SAR TEST REPORT

Specific Absorption Rate

Date of Issue : January 11, 2007 **Test Report No : 00431-4529-C6093**

Equipment Under Test (EUT) :	Dual-Band(GSM850/GSM1900) GSM phone with Bluetooth
Model Name(s) :	ME600d
FCC ID:	BEJME600D
Manufacturer :	LG Electronics, Inc.
Applicant :	LG Electronics, Inc.
Application Type :	Certification
FCC Rule Part(s) :	§ 2.1093; FCC/OET Bulletin 65 Supplement C [July 2001]
FCC Classification :	Licensed Transmitter Held to Ear (PCE)
Test Result :	PASS

SUMMARY

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in European standard EN50360 : 2001 and had been tested in accordance with the measurement procedures specified in European standard EN50361:2001, IEEE 1528 – Dec. 2003, FCC/OET bulletin 65 Supplement C(2001) , Public notice 02-1438(2002), ANSI IEEE standard C95.1(2005) and C95.3(2002)
※ The test results in this test report apply only to sample(s) tested.

Approved by

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Note : The result in this test report apply only to sample tested.

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1. TEST RESULT SUMMARY

Model Name(s) :	ME600d
FCC ID:	BEJME600D
Date of Test :	November 22~24, 2006 January 5, 2007
Date of Issue :	January 11, 2007
Address of Test Site :	60-39, Gasan-Dong, Gumchon-Gu, Seoul 153-801, Korea.
Responsible Test Engineer :	Eui-Soon, Park
Test Engineer :	Chan-ho, Jung
EUT Type :	Dual-Band GSM phone with Bluetooth
Tx Frequency :	824.20 ~ 848.80 MHz (GSM850) 1850.20 ~ 1909.80 MHz (GSM1900)
Rx Frequency :	869.20 ~ 893.80 MHz (GSM850) 1930.20 ~ 1989.80 MHz (GSM1900)
Transmit Output Power :	GSM850: 32.5dBm GSM1900: 29.5dBm

Maximum Results Found During SAR Evaluation

1. Head Configuration

ANSI / IEEE C95.1(2005) - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg averaged over 1 gram			
Frequency		Mod.	Conducted Power (dBm)		Battery	Device Test Position	Slider	Antenna Position	BT	SAR (W/kg)
MHz	Ch.		Start	End						
836.6	190	GSM	32.60	32.59	Standard	Left Touch	Up	Fixed	Off	0.626

2. Body Worn Configuration

ANSI / IEEE C95.1(2005) - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg averaged over 1 gram			
Frequency		Mod.	Conducted Power (dBm)		Battery	Device Test Position	Slider	Antenna Position	BT	SAR (W/kg)
MHz	Ch.		Start	End						
836.6	190	GSM	32.39	32.40	Standard	1.5 [Rear]	Up	Fixed	Off	0.789

3. Measurement Uncertainty

Combine Standard Uncertainty	9.6 (k=1)
Extended Standard Uncertainty	19.2 (k=2, 95% CONFIDENCE LEVEL)

2. DESCRIPTION OF THE DEVICE UNDER TEST

The FCC rules for evaluating portable devices for RF exposure compliance are contained in 47 CFR §2.1093. For purposes of RF exposure evaluation, a portable device is defined as a transmitting device designed to be used with any part of its radiating structure in direct contact with the user's body or within 1.5 centimeters of the body of a user or bystanders under normal operating conditions. This category of devices would include hand-held cellular and PCS telephones that incorporate the radiating antenna into the hand-piece and wireless transmitters that are carried next to the body. Portable devices are evaluated with respect to SAR limits for RF exposure. The applicable SAR limit for portable transmitters used by consumers is 1.6 watts/kg, which is averaged over any one gram of tissue defined as a tissue volume in the shape of a cube.

2.1 Antenna Description

Type:	Fixed
Location:	Right the back cover, the top of the device
Configuration:	Internal Antenna

2.2 Device Description

Manufacturer:	LG Electronics, Inc.
FCC ID:	BEJME600D
Trade Name:	LG
Model Name:	ME600d
Serial No:	Identical Prototype [S/N: #1]
EUT Type:	Dual band GSM Phone with Bluetooth
Mode(s) of Operation:	GSM/GPRS
Modulation Mode(s):	GSM
Duty Cycle:	8.3/4.15
Transmitting Frequency Range:	824.20 ~ 848.80 MHz (GSM850) 1850.20 ~ 1909.80 MHz (GSM1900)
Battery Type:	Standard

3. INTRODUCTION

The FCC has adopted the guidelines for evaluating the environmental effects of radio frequency radiation in ET Docket 93-62 on Aug. 6, 1996 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable device.[1]
The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) For localized specific absorption rate (SAR) in IEEE/ANSI C95.1-2005 Standard for safety Levels with Respect to Human Exposure to Radio Frequency Electronic Fields, 3 kHz to 300 GHz. (c) 1992 by the institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.[2] The measurement procedure described in IEEE/ANSIC95.3-2005 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave[3] is used for guidance in measuring SAR due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (ICNIRP) in Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields," ICNIRP Report No. 86 (c) ICNIRP, 1986, Bethesda, MD20814.[6] SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). it is also defined as the rate of rf energy absorption per unit mass at a point in an absorbing body. (see Fig. 2.1.)

$$SAR = \frac{d}{dt}\left(\frac{dU}{dm}\right) = \frac{d}{dt}\left(\frac{dU}{\rho\, dv}\right)$$

Figure 2.1 SAR Mathematical Equation

SAR is expressed in units of Watts per Kilogram (W/kg).

SAR = σ E² / ρ

Where:

σ = conductivity of the tissue-simulant material (S/m)
ρ = mass density of the tissue-simulant material (kg/㎥)
E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relations to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

4. SAR MEASUREMENT SYSTEM

An SAR measurement system usually consists of a small diameter isotropic electric field probe, a multiple axis probe positioning system, a test device holder, one or more phantom models, the field probe instrumentation, a computer and other electronic equipment for controlling the probe and making the measurements. Other supporting equipment, such as a network analyzer, power meters and RF signal generators, are also required to measure the dielectric parameters of the simulated tissue media and to verify the measurement accuracy of the SAR system.

4.1 SAR Measurement Setup

Robotic System

Measurement are performed using the DASY4 dosimetric assessment system. The DASY4 is made by Schmid & Partner Engineering AG(SPEAG) in Zurich, Switzerland and consists of high precision robotics system (Stäubli), robot controller, Pentium IV computer, near-field probe, probe alignment sensor, and the SAM twin phantom containing the brain equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF) (see Fig. 4.1)

System Hardware

A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and a remote control used to drive the robot motors. The pc consists of the Intel Pentium IV 2.4 GHz computer with Windows 2000 system and SAR measurement Software DASY4, A/D interface card, monitor, mouse, and keyboard. The Stäubli Robot data acquisition electronic (DAE) circuit that performs the signal amplification, signal multiplexing,
AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

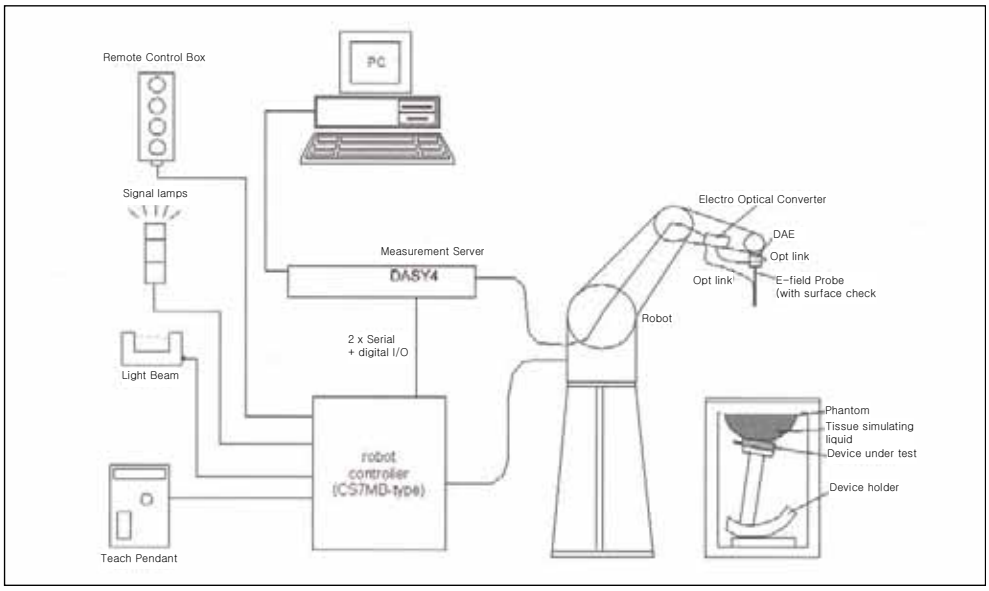


Figure 4.1 SAR Measurement System Setup

Data Acquisition Electronics

The data acquisition electronics (DAE4 or DAE3) consists of a highly sensitive electrometer grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.
The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection. The input impedance of the DAE4 as well as of the DAE3 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.The system is described in detail in [7].

4.2 DASY4 E-Field Probe System

The SAR measurements were conducted with the dosimetric probe ET3DV6, designed in the classical triangular configuration [7] (see Fig. 4.2) and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multifiber line ending at the front of the probe tip. It is connected to the EOC box in the robot arm and provides an automatic detection transmitter, the other half to a synchronized receiver. As the probe approach the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches coupling is zero. The distance of the coupling maximum to the surface is probe angle. The DASY4 software reads the reflection during a software approach and looks for the maximum using a 2nd order fitting. The approach is stopped at reaching the maximum.

Probe Specifications

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., DGBE)
Calibration:	Basic Broad Band Calibration: in air: 10-3000 MHz
	Conversion Factors (CF) for HSL 900 and HSL 1800
	Additional CF for other liquids and frequencies upon request
Frequency:	10 MHz to 3 GHz; Linearity: ± 0.2 dB (30 MHz to 3 GHz)
Directivity:	± 0.2 dB in HSL (rotation around probe axis)
	± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic Range:	5 µW/g to > 100 mW/g; Linearity: ± 0.2 dB
Optical Surface	± 0.2 mm repeatability in air and clear liquids over
Detection:	diffuse reflecting surfaces
Dimensions:	Overall length: 330 mm (Tip: 16 mm)
	Tip diameter: 6.8 mm (Body: 12 mm)
	Distance from probe tip to dipole centers: 2.7 mm
Application:	General dosimetric measurements up to 2.5GHz
	Compliance tests of mobile phones
	Fast automatic scanning in arbitrary phantoms

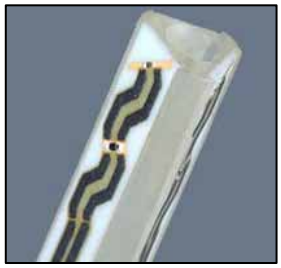


Figure 4.2 Isotropic E-Field Probe

Probe Calibration Process

Dosimetric Assessment Procedure

Each probe is calibrated according to a dosimetric assessment procedure described in [8] with accuracy better than +/- 10%. The spherical isotropy was evaluated with the procedure described in [9] and found to be better than +/-0.25dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe is tested.

Free Space Assessment

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz (see Fig. 4.3), and in a waveguide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity at the proper orientation with the field. The probe is then rotated 360 degrees.

Temperature Assessment *

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe. (see Fig. 4.4)

$$SAR = C\frac{\Delta T}{\Delta t}$$

Where:

Δt = exposure time (30 seconds),

C = heat capacity of tissue (brain or muscle),

ΔT = temperature increase due to RF exposure.

SAR is proportional to $\Delta T/\Delta t$, the initial rate of tissue heating, before thermal diffusion takes place.

Now it's possible to quantify the electric field in the simulated tissue by equating the thermally derived SAR to the E- field;

$$SAR = \frac{|E|^2 \quad \sigma}{\rho}$$

Where:

σ = simulated tissue conductivity,

ρ = Tissue density (1.25 g/cm3 for brain tissue)

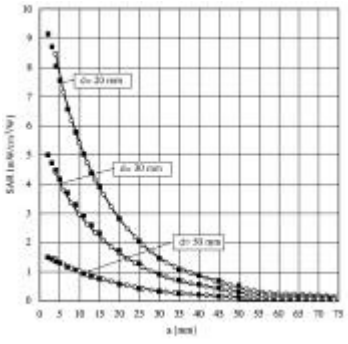


Figure 4.3 E-Field and Temperature measurements at 900MHz [7]

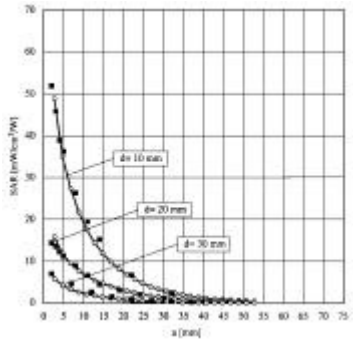


Figure 4.4 E-Field and Temperature measurements at 1.9GHz [7]

4.3 Phantom

The SAM Twin Phantom V4.0 is constructed of the fiberglass shell integrated in a wooden table. The shape of the shell is based on data from an anatomical study designed to determine the maximum exposure in at least 90% of all users [11][12]. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents the evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot. (see Fig. 4.5)

Figure 4.5 SAM Twin Phantom

Phantom Specification

Construction:	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-Dec2003,CENELEC 50361 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.
Shell Thickness:	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling:	Volume Approx. 25 liters
Dimensions:	Height: adjustable feet; Length: 1000 mm; Width: 500 mm

4.4 Brain & Muscle Simulating Mixture Characterization

The brain and muscle mixtures consist of a viscous gel using hydroxethlcellullose(HEC) gelling agent and saline solution (see Table 4.1). Preservation with a bacteriacide is added and visural inspection is made to make sure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been specified in P1528 are derived from the issue dielectric parameters computed from the 4-Cole-Cole equations The mixture characterizations used for the brain and muscle tissue simulation liquids are according to the data by C. Gabriel and G. Hartagrove [13]. (see Table 4.2)

INGREDIENTS (% by weight)	835MHz		1900MHz	
	Brain	Muscle	Brain	Muscle
De-ionized water	41.75	52.50	54.90	40.40
DGBE	0.000	0.000	44.92	0.000
SUGAR	56.00	45.00	0.000	58.00
SALT	1.450	1.400	0.180	0.500
BACTERIACIDE	0.100	0.100	0.000	0.100
HEC	1.000	1.000	0.000	1.000
Dielectric Constant Target	41.50	55.20	40.00	53.30
Conductivity (S/m) Target	0.900	0.970	1.400	1.520

Table. 4.1 Composition of the Tissue Equivalent Matter

4.5 Device Holder for Transmitters

In combination with the SAM Twin Phantom V4.0, the Mounting Device (see Fig. 4.6) enables the rotation of the accurately, and repeatably be positioned according to the FCC specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).

*Note : A simulating human hand is not used due to the complex anatomical and geometrical structure of the hand that may produce infinite number of configurations [12]. To produce the worst-case condition (the hand absorbs antenna output power), the hand is omitted during the tests.

Figure. 4.6 Device Holder

4.6 Validation Dipole

The reference dipole should have a return loss better than –20 dB (measured in the setup) at the resonant frequency to reduce the uncertainty in the power measurement.

Validation Dipole Specifications

Construction:	Symmetrical dipole with l/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with head simulating solutions. Includes distance holder and tripod adaptor.
Calibration:	Calibrated SAR value for specified position and input power at the flat phantom in simulating solution
Frequency:	835 MHz, 1900 MHz
Return Loss:	> 20 dB at specified validation position
Power Capability:	> 100 W (f < 1GHz); > 40 W (f > 1GHz)
Dimensions:	D835V2: dipole length: 161 mm; overall height: 330 mm D1900V2: dipole length: 68 mm; overall height: 300 mm

Figure 4.7 Validation Dipole

5. SAR MEASUREMENT PROCEDURE

The evaluation was performed using the following procedure:

1) The SAR measurement was taken at a selected spatial reference point to monitor power variations during testing. This fixed location point was measured and used as a reference value.

2) The SAR distribution at the exposed side of the head was measured at a distance of 3.9mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm x 15mm.

3) Based on the area scan data, the area of the maximum absorption was determined by spline interpolation. Around this point, a volume of 32mm x 32mm x 30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5 x 5 x 7 points. On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

   a. The data at the surface was extrapolated, since the center of the dipoles is 2.7mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. The extrapolation was based on a least square algorithm [15]. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.

   b. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions) [15][16]. The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.

   c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

4) The SAR reference value, at the same location as procedure #1, was re-measured. If the value changed by more than 5%, the evaluation is repeated.

6. DEFINITION OF REFERENCE POINT

6.1 EAR Reference point

Figure 6.1 shows the front, back and side views of the SAM Twin Phantom. The point "M" is the reference point for the center of the mouth, "LE" is the left ear reference point (ERP), and "RE" is the right ERP. The ERPs are 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 6.2. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front) is perpendicular to the reference plane and passing through the RE (or LE) is called the Reference Pivoting Line (see Fig. 6.3). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].

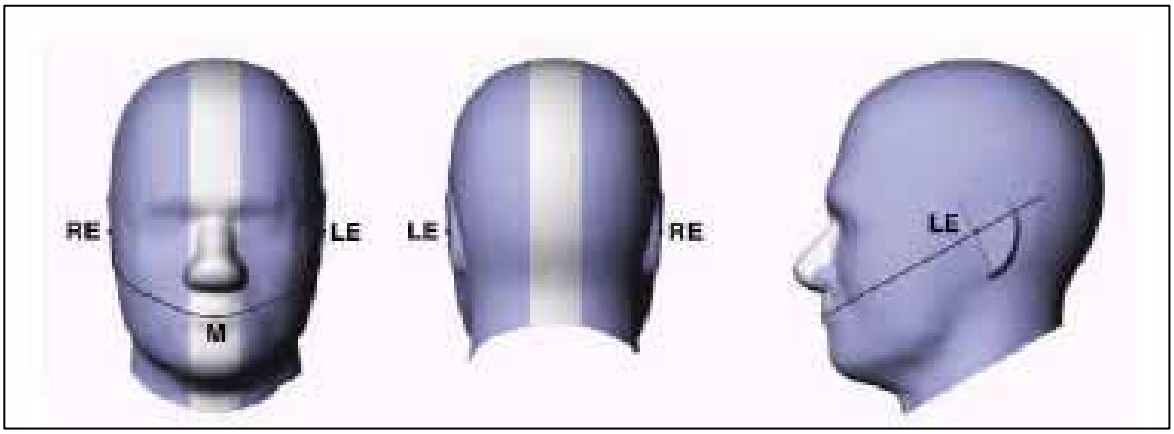


Figure 6.1 Front, back and side view of SAM Twin Phantom

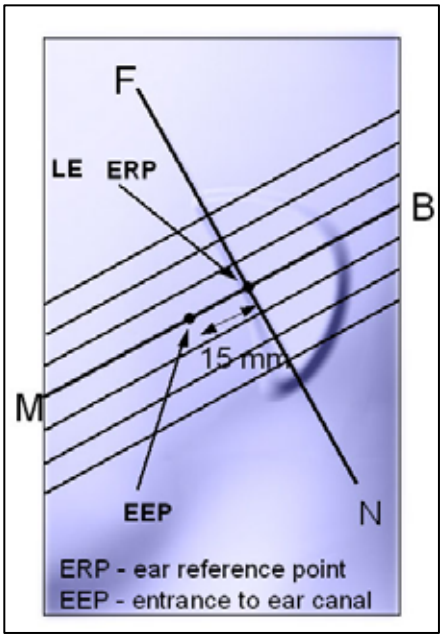


Figure 6.2 Close-up side view of ERP

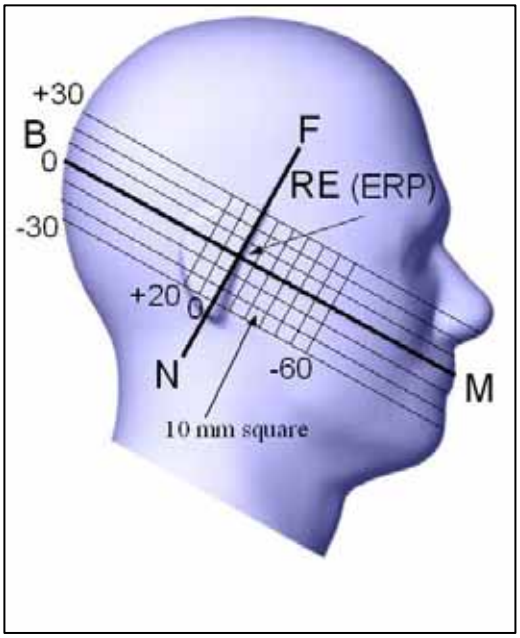


Figure 6.3 Side view of the phantom showing relevant markings

6.2 Handset Reference Points

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the “test device reference point” located along the “vertical centerline” on the front of the device aligned to the “ear reference point” (see Fig. 6.4). The “test device reference point” was than located at the same level as the center of the ear reference point. The test device was positioned so that the “vertical centerline” was bisecting the front surface of the handset at it’s top and bottom edges, positioning the “ear reference point” on the outer surface of the both the left and right head phantoms on the ear reference point.

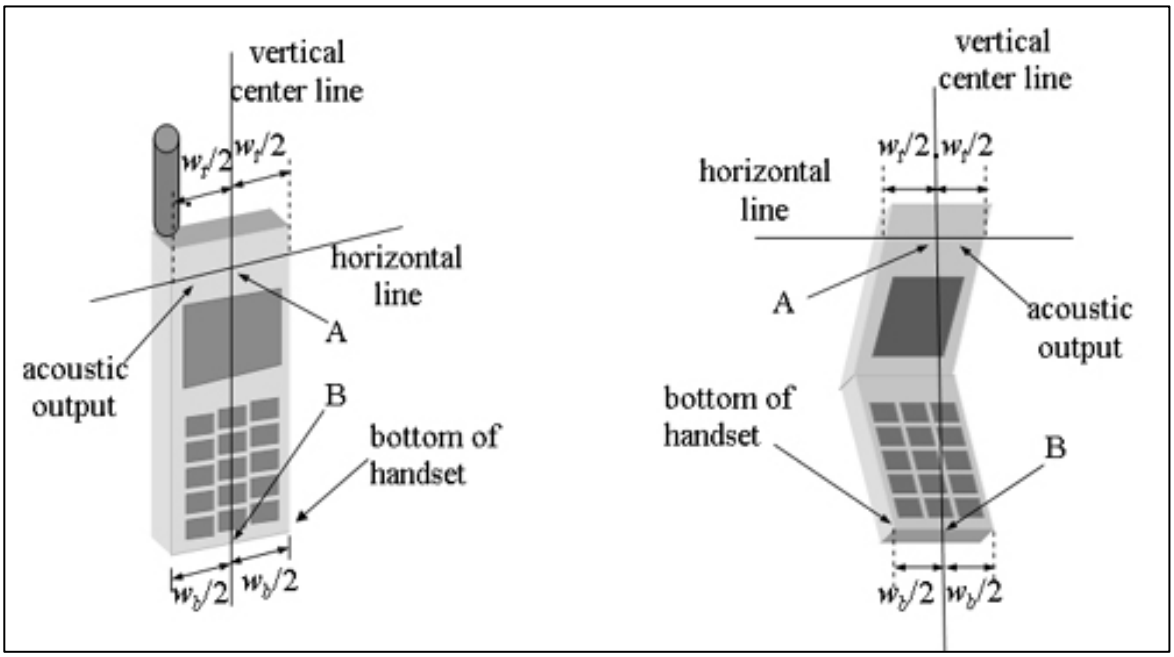


Figure 6.4 Handset Vertical Center & Horizontal Line Reference Points

7. TEST CONFIGURATION POSITIONS

7.1 Positioning for Cheek/Touch

1) Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece, open the cover. (If the phone can also be used with the cover closed ,both configurations must be tested.)
2) Define two imaginary lines on the handset: the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset: the midpoint of the width *wt* of the handset at the level of the acoustic output (point A on Fig. 6.4), and the midpoint of the width *wb* of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Fig. 6.4). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output. However, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Fig. 6.4), especially for clamshell handsets, handsets with lip pieces, and other irregularly-shaped handsets.
3) Position the handset close to the surface of the phantom touch that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Fig. 7.1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.
4) Translate the handset towards the phantom along the line passing through RE and LE until the handset touches the ear.
5) While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to MB-NF including the line MB (called the reference plane).
6) Rotate the phone around the vertical centerline until the phone (horizontal line) is symmetrical with respect to the line NF.
7) While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the phone contact with the ear, rotate the handset about the line NF until any point on the handset is in contact with a phantom point below the pinna (cheek). (see Fig. 7.1) The physical angles of rotation should be noted.

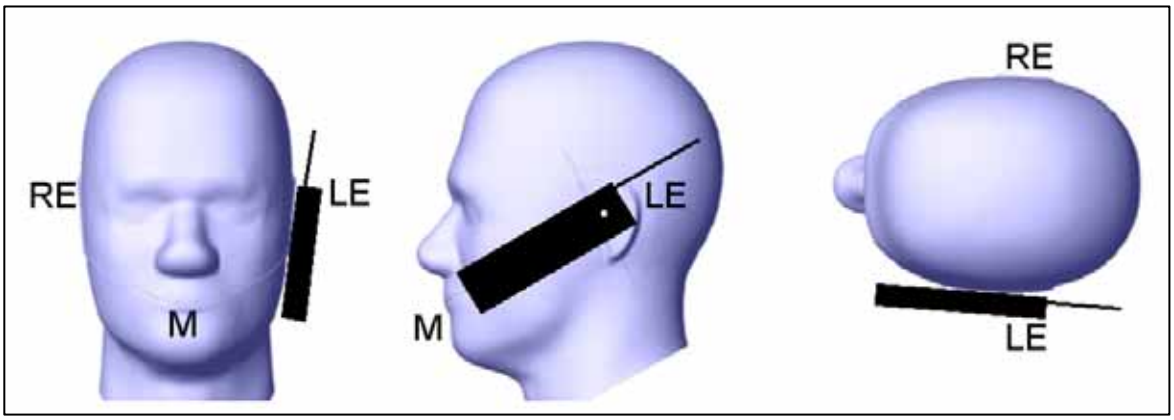


Figure 7.1 Front, Side and Top View of Cheek/Touch Position

7.2 Positioning for Ear / 15° Tilt

With the test device aligned in the “Cheek/Touch Position”:

1) While maintaining the orientation of the phone retract the phone parallel to the reference plane far enough to enable a rotation of the phone by 15 degree.
2) Rotate the phone around the horizontal line by 15 degree.
3) While maintaining the orientation of the phone, move the phone parallel to the reference plane until any part of the phone touches the head. (In this position, point A will be located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, the angle of the phone shall be reduced. The tilted position is obtained if any part of the phone is in contact of the ear as well as a second part of the phone is contact with the head. (see Fig. 7.2)

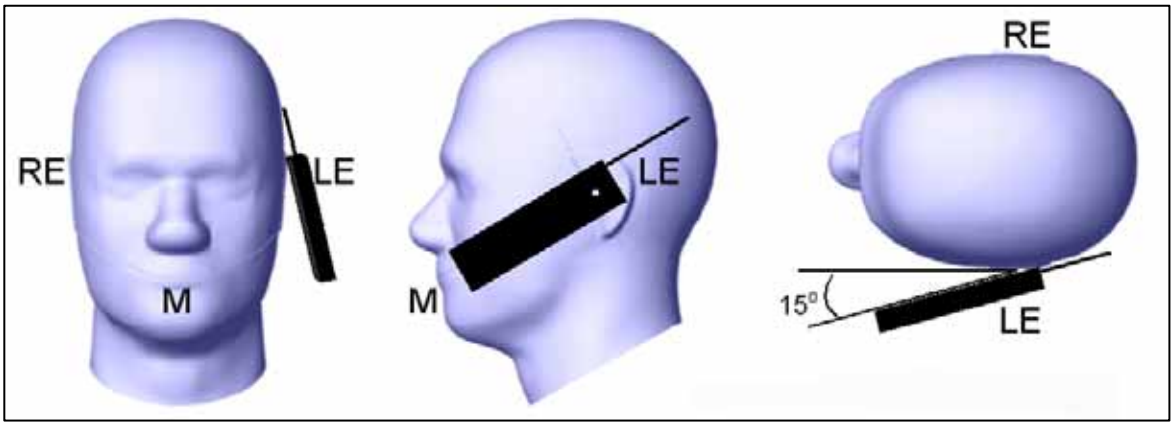


Figure 7.2 Front, Side and Top View of Ear/15 Tilt Position

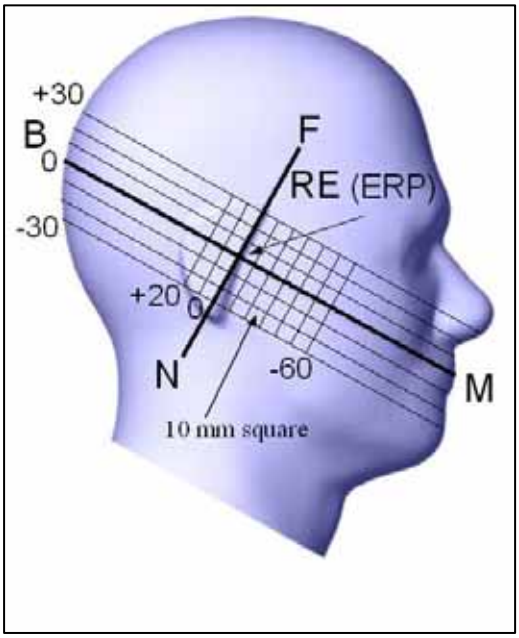


Figure 7.3 Side view of the phantom showing relevant markings

7.3 Body Holster / Belt Clip Configurations

Body-worn operation configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. (see Fig. 7.4) A device with a headset output is tested with a headset connected to the device. Body dielectric parameters are used.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are supplied with the device, the device is tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied of available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration where a separation distance between the back of the device and the flat phantom is used. All test position spacings are documented.

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance is tested with the accessory(ies), including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

In all case SAR measurements are performed to investigate the worst case positioning. Worst-case positioning is then documented and used to perform Body SAR testing.

In order for users to be aware of the body-worn operation requirements for meeting RF exposure compliance, operation instructing instructions and cautions statements are included in the user's manual.

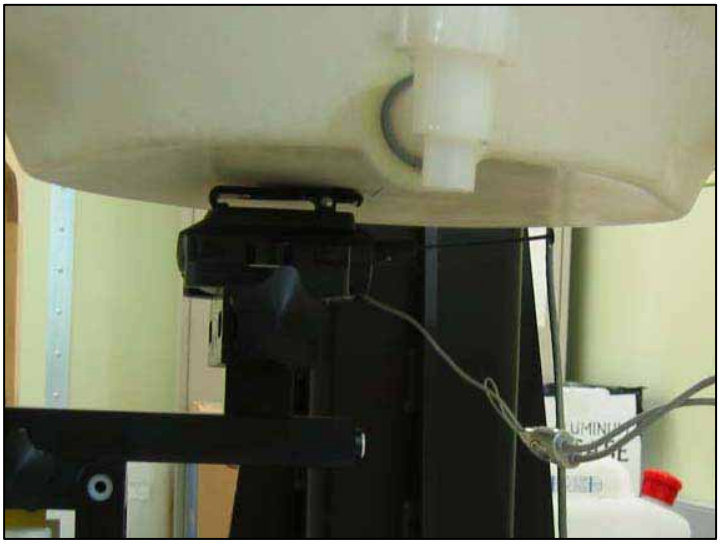


Figure 7.4 Body Holster Configuration

8. MEASUREMENT UNCERTAINTY

DASY4 Uncertainty Budget
According to IEEE 1528 [1]

Error Description	Uncertainty value	Prob. Dist.	Div.	(c_i) 1g	(c_i) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(v_i) v_{eff}
Measurement System								
Probe Calibration	±5.9%	N	1	1	1	±5.9%	±5.9%	∞
Axial Isotropy	±4.7%	R	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical Isotropy	±9.6%	R	$\sqrt{3}$	0.7	0.7	±3.9%	±3.9%	∞
Boundary Effects	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Readout Electronics	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response Time	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
Integration Time	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%	∞
RF Ambient Noise	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.4%	R	$\sqrt{3}$	1	1	±0.2%	±0.2%	∞
Probe Positioning	±2.9%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Max. SAR Eval.	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Test Sample Related								
Device Positioning	±2.9%	N	1	1	1	±2.9%	±2.9%	145
Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%	5
Power Drift	±5.0%	R	$\sqrt{3}$	1	1	±2.9%	±2.9%	∞
Phantom and Setup								
Phantom Uncertainty	±4.0%	R	$\sqrt{3}$	1	1	±2.3%	±2.3%	∞
Liquid Conductivity (target)	±5.0%	R	$\sqrt{3}$	0.64	0.43	±1.8%	±1.2%	∞
Liquid Conductivity (meas.)	±2.5%	N	1	0.64	0.43	±1.6%	±1.1%	∞
Liquid Permittivity (target)	±5.0%	R	$\sqrt{3}$	0.6	0.49	±1.7%	±1.4%	∞
Liquid Permittivity (meas.)	±2.5%	N	1	0.6	0.49	±1.5%	±1.2%	∞
Combined Std. Uncertainty						±10.9%	±10.7%	387
Expanded STD Uncertainty						**±21.9%**	**±21.4%**	

Table 6.1 Worst-Case uncertainty budget for DASY4 assessed according to CENELEC EN 50361(IEEE 1528-Dec,2003).
The budget is valid for the frequency range 300MHz-3GHz and represents a worst-case analysis.

9. ANSI/IEEE C95.1 –2005 RF EXPOSURE LIMITS

Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Controlled Environment

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). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

	UNCONTROLLED ENVIRONMENT General Population (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT General Population (W/kg) or (mW/g)
SPATIAL PEAK SAR[1] Brain	1.60	8.00
SPATIAL PEAK SAR[2] Whole Body	0.08	0.40
SPATIAL PEAK SAR[3] Hands, Feet, Ankles, Wrists	4.00	20.00

Table 9.1 Safety Limits for Partial Body Exposure [2]

NOTE:

1 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.

2 The Spatial Average value of the SAR averaged over the whole body.

3 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) 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)

10. SYSTEM VERIFICATION

Tissue Verification

MEASURED TISSUE PARAMETERS								
Liquid Temp (°C)	21.5							
Liquid Depth (mm)	150 ± 1							
Tissue	**835MHz Brain**		**835MHz Muscle**		**1900MHz Brain**		**1900MHz Muscle**	
Date	11/22/2006		11/22/2006		11/22/2006		11/22/2006	
Parameters	Target	Measured	Target	Measured	Target	Measured	Target	Measured
Dielectric Constant: ε	41.5	40.3	55.2	55.9	40.0	39.6	53.3	51.1
Conductivity: σ	0.90	0.89	0.97	0.96	1.40	1.40	1.52	1.57
Deviation (%)	ε : -2.9 σ : -1.1		ε : +1.2 σ : -1.0		ε : -1.1 σ : 0.0		ε : -4.2 σ : -3.3	

Table 10.1 Simulated Tissue Verification [5]

Test System Validation

Prior to assessment, the system is verified to the ±10% of the specifications at 835MHz and 1900MHz by using the system validation kit(s). (Graphic Plots Attached)

SYSTEM DIPOLE VALIDATION TARGET & MEASURED						
Tissue	**System Validation Kit**	**Date**	**Liquid Temp (°C)**	**Targeted SAR_{1g} (mW/g)**	**Measured SAR_{1g} (mW/g)**	**Deviation (%)**
835MHz Brain	D835V2, S/N: 471	11/22/2006	22.2	2.375	2.31	-2.7
1900MHz Brain	D1900V2, S/N: 5d017	11/22/2006	22.2	9.925	9.62	-3.1

Table 10.2 System Validation [5]

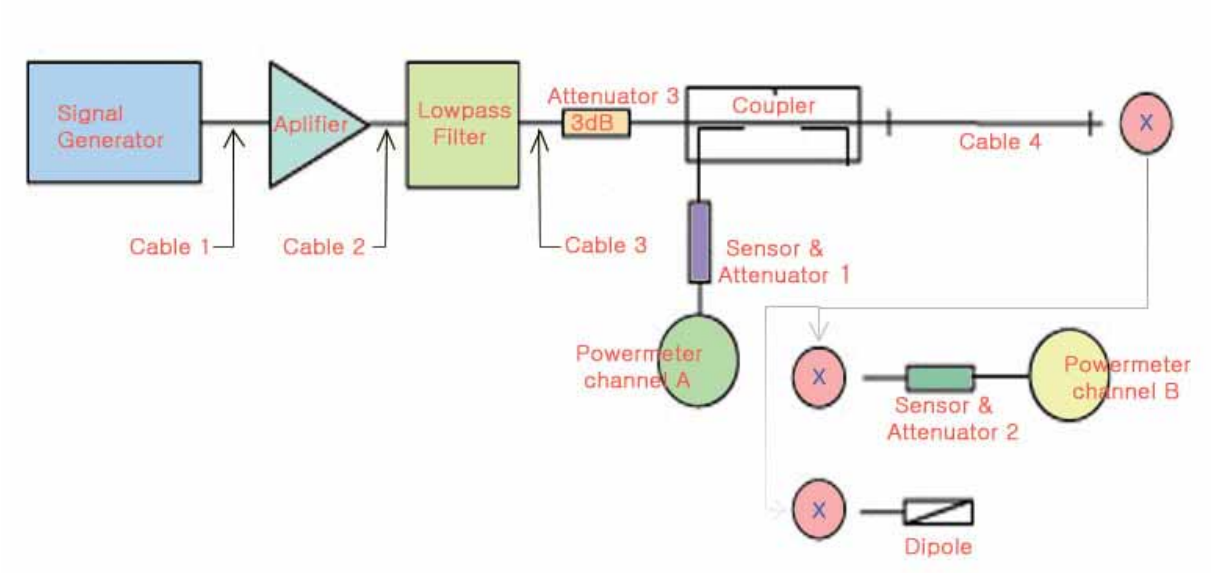


Figure 10.1 Dipole Validation Test Setup

10. SYSTEM VERIFICATION

Tissue Verification

MEASURED TISSUE PARAMETERS								
Liquid Temp (°C)	21.8							
Liquid Depth (mm)	150 ± 1							
Tissue	**835MHz Brain**		**835MHz Muscle**		**1900MHz Brain**		**1900MHz Muscle**	
Date	01/05/2007		01/05/2007		01/05/2007		01/05/2007	
Parameters	Target	Measured	Target	Measured	Target	Measured	Target	Measured
Dielectric Constant: ε	41.5	41.63	55.2	55.94	40.0	40.75	53.3	51.21
Conductivity: σ	0.90	0.88	0.97	0.98	1.40	1.44	1.52	1.58
Deviation (%)	ε : -0.31 σ : -2.22		ε : +1.34 σ : -1.03		ε : -1.88 σ : +2.86		ε : -3.92 σ : -3.95	

Table 10.1 Simulated Tissue Verification [5]

Test System Validation

Prior to assessment, the system is verified to the ±10% of the specifications at 835MHz and 1900MHz by using the system validation kit(s). (Graphic Plots Attached)

SYSTEM DIPOLE VALIDATION TARGET & MEASURED						
Tissue	**System Validation Kit**	**Date**	**Liquid Temp (°C)**	**Targeted SAR_{1g} (mW/g)**	**Measured SAR_{1g} (mW/g)**	**Deviation (%)**
835MHz Brain	D835V2, S/N: 471	01/05/2007	21.8	2.375	2.33	-1.89
1900MHz Brain	D1900V2, S/N: 5d017	01/05/2007	21.8	9.925	9.66	-2.67

Table 10.2 System Validation [5]

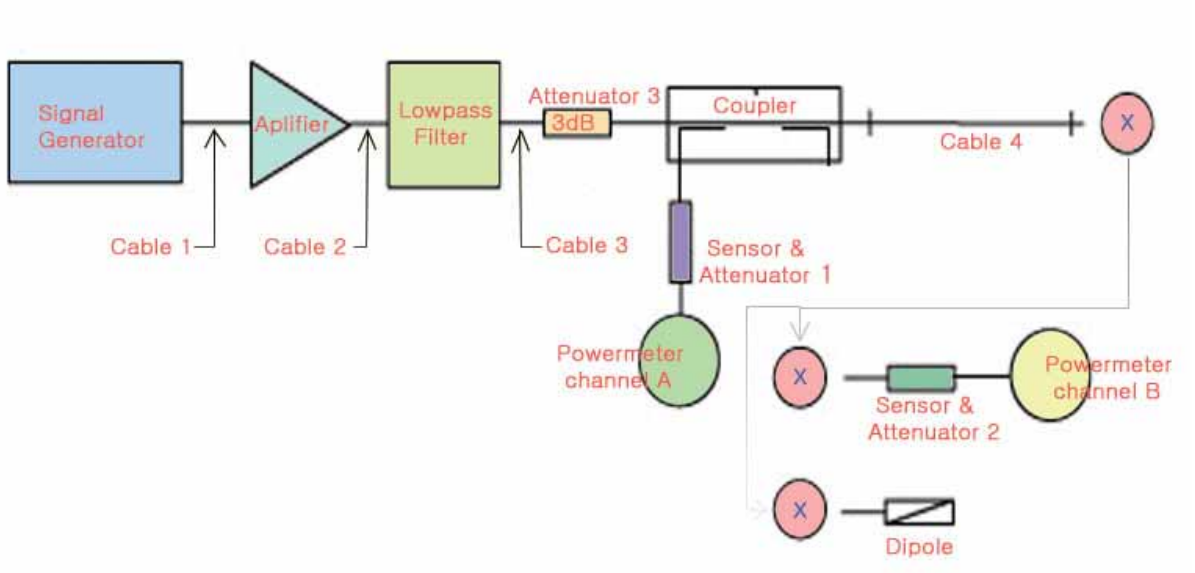


Figure 10.1 Dipole Validation Test Setup

835 MHz Liquid Depth

1900 MHz Liquid Depth

11. MEASUREMENT RESULTS

Ambient Conditions

Ambient Temperature (°C): 22 ± 1
Relative Humidity (%): 55 ± 5
Liquid Tissue Temperature (°C): 21.5 ± 0.5
Liquid Tissue Depth (mm): 150 ± 1
Mixture Type: 835MHz Head
Dielectric Constant: 40.3
Conductivity: 0.89

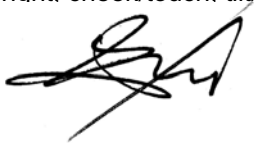
Measurement Results

ANSI / IEEE C95.1- 2005 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population	Brain 1.6 W/kg averaged over 1 gram

MEASUREMENT RESULTS (GSM850 Head SAR)

Frequency		Mod.	Conducted Power (dBm)		Battery	Device Test Position	Slider	Antenna Position	BT	SAR (W/kg)
MHz	Ch.		Start	End						
836.6	190	GSM	32.58	32.54	Standard	Right Touch	Down	Fixed	Off	0.353
836.6	190	GSM	32.60	32.56	Standard	Right Touch	Down	Fixed	On	0.273
836.6	190	GSM	32.56	32.55	Standard	Right Touch	Up	Fixed	Off	0.532
836.6	190	GSM	32.59	32.58	Standard	Right Touch	Up	Fixed	On	0.542
836.6	190	GSM	32.56	32.55	Standard	Right Tilt	Up	Fixed	On	0.191
836.6	190	GSM	32.60	32.56	Standard	Left Touch	Down	Fixed	Off	0.318
836.6	190	GSM	32.58	32.55	Standard	Left Touch	Down	Fixed	On	0.293
836.6	190	GSM	32.60	32.59	Standard	Left Touch	Up	Fixed	Off	0.626
836.6	190	GSM	32.55	32.54	Standard	Left Touch	Up	Fixed	On	0.556
836.6	190	GSM	32.58	32.56	Standard	Left Tilt	Up	Fixed	Off	0.210
836.6	190	GSM	32.59	32.59	Standard	Left Touch	Up	Fixed	Off	0.522

1. The test data reported are the worst-case SAR value with the position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings. Standard batteries are the only options.
4. Tissue parameters and temperatures are listed on the SAR plots.
5. Justification for reduced test configurations: Per FCC/OET Bulletin 65 Supplement C [July 2001], if the SAR measured at the middle channel for each test configuration (left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



Eui - Soon Park
Chief Research Engineer

11. MEASUREMENT RESULTS (Continued)

Ambient Conditions

Ambient Temperature (°C): 22 ± 1
Relative Humidity (%): 55 ± 5
Liquid Tissue Temperature (°C): 21.5 ± 0.5
Liquid Tissue Depth (mm): 150 ± 1
Mixture Type: 1900MHz Head
Dielectric Constant: 39.6
Conductivity: 1.4

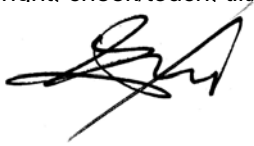
Measurement Results

ANSI / IEEE C95.1- 2005 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population	Brain 1.6 W/kg averaged over 1 gram

MEASUREMENT RESULTS (GSM1900 Head SAR)

Frequency		Mod.	Conducted Power (dBm)		Battery	Device Test Position	Slider	Antenna Position	BT	SAR (W/kg)
MHz	Ch.		Start	End						
1880	661	GSM	29.63	29.64	Standard	Right Touch	Down	Fixed	Off	0.209
1880	661	GSM	29.68	29.67	Standard	Right Touch	Down	Fixed	On	0.183
1880	661	GSM	29.62	29.63	Standard	Right Touch	Up	Fixed	Off	0.149
1880	661	GSM	29.68	29.68	Standard	Right Touch	Up	Fixed	On	0.094
1880	661	GSM	29.63	29.63	Standard	Right Tilt	Down	Fixed	Off	0.249
1880	661	GSM	29.69	29.67	Standard	Left Touch	Down	Fixed	Off	0.263
1880	661	GSM	29.63	29.63	Standard	Left Touch	Down	Fixed	On	0.229
1880	661	GSM	29.68	29.68	Standard	Left Touch	Up	Fixed	Off	0.139
1880	661	GSM	29.63	29.63	Standard	Left Touch	Up	Fixed	On	0.138
1880	661	GSM	29.67	29.67	Standard	Left Tilt	down	Fixed	Off	0.300
1880	661	GSM	29.63	29.65	Standard	Left Tilt	down	Fixed	Off	0.374

1. The test data reported are the worst-case SAR value with the position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings. Standard batteries are the only options.
4. Tissue parameters and temperatures are listed on the SAR plots.
5. Justification for reduced test configurations: Per FCC/OET Bulletin 65 Supplement C [July 2001], if the SAR measured at the middle channel for each test configuration (left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



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Chief Research Engineer

11. MEASUREMENT RESULTS (Continued)

Ambient Conditions

Ambient Temperature (°C): 22 ± 1
Relative Humidity (%): 55 ± 5
Liquid Tissue Temperature (°C): 21.5 ± 0.5
Liquid Tissue Depth (mm): 150 ± 1
Mixture Type: 835MHz Muscle
Dielectric Constant: 55.9
Conductivity: 0.96

Measurement Results

ANSI / IEEE C95.1- 2005 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population	Muscle 1.6 W/kg averaged over 1 gram

MEASUREMENT RESULTS (Body SAR)

Frequency		Mod.	Conducted Power (dBm)		Battery	Device Test Position	Slider	Antenna Position	BT	SAR (W/kg)
MHz	Ch.		Start	End						
836.6	190	GSM	32.41	32.39	Standard	1.5 [Front]	Down	Fixed	Off	0.261
836.6	190	GSM	32.41	32.40	Standard	1.5 [Front]	Up	Fixed	Off	0.209
836.6	190	GSM	32.40	32.41	Standard	1.5 [Rear]	Down	Fixed	Off	0.534
836.6	190	GSM	32.39	32.40	Standard	1.5 [Rear]	Up	Fixed	Off	0.789
836.6	190	GSM	32.40	32.38	Standard	1.5 [Rear]	Up	Fixed	On	0.759
836.6	190	GSM	32.29	32.34	Standard	1.5 [Rear]	Up	Fixed	Off	0.687

1. The test data reported are the worst-case SAR value with the position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings. Standard batteries are the only options.
4. Tissue parameters and temperatures are listed on the SAR plots.
5. Justification for reduced test configurations: Per FCC/OET Bulletin 65 Supplement C [July 2001], if the SAR measured at the middle channel for each test configuration (left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).

Eui - Soon Park
Chief Research Engineer

11. MEASUREMENT RESULTS (Continued)

Ambient Conditions

Ambient Temperature (°C): 22 ± 1
Relative Humidity (%): 55 ± 5
Liquid Tissue Temperature (°C): 21.5 ± 0.5
Liquid Tissue Depth (mm): 150 ± 1
Mixture Type: 1900MHz Muscle
Dielectric Constant: 51.1
Conductivity: 1.57

Measurement Results

ANSI / IEEE C95.1- 2005 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population	Muscle 1.6 W/kg averaged over 1 gram

MEASUREMENT RESULTS (Body SAR)

Frequency		Mod.	Conducted Power (dBm)		Battery	Device Test Position	Slider	Antenna Position	BT	SAR (W/kg)
MHz	Ch.		Start	End						
1880	661	PCS	29.52	29.42	Standard	1.5 [Front]	Down	Fixed	Off	0.063
1880	661	PCS	29.47	29.45	Standard	1.5 [Front]	Up	Fixed	Off	0.071
1880	661	PCS	29.40	29.39	Standard	1.5 [Rear]	Down	Fixed	Off	0.262
1880	661	PCS	29.45	29.42	Standard	1.5 [Rear]	Up	Fixed	Off	0.213
1880	661	PCS	29.43	29.42	Standard	1.5 [Rear]	Up	Fixed	On	0.209
1880	661	PCS	29.40	29.39	Standard	1.5 [Rear]	Down	Fixed	Off	0.278

1. The test data reported are the worst-case SAR value with the position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings. Standard batteries are the only options.
4. Tissue parameters and temperatures are listed on the SAR plots.
5. Justification for reduced test configurations: Per FCC/OET Bulletin 65 Supplement C [July 2001], if the SAR measured at the middle channel for each test configuration (left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).

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Chief Research Engineer

12. TEST EQUIPMENT

Equipment List and Calibration

Name of Equipment	Manufacturer	Model Type	Serial Number	Cal. Due date
Robot	Stäubli	RX90BL	507PA1	N/A
SAM Twin Phantom	SPEAG	V4.0	TP-1353	N/A
SAM Twin Phantom	SPEAG	V4.0	TP-1354	N/A
DAE	SPEAG	DAE4	534	09/18/07
DAE	SPEAG	DAE4	467	02/15/07
E-Field Probe	SPEAG	ES3DV3	3066	02/21/07
E-Field Probe	SPEAG	ET3DV6	1729	01/24/07
Validation Dipole 900MHz	SPEAG	D835V2	471	01/18/07
Validation Dipole 1900MHz	SPEAG	D1900V2	5d017	01/17/07
S-Parameter Network Analyzer	Agilent	8753ES	MY4002948	07/22/07
Dielectric Probe Kit	Agilent	85070D	US01440173	N/A
Signal Generator	Agilent	E4421B	MY41000790	07/27/07
High Power RF Amplifier	EM Power	BBS3Q7ECK	1027	07/27/07
Dual Direction Coupler	Agilent	778D-012	50344	10/10/07
EPM-Series Power Meter	Agilent	E4419B	GB39290607	07/25/07
Power Sensor	Agilent	8481A	MY41092712	07/25/07
Power Sensor	Agilent	8481A	MY41092723	07/25/07
Attenuator	Agilent	8491A	MY39259054	07/26/07
Attenuator	Agilent	8491A	MY39259076	07/26/07
Low Pass Filter 1.5 GHz	Dymstec	LA-15N	–	N/A
Low Pass Filter 3.0 GHz	Dymstec	LA-30N	–	N/A
Thermometer/Hygrometer	SATO	SK-L200TH	8440586	09/28/07

Table 12.1 Test Equipment List and Calibration

NOTE:
The E-field probe was calibrated by SPEAG, by waveguide technique procedure. Dipole Validation measurement is performed by LG Electronics. before each test. The brain simulating material is calibrated by LG Electronics using the dielectric probe system and network analyzer to determine the conductivity and permittivity (dielectric constant) of the brain-equivalent material.

13. REFERENCES

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[19] Prof. Dr. Niels Kuster, ETH, Eidgenössische Technische Hoschschule Zürich, Dosimetric Evaluation of the Cellular Phone.

APPENDIX A: Validation Test Data

Figure 1 835 MHz Dipole Validation Test Setup

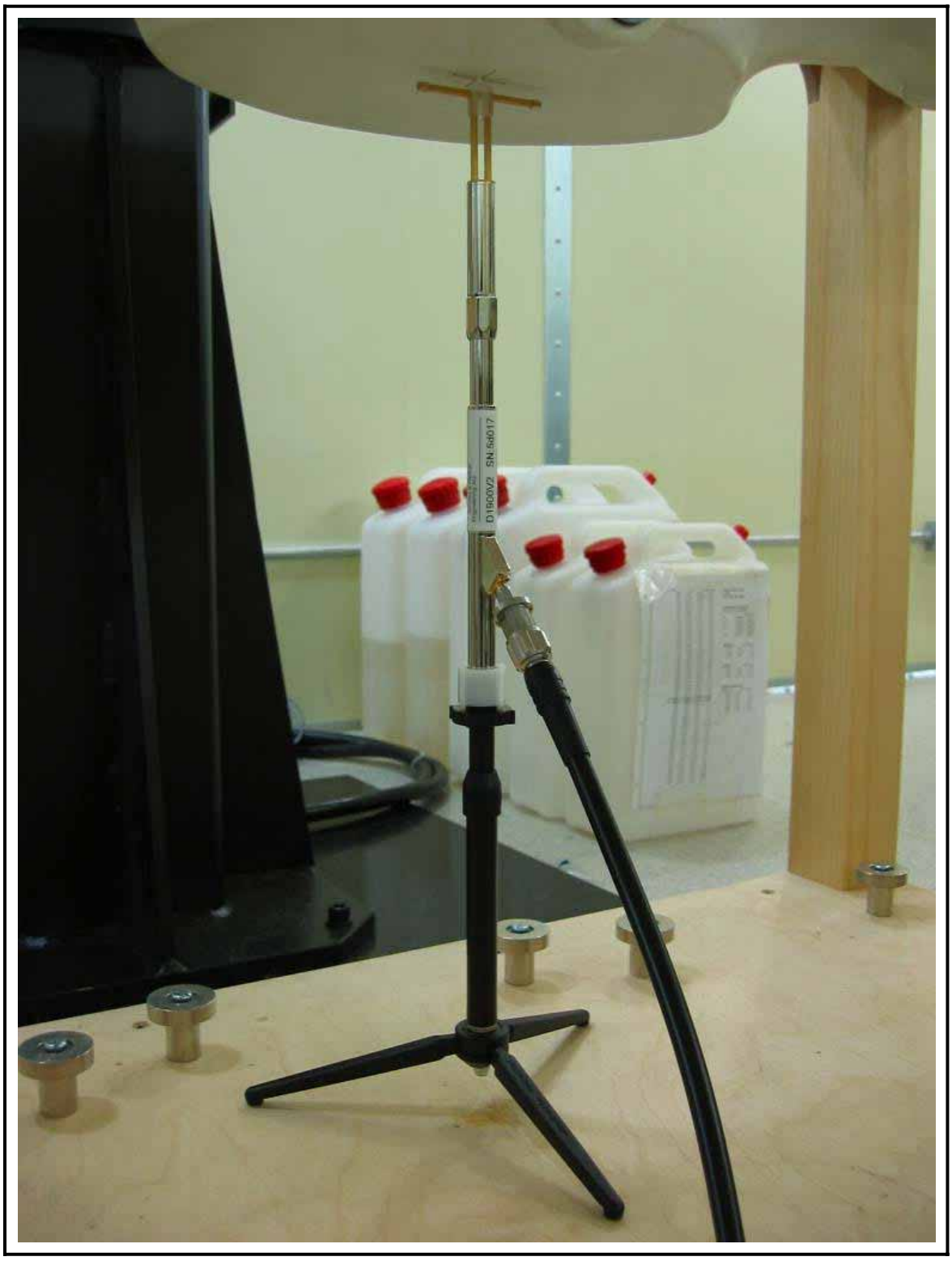


Figure 2 1900 MHz Dipole Validation Test Setup

LG Electronics Inc.

DUT: Dipole 835MHz;Type: D835V2;Serial: 471

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: Head 835 MHz;(σ = 0.89 mho/m; εr = 40.31; ρ = 1000 kg/m^3)
Phantom section: Flat Section

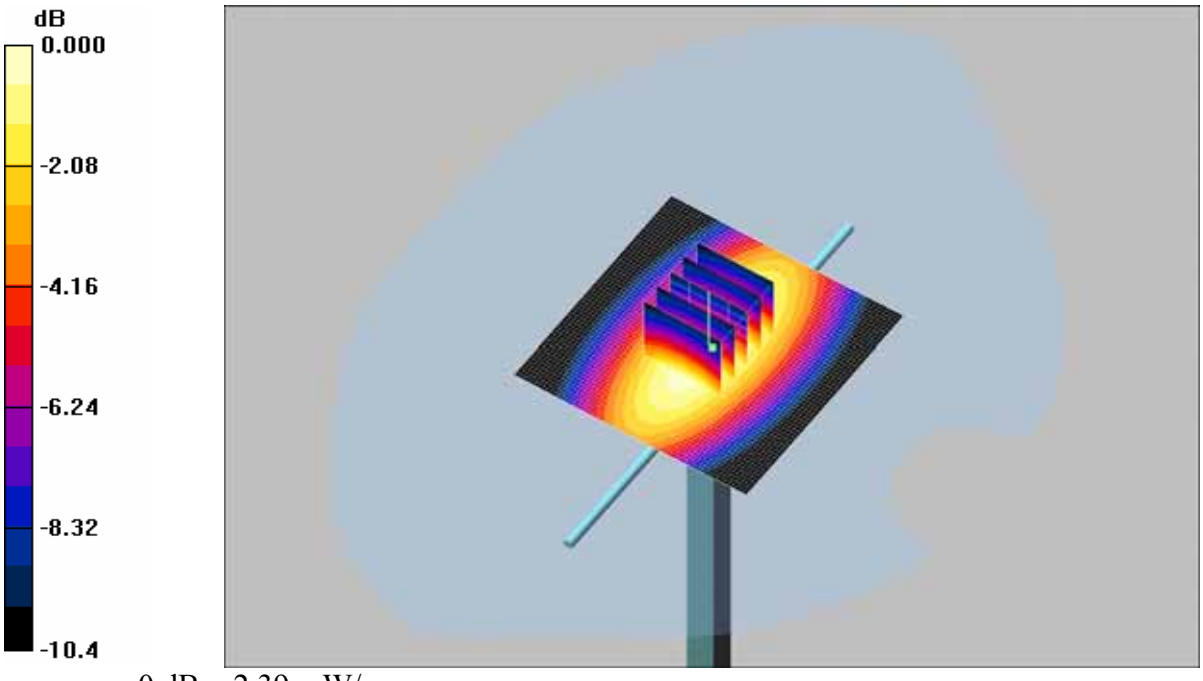
Test Date: 11/22/2006;Ambient Temp: 22.2°C;Tissue Temp: 21.5°C

Probe: ES3DV3 – SN3066; ConvF(5.7, 5.7, 5.7); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

835 MHz Dipole Validation

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.39 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.8 V/m; Power Drift = -0.040 dB
Peak SAR (extrapolated) = 3.27 W/kg
SAR(1 g) = 2.31 mW/g; SAR(10 g) = 1.45 mW/g
Maximum value of SAR (measured) = 2.39mW/g



0 dB = 2.39 mW/g

LG Electronics Inc.

DUT: Dipole 1900MHz;Type: D1900V2;Serial: 2d017

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: Head 1900 MHz;(σ = 1.4 mho/m; εr = 39.6; ρ = 1000 kg/m3)
Phantom section: Flat Section

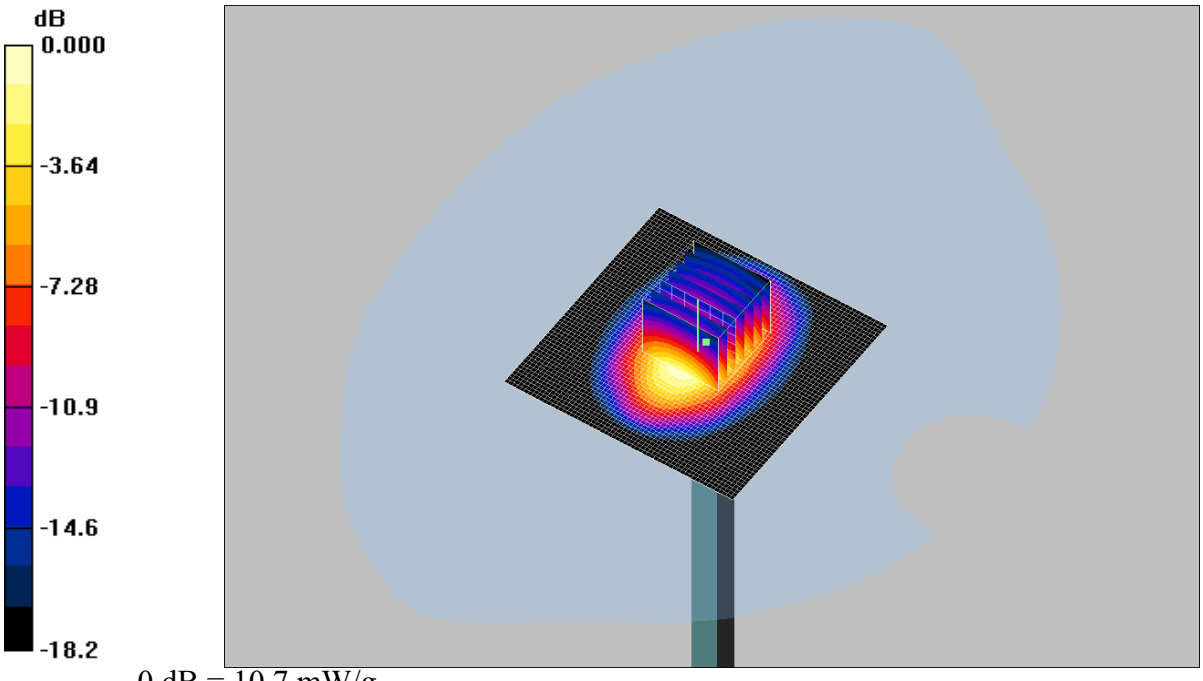
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(4.81, 4.81, 4.81); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

1900 MHz Dipole Validation

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.5 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 85.9 V/m; Power Drift = 0.006 dB
Peak SAR (extrapolated) = 17.54 W/kg
SAR(1 g) = 9.62 mW/g; SAR(10 g) = 4.83 mW/g
Maximum value of SAR (measured) = 10.7 mW/g



0 dB = 10.7 mW/g

LG Electronics Inc.

DUT: Dipole 835MHz;Type: D835V2;Serial: 471

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: Head 835 MHz;(σ = 0.88 mho/m; εr = 41.63; ρ = 1000 kg/m^3)
Phantom section: Flat Section

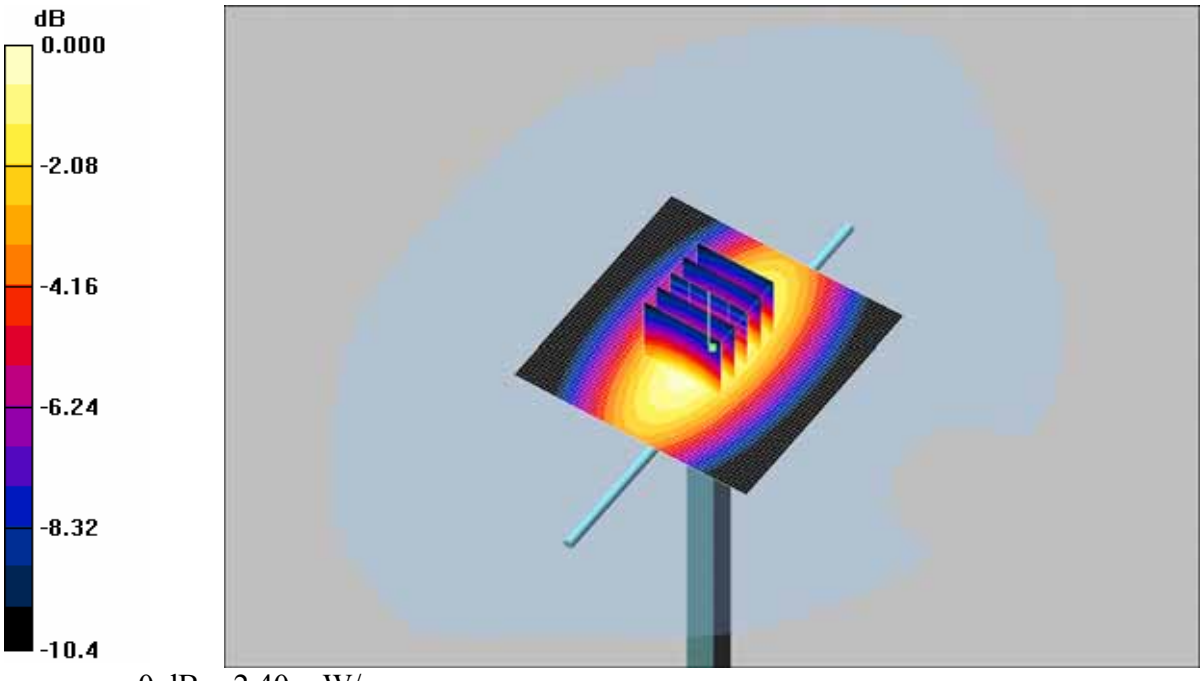
Test Date: 01/05/2007;Ambient Temp: 22.9°C;Tissue Temp: 21.8°C

Probe: ET3DV6 – SN1729;ConvF(6.17, 6.17, 6.17);Calibrated: 2006-01-24
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

835 MHz Dipole Validation

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.41 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.1 V/m; Power Drift = 0.100 dB
Peak SAR (extrapolated) = 3.30 W/kg
SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.46 mW/g
Maximum value of SAR (measured) = 2.40mW/g



0 dB = 2.40 mW/g

LG Electronics Inc.

DUT: Dipole 1900MHz;Type: D1900V2;Serial: 2d017

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: Head 1900 MHz;(σ = 1.44 mho/m; εr = 40.75; ρ = 1000 kg/m3)
Phantom section: Flat Section

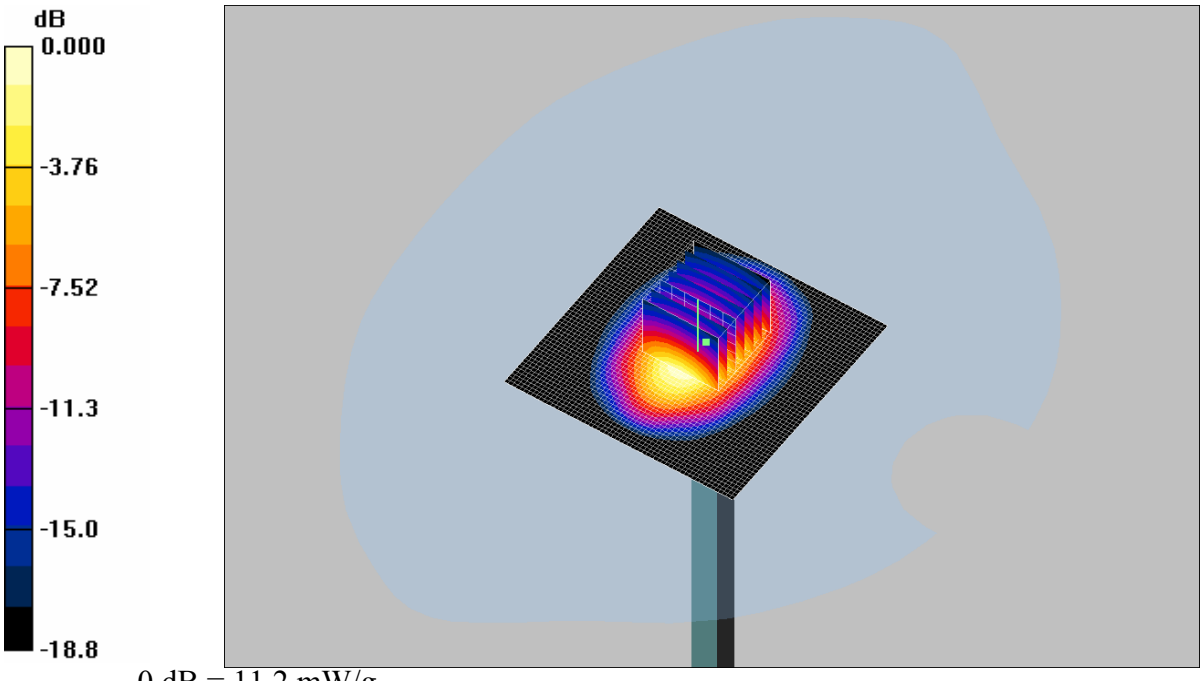
Test Date: 01/05/2007;Ambient Temp: 22.9˚C;Tissue Temp: 21.8˚C

Probe: ET3DV6 – SN1729;ConvF(5.06, 5.06, 5.06);Calibrated: 2006-01-24
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

1900 MHz Dipole Validation

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.8 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 85.6 V/m; Power Drift = 0.112 dB
Peak SAR (extrapolated) = 17.64 W/kg
SAR(1 g) = 9.66 mW/g; SAR(10 g) = 4.87 mW/g
Maximum value of SAR (measured) = 11.2 mW/g



0 dB = 11.2 mW/g

APPENDIX C: SAR Test Data

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 835 MHz;(σ = 0.89mho/m; ε_r = 40.3; ρ = 1000 kg/m^3)
Phantom section: Right Section

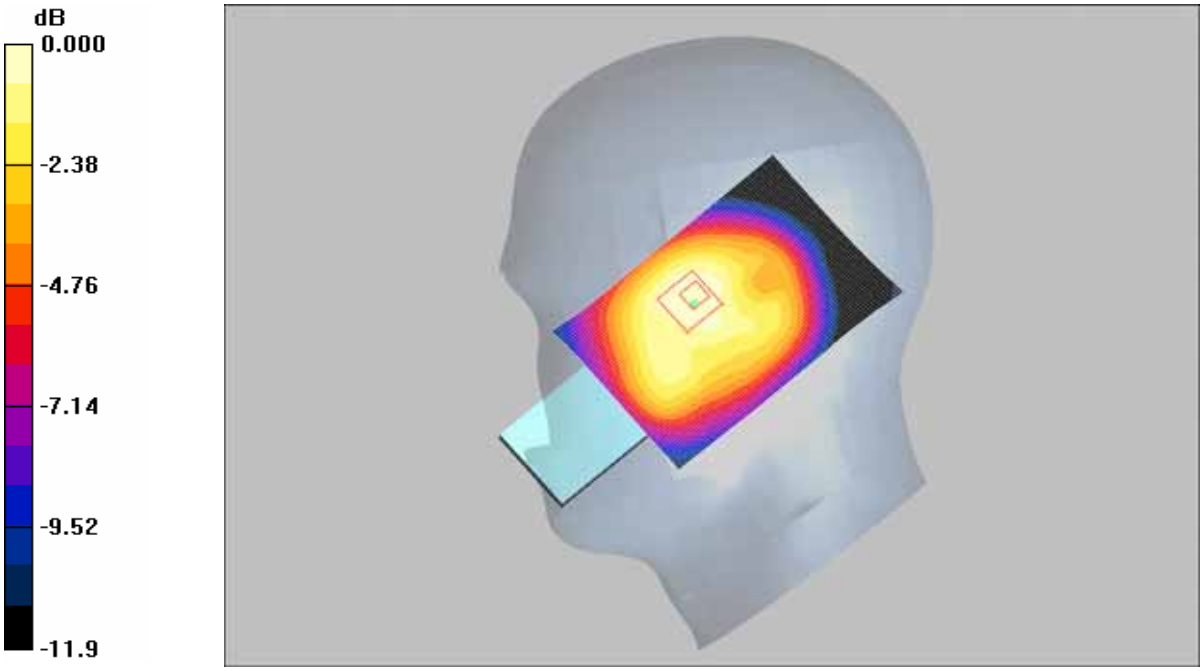
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.7, 5.7, 5.7); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Right Head Touch,Ch.190, Slide Down, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.364 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.2 V/m; Power Drift = -0.013 dB
Peak SAR (extrapolated) = 0.474 W/kg
SAR(1 g) = 0.353 mW/g; SAR(10 g) = 0.256 mW/g
Maximum value of SAR (measured) = 0.372 mW/g



0 dB = 0.372 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 835 MHz;(σ = 0.89mho/m; ε_r = 40.3; ρ = 1000 kg/m^3)
Phantom section: Right Section

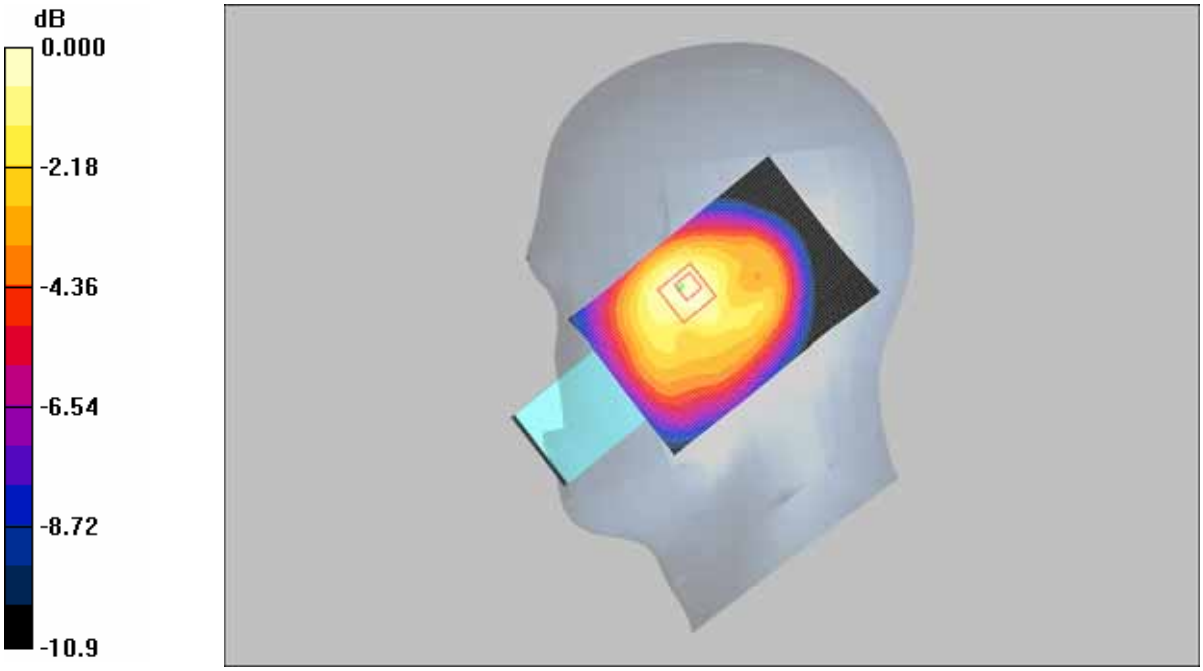
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.7, 5.7, 5.7); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Right Head Touch,Ch.190, Slide Down, BT On, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.275 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.4 V/m; Power Drift = 0.052 dB
Peak SAR (extrapolated) = 0.357 W/kg
SAR(1 g) = 0.273 mW/g; SAR(10 g) = 0.193 mW/g
Maximum value of SAR (measured) = 0.290 mW/g



0 dB = 0.290 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 835 MHz;(σ = 0.89mho/m; ε_r = 40.3; ρ = 1000 kg/m^3)
Phantom section: Right Section

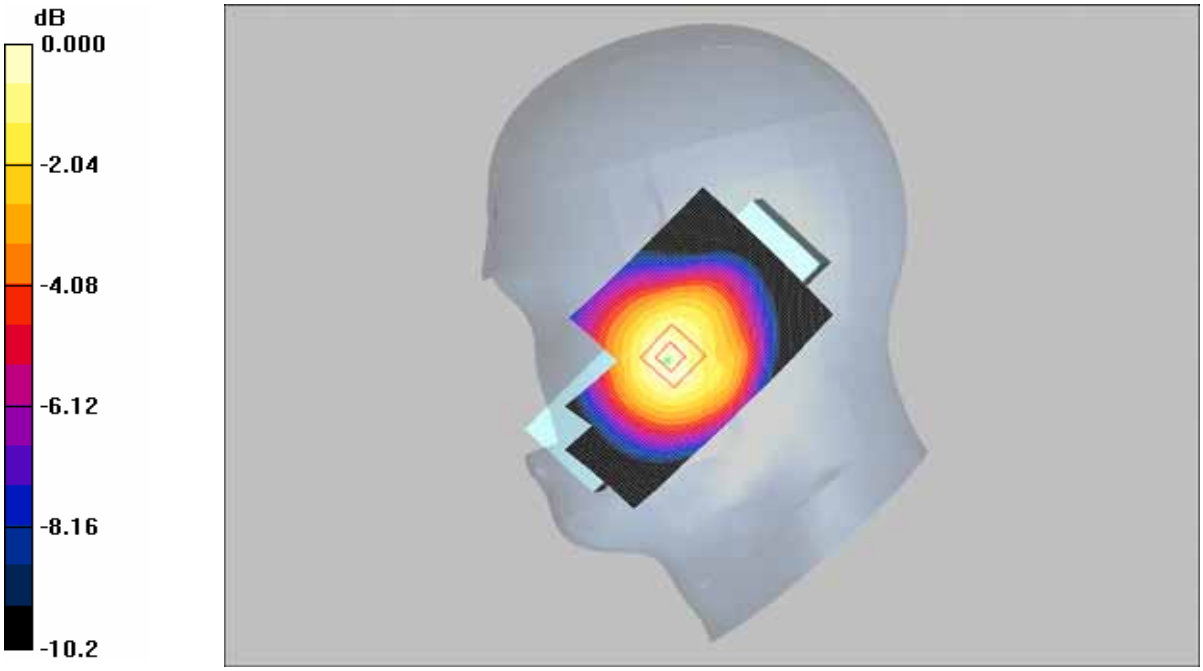
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.7, 5.7, 5.7); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Right Head Touch,Ch.190, Slide Up, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.574 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.31 V/m; Power Drift = -0.029 dB
Peak SAR (extrapolated) = 0.725 W/kg
SAR(1 g) = 0.532 mW/g; SAR(10 g) = 0.370 mW/g
Maximum value of SAR (measured) = 0.578 mW/g



0 dB = 0.578 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 835 MHz;(σ = 0.89mho/m; ε_r = 40.3; ρ = 1000 kg/m^3)
Phantom section: Right Section

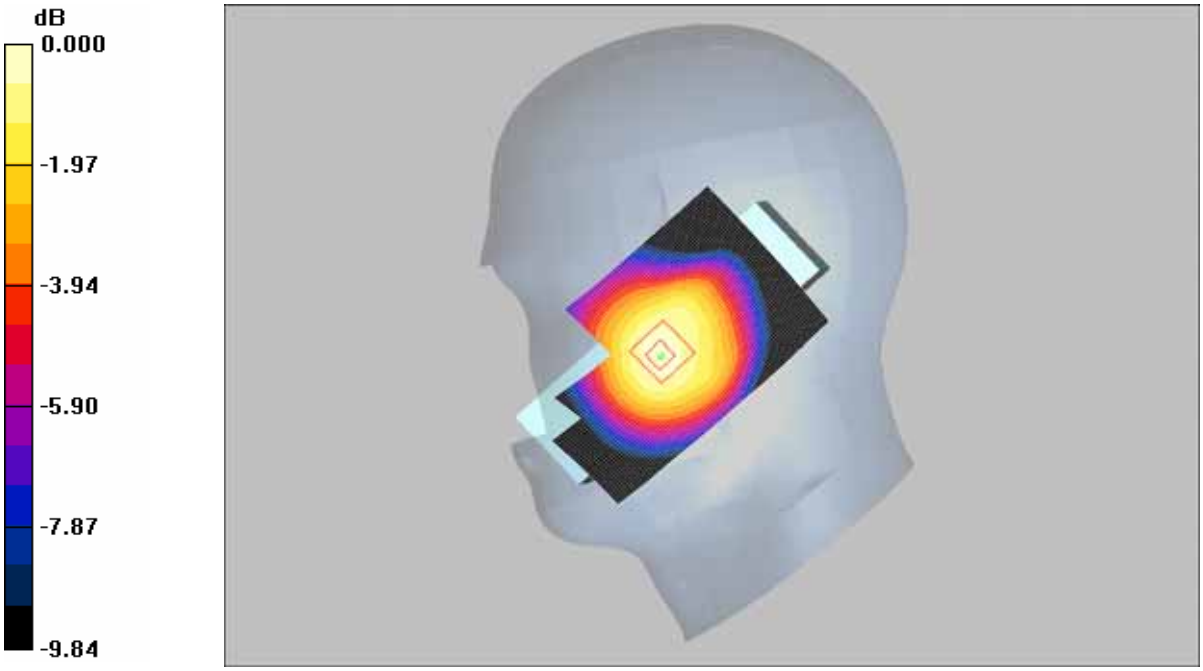
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.7, 5.7, 5.7); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Right Head Touch,Ch.190, Slide Up, BT On, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.579 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.33 V/m; Power Drift = -0.220 dB
Peak SAR (extrapolated) = 0.745 W/kg
SAR(1 g) = 0.542 mW/g; SAR(10 g) = 0.378 mW/g
Maximum value of SAR (measured) = 0.589 mW/g



0 dB = 0.589 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 835 MHz;(σ = 0.89mho/m; ε_r = 40.3; ρ = 1000 kg/m^3)
Phantom section: Right Section

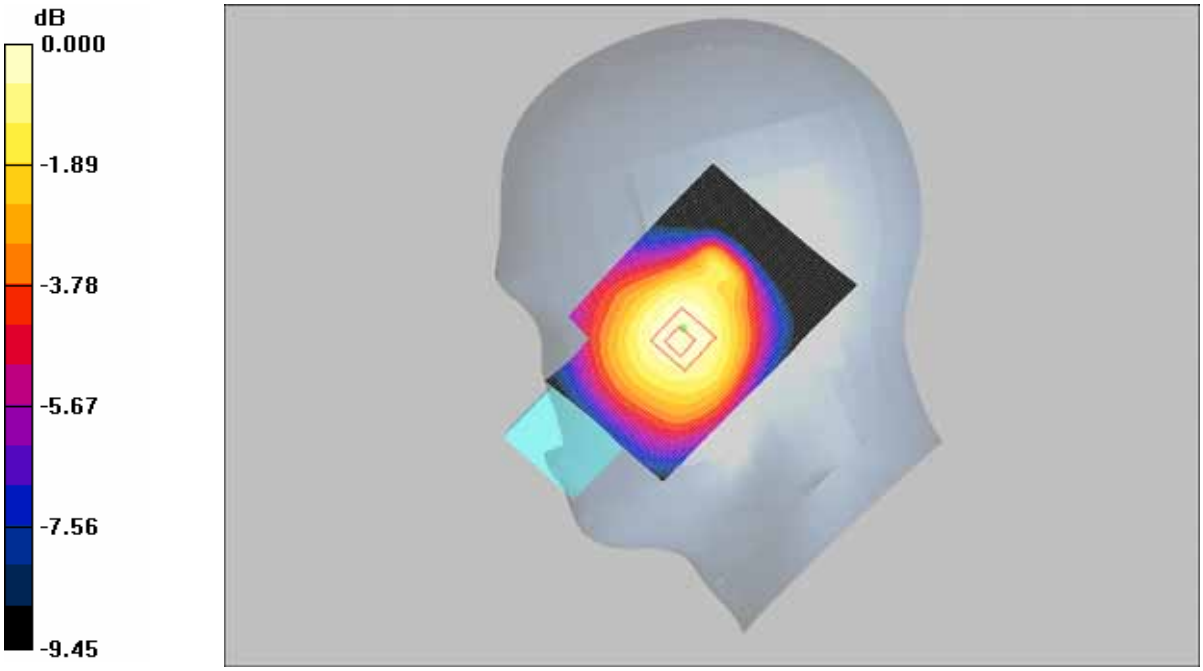
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.7, 5.7, 5.7); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Right Head Tilt,Ch.190, Slide Up, BT On, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.200 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.4 V/m; Power Drift = -0.424 dB
Peak SAR (extrapolated) = 0.881 W/kg
SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.143 mW/g
Maximum value of SAR (measured) = 0.200 mW/g



0 dB = 0.200 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 835 MHz;(σ = 0.89mho/m; ε_r = 40.3; ρ = 1000 kg/m^3)
Phantom section: Left Section

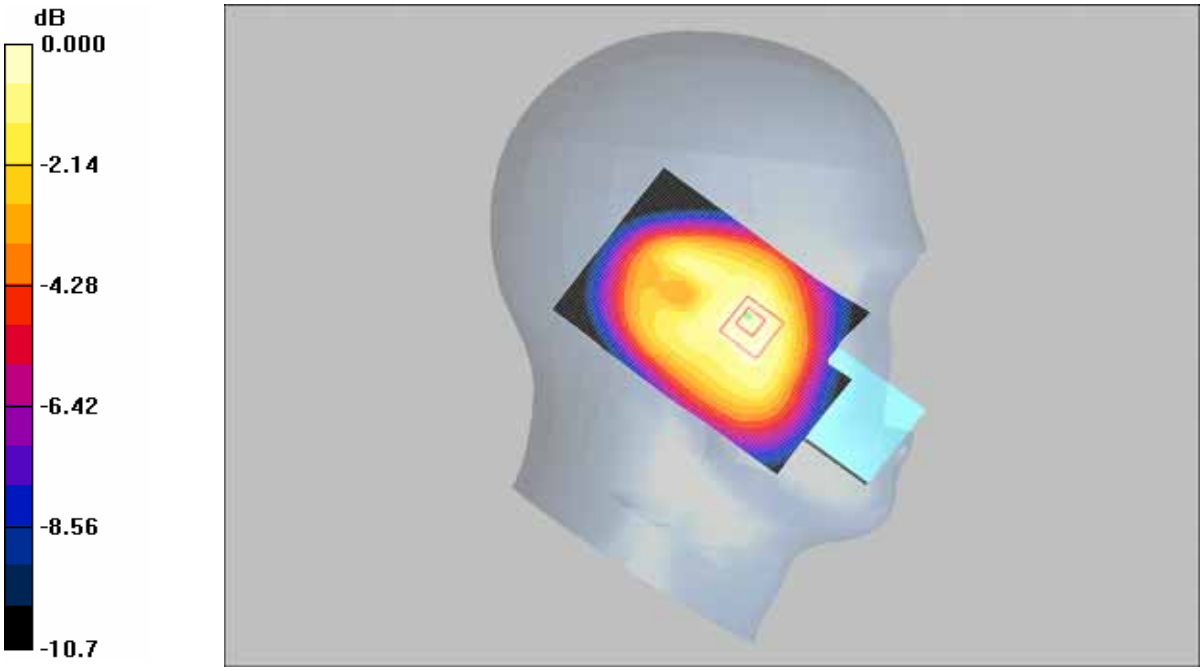
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.7, 5.7, 5.7); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Touch,Ch.190, Slide Down, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.338 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.0 V/m; Power Drift = 0.219 dB
Peak SAR (extrapolated) = 0.418 W/kg
SAR(1 g) = 0.318 mW/g; SAR(10 g) = 0.235 mW/g
Maximum value of SAR (measured) = 0.339 mW/g



0 dB = 0.339 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 835 MHz;(σ = 0.89mho/m; ε_r = 40.3; ρ = 1000 kg/m^3)
Phantom section: Left Section

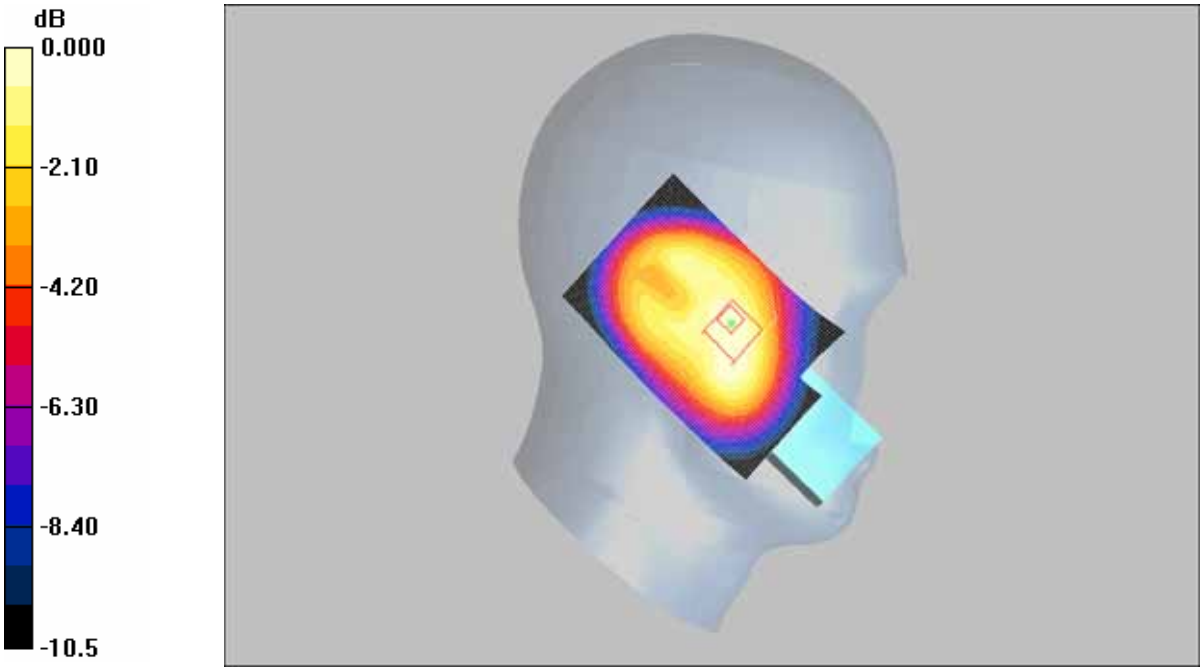
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.7, 5.7, 5.7); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Touch,Ch.190, Slide Down, BT On, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.315 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.5 V/m; Power Drift = 0.134 dB
Peak SAR (extrapolated) = 0.396 W/kg
SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.216 mW/g
Maximum value of SAR (measured) = 0.316 mW/g



0 dB = 0.316 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 835 MHz;(σ = 0.89mho/m; ε_r = 40.3; ρ = 1000 kg/m^3)
Phantom section: Left Section

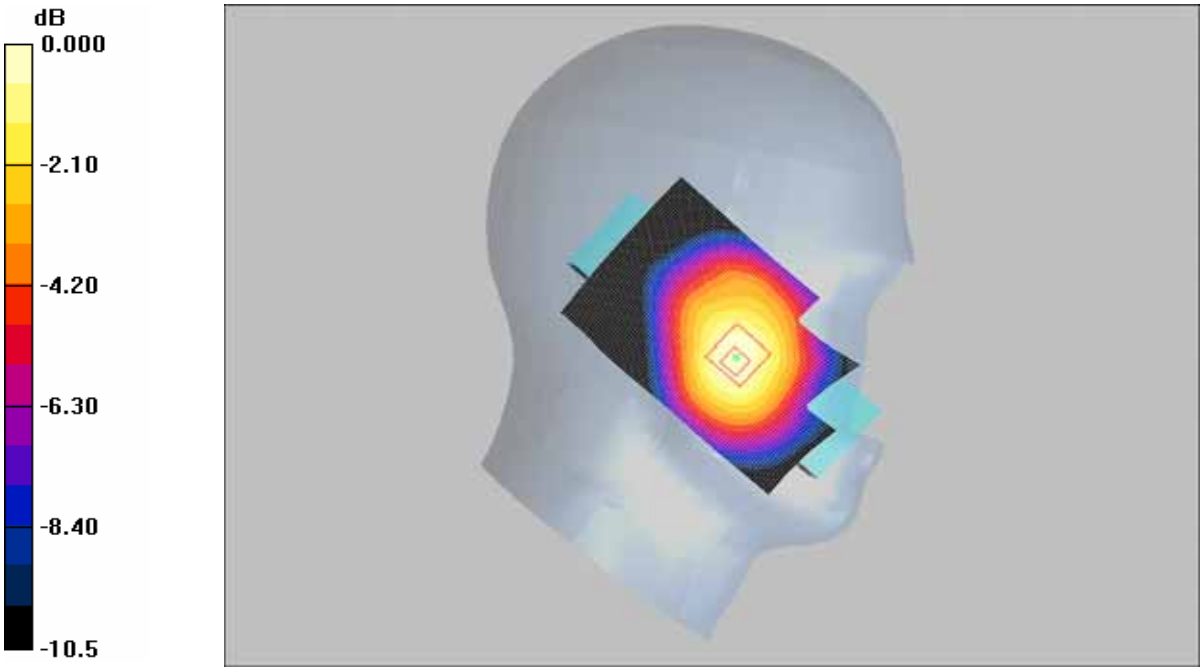
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.7, 5.7, 5.7); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Touch,Ch.190, Slide Up, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.656 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.22 V/m; Power Drift = -0.710 dB
Peak SAR (extrapolated) = 0.881 W/kg
SAR(1 g) = 0.626 mW/g; SAR(10 g) = 0.427 mW/g
Maximum value of SAR (measured) = 0.680 mW/g



0 dB = 0.680 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 835 MHz;(σ = 0.89mho/m; ε_r = 40.3; ρ = 1000 kg/m^3)
Phantom section: Left Section

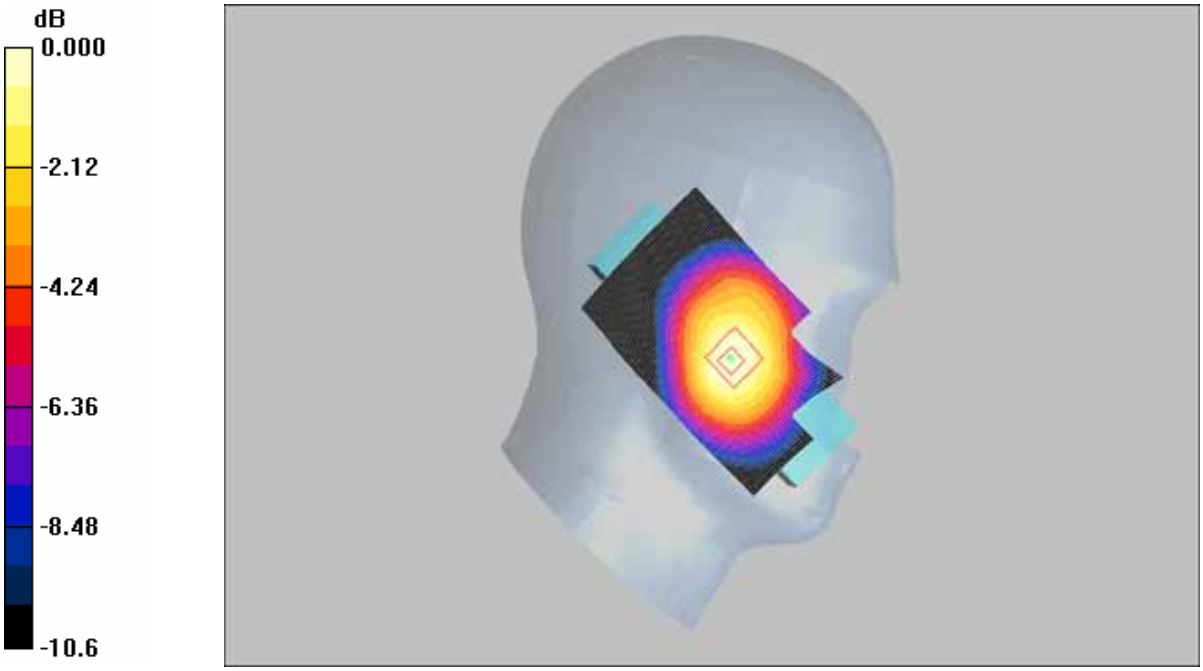
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.7, 5.7, 5.7); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Touch,Ch.190, Slide Up, BT On, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.608 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.92 V/m; Power Drift = -0.102 dB
Peak SAR (extrapolated) = 0.777 W/kg
SAR(1 g) = 0.556 mW/g; SAR(10 g) = 0.381 mW/g
Maximum value of SAR (measured) = 0.601 mW/g



0 dB = 0.601 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 835 MHz;(σ = 0.89mho/m; ε_r = 40.3; ρ = 1000 kg/m^3)
Phantom section: Left Section

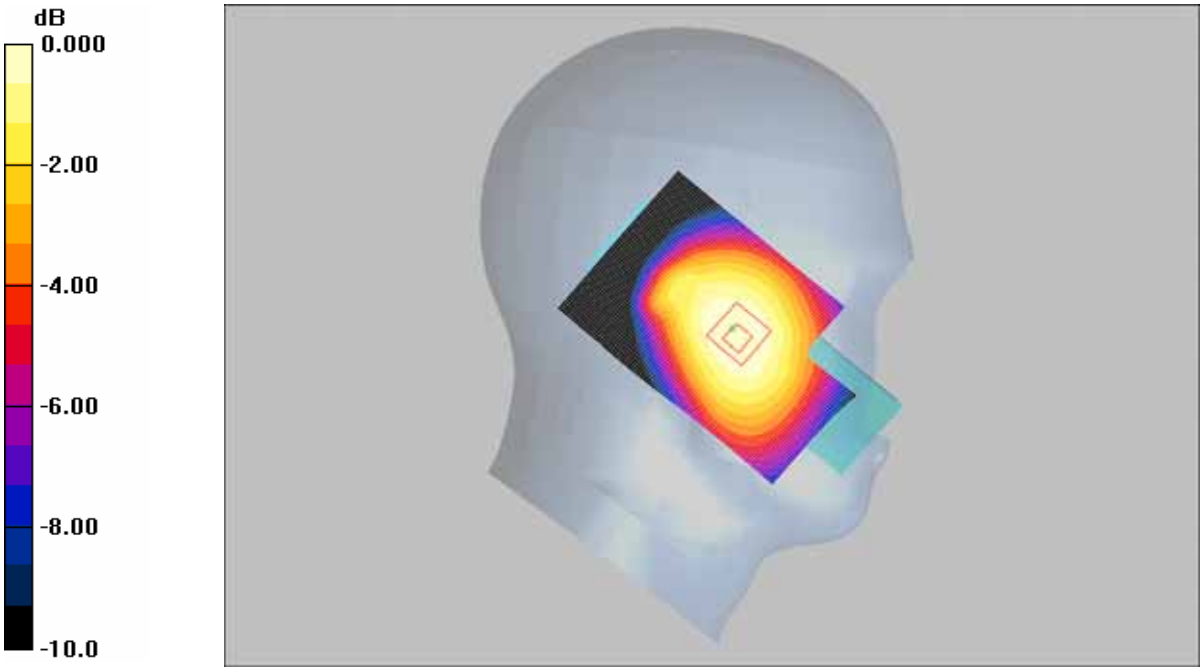
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.7, 5.7, 5.7); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Tilt,Ch.190, Slide Up, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.228 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.66 V/m; Power Drift = -0.081 dB
Peak SAR (extrapolated) = 0.277 W/kg
SAR(1 g) = 0.210 mW/g; SAR(10 g) = 0.154 mW/g
Maximum value of SAR (measured) = 0.219 mW/g



0 dB = 0.945 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880.00 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz;(σ = 1.4 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3)
Phantom section: Right Section

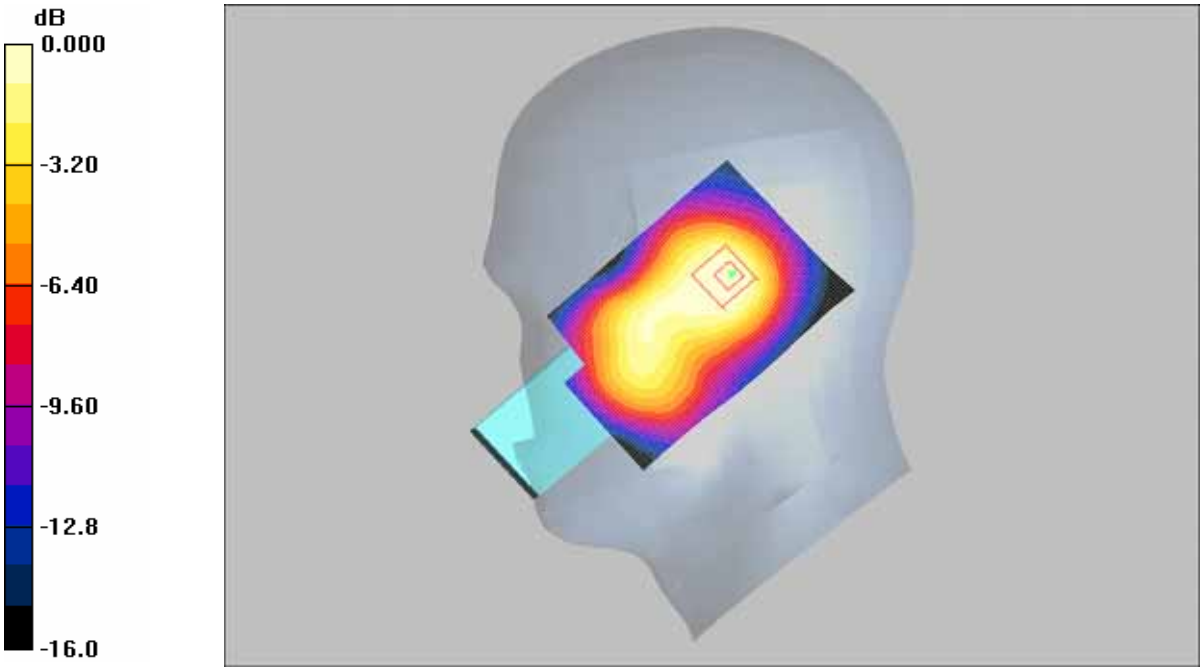
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.81, 4.81, 4.81); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Right Head Touch,Ch.661, Slide Down, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.235 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.1 V/m; Power Drift = -0.083 dB
Peak SAR (extrapolated) = 0.349 W/kg
SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.128 mW/g
Maximum value of SAR (measured) = 0.232 mW/g



0 dB = 0.232 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880.00 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz;(σ = 1.4 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3)
Phantom section: Right Section

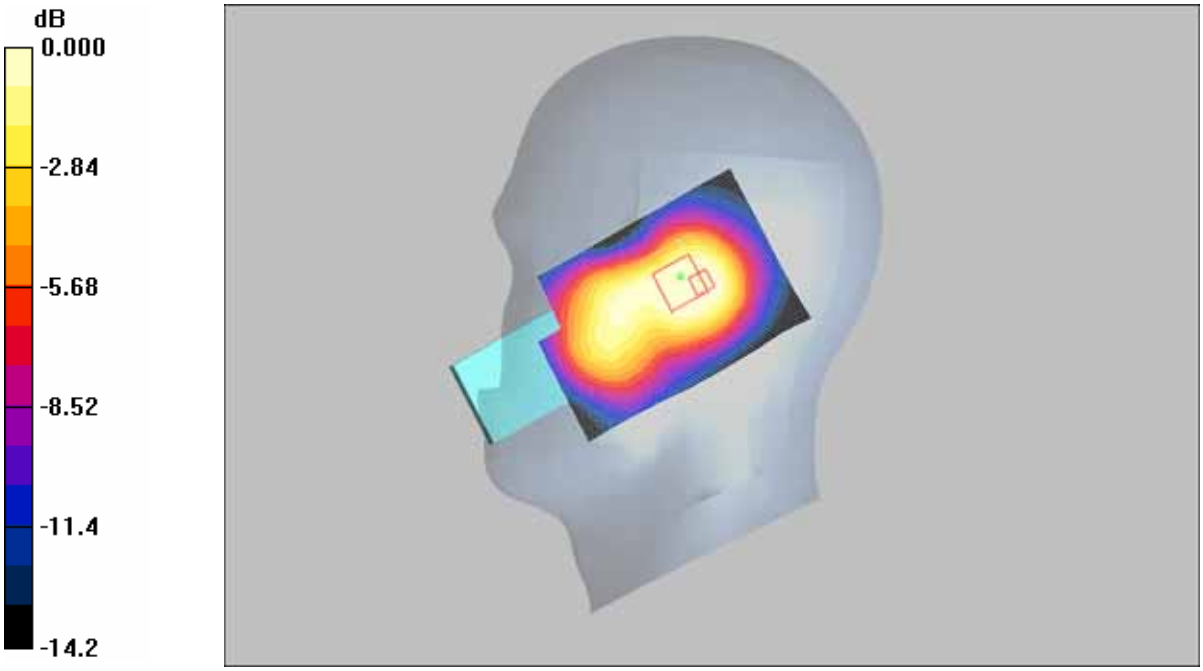
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.81, 4.81, 4.81); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Right Head Touch,Ch.661, Slide Down, BT On, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.204 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.4 V/m; Power Drift = -0.081 dB
Peak SAR (extrapolated) = 0.297 W/kg
SAR(1 g) = 0.183 mW/g; SAR(10 g) = 0.117 mW/g
Maximum value of SAR (measured) = 0.198 mW/g



0 dB = 0.198 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880.00 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz;(σ = 1.4 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3)
Phantom section: Right Section

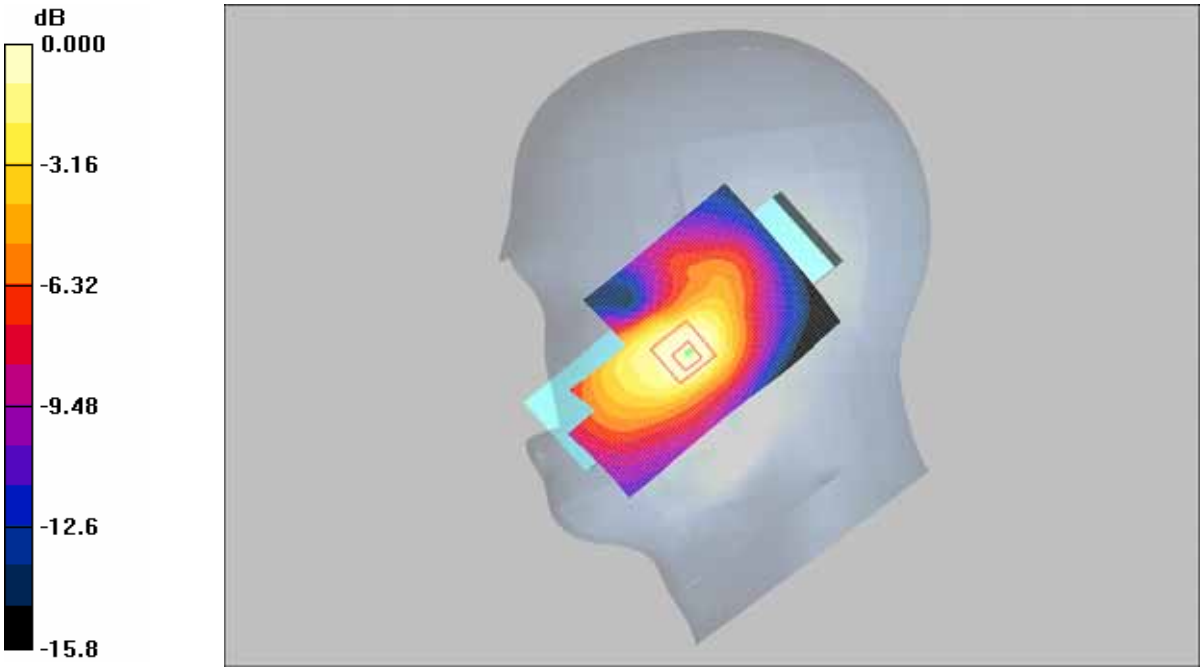
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.81, 4.81, 4.81); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Right Head Touch,Ch.661, Slide Up, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.173 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.45 V/m; Power Drift = 0.122 dB
Peak SAR (extrapolated) = 0.235 W/kg
SAR(1 g) = 0.149 mW/g; SAR(10 g) = 0.093 mW/g
Maximum value of SAR (measured) = 0.160 mW/g



0 dB = 0.160 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880.00 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz;(σ = 1.4 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3)
Phantom section: Right Section

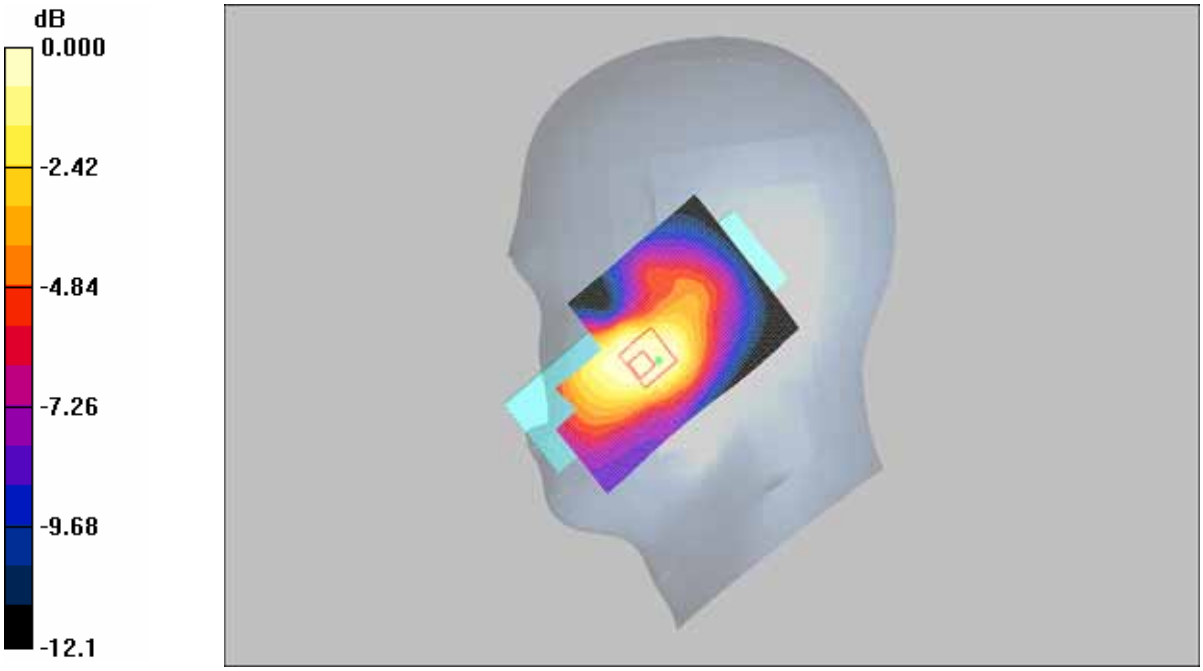
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.81, 4.81, 4.81); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Right Head Touch,Ch.661, Slide Up, BT On, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.106 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.30 V/m; Power Drift = 0.017 dB
Peak SAR (extrapolated) = 0.134 W/kg
SAR(1 g) = 0.094 mW/g; SAR(10 g) = 0.063 mW/g
Maximum value of SAR (measured) = 0.099 mW/g



0 dB = 0.099 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880.00 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz;(σ = 1.4 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3)
Phantom section: Right Section

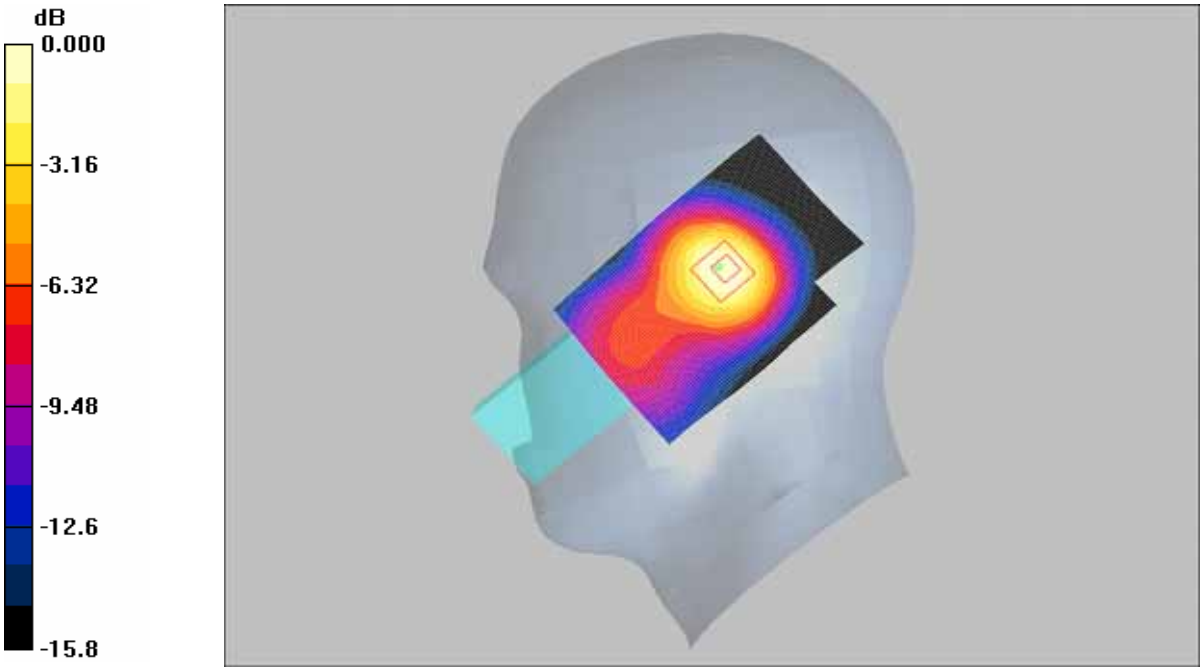
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.81, 4.81, 4.81); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Right Head Tilt,Ch.661, Slide Down, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.228 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.2 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 0.429 W/kg
SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.137 mW/g
Maximum value of SAR (measured) = 0.271 mW/g



0 dB = 0.271 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880.00 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz;(σ = 1.4 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3)
Phantom section: Left Section

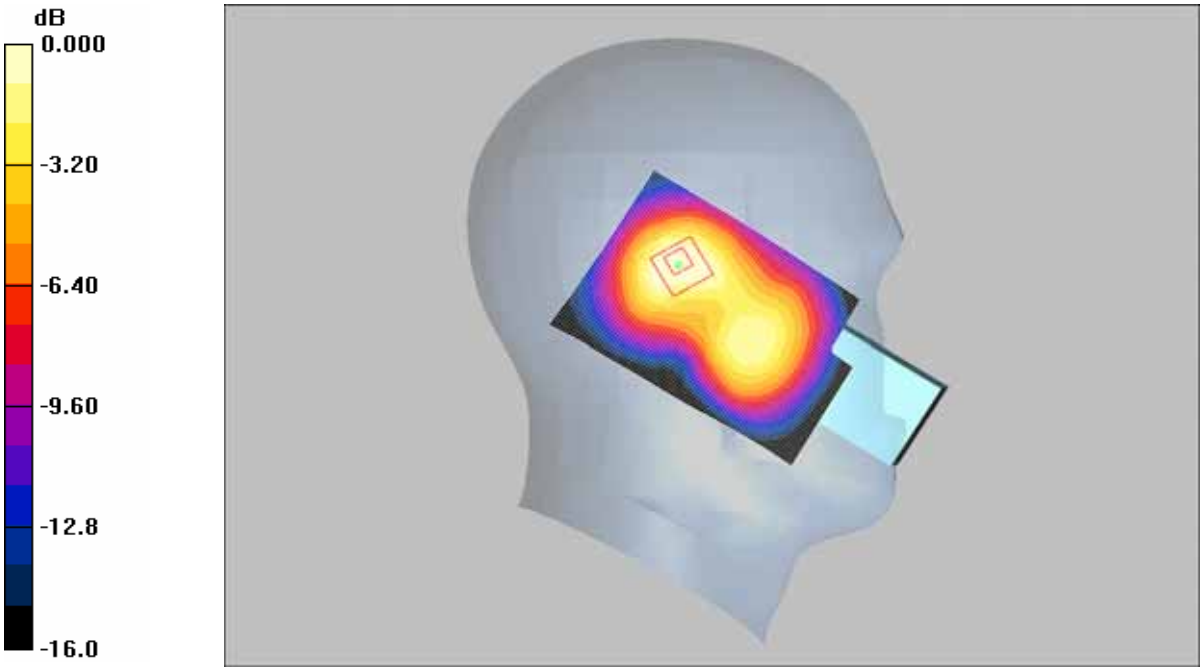
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.81, 4.81, 4.81); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Touch,Ch.661, Slide Down, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.333 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.1 V/m; Power Drift = -0.018 dB
Peak SAR (extrapolated) = 0.443 W/kg
SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.154 mW/g
Maximum value of SAR (measured) = 0.279 mW/g



0 dB = 0.279 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880.00 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz;(σ = 1.4 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3)
Phantom section: Left Section

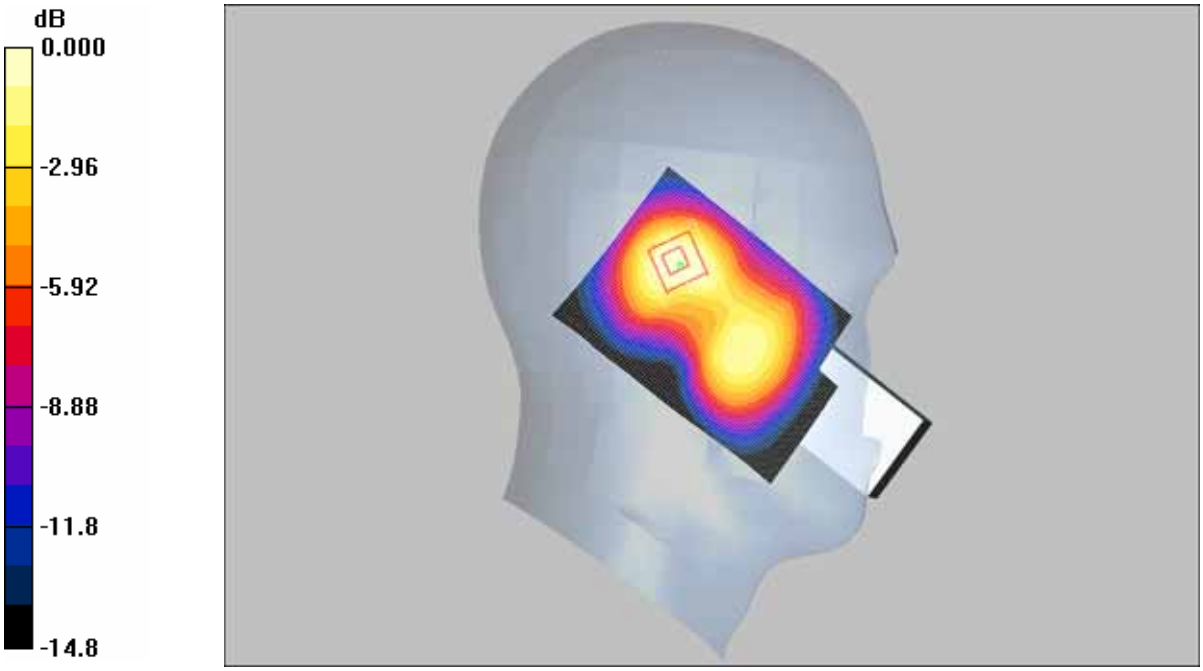
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.81, 4.81, 4.81); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Touch,Ch.661, Slide Down, BT On, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.275 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.5 V/m; Power Drift = -0.014 dB
Peak SAR (extrapolated) = 0.386 W/kg
SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.133 mW/g
Maximum value of SAR (measured) = 0.240 mW/g



0 dB = 0.240 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880.00 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz;(σ = 1.4 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3)
Phantom section: Left Section

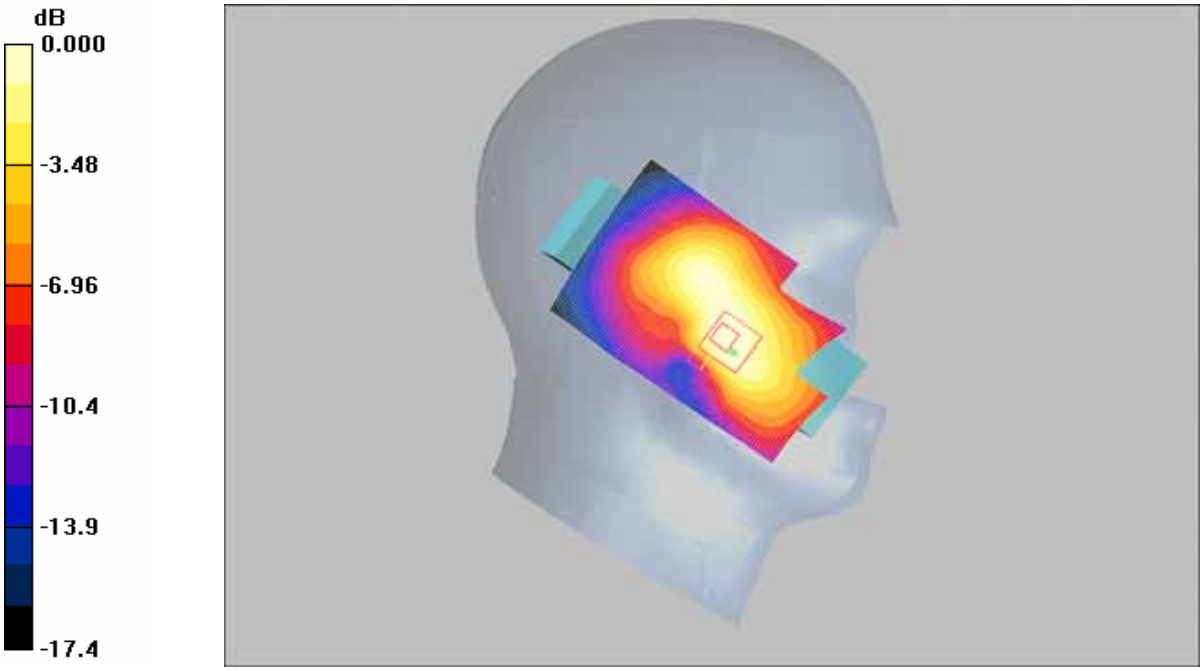
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.81, 4.81, 4.81); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Touch,Ch.661, Slide Up, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.161 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.66 V/m; Power Drift = -0.111 dB
Peak SAR (extrapolated) = 0.218 W/kg
SAR(1 g) = 0.139 mW/g; SAR(10 g) = 0.083 mW/g
Maximum value of SAR (measured) = 0.148 mW/g



0 dB = 0.148 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880.00 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz;(σ = 1.4 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3)
Phantom section: Left Section

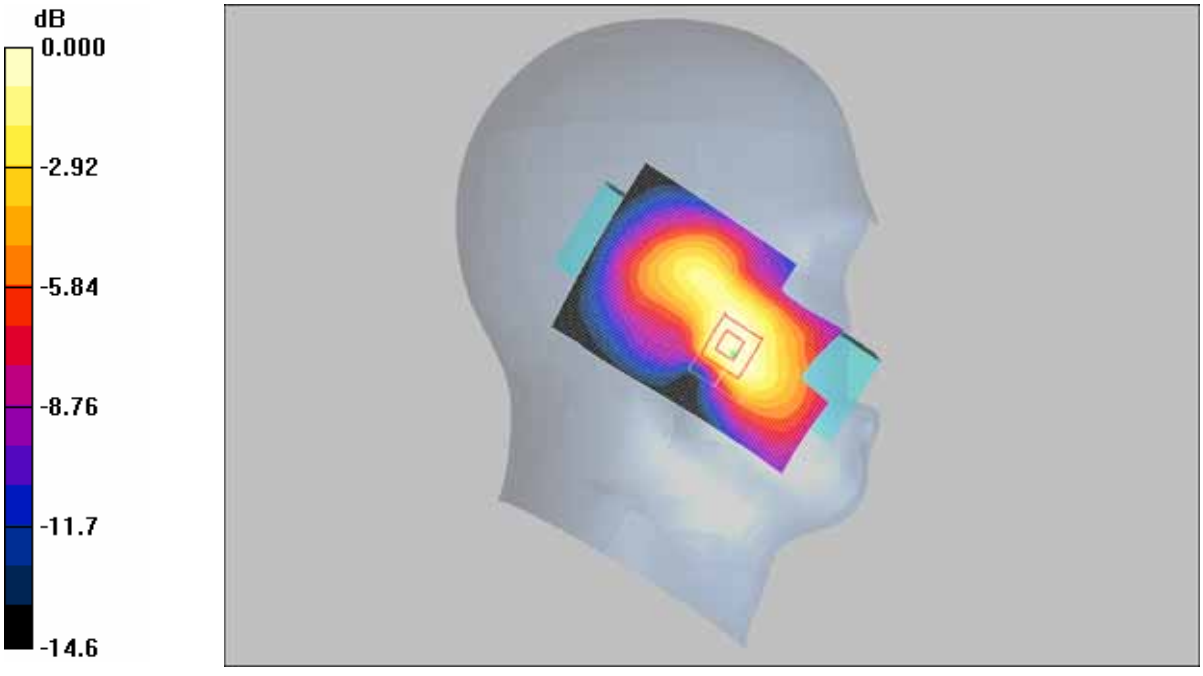
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.81, 4.81, 4.81); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Touch,Ch.661, Slide Up, BT On, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.163 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.20 V/m; Power Drift = -0.069 dB
Peak SAR (extrapolated) = 0.215 W/kg
SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.083 mW/g
Maximum value of SAR (measured) = 0.146 mW/g



0 dB = 0.146 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880.00 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz;(σ = 1.4 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3)
Phantom section: Left Section

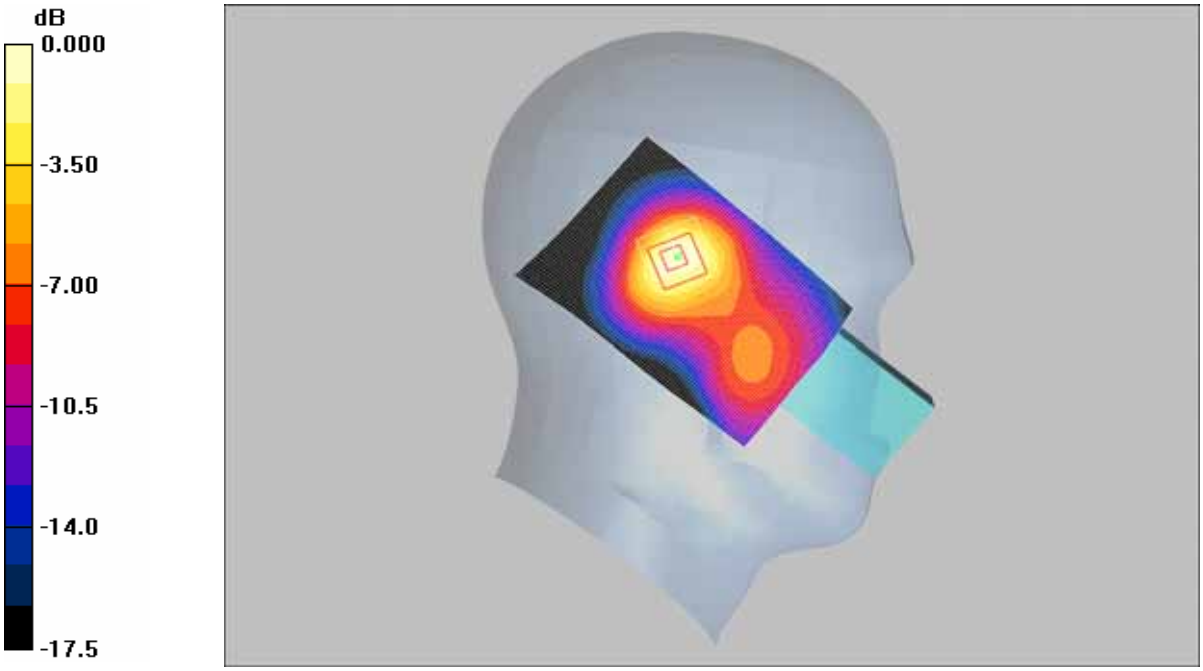
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.81, 4.81, 4.81); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Tilt,Ch.661, Slide Down, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.367 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.4 V/m; Power Drift = -0.014 dB
Peak SAR (extrapolated) = 0.521 W/kg
SAR(1 g) = 0.300 mW/g; SAR(10 g) = 0.164 mW/g
Maximum value of SAR (measured) = 0.334 mW/g



0 dB = 0.334 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 835.89 MHz;Duty Cycle: 1: 4.15
Medium: Head 835 MHz;(σ = 0.96mho/m; ε_r = 55.9; ρ = 1000 kg/m^3)
Phantom section: Flat Section

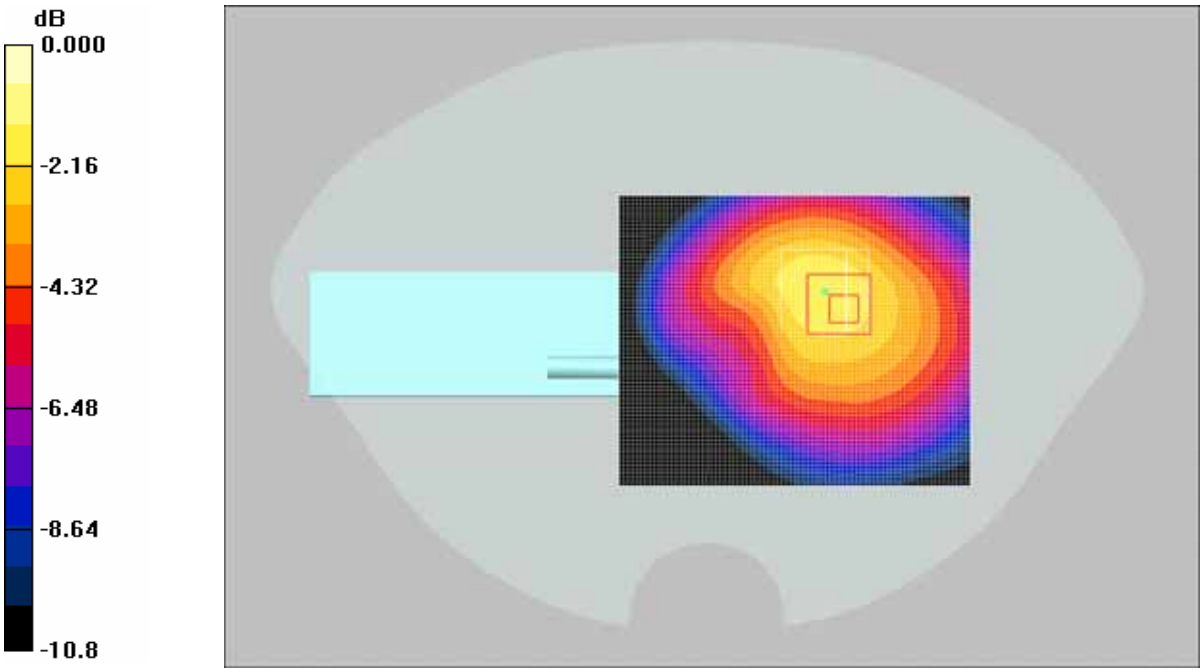
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.82, 5.82, 5.82); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.190, Slide Down Front, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.197 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.27 V/m; Power Drift = 1.45 dB
Peak SAR (extrapolated) = 0.393 W/kg
SAR(1 g) = 0.261 mW/g; SAR(10 g) = 0.181 mW/g
Maximum value of SAR (measured) = 0.274 mW/g



0 dB = 0.274mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 835.89 MHz;Duty Cycle: 1: 4.15
Medium: Head 835 MHz;(σ = 0.96mho/m; ε_r = 55.9; ρ = 1000 kg/m^3)
Phantom section: Flat Section

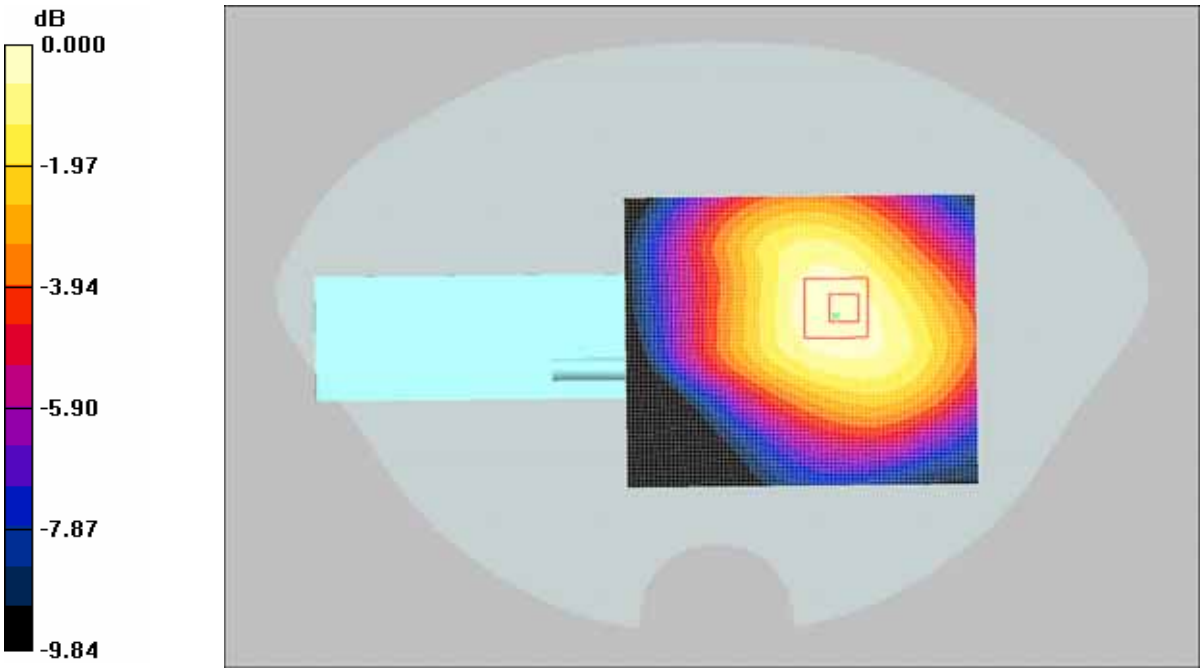
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.82, 5.82, 5.82); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.190, Slide Up Front, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.214 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.39 V/m; Power Drift = -0.061 dB
Peak SAR (extrapolated) = 0.331 W/kg
SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.144 mW/g
Maximum value of SAR (measured) = 0.218 mW/g



0 dB = 0.218mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 835.89 MHz;Duty Cycle: 1: 4.15
Medium: Head 835 MHz;(σ = 0.96mho/m; ε_r = 55.9; ρ = 1000 kg/m^3)
Phantom section: Flat Section

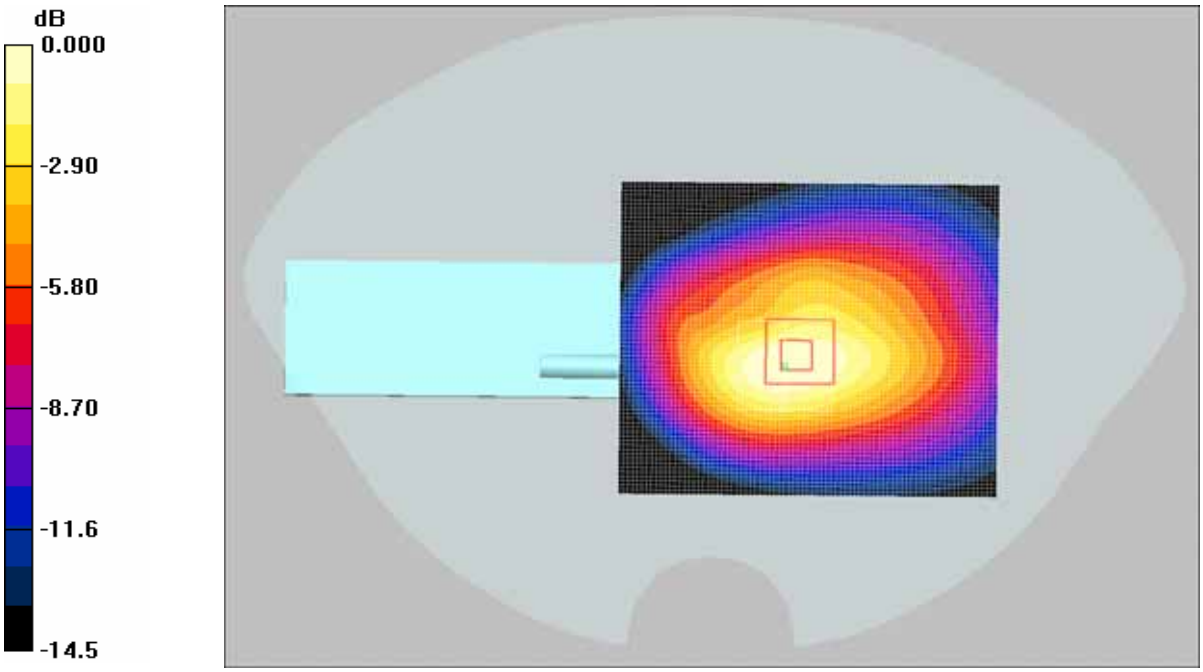
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.82, 5.82, 5.82); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.190, Slide Down Rear, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.573 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.9 V/m; Power Drift = 0.513 dB
Peak SAR (extrapolated) = 0.968 W/kg
SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.325 mW/g
Maximum value of SAR (measured) = 0.558 mW/g



0 dB = 0.558mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 835.89 MHz;Duty Cycle: 1: 4.15
Medium: Head 835 MHz;(σ = 0.96mho/m; ε_r = 55.9; ρ = 1000 kg/m^3)
Phantom section: Flat Section

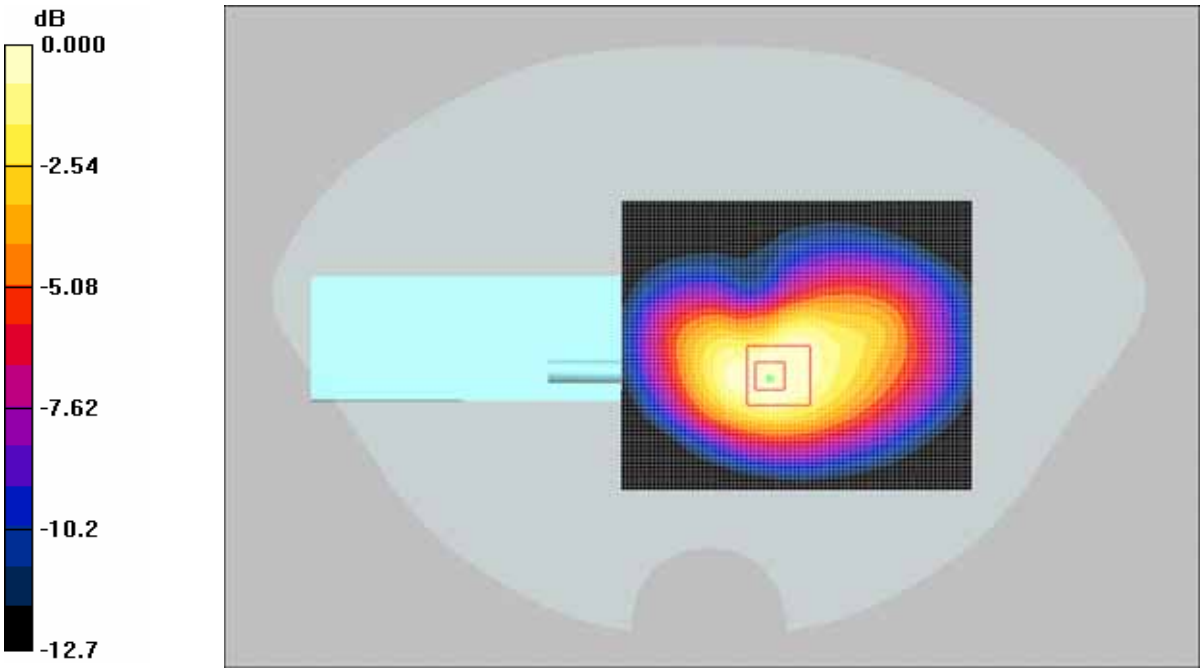
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.82, 5.82, 5.82); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.190, Slide Up Rear, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.892 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.7 V/m; Power Drift = -0.964 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 0.789 mW/g; SAR(10 g) = 0.489 mW/g
Maximum value of SAR (measured) = 0.844 mW/g



0 dB = 0.844mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 835.89 MHz;Duty Cycle: 1: 4.15
Medium: Head 835 MHz;(σ = 0.96mho/m; ε_r = 55.9; ρ = 1000 kg/m^3)
Phantom section: Flat Section

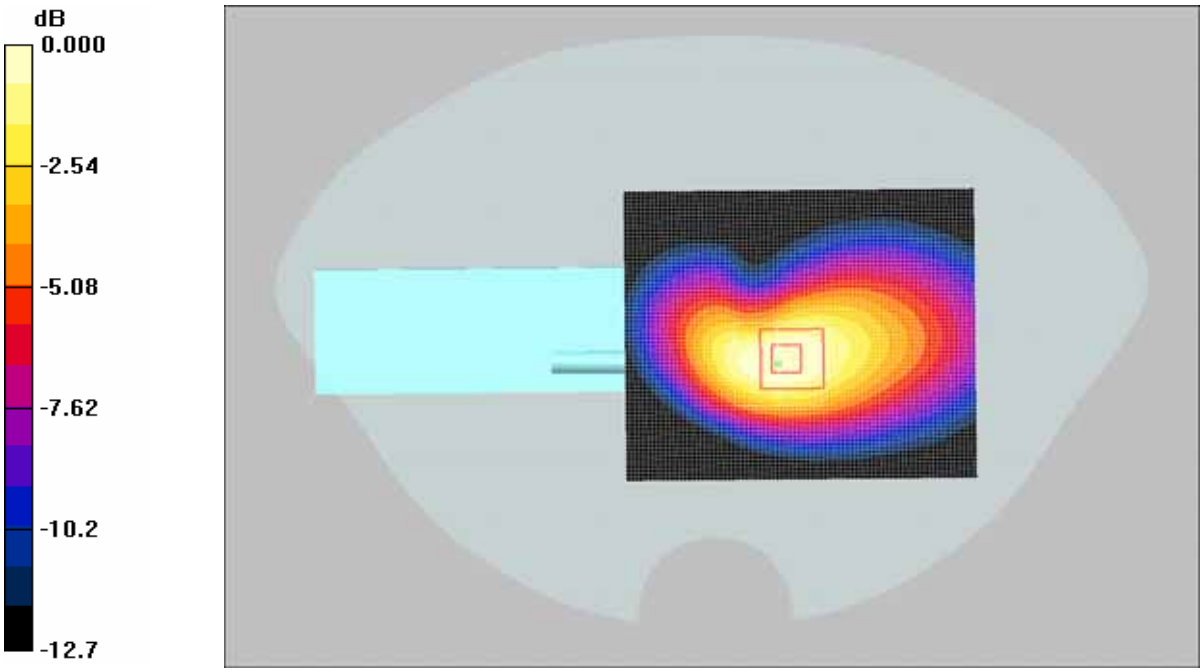
Test Date: 11/22/2006;Ambient Temp: 22.2˚C;Tissue Temp: 21.5˚C

Probe: ES3DV3 – SN3066; ConvF(5.82, 5.82, 5.82); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.190, Slide Up Rear, BT On, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.845 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.6 V/m; Power Drift = 0.176 dB
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 0.759 mW/g; SAR(10 g) = 0.468 mW/g
Maximum value of SAR (measured) = 0.798 mW/g



0 dB = 0.798mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880 MHz;Duty Cycle: 1: 4.15
Medium: Head 1900 MHz;(σ = 1.57 mho/m; ε_r = 51.1; ρ = 1000 kg/m^3)
Phantom section: Flat Section

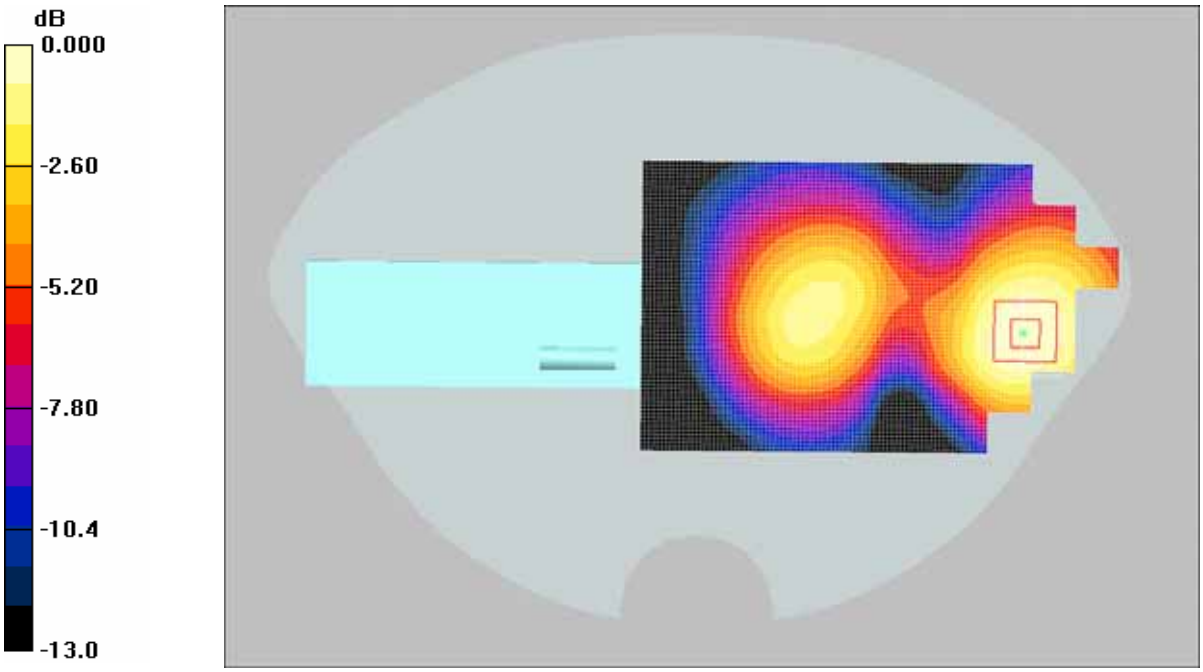
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.38, 4.38, 4.38); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.661, Slide Down Front, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.066 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.14 V/m; Power Drift = -0.060 dB
Peak SAR (extrapolated) = 0.118 W/kg
SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.040 mW/g
Maximum value of SAR (measured) = 0.065 mW/g



0 dB = 0.065mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880 MHz;Duty Cycle: 1: 4.15
Medium: Head 1900 MHz;(σ = 1.57 mho/m; ε_r = 51.1; ρ = 1000 kg/m^3)
Phantom section: Flat Section

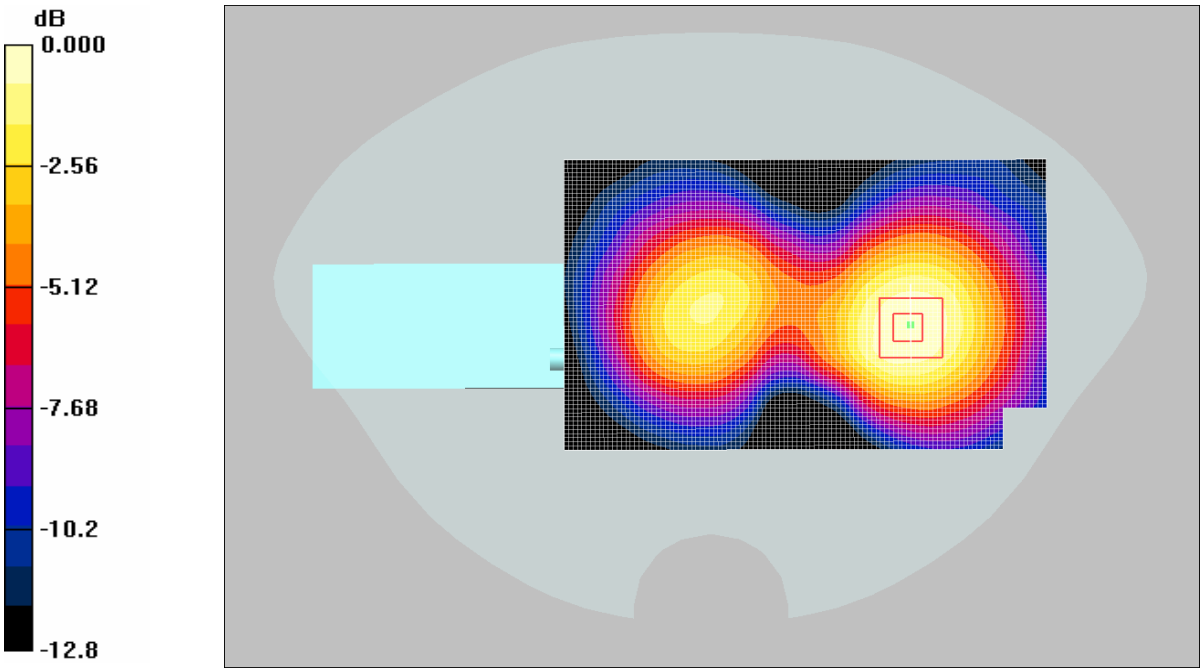
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.38, 4.38, 4.38); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.661, Slide Up Front, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.074 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.59 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 0.135 W/kg
SAR(1 g) = 0.071 mW/g; SAR(10 g) = 0.044 mW/g
Maximum value of SAR (measured) = 0.074 mW/g



0 dB = 0.074mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880 MHz;Duty Cycle: 1: 4.15
Medium: Head 1900 MHz;(σ = 1.57 mho/m; ε_r = 51.1; ρ = 1000 kg/m^3)
Phantom section: Flat Section

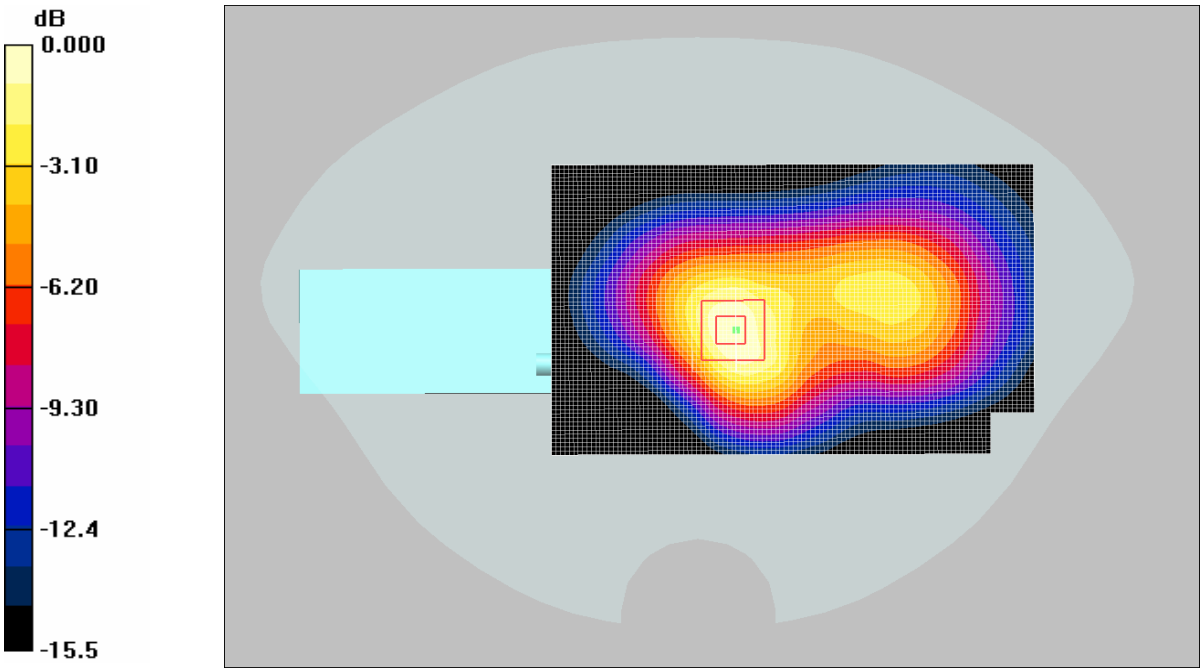
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.38, 4.38, 4.38); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.661, Slide Down Rear, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.289 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.9 V/m; Power Drift = -0.013 dB
Peak SAR (extrapolated) = 0.515 W/kg
SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.149 mW/g
Maximum value of SAR (measured) = 0.277 mW/g



0 dB = 0.277mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880 MHz;Duty Cycle: 1: 4.15
Medium: Head 1900 MHz;(σ = 1.57 mho/m; ε_r = 51.1; ρ = 1000 kg/m^3)
Phantom section: Flat Section

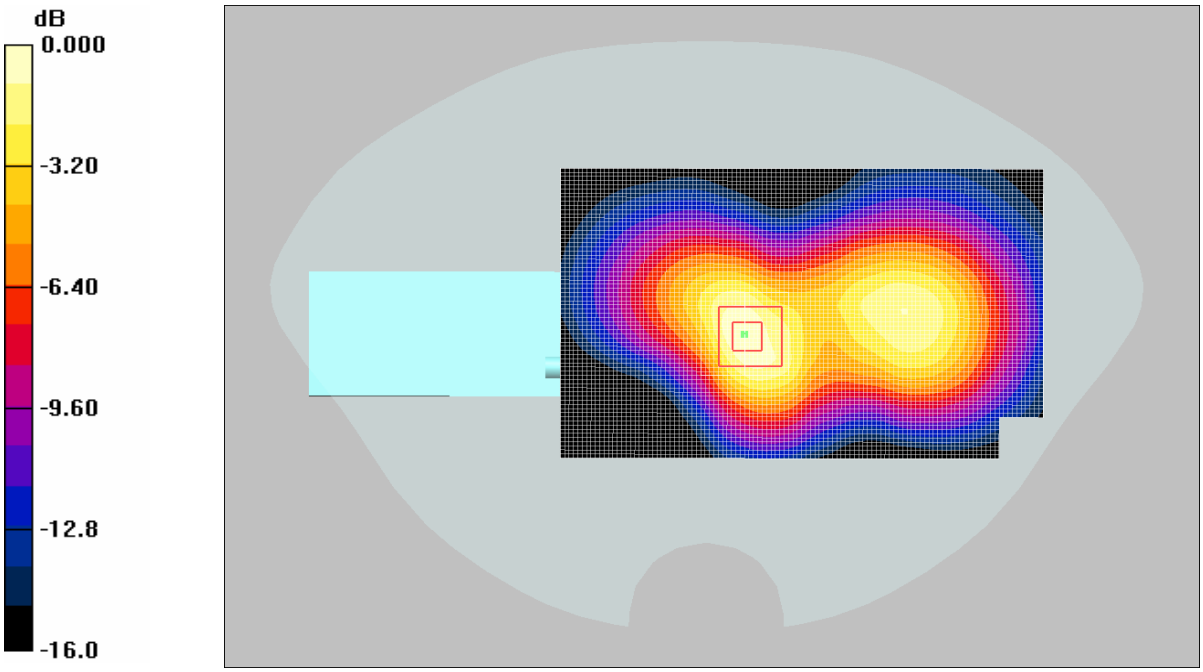
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.38, 4.38, 4.38); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.661, Slide Up Rear, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.236 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.66 V/m; Power Drift = 0.046 dB
Peak SAR (extrapolated) = 0.408 W/kg
SAR(1 g) = 0.213 mW/g; SAR(10 g) = 0.121 mW/g
Maximum value of SAR (measured) = 0.230 mW/g



0 dB = 0.230mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880 MHz;Duty Cycle: 1: 4.15
Medium: Head 1900 MHz;(σ = 1.57 mho/m; ε_r = 51.1; ρ = 1000 kg/m^3)
Phantom section: Flat Section

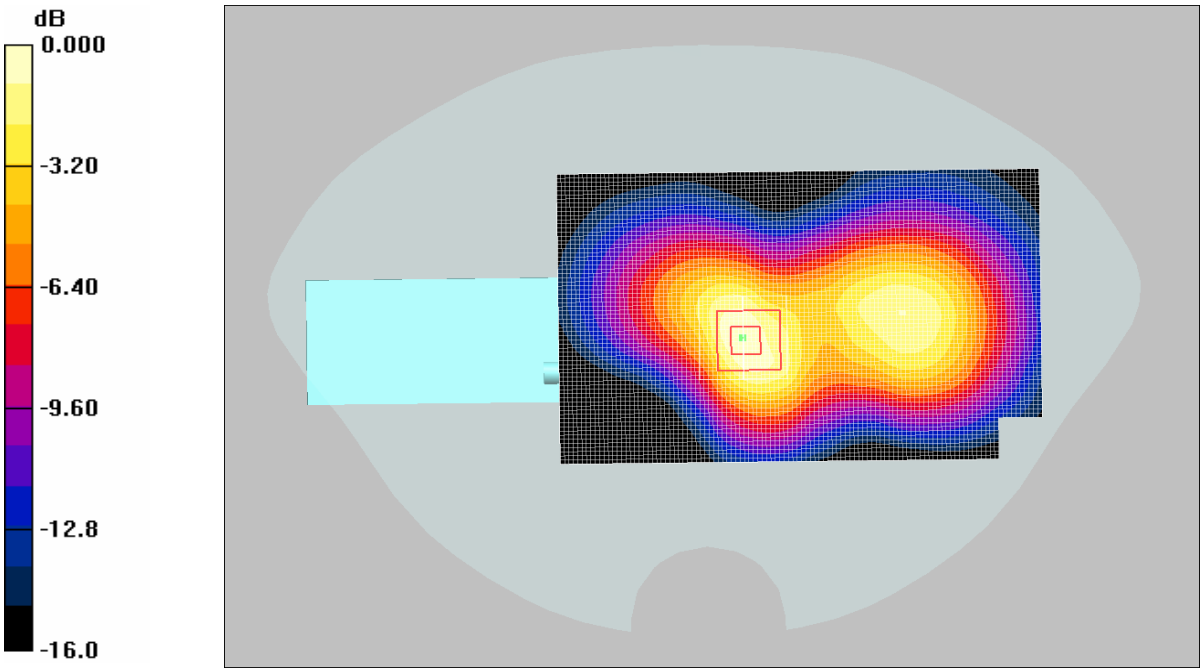
Test Date: 11/22/2006;Ambient Temp: 22. 2˚C;Tissue Temp: 21.4˚C

Probe: ES3DV3 – SN3066; ConvF(4.38, 4.38, 4.38); Calibrated: 2006-02-21
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.661, Slide Down Rear, BT On, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.231 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.54 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 0.401 W/kg
SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.111 mW/g
Maximum value of SAR (measured) = 0.225 mW/g



0 dB = 0.225mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 835 MHz;(σ = 0.93mho/m; ε_r = 41.75; ρ = 1000 kg/m^3)
Phantom section: Left Section

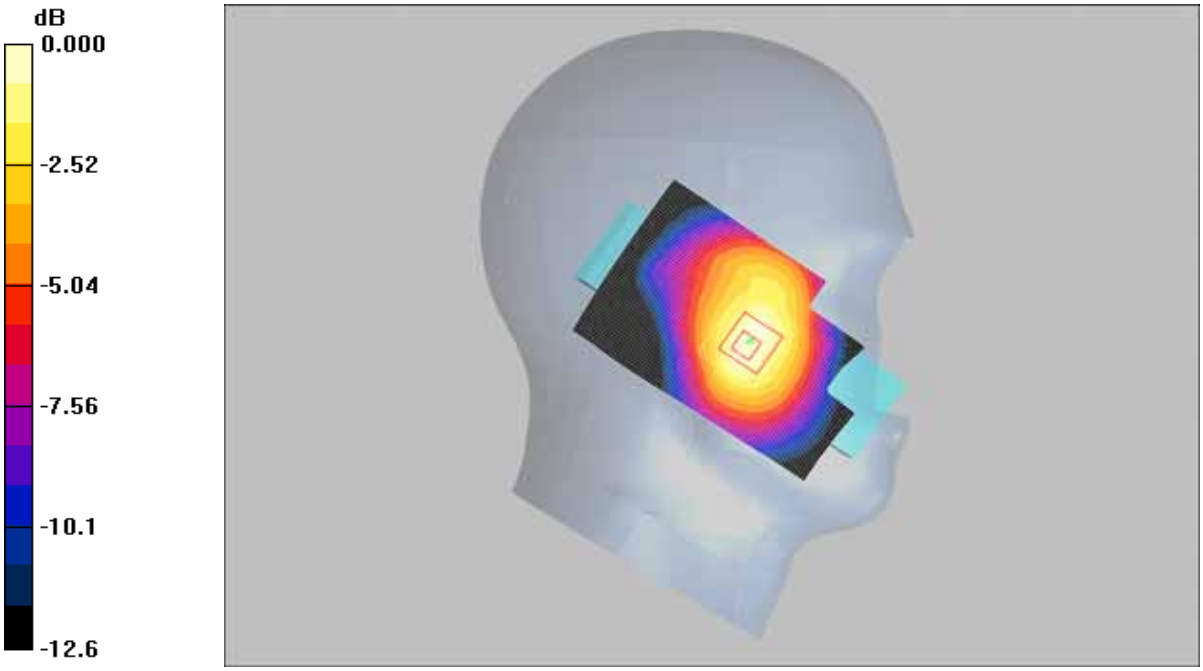
Test Date: 01/05/2007;Ambient Temp: 22.9˚C;Tissue Temp: 21.8˚C

Probe: ET3DV6 – SN1729;ConvF(6.17, 6.17, 6.17);Calibrated: 2006-01-24
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Touch,Ch.190, Slide Up, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.559 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.56 V/m; Power Drift = -0.179 dB
Peak SAR (extrapolated) = 0.786 W/kg
SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.343 mW/g
Maximum value of SAR (measured) = 0.565 mW/g



0 dB = 0.565 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880.00 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz;(σ = 1.43 mho/m; ε_r = 40.89; ρ = 1000 kg/m^3)
Phantom section: Left Section

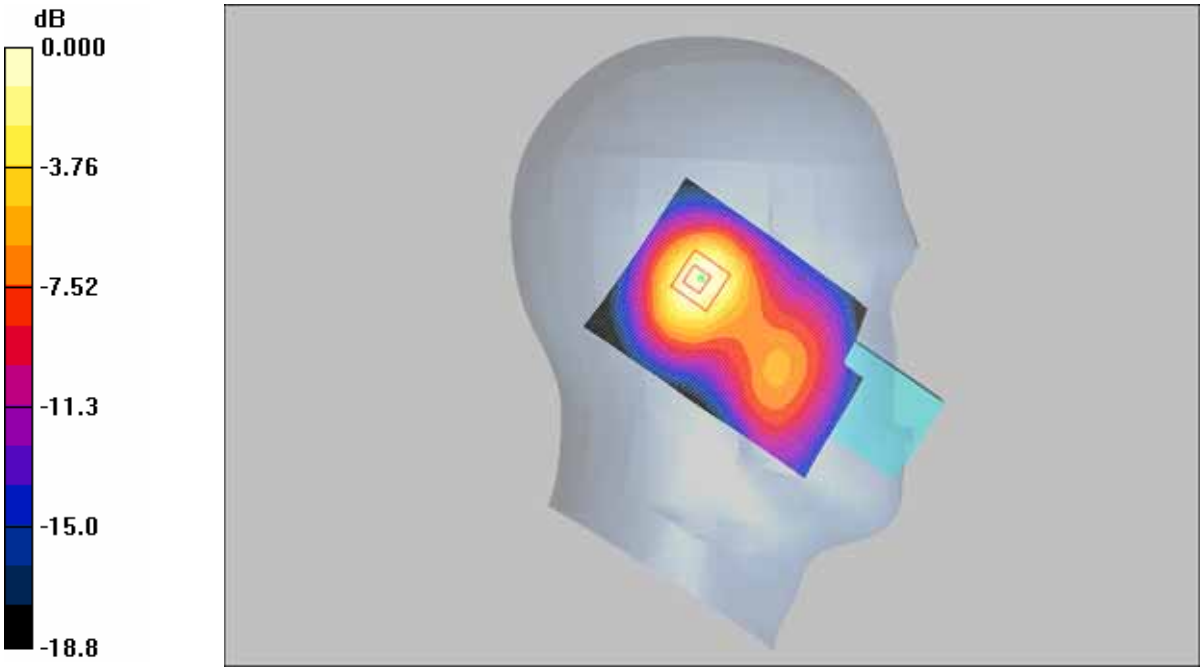
Test Date: 01/05/2007;Ambient Temp: 22.9˚C;Tissue Temp: 21.8˚C

Probe: ET3DV6 – SN1729;ConvF(5.06, 5.06, 5.06);Calibrated: 2006-01-24
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Tilt,Ch.661, Slide Down, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.463 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.8 V/m; Power Drift = -0.060 dB
Peak SAR (extrapolated) = 0.673 W/kg
SAR(1 g) = 0.374 mW/g; SAR(10 g) = 0.199 mW/g
Maximum value of SAR (measured) = 0.407 mW/g



0 dB = 0.334 mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 835.89 MHz;Duty Cycle: 1:1
Medium: Head 835 MHz;(σ = 0.98mho/m; ε_r = 55.94; ρ = 1000 kg/m^3)
Phantom section: Flat Section

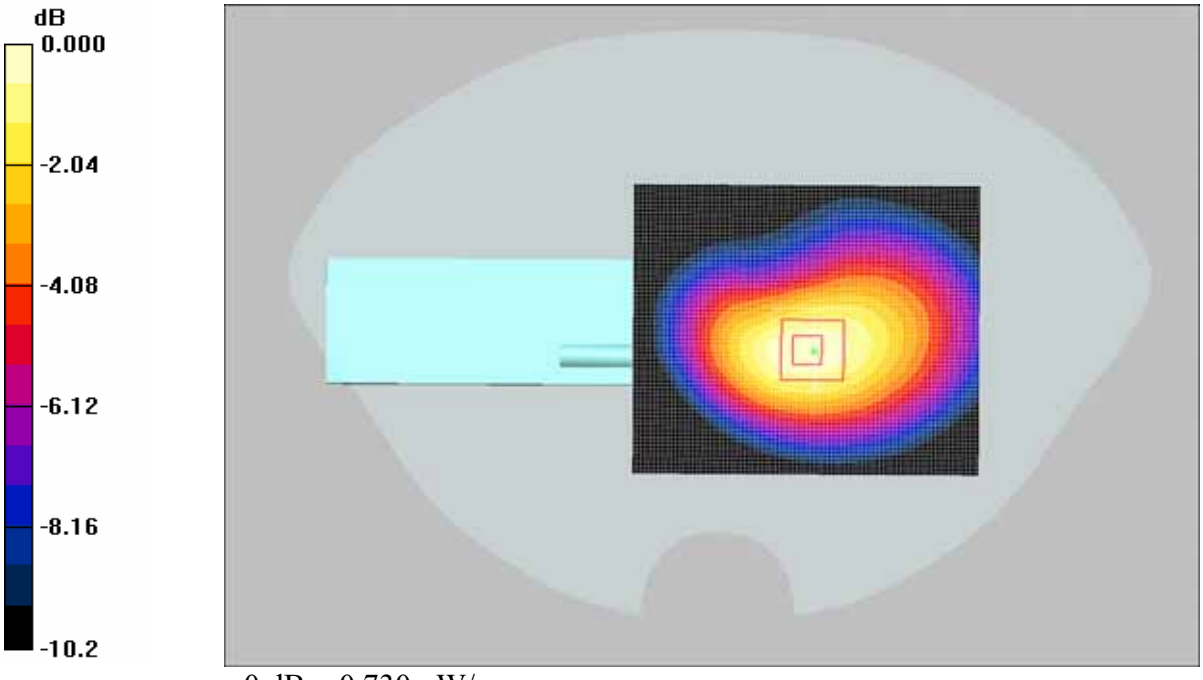
Test Date: 01/05/2007;Ambient Temp: 22.9˚C;Tissue Temp: 21.8˚C

Probe: ET3DV6 – SN1729; ConvF(6.09, 6.09, 6.09); Calibrated: 2006-01-24
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.190, Slide Up Rear, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.712 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.8 V/m; Power Drift = -0.004 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.687 mW/g; SAR(10 g) = 0.452 mW/g
Maximum value of SAR (measured) = 0.730 mW/g



0 dB = 0.730mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880 MHz;Duty Cycle: 1: 4.15
Medium: Head 1900 MHz;(σ = 1.58 mho/m; ε_r = 51.21; ρ = 1000 kg/m^3)
Phantom section: Flat Section

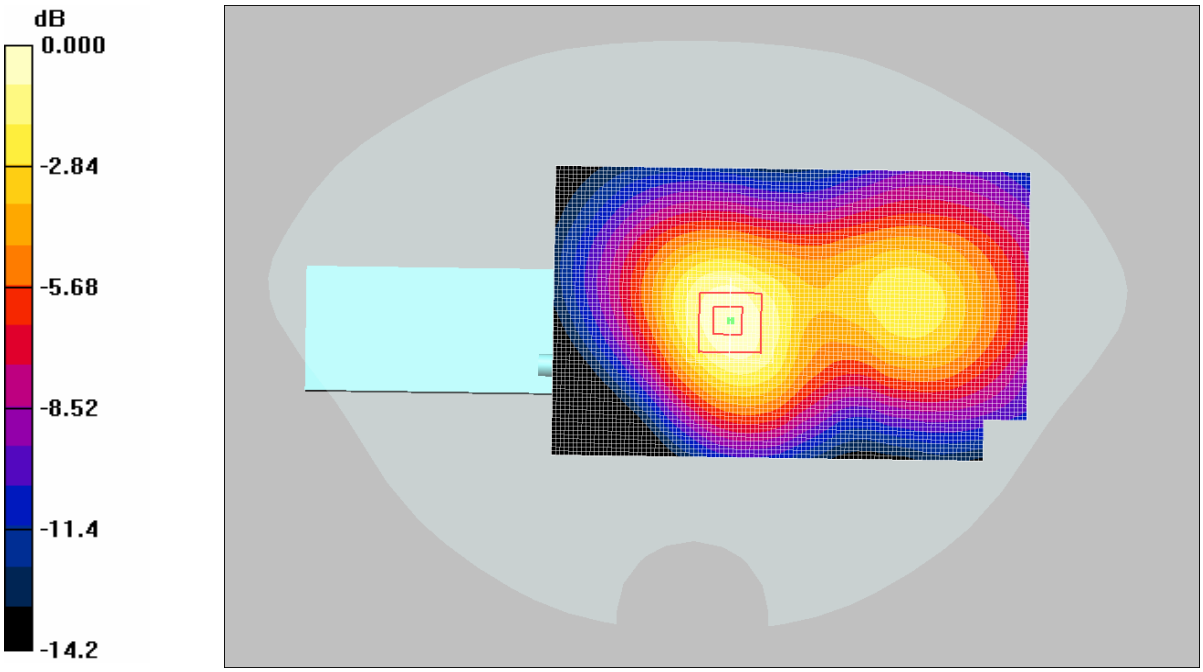
Test Date: 01/05/2007;Ambient Temp: 22.9˚C;Tissue Temp: 21.8˚C

Probe: ET3DV6 – SN1729;ConvF(4.94, 4.94, 4.94);Calibrated: 2006-01-24
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.661, Slide Down Rear, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.296 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.7 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 0.515 W/kg
SAR(1 g) = 0.278 mW/g; SAR(10 g) = 0.167 mW/g
Maximum value of SAR (measured) = 0.294 mW/g



0 dB = 0.294mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 835 MHz;(σ = 0.93mho/m; ε_r = 41.75; ρ = 1000 kg/m^3)
Phantom section: Left Section

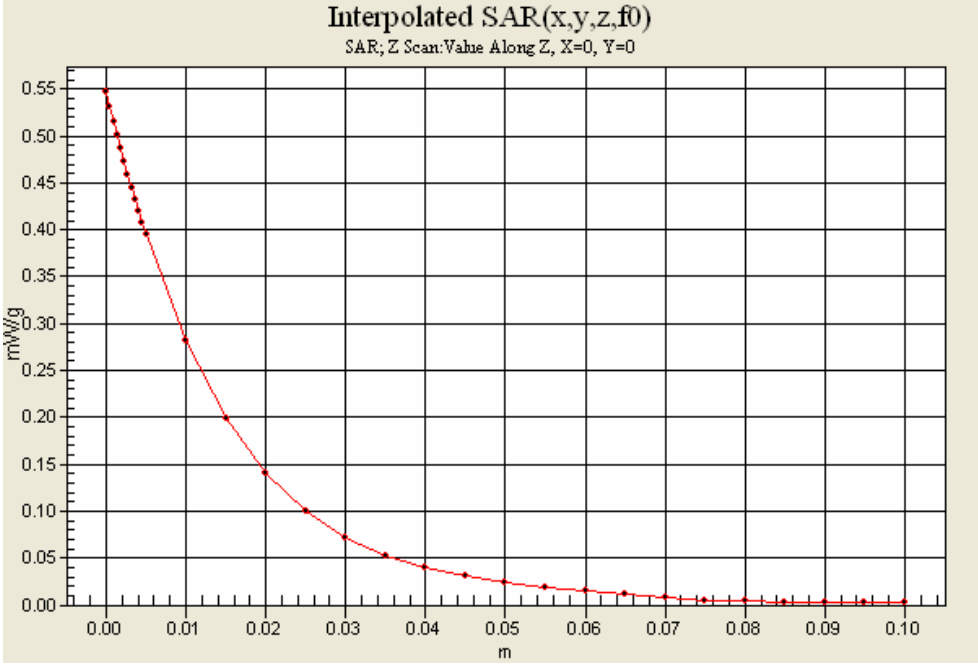
Test Date: 01/05/2007;Ambient Temp: 22.9˚C;Tissue Temp: 21.8˚C

Probe: ET3DV6 – SN1729;ConvF(6.17, 6.17, 6.17);Calibrated: 2006-01-24
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Touch,Ch.190, Slide Up, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.559 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.56 V/m; Power Drift = -0.179 dB
Peak SAR (extrapolated) = 0.786 W/kg
SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.343 mW/g
Maximum value of SAR (measured) = 0.565 mW/g



LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880.00 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz;(σ = 1.43 mho/m; ε_r = 40.89; ρ = 1000 kg/m^3)
Phantom section: Left Section

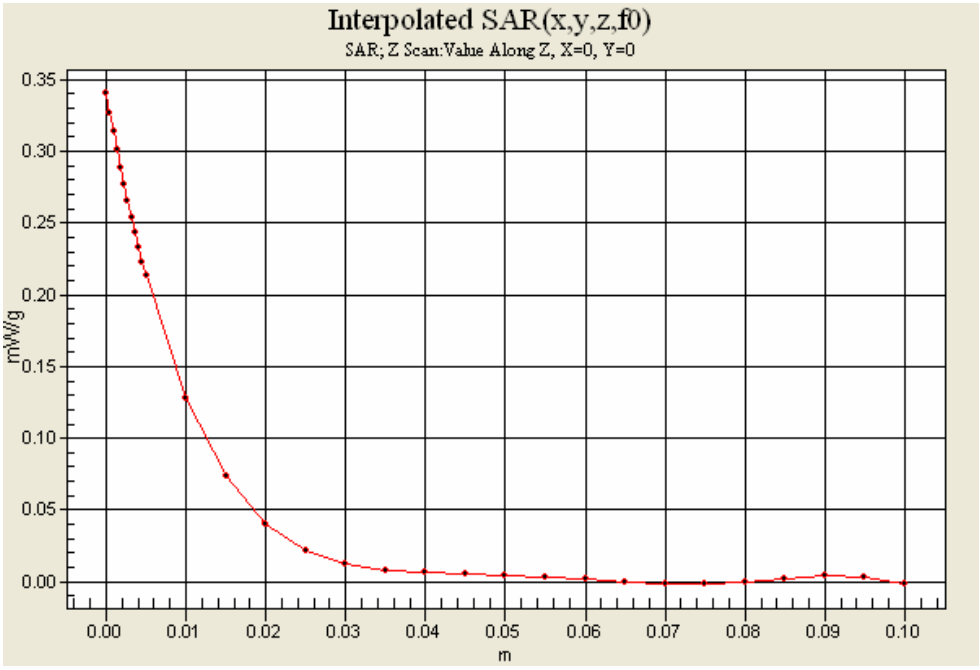
Test Date: 01/05/2007;Ambient Temp: 22.9˚C;Tissue Temp: 21.8˚C

Probe: ET3DV6 – SN1729;ConvF(5.06, 5.06, 5.06);Calibrated: 2006-01-24
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Left Head Tilt,Ch.661, Slide Down, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.463 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.8 V/m; Power Drift = -0.060 dB
Peak SAR (extrapolated) = 0.673 W/kg
SAR(1 g) = 0.374 mW/g; SAR(10 g) = 0.199 mW/g
Maximum value of SAR (measured) = 0.407 mW/g



LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: GSM 850; Frequency: 835.89 MHz;Duty Cycle: 1:1
Medium: Head 835 MHz;(σ = 0.98mho/m; ε_r = 55.94; ρ = 1000 kg/m^3)
Phantom section: Flat Section

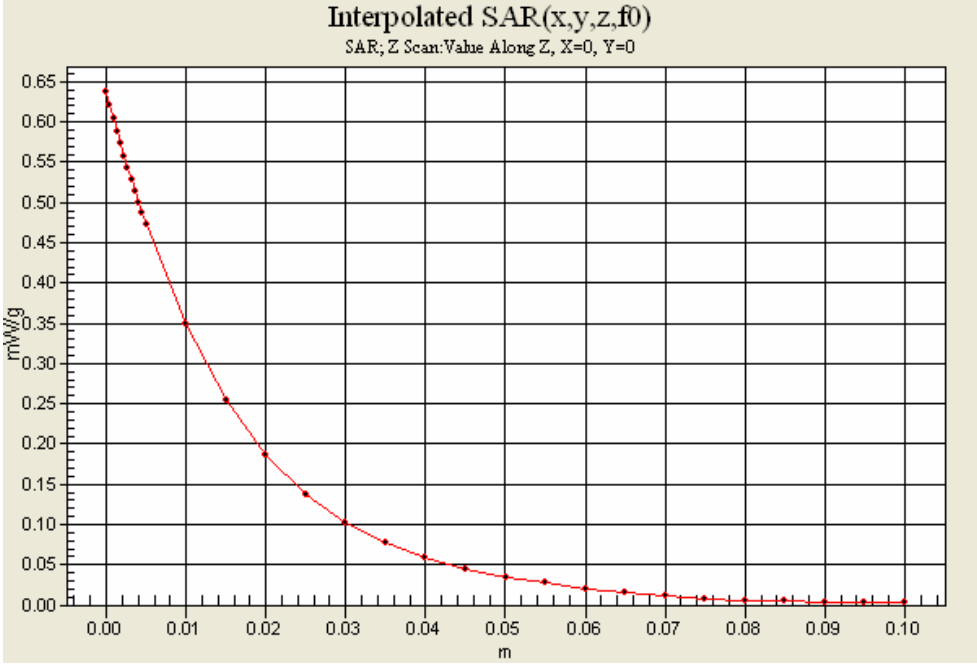
Test Date: 01/05/2007;Ambient Temp: 22.9˚C;Tissue Temp: 21.8˚C

Probe: ET3DV6 – SN1729; ConvF(6.09, 6.09, 6.09); Calibrated: 2006-01-24
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 835; Type: SAM 4.0; Serial: TP-1354
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.190, Slide Up Rear, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.712 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.8 V/m; Power Drift = -0.004 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.687 mW/g; SAR(10 g) = 0.452 mW/g
Maximum value of SAR (measured) = 0.730 mW/g



0 dB = 0.730mW/g

LG Electronics Inc.

DUT: ME600d ;Type: Dual-Band GSM Phone with Bluetooth; Serial:IMEI 004999010640000

Communication System: PCS 1900; Frequency: 1880 MHz;Duty Cycle: 1: 4.15
Medium: Head 1900 MHz;(σ = 1.58 mho/m; ε_r = 51.21; ρ = 1000 kg/m^3)
Phantom section: Flat Section

Test Date: 01/05/2007;Ambient Temp: 22.9˚C;Tissue Temp: 21.8˚C

Probe: ET3DV6 – SN1729;ConvF(4.94, 4.94, 4.94);Calibrated: 2006-01-24
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn534; Calibrated: 2006-09-18
Phantom: SAM 1900; Type: SAM 4.0; Serial: TP-1353
Measurement SW: DASY4, V4.7 Build 44; Post processing SW: SEMCAD, V1.8 Build 171

Flat Touch,Ch.661, Slide Down Rear, BT Off, Fixed Ant., Standard Battery

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.296 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.7 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 0.515 W/kg
SAR(1 g) = 0.278 mW/g; SAR(10 g) = 0.167 mW/g
Maximum value of SAR (measured) = 0.294 mW/g