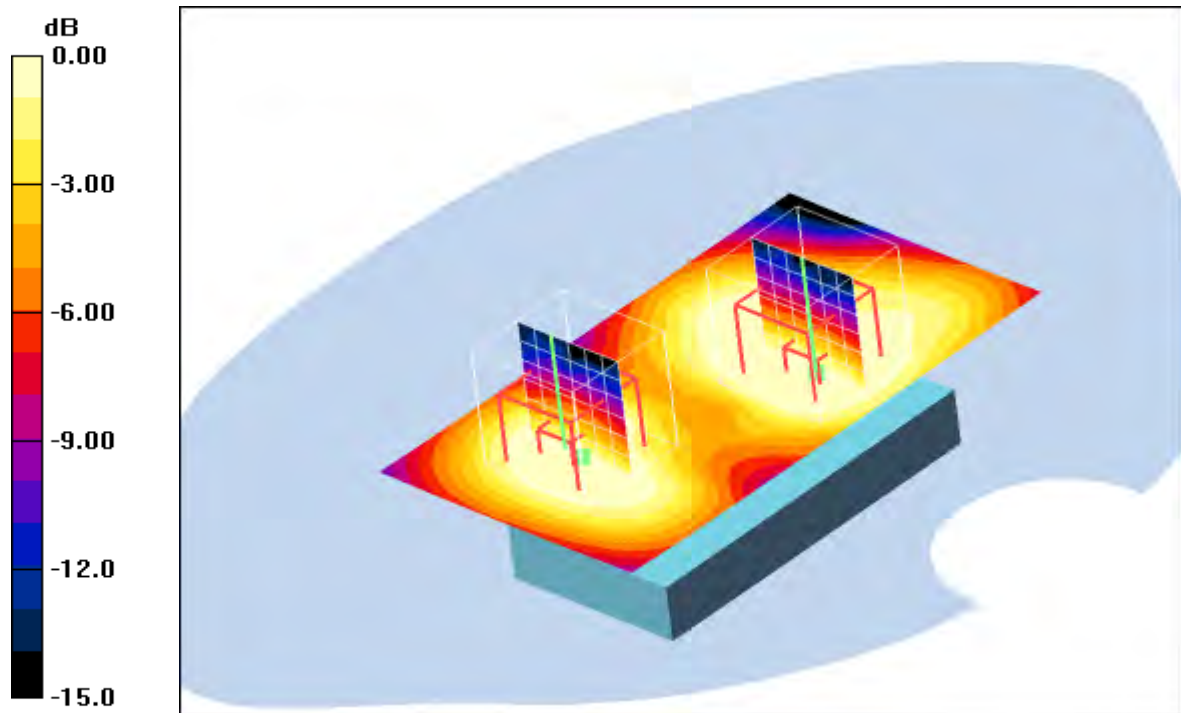
dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.41 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.069 W/kg

SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.021 mW/g

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



0 dB = 0.039mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

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

Date/Time: 2010-03-01 21:26:39 Date/Time: 2010-03-01 21:33:31 Date/Time: 2010-03-01 21:46:01

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3352031-BV; Serial: BX9019RF48

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

Medium: M2450 Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.087 mW/g

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

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

Reference Value = 6.80 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 0.151 W/kg

SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.048 mW/g

Maximum value of SAR (measured) = 0.084 mW/g

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

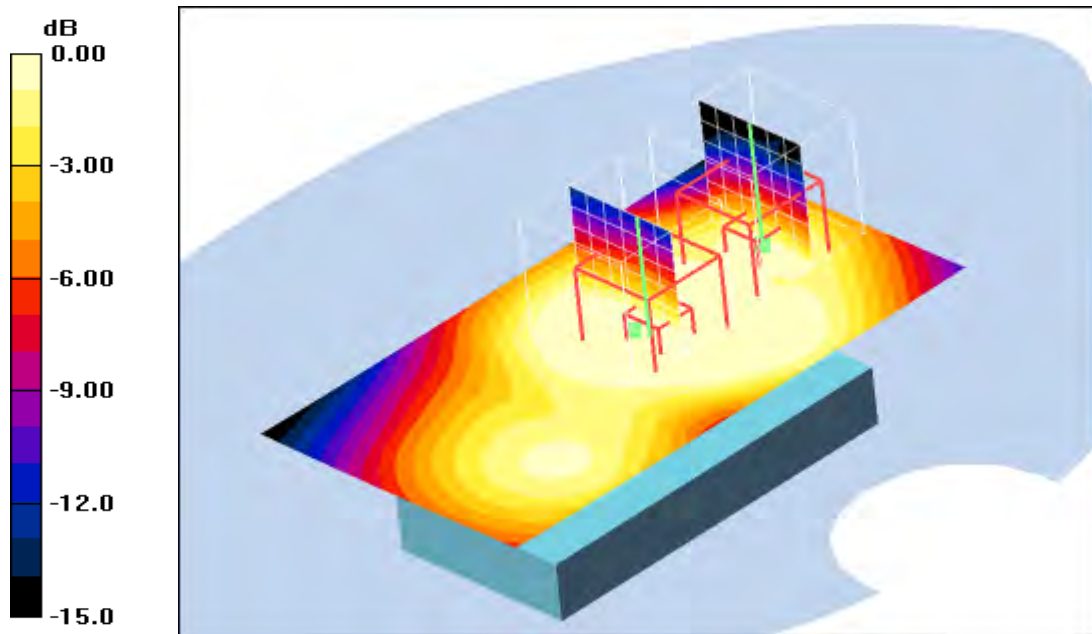
dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.80 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 0.120 W/kg

SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.028 mW/g

Maximum value of SAR (measured) = 0.056 mW/g



0 dB = 0.056mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-01 20:48:02 Date/Time: 2010-03-01 20:54:57 Date/Time: 2010-03-01 21:07:34

IEEE1528_OET65-Body-WLAN**DUT: Sony Ericsson; Type: AAD-3352031-BV; Serial: BX9019RF48**

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

Medium: M2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.083 mW/g

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

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

Reference Value = 6.79 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.148 W/kg

SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.046 mW/g

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

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

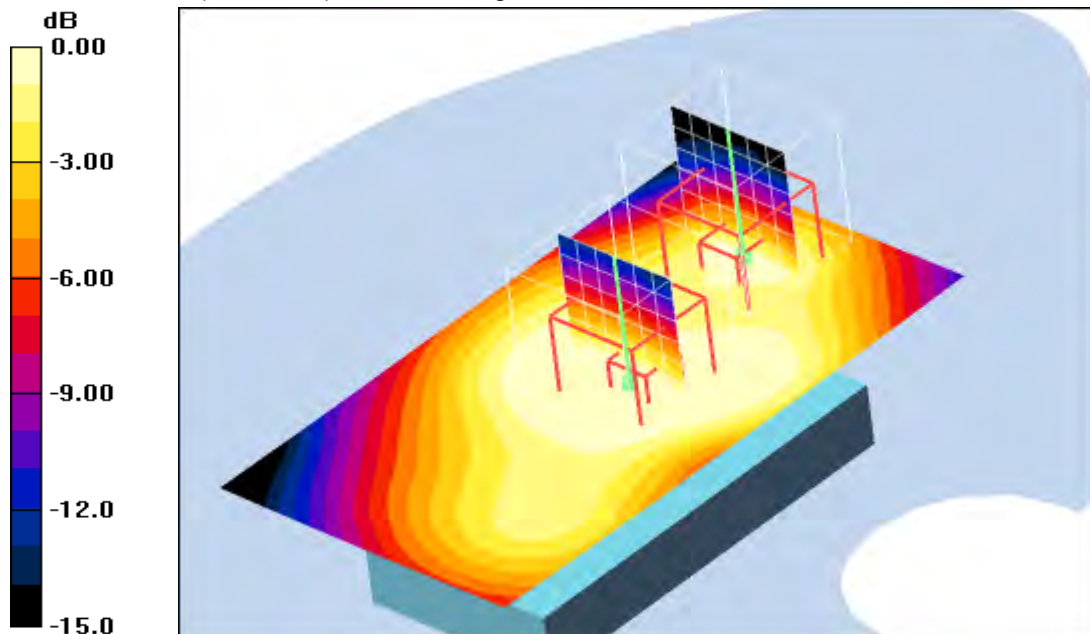
dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.79 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.121 W/kg

SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.029 mW/g

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



0 dB = 0.058mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-01 20:14:54 Date/Time: 2010-03-01 20:21:39 Date/Time: 2010-03-01 20:33:43

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3352031-BV; Serial: BX9019RF48

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

Medium: M2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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) = 0.046 mW/g

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

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

Reference Value = 4.97 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 0.081 W/kg

SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.025 mW/g

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

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

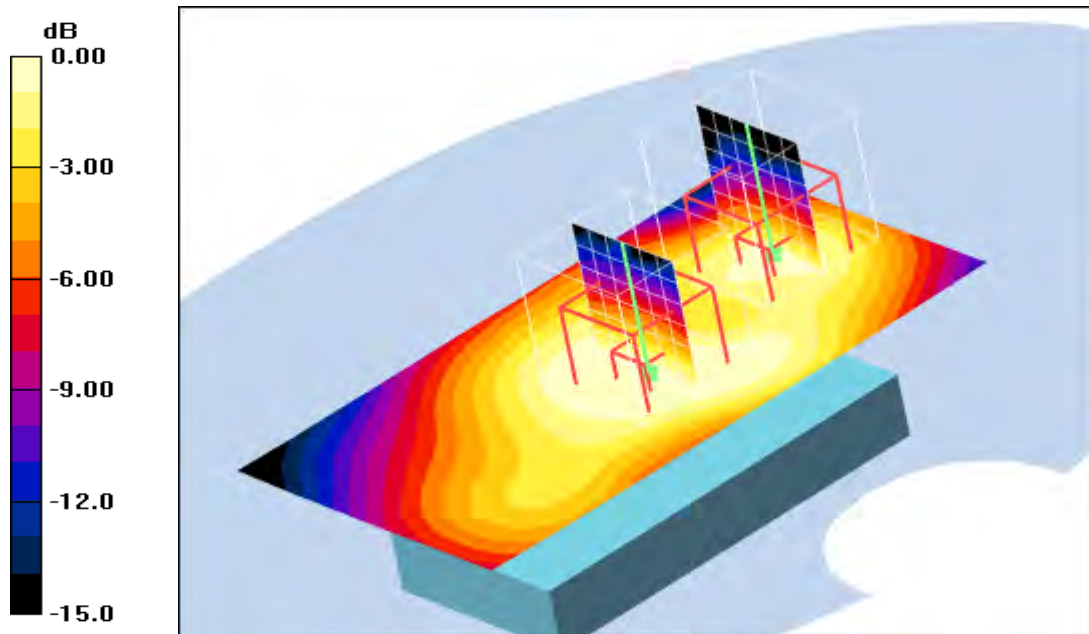
dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.97 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 0.079 W/kg

SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.019 mW/g

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



0 dB = 0.039mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.2°C; liquid temperature: 21.1°C

Date/Time: 2010-03-02 08:56:15 Date/Time: 2010-03-02 09:03:05 Date/Time: 2010-03-02 09:14:49

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3352031-BV; Serial: BX9019RF48

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

Medium: M2450 Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- 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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Rear 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 = 4.39 V/m; Power Drift = -0.063 dB

Peak SAR (extrapolated) = 0.063 W/kg

SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.035 mW/g

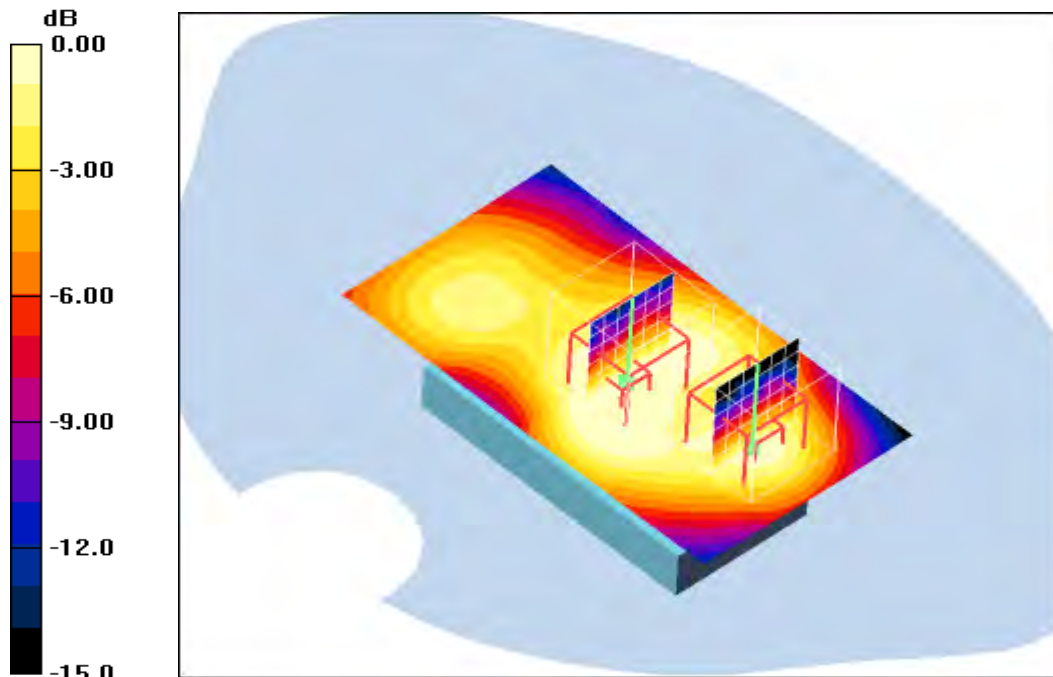
Rear position - Low 6Mbps/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.39 V/m; Power Drift = -0.063 dB

Peak SAR (extrapolated) = 0.060 W/kg

SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.014 mW/g

Maximum value of SAR (measured) = 0.028 mW/g



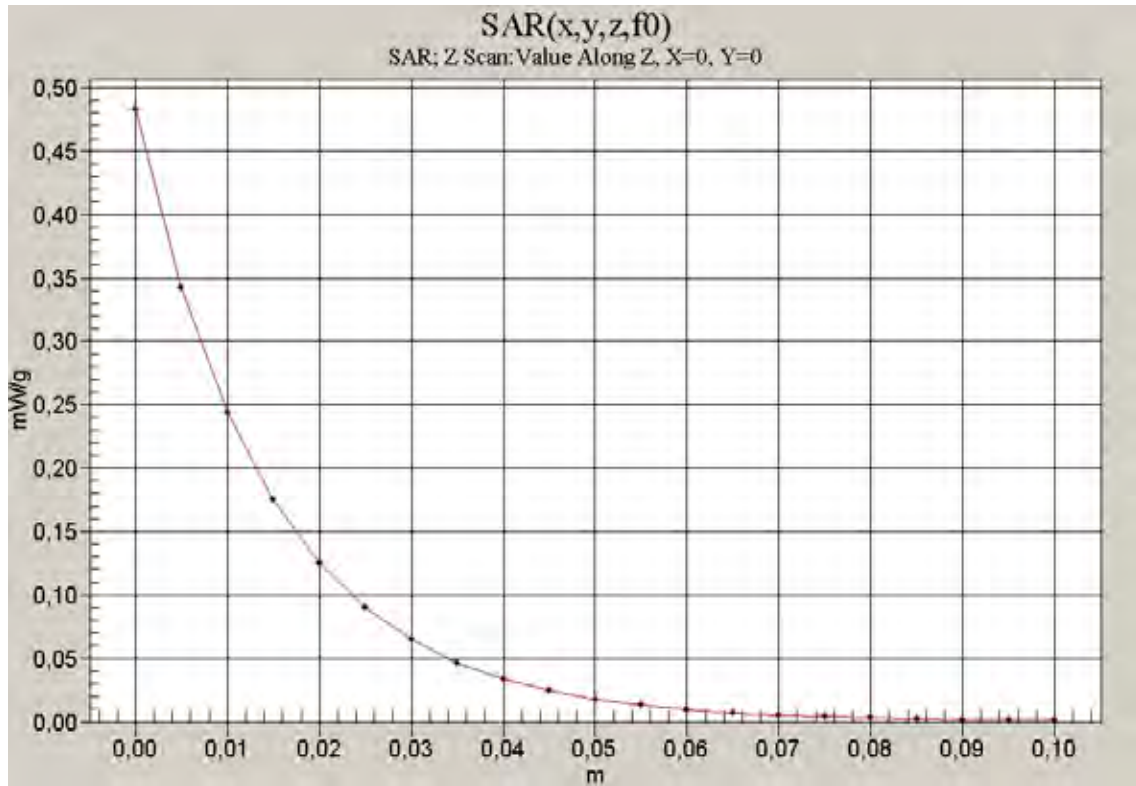
0 dB = 0.028mW/g

Additional information:

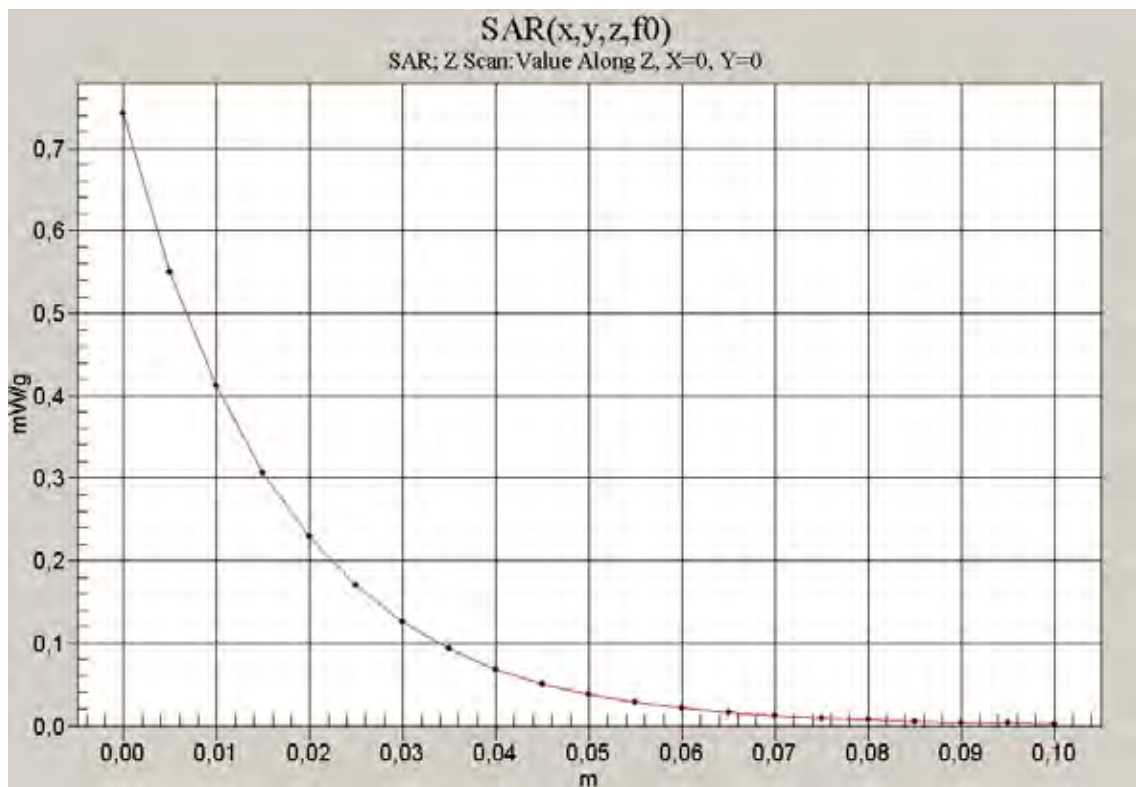
position or distance of DUT to SAM: 15 mm

ambient temperature: 23.2°C; liquid temperature: 21.1°C

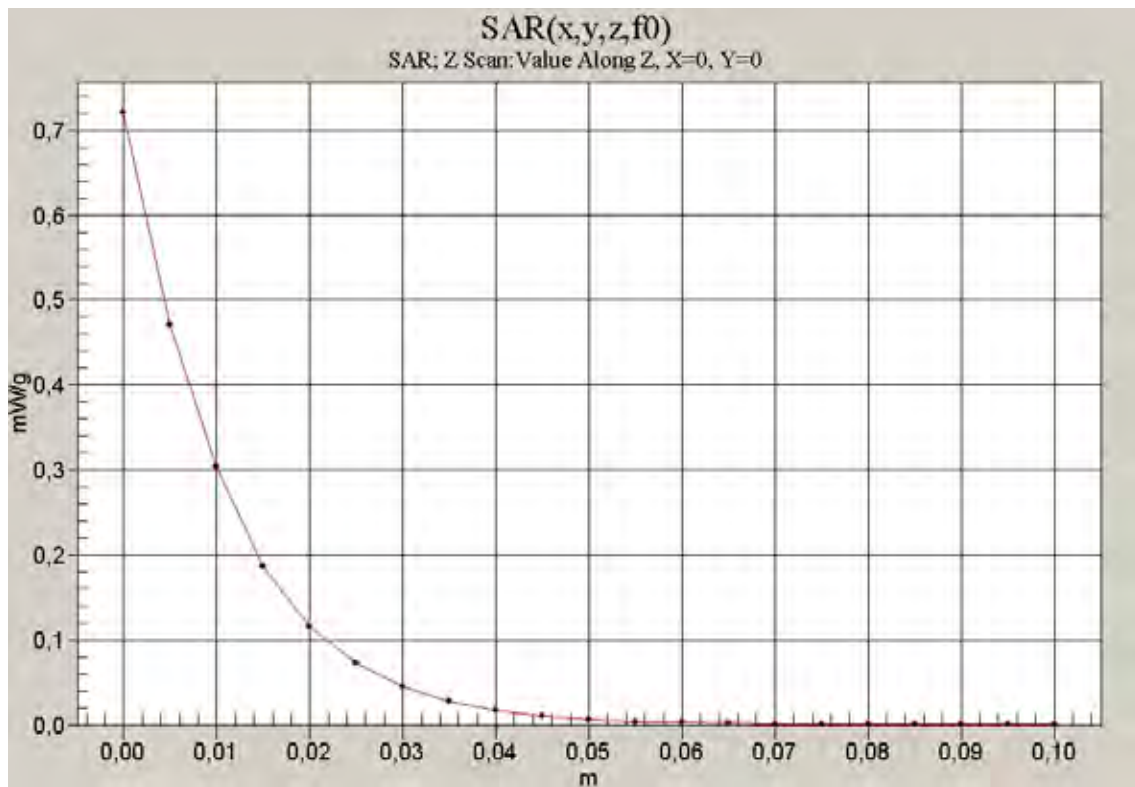
Annex B.7: Z-axis scan



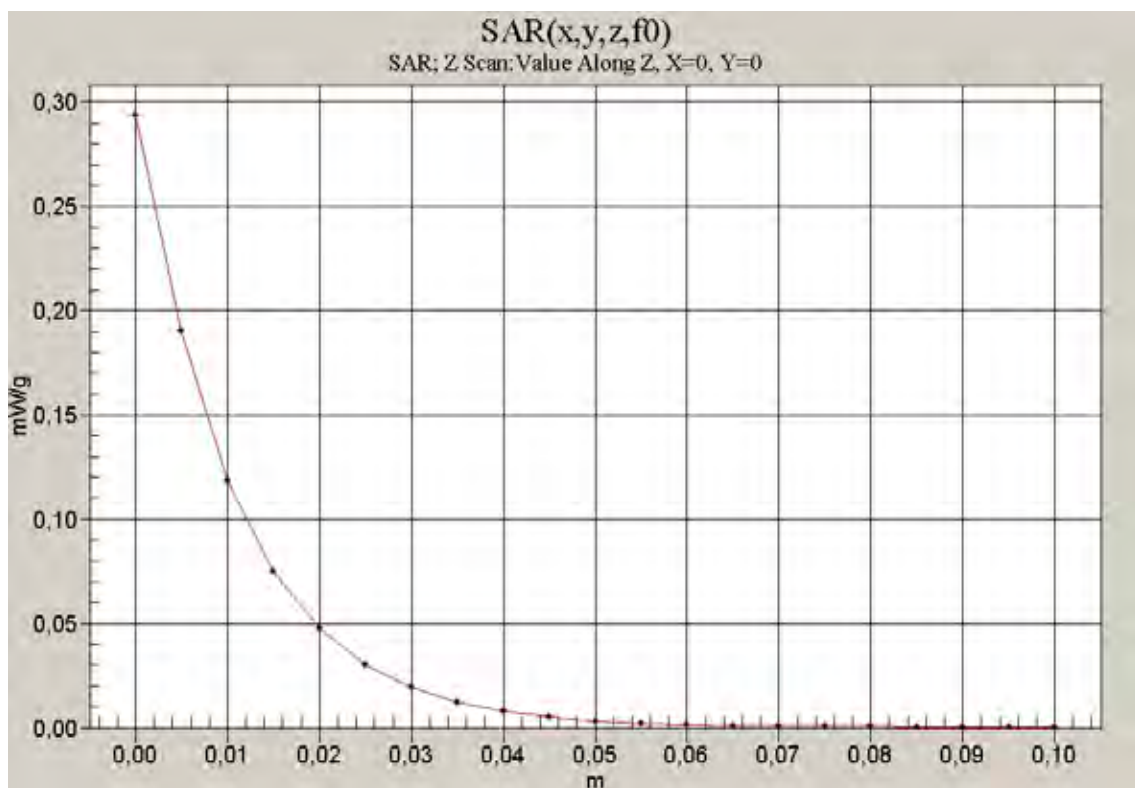
850 head



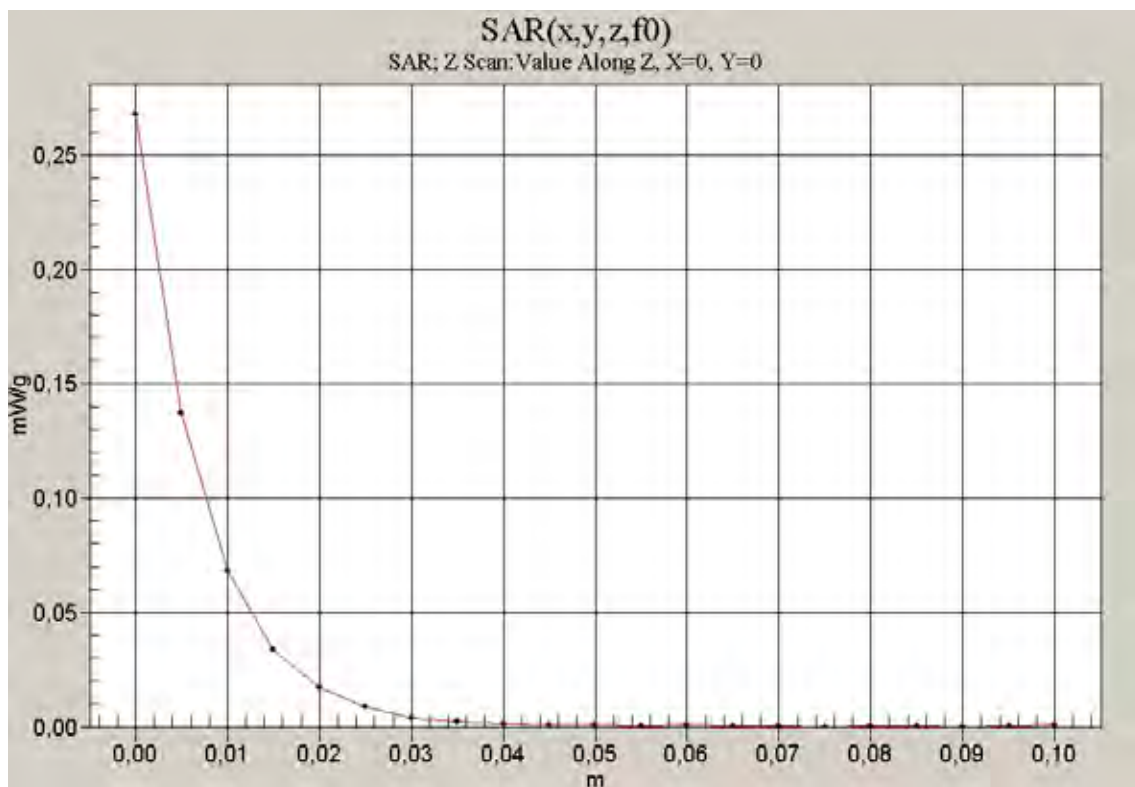
850 body



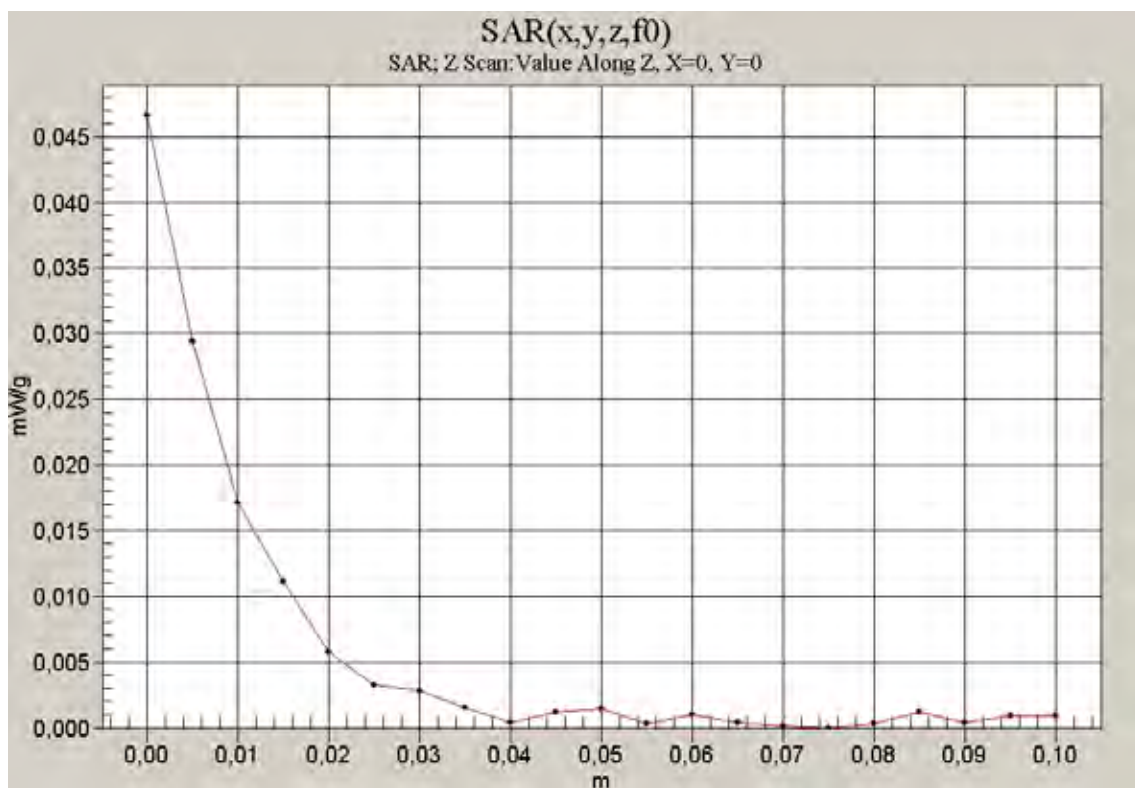
1900 head



1900 body



2450 head



2450 body

Annex C: Photo documentation

Photo 1: Measurement System DASY 4



Photo 2: DUT - front view



Photo 3: DUT - front view (slide opened)



Photo 4: DUT - side view



Photo 5: DUT - rear view



Photo 6: DUT - rear view (open)



Photo 7: DUT - rear view (open) without battery



Photo 8: DUT - rear view (label)



Photo 9: battery



Photo 10: Test position left hand touched



Photo 11: Test position left hand touched

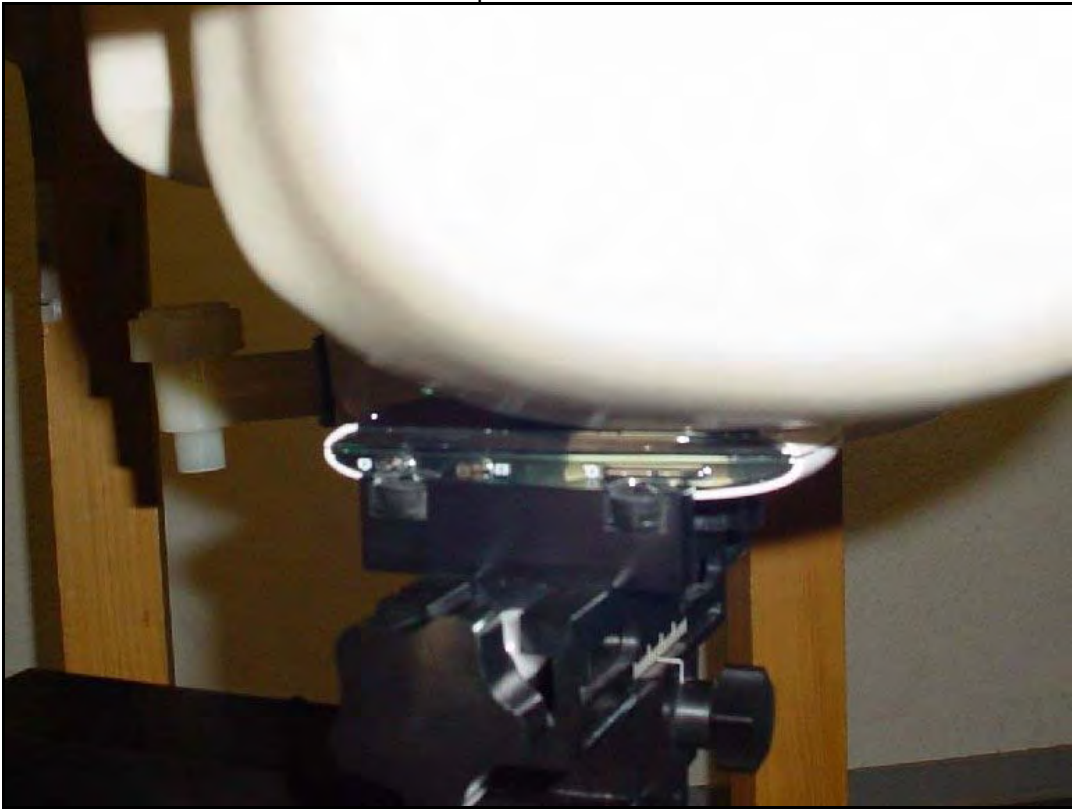


Photo 12: Test position left hand touched



Photo 13: Test position left hand tilted 15°



Photo 14: Test position left hand tilted 15°



Photo 15: Test position left hand touched (slide opened)

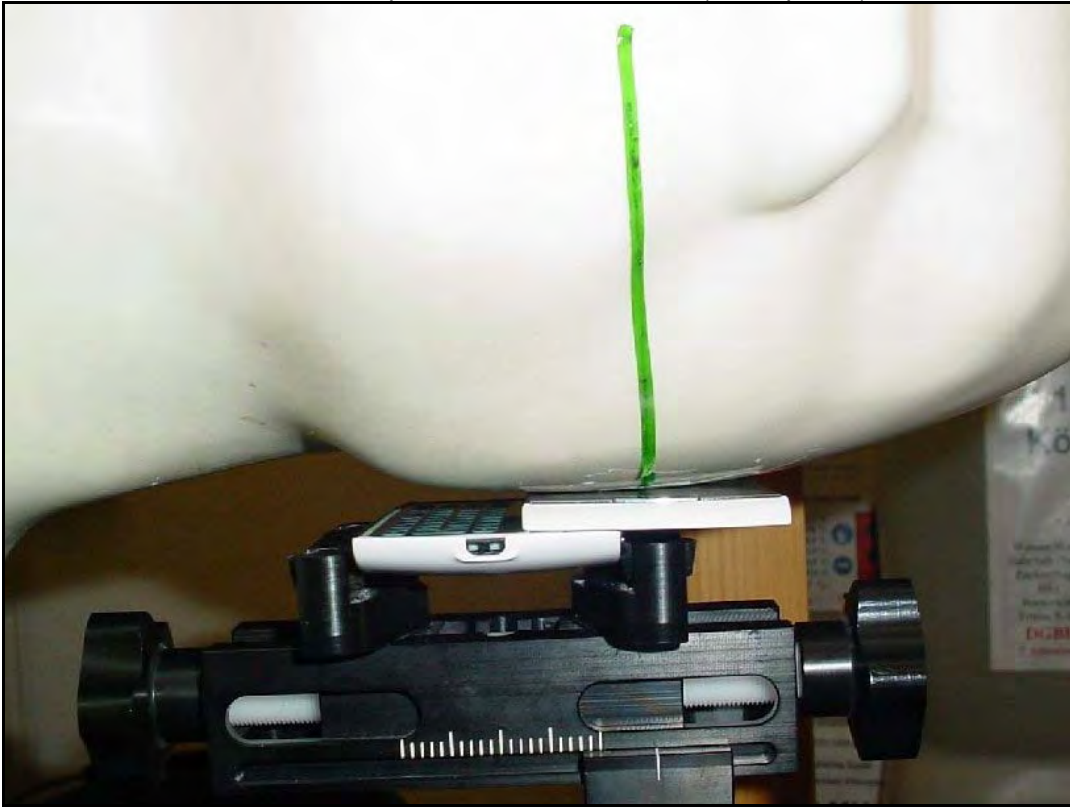


Photo 16: Test position left hand touched (slide opened)

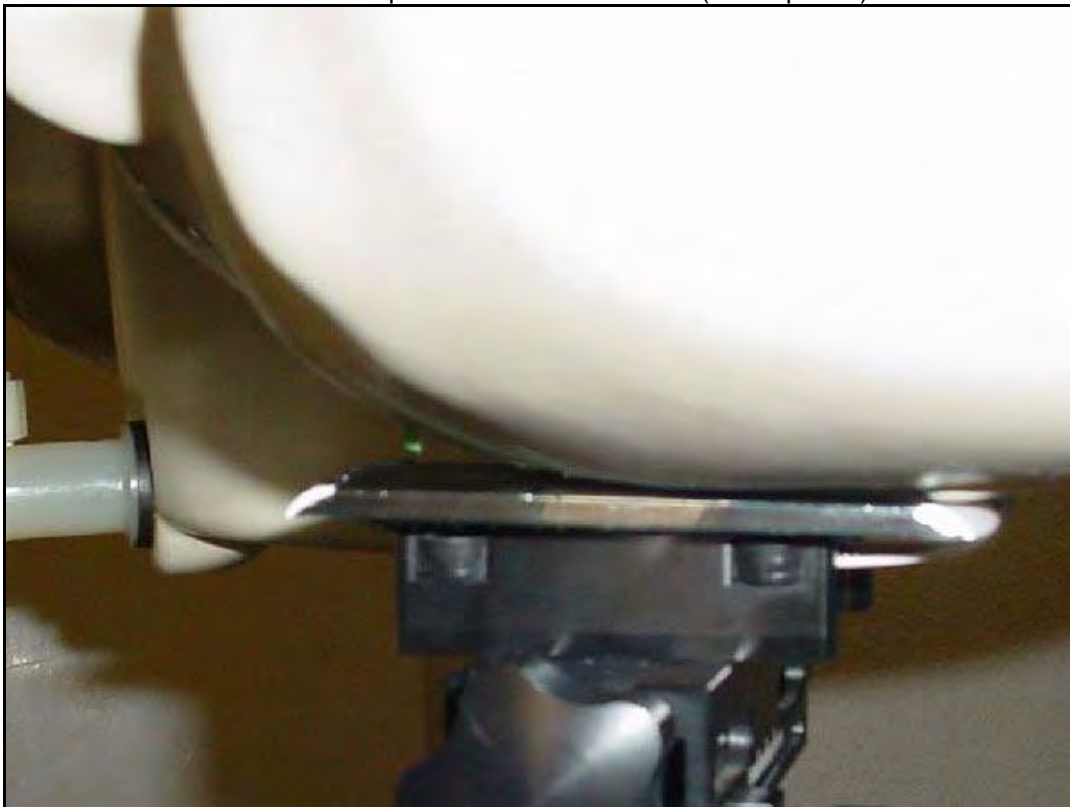


Photo 17: Test position left hand touched (slide opened)



Photo 18: Test position left hand tilted 15° (slide opened)

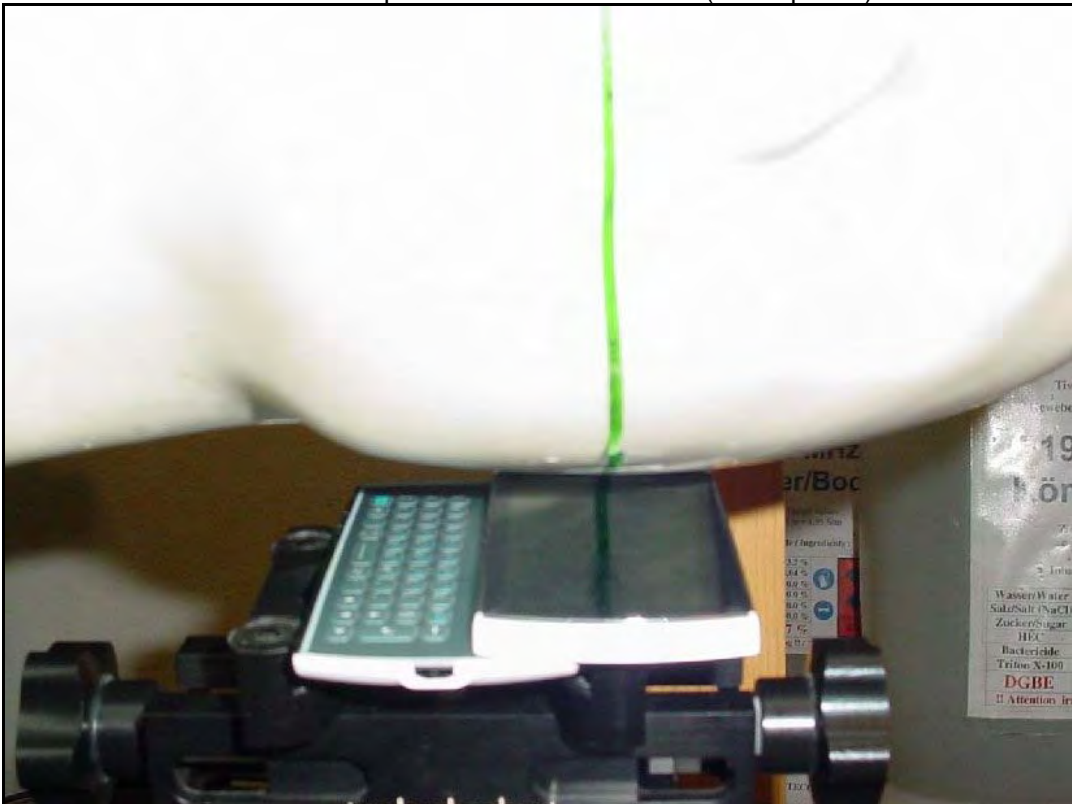


Photo 19: Test position left hand tilted 15° (slide opened)



Photo 20: Test position right hand touched

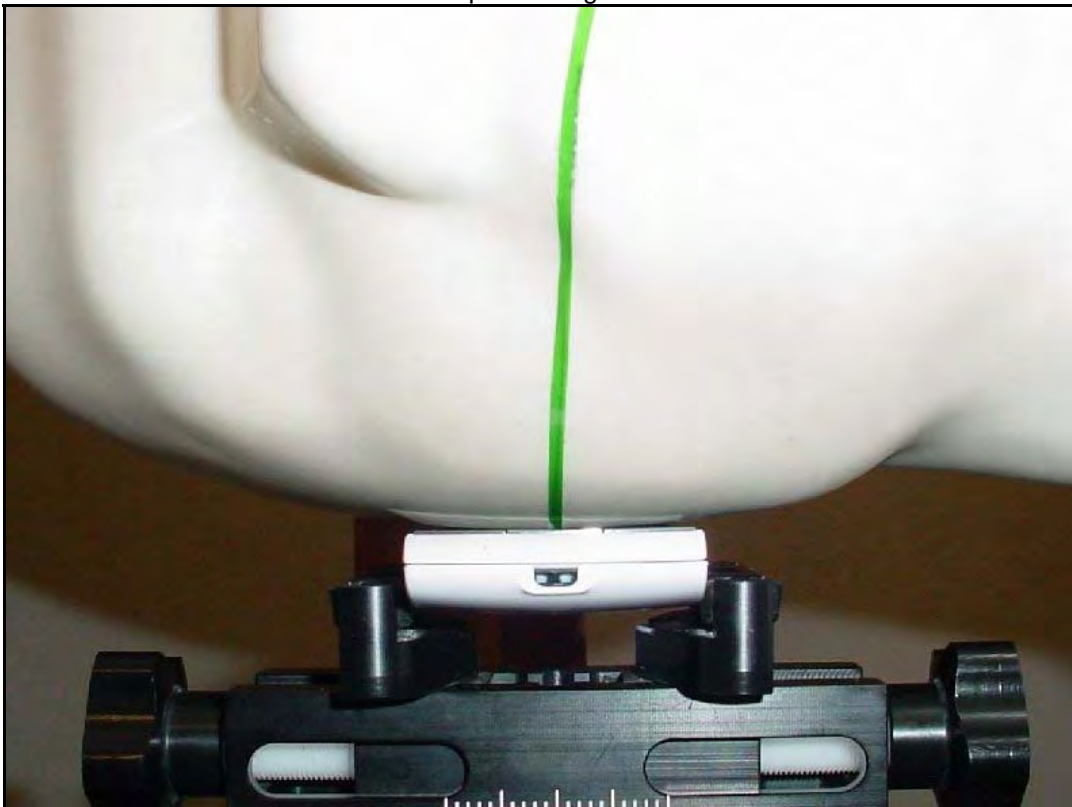


Photo 21: Test position right hand touched



Photo 22: Test position right hand touched



Photo 23: Test position right hand tilted 15°



Photo 24: Test position right hand tilted 15°



Photo 25: Test position right hand touched (slide opened)

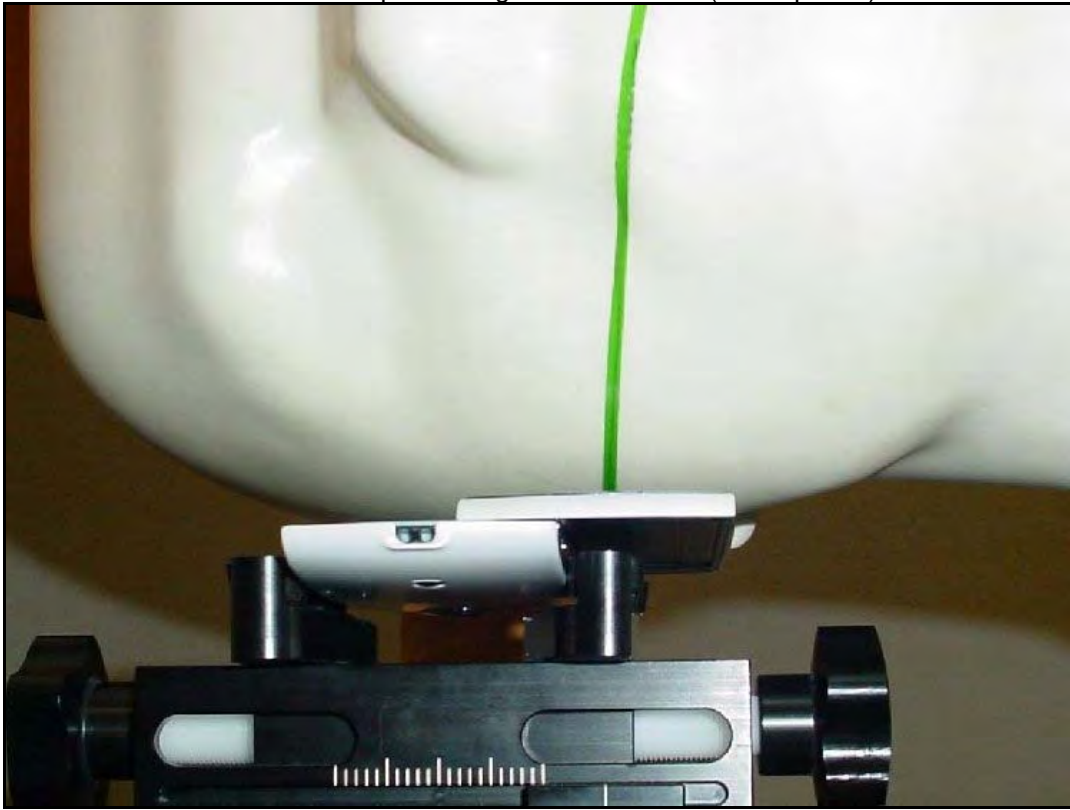


Photo 26: Test position right hand touched (slide opened)



Photo 27: Test position right hand touched (slide opened)

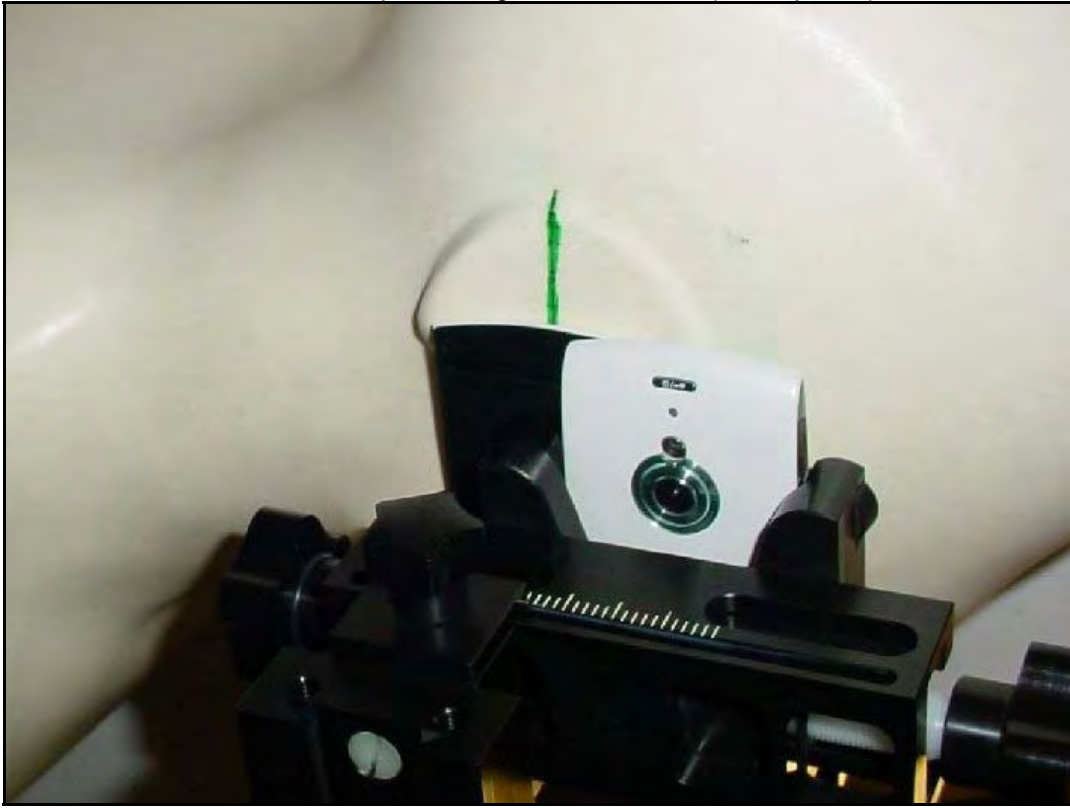


Photo 28: Test position right hand tilted 15° (slide opened)

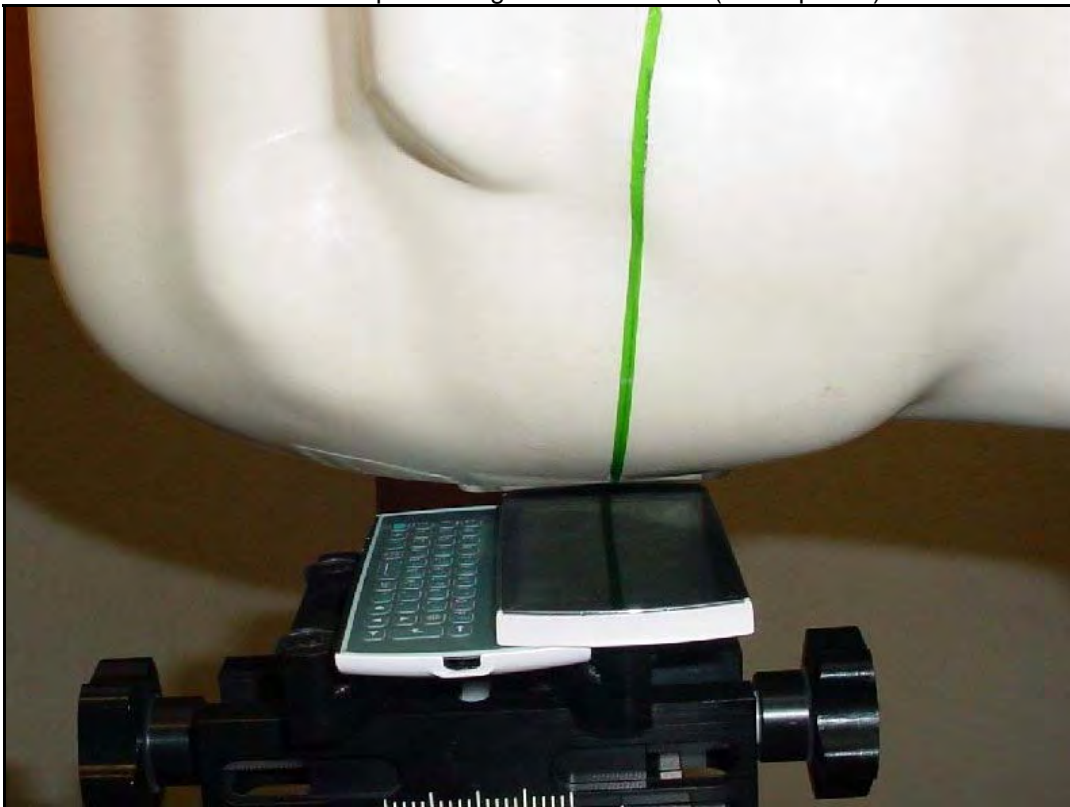


Photo 29: Test position right hand tilted 15° (slide opened)



Photo 30: Test position body worn front side with 15 mm distance



Photo 31: Test position body worn rear side with 15 mm distance



Annex C.1: 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

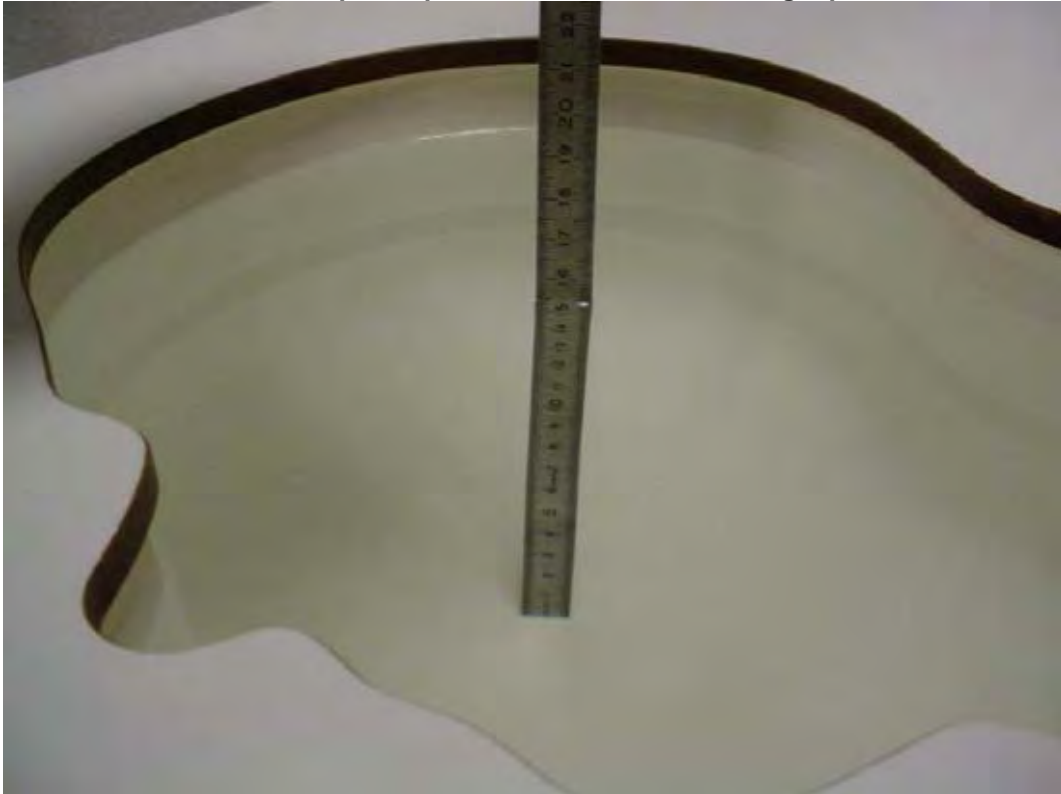


Photo 4: Liquid depth 1900 MHz body simulating liquid

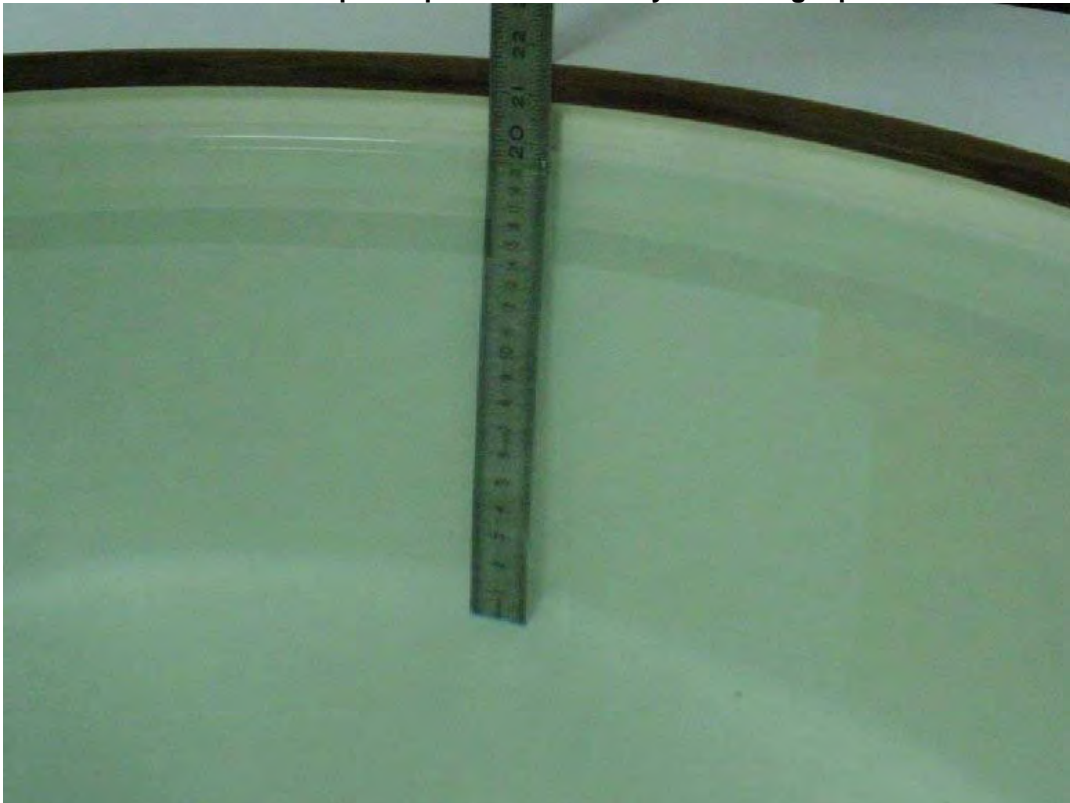


Photo 5: Liquid depth 2450MHz head simulating liquid

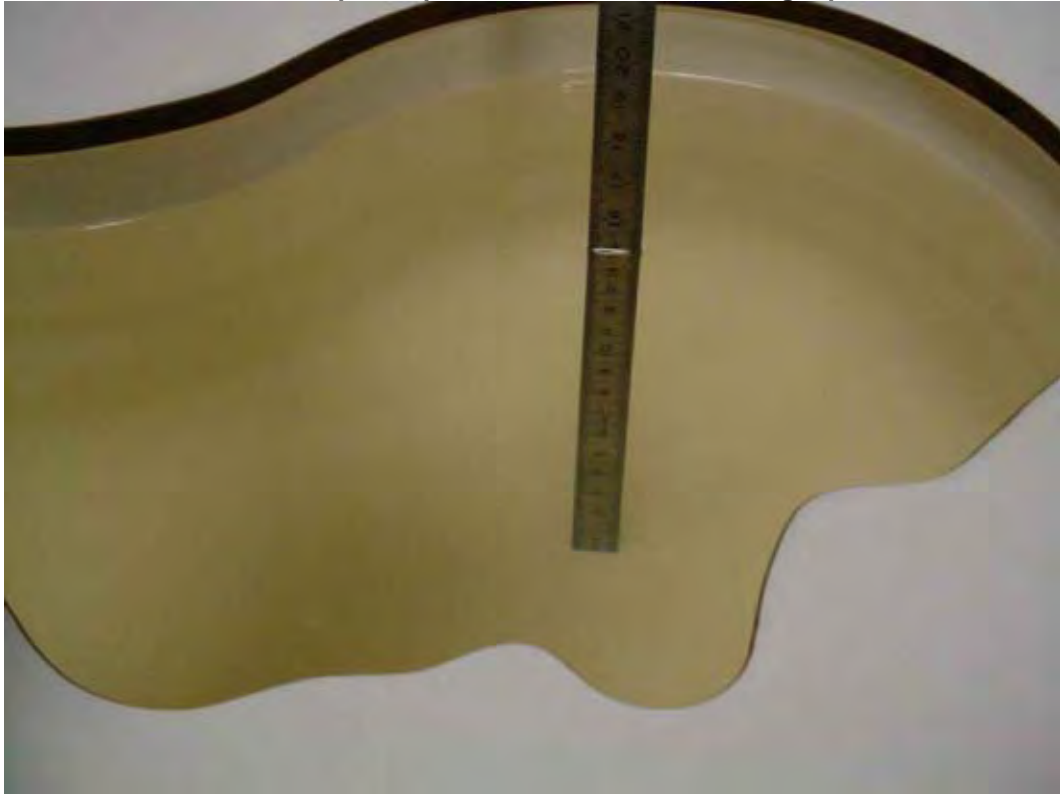


Photo 6: Liquid depth 2450 MHz body simulating liquid



Annex D: RF Technical Brief Cover Sheet acc. to RSS-102

1. COMPANY NUMBER: 4170B
2. MODEL NUMBER: A3880077
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 and 100 %
- Standard used for evaluation: RSS-102 Issue 4 (2010-03)
- SAR value: **1.030 W/kg.** Measured Computed Calculated

(b) SAR Evaluation: Body-worn Device

- Multiple transmitters: Yes No
- Evaluated against exposure limits: General Public Use Controlled Use
- Duty cycle used in evaluation: 25 and 100 %
- Standard used for evaluation: RSS-102 Issue 4 (2010-03)
- SAR value: **0.923 W/kg.** Measured Computed Calculated

Annex D.1: Declaration of RF Exposure Compliance

ATTESTATION: I attest that the information provided in Annex D: is correct; that a Technical Brief was prepared and the information it contains is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed and that the device meets the SAR and/or RF exposure limits of RSS-102.

Signature:

Date: **2010-03-09**

NAME : **Thomas Vogler**

TITLE : Dipl.-Ing. (FH)

COMPANY : CETECOM ICT Services GmbH

Annex E: Calibration parameters

Calibration parameters are described in the additional document :

Appendix to test report no. 1-1954-09-02/10-A Calibration data, Phantom certificate and detail information of the DASY4 System

Annex F: Document History

Version	Applied Changes	Date of Release
	Initial Release	2010-03-09
A	Applicant corrected	2010-03-29

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