

TEST REPORT

Equipment Under Test	: GSM Mobile Phone
FCC ID	: SNM-S1186
Model No.	: S1186
Applicant	: NINGBO BIRD CO.,LTD
Address of Applicant	: No.999 Dacheng East Road, Fenghua, Zhejiang, China, 315500
Date of Receipt	: 2004.11.22
Date of Test(s)	: 2004.11.23-2004.11.26
Date of Issue	: 2004.12.01

Standards:

**FCC OET Bulletin 65 supplement C,
ANSI/IEEE C95.1 , C95.3
IEEE 1528 2002**

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan E&E Services or testing done by SGS Taiwan E&E Services in connection with distribution or use of the product described in this report must be approved by SGS Taiwan E&E Services in writing.

Tested by : Dikin Yang Date : 2004.12.01

Approved by : Robert Chang Date : 2004.12.01

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1. General Information

1.1 Testing Laboratory

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 Taipei county , Taiwan , R.O.C.
 Telephone : +886-2-2299-3279
 Fax : +886-2-2298-2698
 Internet : <http://www.sgs.com.tw>

1.2 Details of Applicant

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 China, 315500
 Contact Person : Changlong Chen
 Telephone : +86-574-88934752
 E-mail : +86-574-88934754

1.3 Description of EUT(s)

EUT Type	GSM Mobile Phone	
Model	S1186	
Mode of Operation	GSM 850/1900 MHz	
FCC ID	SNM-S1186	
Modulation Mode	GMSK	
Maximum RF Conducted Power	29.48 dbm	
Duty Cycle	1/8.3(GSM)	
TX Frequency range	850MHz	1900MHz
	824.2-848.8 MHz	1850-1910 MHz
Antenna Type	Fixed	
Battery Type	3.7V Lithium-Ion	

Exposure environment	Uncontrolled exposure
Max. SAR Measured (1g)	1.03 W/kg (at GSM 1900 MHz Right-Head Cheek Channel 512)

1.4 Test Environment

Ambient temperature : 22.1° C

Tissue Simulating Liquid : 21.6° C

Relative Humidity : 60 %

1.5 Operation description

The device was controlled by using a Universal Radio Communication Tester (CMU 200). Communication between the device and the tester was established by air link.

Measurements were performed on the lowest, middle and highest channels of the operating band. The phone was set to maximum power level during all tests and at the beginning of each test the battery was fully charged.

The DASY4 system measures power drift during SAR testing by comparing e-field in the same location at the beginning and at the end of measurement.

1.6 The SAR Measurement System

A photograph of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (Speag Dasy 4 professional system). A Model ET3DV6 1760E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E_i|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

The DASY4 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronics (DAE) which performs the signal amplification, signal

multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

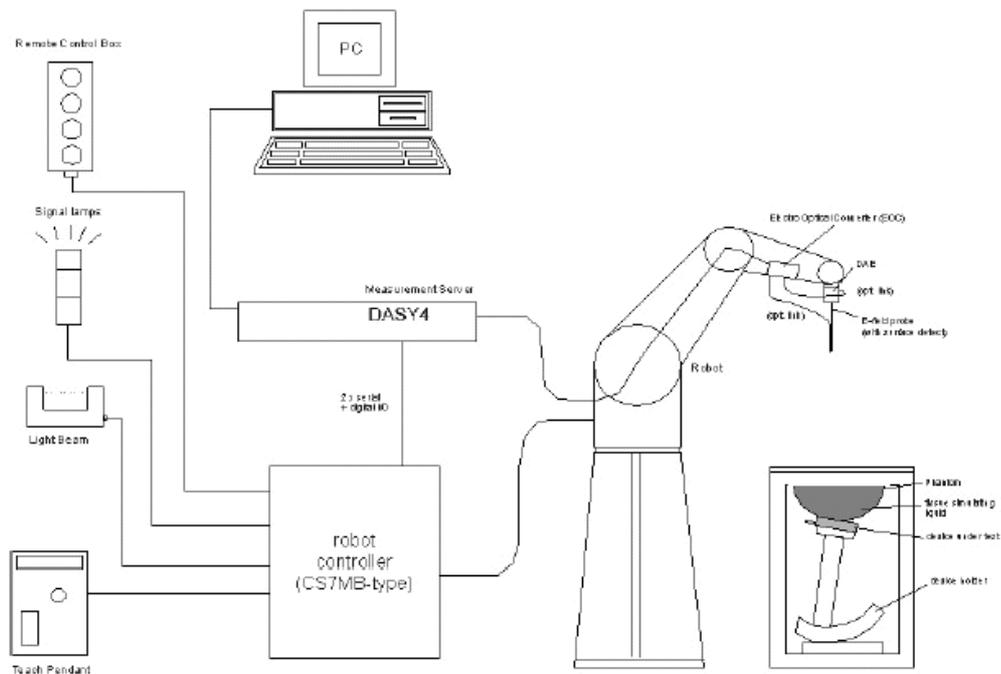


Fig. a The microwave circuit arrangement used for SAR system verification

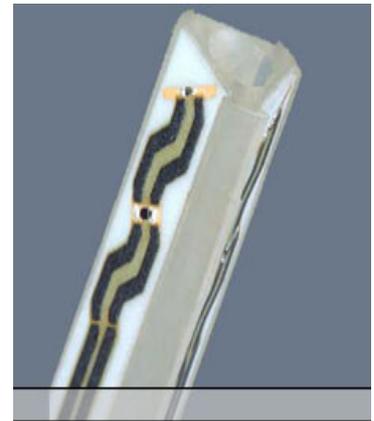
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 2000 or Windows XP.
- DASY4 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.

- Validation dipole kits allowing to validate the proper functioning of the system.

1.7 System Components

ET3DV6 E-Field Probe

Construction:	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g. glycol)
Calibration:	In air from 10 MHz to 2.5 GHz In brain simulating tissue at frequencies of 850 & 1900 MHz (accuracy $\pm 8\%$)
Frequency:	10 MHz to >6 GHz; Linearity: ± 0.2 dB (30 MHz to 3 GHz)
Directivity:	± 0.2 dB in brain tissue (rotation around probe axis) ± 0.4 dB in brain tissue (rotation normal to probe axis)
Dynamic Range:	5 μ W/g to >100 mW/g; Linearity: ± 0.2 dB
Surface. Detect:	± 0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces
Dimensions:	Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm Distance from probe tip to dipole centers: 2.7 mm
Application:	General dosimetry up to 3 GHz Compliance tests of mobile phone



ET3DV6 E-Field Probe

SAM PHANTOM V4.0C

Construction:	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-200X, CENELEC 50361 and IEC 62209. 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 manually teaching three points with the
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robot.
 Shell Thickness: 2 ± 0.2 mm
 Filling Volume: Approx. 25 liters
 Dimensions: Height: 810 mm;
 Length: 1000 mm;
 Width: 500 mm



DEVICE HOLDER

Construction In combination with the Twin SAM Phantom V4.0/V4.0C or Twin SAM, the Mounting Device (made from POM) enables the rotation of the mounted transmitter in spherical coordinates, whereby the rotation point is the ear opening. The devices can be easily and accurately positioned according to IEC, IEEE, CENELEC, FCC or other specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).



Device Holder

1.8 SAR System Verification

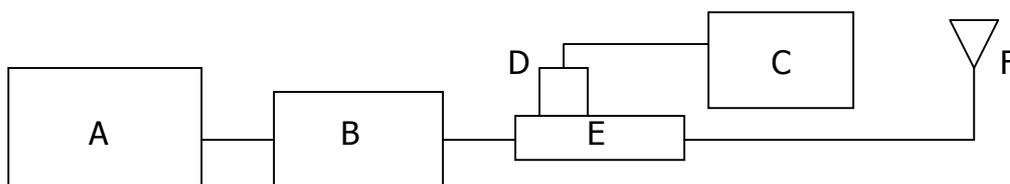
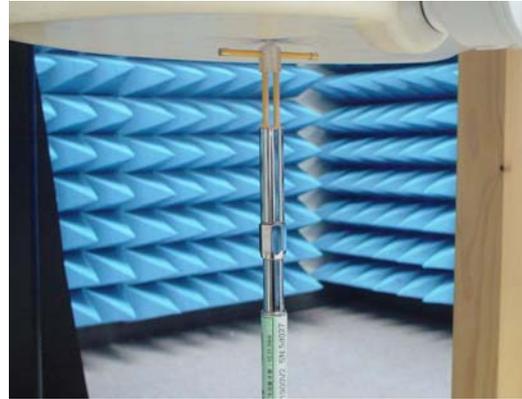


Fig.b The microwave circuit arrangement used for SAR system verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within $\pm 10\%$ from the target SAR values. These tests were done at 900 & 1900 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the ambient temperature

of the laboratory was in the range 22.1°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

- A. Agilent Model 8648D Signal Generator
- B. Mini circuits Model ZHL-42 Amplifier
- C. Agilent Model E4416A Power Meter
- D. Agilent Model 8481H Power Sensor
- E. Agilent Model 778D Dual directional coupling
- F. Reference Dipole Antenna



Photograph of the 1900MHz dipole Antenna

Validation Kit	Frequency	Target SAR 1g (250mW)	Target SAR 10g (250mW)	Measured SAR 1g	Measured SAR 10g	Measured date
DT3DV6 S/N :1760	900 MHz (Head)	2.68 m W/g	1.72 m W/g	2.58 m W/g	1.66 m W/g	2004-11-26
DT3DV6 S/N :1760	900 MHz (Body)	2.74 m W/g	1.77 m W/g	2.57 m W/g	1.68 m W/g	2004-11-25
DT3DV6 S/N :1760	1900 MHz (Head)	10.7 m W/g	5.6 m W/g	10.1 m W/g	5.21 m W/g	2004-11-23
DT3DV6 S/N :1760	1900 MHz (Body)	10.5 m W/g	5.44 m W/g	10 m W/g	5.23 m W/g	2004-11-24

Table 1. Results system validation

1.9 Tissue Simulant Fluid for the Frequency Band

F (Mhz)	Tissue type	Limits/ Measured	Dielectric Parameters		
			ρ	σ (S/m)	Simulated Tissue Temp($^{\circ}$ C)
900	Head	Measured, 2004.11.26	40.3	0.924	21.7
		Recommended Limits	39.4-43.6	0.86-1.02	20-24
	Body	Measured, 2004.11.25	53.2	0.994	21.7
		Recommended Limits	52.3-58	0.92-1.1	20-24
1900	Head	Measured, 2004.11.23	39.5	1.44	21.7
		Recommended Limits	38-42	1.33-1.47	20-24
	Body	Measured, 2004.11.24	51.4	1.55	21.7
		Recommended Limits	50.6-56	1.44-1.6	20-24

Table 2. Dielectric Parameters of Tissue Simulant Fluid

The dielectric properties for this body-simulant fluid were measured by using the HP Model 85070D Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with HP 8753D Network Analyzer (30 KHz-6000 MHz) by using a procedure detailed in Section V.

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the ear reference point of the phantom was 15cm±5mm during all tests. (Fig .2 & Fig.3)

The composition of the brain tissue simulating liquid for 900 & 1900 MHz is:

Ingredient	900Mhz(Head)	900Mhz(Body)	1900Mhz(Head)	1900Mhz(Body)
DGMBE	X	X	444.52 g	300.67
Water	532.98 g	632.68	552.42 g	716.56
Sale	18.3 g	11.72	3.06 g	4.0
Preventol D-7	2.4 g	1.2	X	X
Cellulose	3.2 g	X	X	X
Sugar	766.0 g	600 g	X	X
Total amount	1 L (1.0kg)	1 L (1.0kg)	1 L (1.0kg)	1 L (1.0kg)

Table 3. Recipes for 900 &1900 MHz tissue simulating liquid

1.10 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. 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. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6

GHz should be made at a minimum distance of 5 cm from the radiating source.

(1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube). Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

(2) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.(Table .4)

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

Table .4 RF exposure limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

2.Summary of Results

GSM 850MHz

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g/10g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	28.86 dbm	0.34/0.236	22.1	21.6
	190	836.6	28.91 dbm	0.423/0.295	22.1	21.6
	251	848.8	28.95 dbm	0.514/0.36	22.1	21.6
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g/10g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	28.86 dbm	0.359/0.249	22.1	21.6
	190	836.6	28.91 dbm	0.434/0.3	22.1	21.6
	251	848.8	28.95 dbm	0.51/0.355	22.1	21.6
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g/10g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	28.86 dbm	0.108/0.081	22.1	21.6
	190	836.6	28.91 dbm	0.127/0.095	22.1	21.6
	251	848.8	28.95 dbm	0.148/0.110	22.1	21.6
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g/10g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	28.86 dbm	0.112/0.081	22.1	21.6
	190	836.6	28.91 dbm	0.141/0.101	22.1	21.6
	251	848.8	28.95 dbm	0.171/0.123	22.1	21.6
Body Worn for Headset						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g/10g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	28.86 dbm	0.193/0.136	22.1	21.6
	190	836.6	28.91 dbm	0.196/0.138	22.1	21.6
	251	848.8	28.95 dbm	0.199/0.140	22.1	21.6

Note:

SAR measurement results for the Mobile Phone at maximum output power.

GSM 1900MHz

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g/10g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.07 dbm	1.03/0.567	22.1	21.7
	661	1880	29.10 dbm	1.01/0.552	22.1	21.7
	810	1909.8	29.48 dbm	0.988/0.538	22.1	21.7
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g/10g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.07 dbm	0.759/0.443	22.1	21.7
	661	1880	29.10 dbm	0.693/0.410	22.1	21.7
	810	1909.8	29.48 dbm	0.651/0.382	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g/10g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.07 dbm	0.478/0.26	22.1	21.7
	661	1880	29.10 dbm	0.414/0.226	22.1	21.7
	810	1909.8	29.48 dbm	0.34/0.185	22.1	21.7
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g/10g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.07 dbm	0.381/0.206	22.1	21.7
	661	1880	29.10 dbm	0.342/0.184	22.1	21.7
	810	1909.8	29.48 dbm	0.307/0.164	22.1	21.7
Body Worn for Headset						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g/10g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.07 dbm	0.326/0.2	22.1	21.7
	661	1880	29.10 dbm	0.326/0.199	22.1	21.7
	810	1909.8	29.48 dbm	0.304/0.186	22.1	21.7

Note:

SAR measurement results for the Mobile Phone at maximum output power.

3. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	ET3DV6	1760	Feb.17.2004
Schmid & Partner Engineering AG	System	D1900V2	5d027	Feb.17.2004
Schmid & Partner Engineering AG	Validation Dipole	D900V2	178	Feb.10.2004
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE3	547	Feb.10.2004
Schmid & Partner Engineering AG	Software	DASY 4 V4.4c Build 3	---	Calibration isn't necessary
Schmid & Partner Engineering AG	Phantom	SAM	---	Calibration isn't necessary
Agilent	Network Analyzer	8753D	3410A05547	Jun.03.2004
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration isn't necessary
Agilent	Dual-directional coupler	777D 778D	50114 50313	Jul.27.2004 Jul.27.2004
Agilent	RF Signal Generator	8648D	3847M00432	Feb.09.2004
Agilent	Power Sensor	8481H	MY41091361	May.24.2004
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	102189	Nov.12.2004

4. Measurements

Right-Head Cheek CH128

Date/Time: 11/26/04 11:35:39

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.877$ mho/m; $\epsilon_r = 41.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.34, 6.34, 6.34); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Right-Cheek/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.374 mW/g

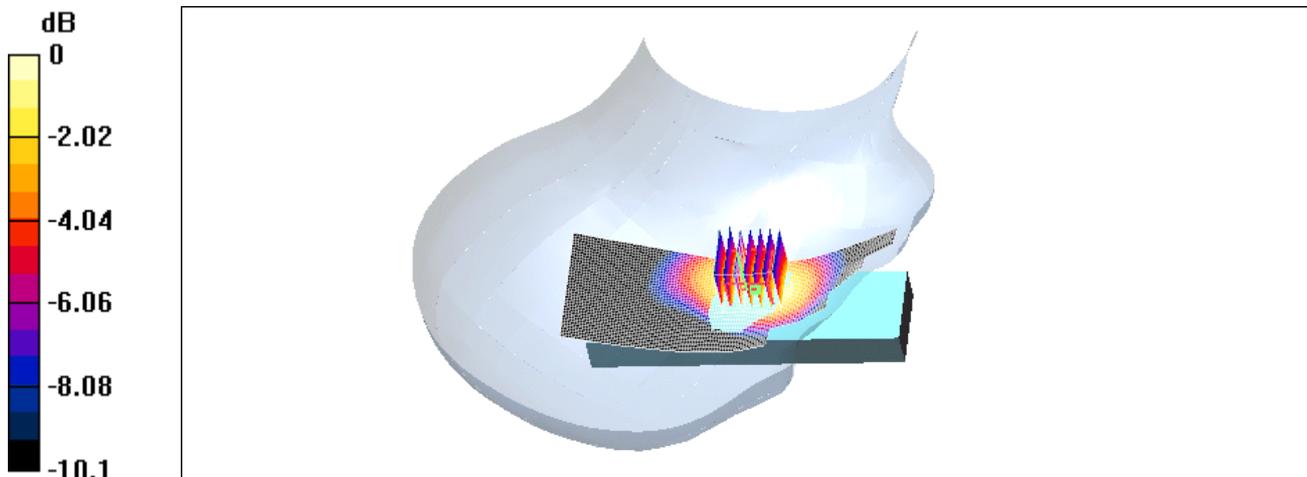
Right-Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.15 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.455 W/kg

SAR(1 g) = 0.340 mW/g; SAR(10 g) = 0.236 mW/g

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



0 dB = 0.366mW/g

Right-Head Cheek CH190

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.34, 6.34, 6.34); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Right-Cheek/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.465 mW/g

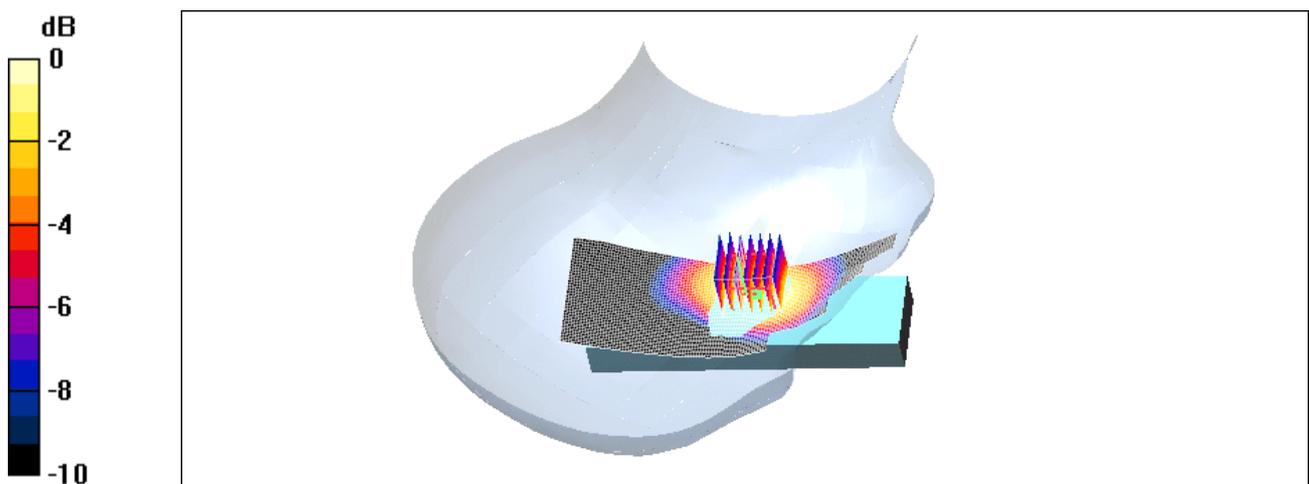
Right-Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.56 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 0.574 W/kg

SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.295 mW/g

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



0 dB = 0.454mW/g

Right-Head Cheek CH251

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.34, 6.34, 6.34); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Right-Cheek/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.566 mW/g

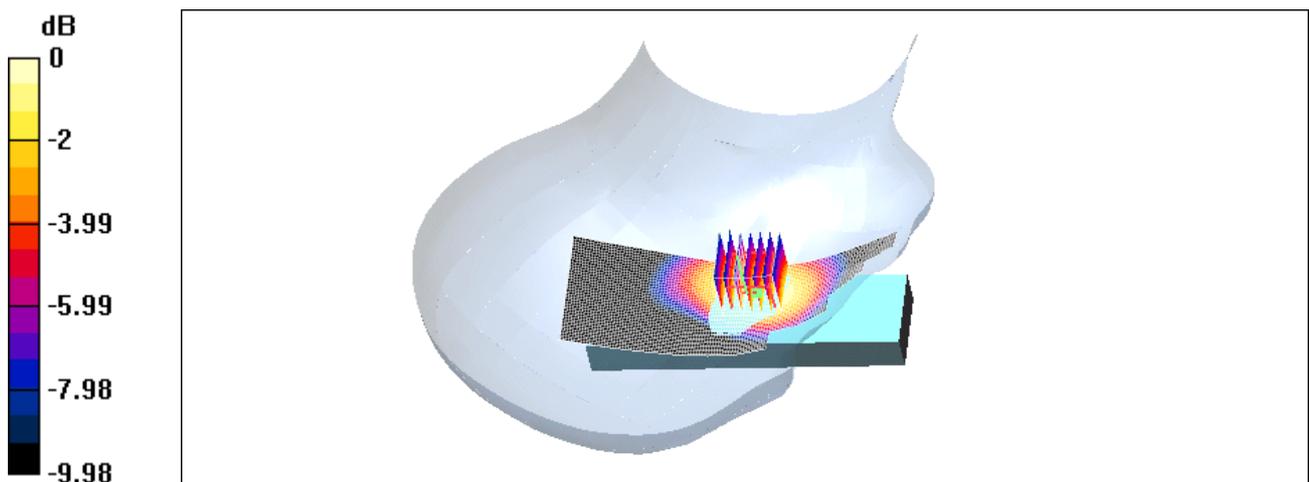
Right-Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.27 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.687 W/kg

SAR(1 g) = 0.514 mW/g; SAR(10 g) = 0.360 mW/g

Maximum value of SAR (measured) = 0.554 mW/g



0 dB = 0.554mW/g

Left-Head Cheek CH128

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.877$ mho/m; $\epsilon_r = 41.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.34, 6.34, 6.34); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Left-Cheek/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.385 mW/g

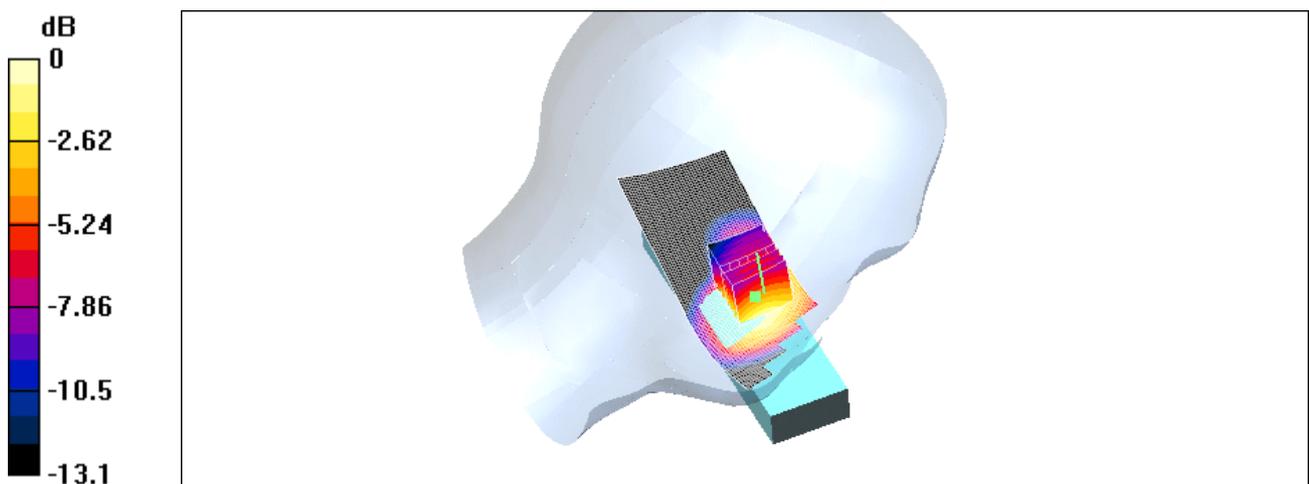
Left-Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.79 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.471 W/kg

SAR(1 g) = 0.359 mW/g; SAR(10 g) = 0.249 mW/g

Maximum value of SAR (measured) = 0.375 mW/g



0 dB = 0.375mW/g

Left-Head Cheek CH190

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.34, 6.34, 6.34); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Left-Cheek/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.462 mW/g

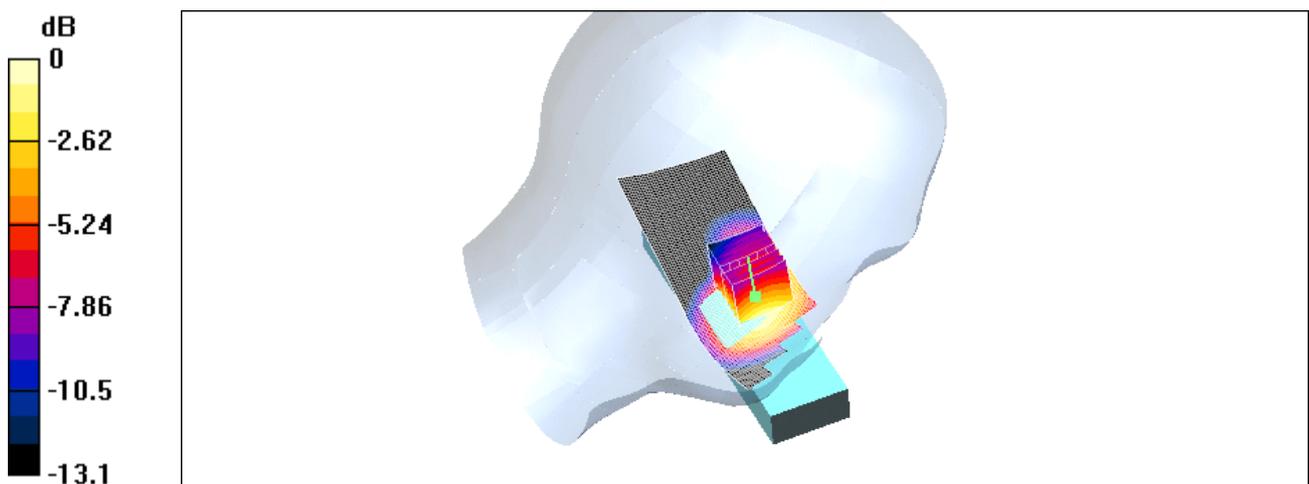
Left-Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.11 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 0.572 W/kg

SAR(1 g) = 0.434 mW/g; SAR(10 g) = 0.300 mW/g

Maximum value of SAR (measured) = 0.459 mW/g



0 dB = 0.459mW/g

Left-Head Cheek CH251

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.34, 6.34, 6.34); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Left-Cheek/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

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

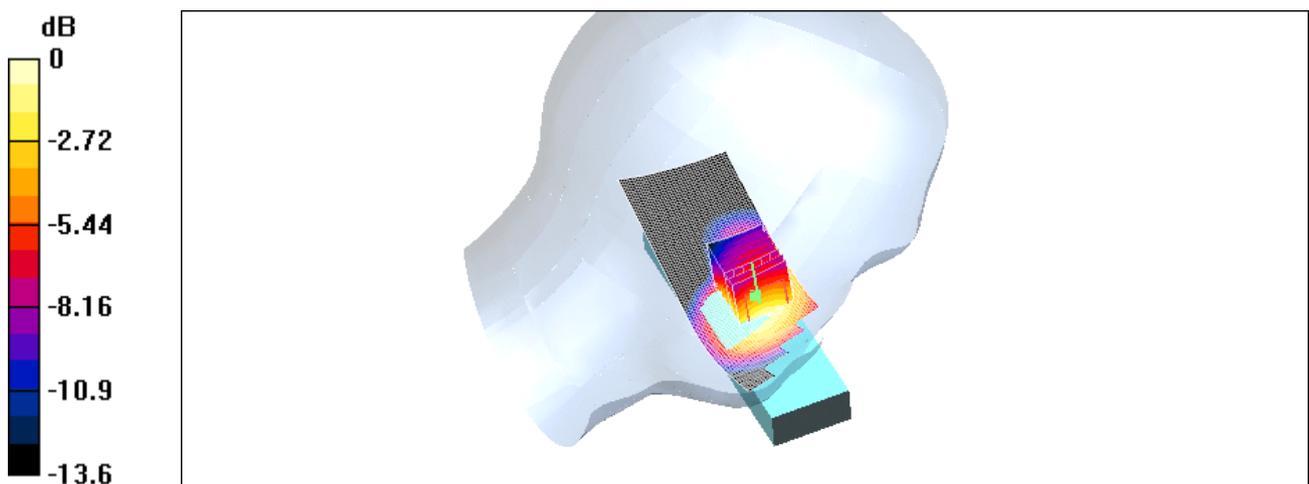
Left-Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.54 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 0.665 W/kg

SAR(1 g) = 0.510 mW/g; SAR(10 g) = 0.355 mW/g

Maximum value of SAR (measured) = 0.541 mW/g



0 dB = 0.541mW/g

Right-Head Tilt CH128

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.877$ mho/m; $\epsilon_r = 41.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.34, 6.34, 6.34); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Right-Tilt/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.115 mW/g

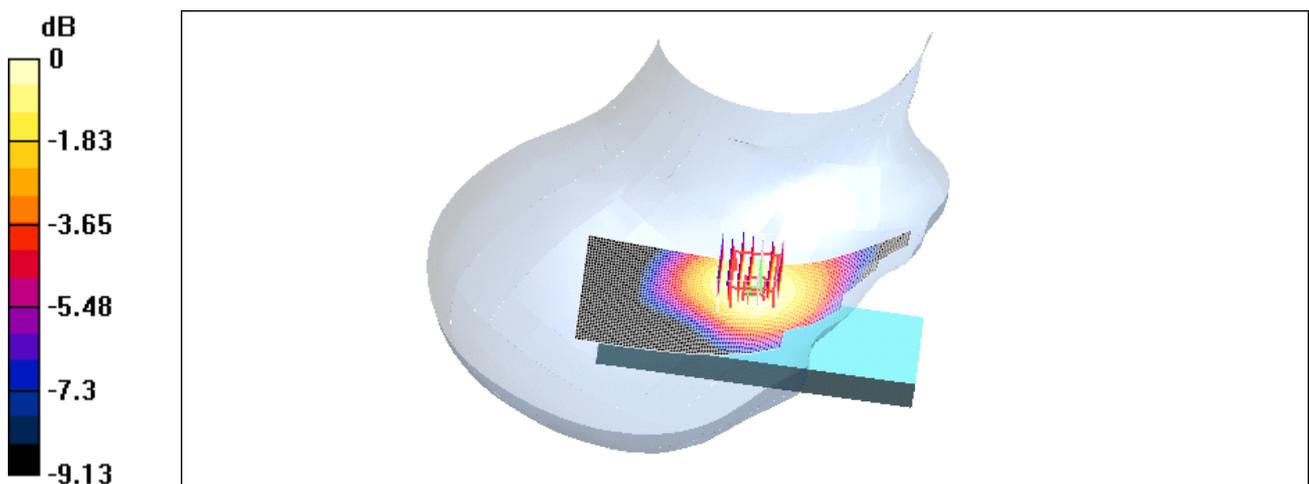
Right-Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.55 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 0.136 W/kg

SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.081 mW/g

Maximum value of SAR (measured) = 0.115 mW/g



0 dB = 0.115mW/g

Right-Head Tilt CH190

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.34, 6.34, 6.34); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Right-Tilt/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.135 mW/g

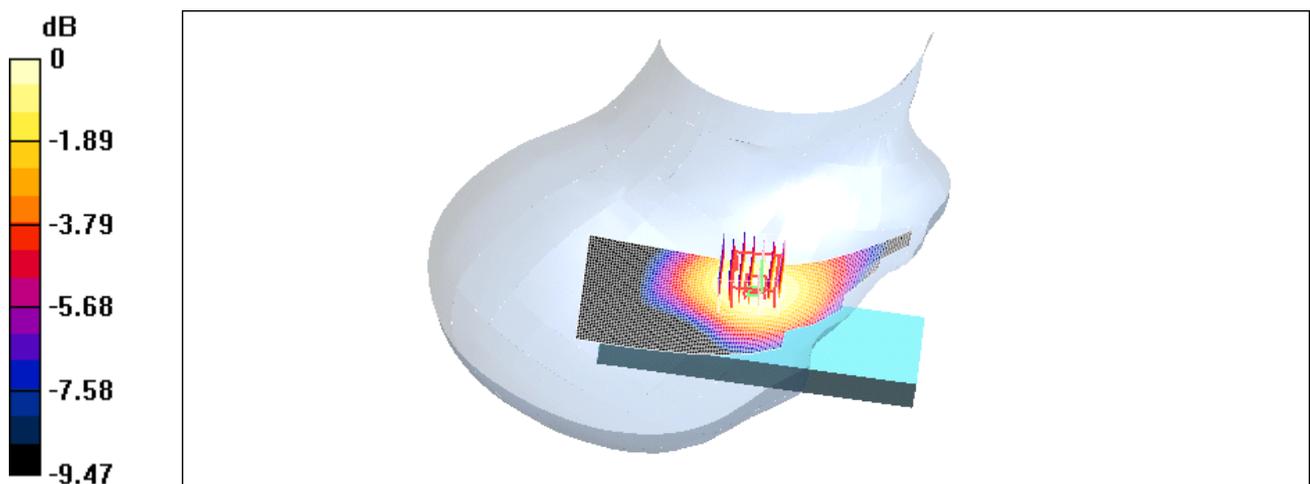
Right-Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.63 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 0.162 W/kg

SAR(1 g) = 0.127 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.135 mW/g



Right-Head Tilt CH251

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.34, 6.34, 6.34); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Right-Tilt/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.157 mW/g

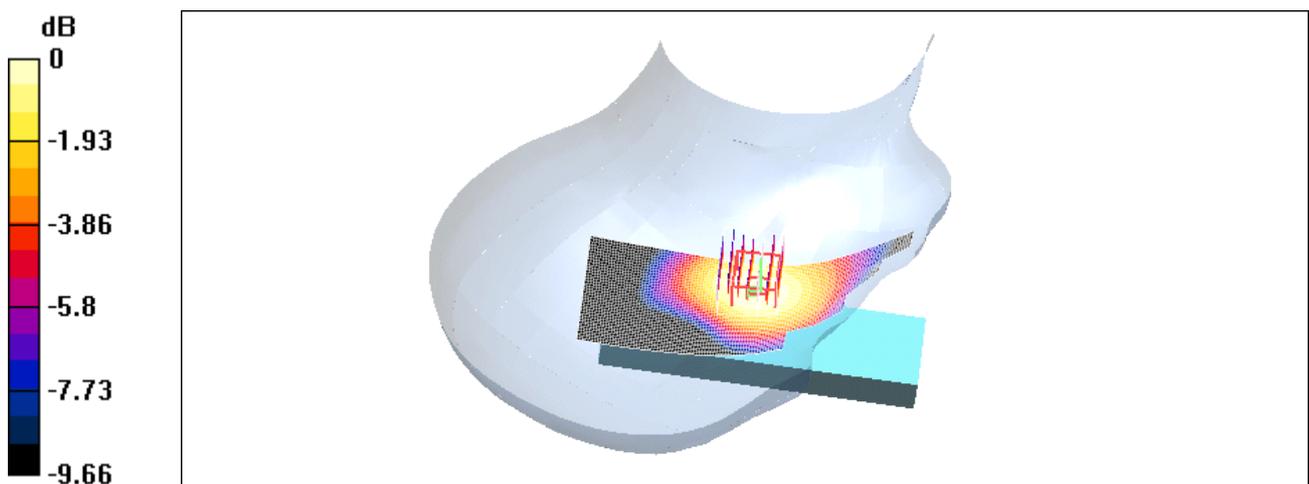
Right-Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.96 V/m; Power Drift = 0.2 dB

Peak SAR (extrapolated) = 0.186 W/kg

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.155 mW/g



Left-Head Tilt CH128

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.877$ mho/m; $\epsilon_r = 41.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.34, 6.34, 6.34); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Left-Tilt/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

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

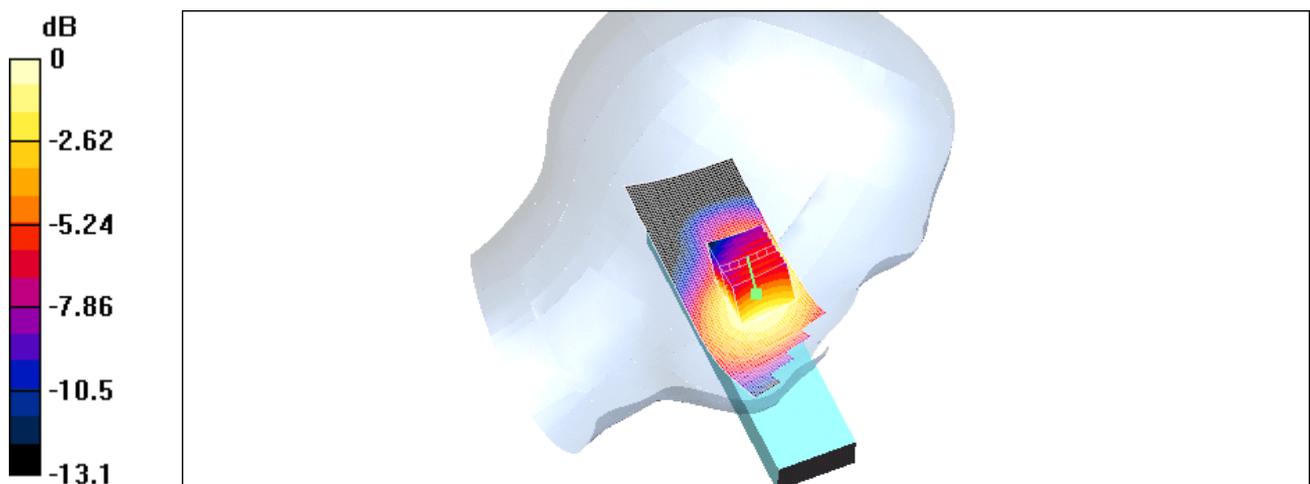
Left-Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.2 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.141 W/kg

SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.081 mW/g

Maximum value of SAR (measured) = 0.117 mW/g



0 dB = 0.117mW/g

Left -Head Tilt CH190

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.34, 6.34, 6.34); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Left-Tilt/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

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

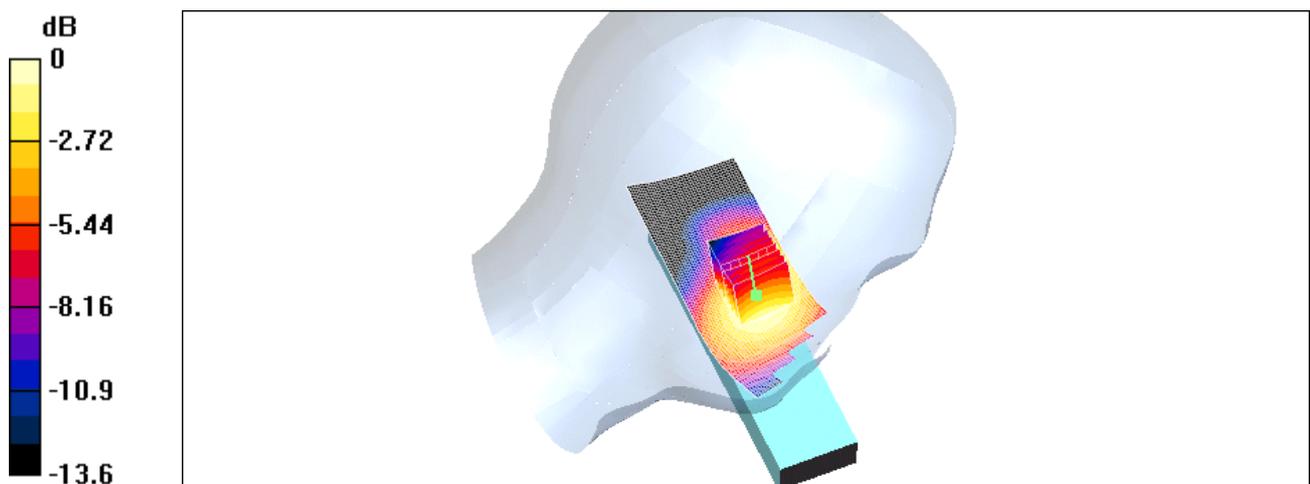
Left-Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.55 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.179 W/kg

SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.148 mW/g



0 dB = 0.148mW/g

Left -Head Tilt CH251

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.34, 6.34, 6.34); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Left-Tilt/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.180 mW/g

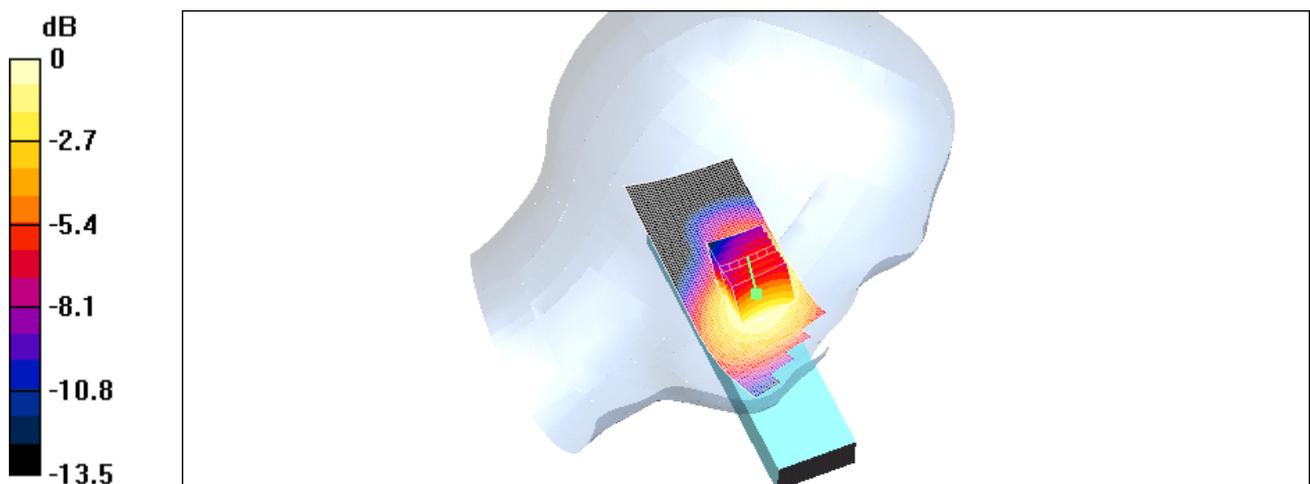
Left-Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.87 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.216 W/kg

SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.123 mW/g

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



0 dB = 0.178mW/g

Body-Worn CH128

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Muscle 900 MHz Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.923$ mho/m;

$\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.04, 6.04, 6.04); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Body/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.205 mW/g

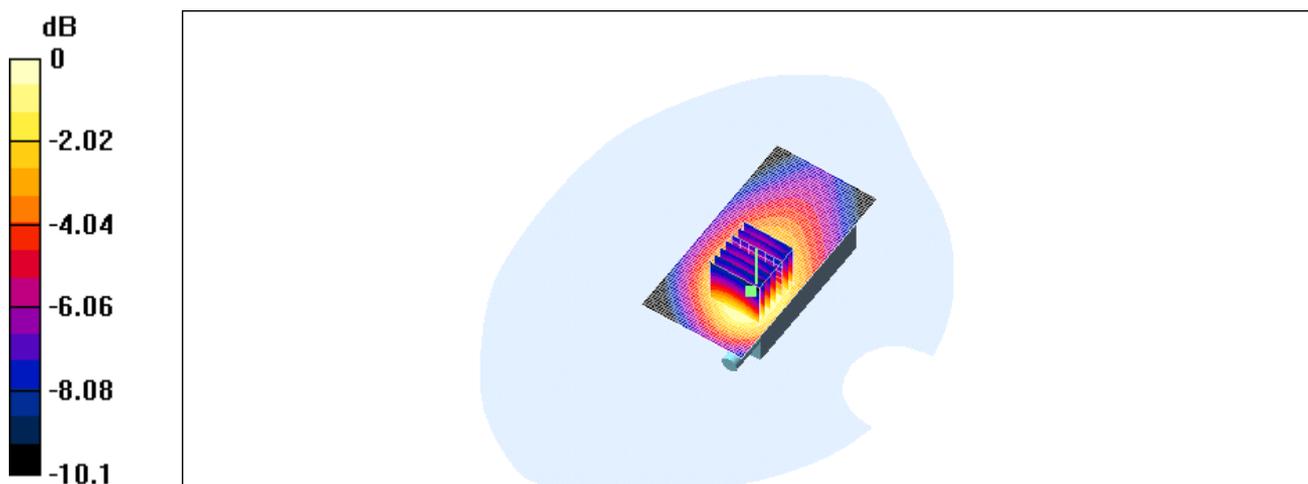
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.8 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.193 mW/g; SAR(10 g) = 0.136 mW/g

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



0 dB = 0.206mW/g

Body-Worn CH190

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Muscle 900 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.933$ mho/m;

$\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.04, 6.04, 6.04); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Body/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.207 mW/g

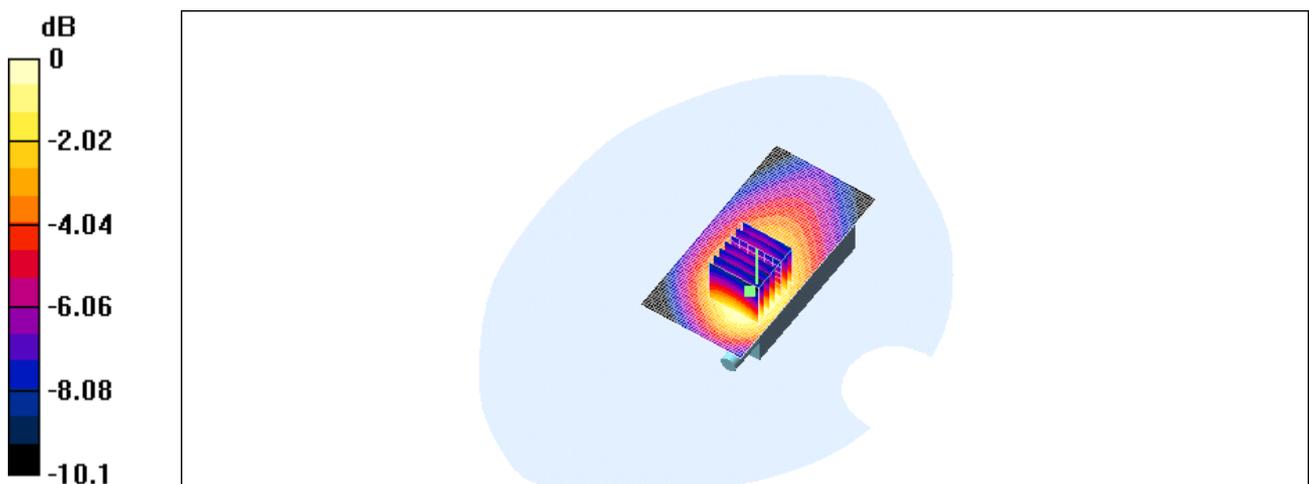
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.196 mW/g; SAR(10 g) = 0.138 mW/g

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



0 dB = 0.208mW/g

Body-Worn CH251

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 850MHZ

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Muscle 900 MHz Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.946$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(6.04, 6.04, 6.04); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Body/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.209 mW/g

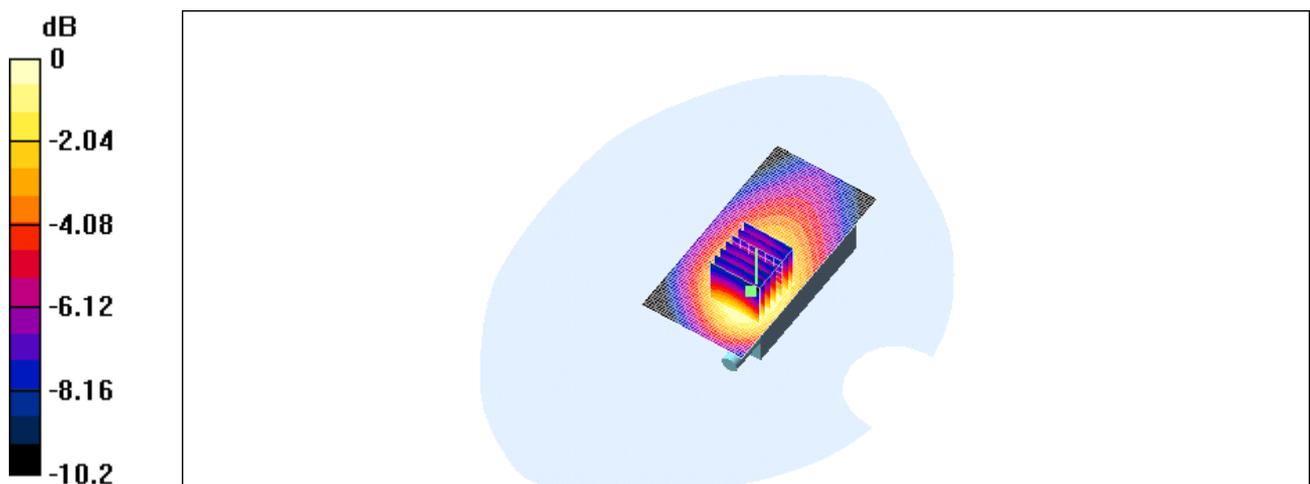
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.8 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.140 mW/g

Maximum value of SAR (measured) = 0.211 mW/g



0 dB = 0.211mW/g

Right-Head Cheek CH512

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 1900MHZ

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1900MHz Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(5.13, 5.13, 5.13); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Right-Cheek/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

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

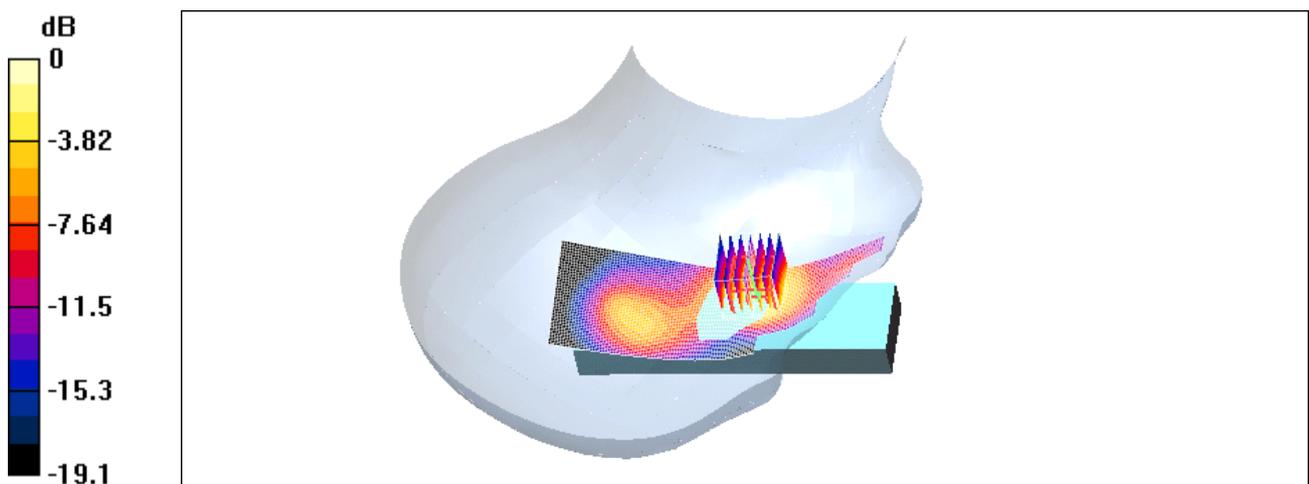
Right-Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.2 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.567 mW/g

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



Right-Head Cheek CH661

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 1900MHZ

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900MHz Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(5.13, 5.13, 5.13); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Right-Cheek/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

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

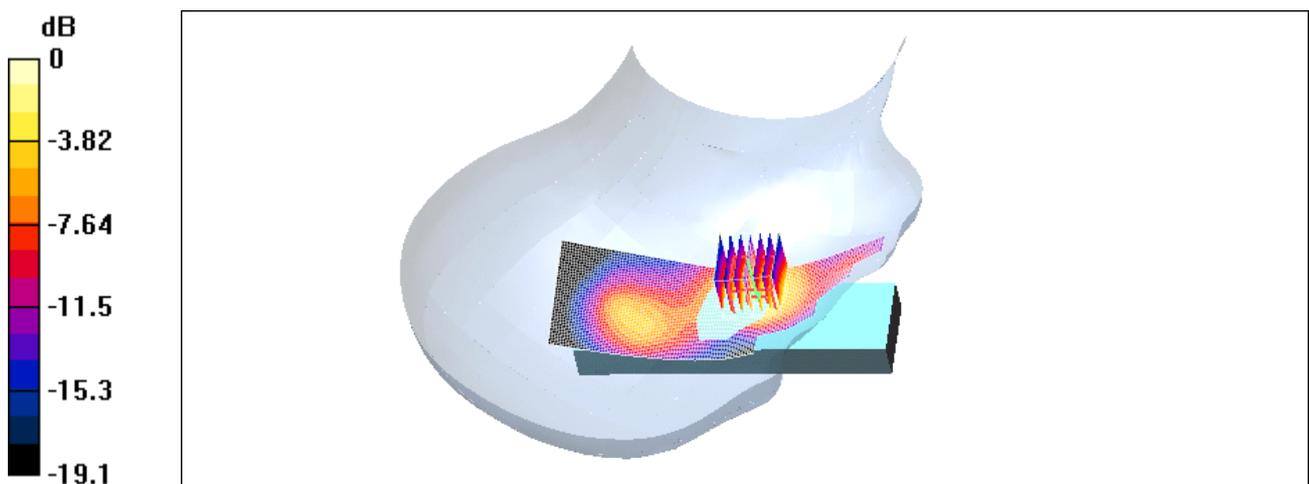
Right-Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.9 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.552 mW/g

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



0 dB = 1.11mW/g

Right-Head Cheek CH810

DUT: GSM MOBILE PHONE; Type: Flip; IMEI: 3539910006132201

Program: GSM 1900MHZ

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1900MHz Medium parameters used (interpolated): $f = 1909.8$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1760; ConvF(5.1, 5.1, 5.1); Calibrated: 2004/2/17
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn547; Calibrated: 2004/2/10
- Phantom: SAM 12; Type: SAM 4.0; Serial: TP:1150
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Right-Cheek/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.1 mW/g

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

Reference Value = 13.9 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.988 mW/g; SAR(10 g) = 0.538 mW/g

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

