SAR TEST REPORT

Product Name	EDA
Model Number	MC3574
FCC ID	H9PMC3574
Applicant	Symbol Technologies, Inc.
Address of Applicant	One Symbol Plaza, Holtsville, NY 11742,U.S.A
Date of Receipt	2007.02.14
Date of Test(s)	2007.02.14~2007.02.15
Date of Issue	2007.02.26

Standards:

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

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 EC 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 EC Services in writing.

Tested by : **LEO HSU** Leo Hsu **Date** : **2007.02.15**

Approved by : **DIKIN YANG** Dikin Yang **Date** : **2007.02.26**

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GSM 1900MHz

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1. General Information

1.1 Testing Laboratory

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Website	http://www.tw.sgs.com/

1.2 Details of Applicant

Name	Symbol Technologies, Inc.
Address	One Symbol Plaza, Holtsville, NY 11742,U.S.A
Country	U.S.A
Telephone	631-738-5941
Fax	631-738-5520
Contact Person	Alan Mears
E-mail	alan.mears@motorola.com

1.3 Description of EUT

Product Name	EDA				
Model number	MC3574				
Power Supply	3.7Vdc from rechargeable lithium battery 3.7Vdc from power adapter 3.7Vdc from host equipment				
	Note: During engineering evaluation testing it was determined that there was no change in any of the emission characteristics using the three power supply options, so only data utilizing the battery will be included in this report				
Mode of Operation	GSM/GPRS/EDGE, Band 850/900/1800/1900 with Bluetooth and Wi-Fi function				
Duty Cycle	GSM	GPRS	WLAN (802.11b)	WLAN (802.11g)	Bluetooth
	1/8	1/2	1	1	n/a

Modulation Mode	GSM	EDGE	WLAN (802.11b)	WLAN (802.11g)	Bluetooth
	GMSK	8PSK	DBPSK	BPSK	GFSK
Maximum RF Conducted Power(Peak)	EGSM 850	GSM 1900	WLAN (802.11b)	WLAN (802.11g)	Bluetooth
	31.5 dBm	29.6 dBm	15.76 dBm	15.02 dBm	3 dBm
TX Frequency range (MHz)	EGSM 850	GSM 1900	WLAN (802.11b)	WLAN (802.11g)	Bluetooth
	824-848	1850-1910	2412-2462	2412-2462	2402-2480
Channel Number (ARFCN)	EGSM 850	GSM 1900	WLAN (802.11b)	WLAN (802.11g)	Bluetooth
	128-251	512-810	1-11	1-11	0-78
Antenna Gain	-1.22 ~ 1.29 (dBm)				
Antenna Type	Intenna (Built-in)				
Battery Type	Li-ion Battery 3.7V 1370mAh				
Exposure environment	Uncontrolled exposure				
IMEI	354438010004244				
Max. SAR Measurement value (1 g)	0.453 W/kg (At GSM 850, Channel 128)				

Note:

1. The EUT has Dual Transfer Mode capability (GSM & WLAN VOIP) for use at the ear. However the peak power emitted in the VOIP mode is less than 50mw(17dBm), so testing is not necessary.

Channel Frequency Under Test And Its Conducted Output Power (Peak)	802.11b	802.11g
	15.64 dBm (2412MHz)	14.59 dBm (2412MHz)
	15.62 dBm (2437MHz)	14.55 dBm (2437MHz)
	15.76 dBm (2462MHz)	15.02 dBm (2462MHz)

2. EGPRS mode was not measured because maximum averaged output power is more than 3 dB lower in EGPRS mode than in GPRS mode.
   (In EDGE mode, its power class level is E2 and output power less than 24dBm)
3. Since the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tile/Ear) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional.

1.4 Test Environment

Ambient Temperature: 22.1° C
Tissue Simulating Liquid: 21.6° C
Relative Humidity: 62 %

1.5 Operation description

1. The EUT is controlled by using a Wireless Communications Test Set (Agilent 8960), and the communication between the EUT and the tester is established by air link. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
2. Testing SAR with dominant transmitter ON and co-located Bluetooth transmitter OFF to find the highest head-position SAR measurement value.
3. For highest SAR configuration in this band repeated with SD-Card
4. Testing SAR with dominant transmitter and co-located Bluetooth transmitter both ON for head-position worst case configuration.
5. Testing SAR with dominant transmitter and co-located Wi-Fi (b+g) transmitter both ON for head-position worst case configuration.
6. Testing body-worn SAR with Bluetooth transmitter OFF by separating 1.5cm between the back of the EUT and the flat phantom in GPRS mode.
7. For highest SAR configuration in this band repeated with SD-Card.
8. Testing body-worn SAR with Bluetooth transmitter ON in GPRS mode at the body-worn worst case configuration.
9. Testing body-worn SAR with Wi-Fi (b+g) transmitter ON in GPRS mode at the body-worn worst case configuration.
10. During the SAR testing, the DASY4 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing

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 EX3DV4 3578-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= $\sigma (|Ei|^2)/ \rho$ 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:

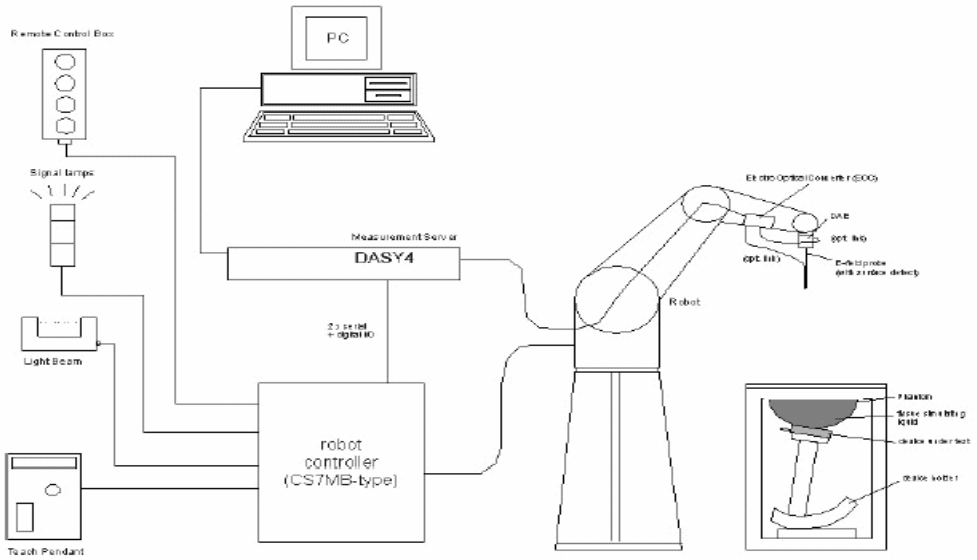


Fig. a The microwave circuit arrangement used for SAR system verification

- 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.
- 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 hand-held 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

EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 900 and HSL 1900 Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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 robot.	
Shell Thickness:	2 ± 0.2 mm	
Filling Volume:	Approx. 25 liters	
Dimensions:	Height: 251 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

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 +/- 10% from the target SAR values. These tests were done at 850&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 62% 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.

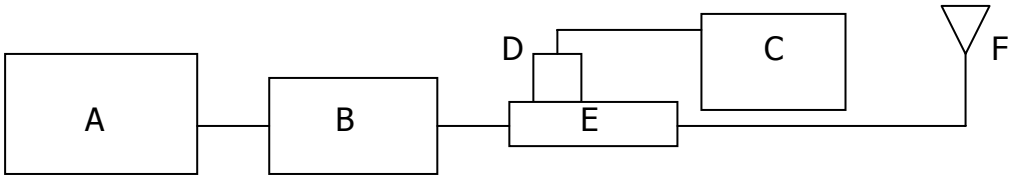
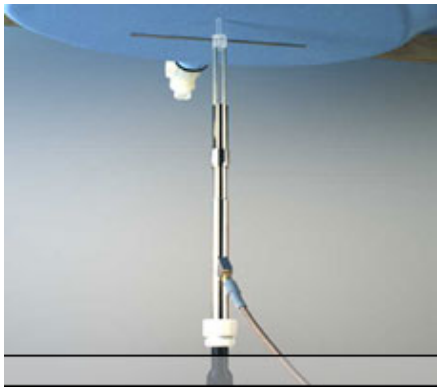


Fig.b The microwave circuit arrangement used for SAR system verification

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 dipole Antenna

Validation Kit	Frequency (Hz)	Target SAR(1g) (Pin=250mW)	Target SAR(10g) (Pin=250mW)	Measured SAR(1g)	Measured SAR(10g)	Measured Date
D900V2 S/N: 168	900 MHz (Head)	2.67 m W/g	1.71 m W/g	2.78 m W/g	1.77 m W/g	2007-02-14
	900 MHz (Body)	2.68 m W/g	1.76 m W/g	2.65 m W/g	1.72 m W/g	2007-02-15
D1900V2 S/N: 5d027	1900 MHz (Head)	9.97 m W/g	5.25 m W/g	10.4 m W/g	5.38 m W/g	2007-02-15
	1900 MHz (Body)	10.3 m W/g	5.5 m W/g	9.53 m W/g	5.01 m W/g	2007-02-15

Table 1. Results system validation

1.9 Tissue Simulant Fluid for the Frequency Band

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 measurement. The depth of the tissue simulant in the ear reference point of the phantom was 15cm±5mm during all tests. (Fig .2)

Frequency (MHz)	Tissue type	Measurement date/ Limits	Dielectric Parameters		
			ρ	Σ (S/m)	Simulated Tissue Temperature(° C)
900	Head	Measured, 2007.02.14	39.4	0.935	21.7
		Recommended Limits	39.2-43.8	0.86-1.06	20-24
	Body	Measured, 2007.02.15	55.6	1.01	21.6
		Recommended Limits	52.1-58.1	0.92-1.12	20-24
1900	Head	Measured, 2007.02.15	38.5	1.38	21.6
		Recommended Limits	38-42.1	1.33-1.47	20-24
	Body	Measured, 2007.02.15	53.7	1.58	21.6
		Recommended Limits	50.6-56.2	1.44-1.60	20-24

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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 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 Radio frequency 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 850 MHZ

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	190	836.6	31.2dbm	0.305	22	21.6
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	31.5dbm	0.207	22	21.6
	190	836.6	31.2dbm	0.341	22	21.6
	251	848.8	30.8dbm	0.403	22	21.6
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850MHz	190	836.6	31.2dbm	0.239	22	21.6
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850MHz	190	836.6	31.2dbm	0.211	22	21.6
Left Head (Cheek Position)-With Micro-SD Memory Card						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850MHz	251	848.8	30.8dbm	0.396	22	21.6
Left Head (Cheek Position)-With Bluetooth-Active						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850MHz	251	848.8	30.8dbm	0.398	22	21.6
Left Head (Cheek Position)-With Wi-Fi -Active for 802.11B highest output power channel)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850MHz	251	848.8	30.8dbm	0.408	22	21.6
Left Head (Cheek Position)-With Wi-Fi -Active for 802.11G highest output power channel)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850MHz	251	848.8	30.8dbm	0.392	22	21.6
Body Worn-EUT back to phantom (Testing in GPRS MODE)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	31.5dbm	0.453	22	21.6

	190	836.6	31.2dbm	0.402	22	21.6
	251	848.8	30.8dbm	0.394	22	21.6
Body Worn-EUT front to phantom (Testing in GPRS MODE)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	31.5dbm	0.309	22	21.6
Body Worn-EUT back to phantom (Testing in GPRS MODE) -With Memory Card						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	31.5dbm	0.433	22	21.6
Body Worn-EUT back to phantom (Testing in GPRS MODE) -With Bluetooth Active						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/g) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	31.5dbm	0.435	22	21.6
Body Worn-EUT back to phantom (Testing in GPRS MODE) -With Wi-Fi -Active for 802.11B highest output power channel)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/g) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	31.5dbm	0.445	22	21.6
Body Worn-EUT back to phantom (Testing in GPRS MODE) -With Wi-Fi -Active for 802.11G highest output power channel)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/g) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	31.5dbm	0.437	22	21.6

GSM 1900 MHZ

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.6dbm	0.112	22.1	21.6
	661	1880	29.2dbm	0.143	22.1	21.6
	810	1909.8	28.3dbm	0.197	22.1	21.6
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	29.2dbm	0.128	22	21.6
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	29.2dbm	0.123	22	21.6
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	29.2dbm	0.106	22	21.6
Body Worn-EUT back to phantom (Testing in GPRS MODE)						
Frequency	Channel	MHz	Conducted Output Power(Peak)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.6dbm	0.129	22	21.6
	661	1880	29.2dbm	0.160	22	21.6
	810	1909.8	28.3dbm	0.262	22	21.6

3. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	EX3DV4	3578	Mar.20.2006
Schmid & Partner Engineering AG	900/1900 MHz System Validation Dipole	D900V2 D1900V2	168 5d027	Mar.01.2006 Mar.21.2006
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	679	Mar.21.2006
Schmid & Partner Engineering AG	Software	DASY 4 V4.7 Build 53	N/A	Calibration isn't necessary
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration isn't necessary
Agilent	Network Analyzer	8753D	3410A05547	Nov.16.2006
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration isn't necessary
Agilent	Dual-directional coupler	778D	50313	Sep.01.2006
Agilent	RF Signal Generator	8648D	3847M00432	May.04.2006
Agilent	Power Sensor	8481H	MY41091361	May.27.2006
Agilent	8960 Series 10 Wireless Communication Tester	8960	GB44051912	Nov.28.2006

4.Measurements

REC CH190

Date/Time: 2007/2/14 23:32:49

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 850 MHz Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.918 mho/m; ε_r = 43.3; ρ = 1000 kg/m^3
Phantom section: Right Section

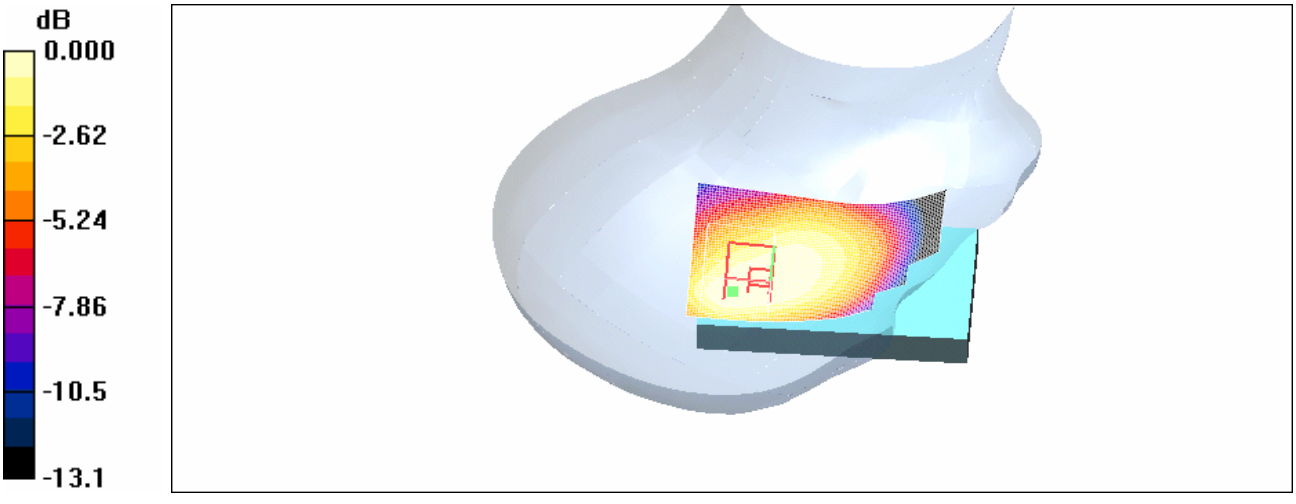
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.38, 8.38, 8.38); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

RE_Cheek/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.341 mW/g

RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.7 V/m; Power Drift = -0.063 dB
Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.305 mW/g; SAR(10 g) = 0.212 mW/g
Maximum value of SAR (measured) = 0.324 mW/g



0 dB = 0.324mW/g

LEC CH128

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: Head 850 MHz Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.904 mho/m; ε_r = 43.5; ρ = 1000 kg/m^3
Phantom section: Left Section

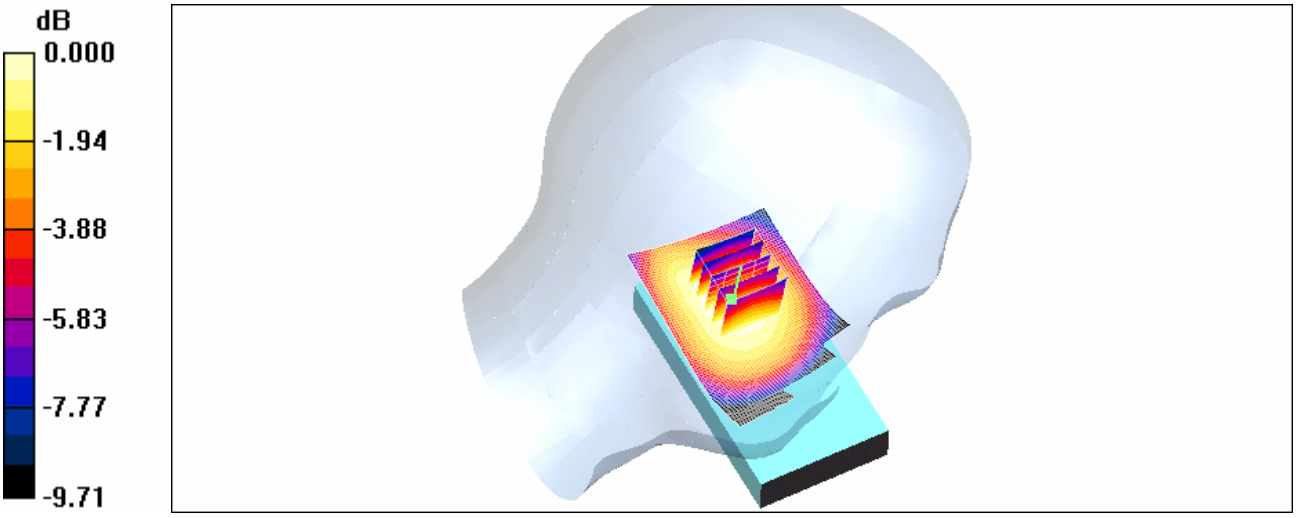
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.38, 8.38, 8.38); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

LE_Cheek/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.215 mW/g

LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.2 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.158 mW/g
Maximum value of SAR (measured) = 0.216 mW/g



0 dB = 0.216mW/g

LEC CH190

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 850 MHz Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.918 mho/m; ε_r = 43.3; ρ = 1000 kg/m^3
Phantom section: Left Section

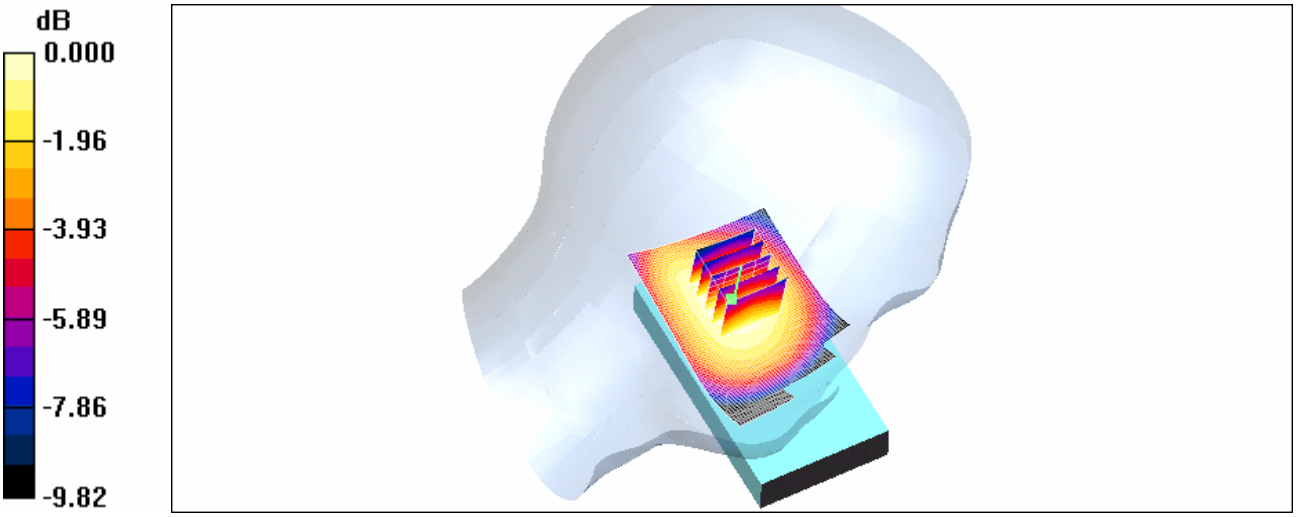
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.38, 8.38, 8.38); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

LE_Cheek/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.357 mW/g

LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.6 V/m; Power Drift = -0.035 dB
Peak SAR (extrapolated) = 0.419 W/kg

SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.261 mW/g
Maximum value of SAR (measured) = 0.357 mW/g



0 dB = 0.357mW/g

LEC CH251

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: Head 850 MHz Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.933 mho/m; ε_r = 43.2; ρ = 1000 kg/m^3
Phantom section: Left Section

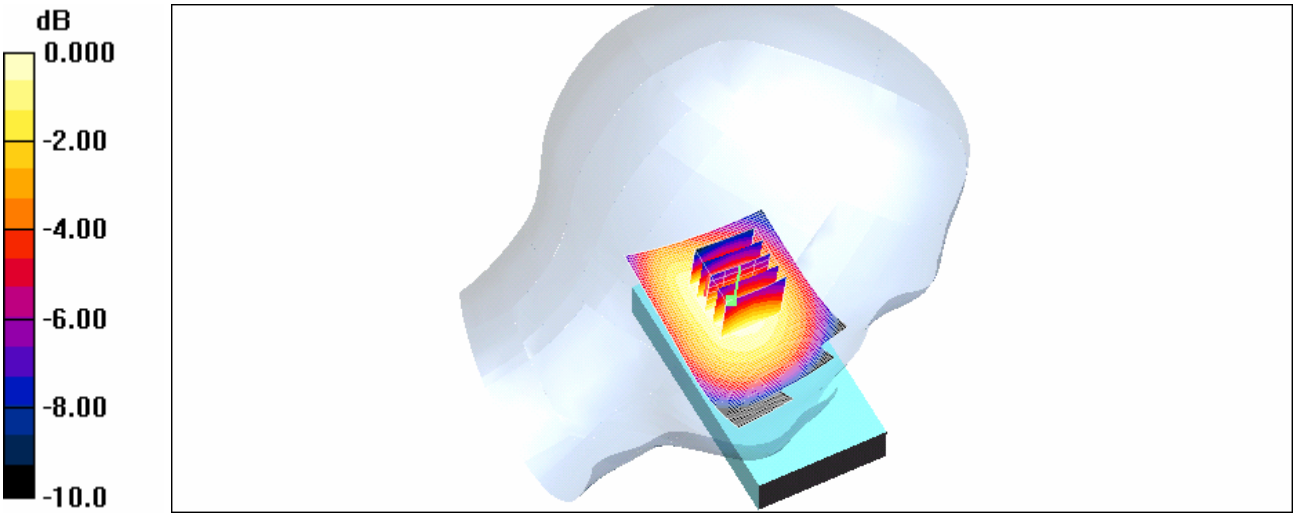
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.38, 8.38, 8.38); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

LE_Cheek/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.419 mW/g

LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.7 V/m; Power Drift = -0.024 dB
Peak SAR (extrapolated) = 0.496 W/kg

SAR(1 g) = 0.403 mW/g; SAR(10 g) = 0.307 mW/g
Maximum value of SAR (measured) = 0.424 mW/g



0 dB = 0.424mW/g

RET CH190

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 850 MHz Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.918 mho/m; ε_r = 43.3; ρ = 1000 kg/m^3
Phantom section: Right Section

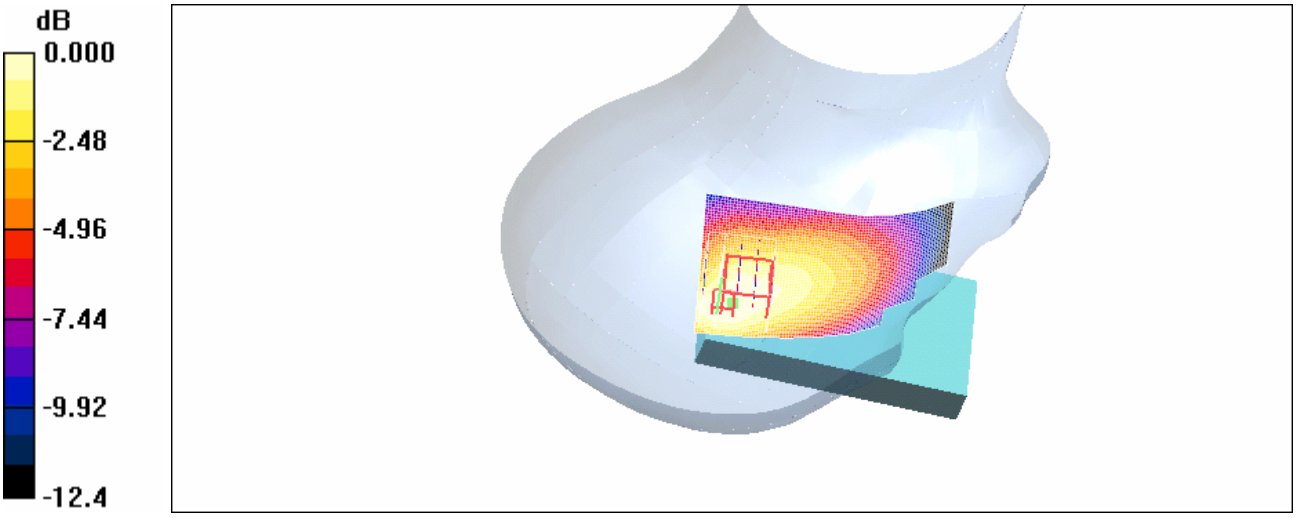
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.38, 8.38, 8.38); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

RE_Tilt/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.265 mW/g

RE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.9 V/m; Power Drift = -0.091 dB
Peak SAR (extrapolated) = 0.408 W/kg

SAR(1 g) = 0.239 mW/g; SAR(10 g) = 0.154 mW/g
Maximum value of SAR (measured) = 0.250 mW/g



0 dB = 0.250mW/g

LET CH190

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Head 850 MHz Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.918 mho/m; ε_r = 43.3; ρ = 1000 kg/m^3
Phantom section: Left Section

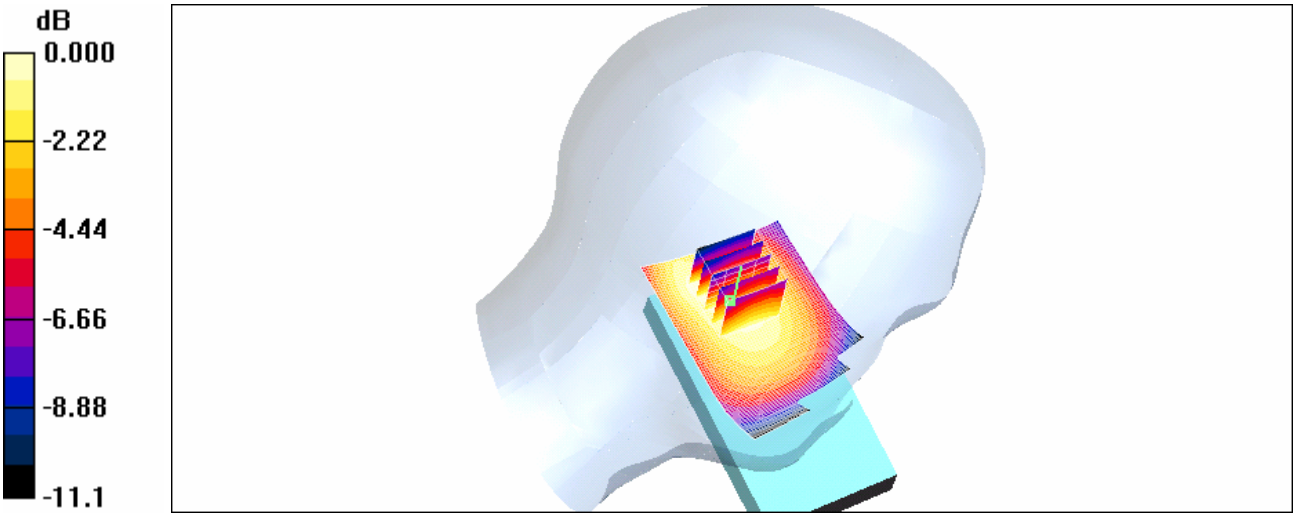
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.38, 8.38, 8.38); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

LE_Tilt/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.220 mW/g

LE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.5 V/m; Power Drift = 0.110 dB
Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.155 mW/g
Maximum value of SAR (measured) = 0.223 mW/g



0 dB = 0.223mW/g

LEC CH251 (With Micro-SD Memory Card)

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: Head 850 MHz Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.933 mho/m; ε_r = 43.2; ρ = 1000 kg/m^3
Phantom section: Left Section

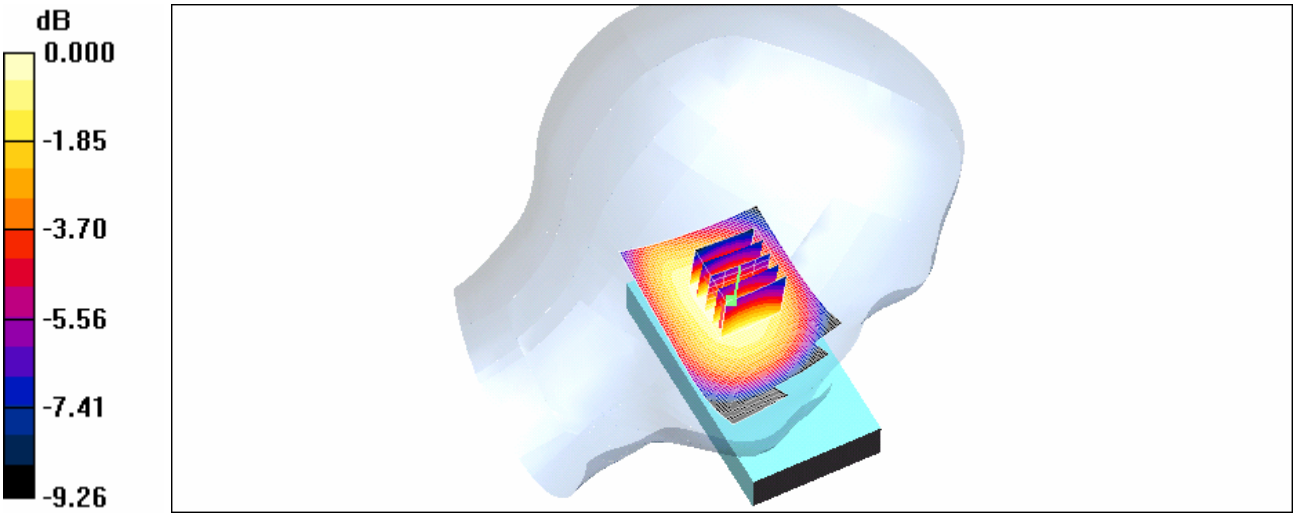
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.38, 8.38, 8.38); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

LE_Cheek/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.410 mW/g

LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.6 V/m; Power Drift = -0.021 dB
Peak SAR (extrapolated) = 0.488 W/kg

SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.303 mW/g
Maximum value of SAR (measured) = 0.412 mW/g



0 dB = 0.412mW/g

LEC CH251 (With Bluetooth-Active)

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: Head 850 MHz Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.933 mho/m; ε_r = 43.2; ρ = 1000 kg/m^3
Phantom section: Left Section

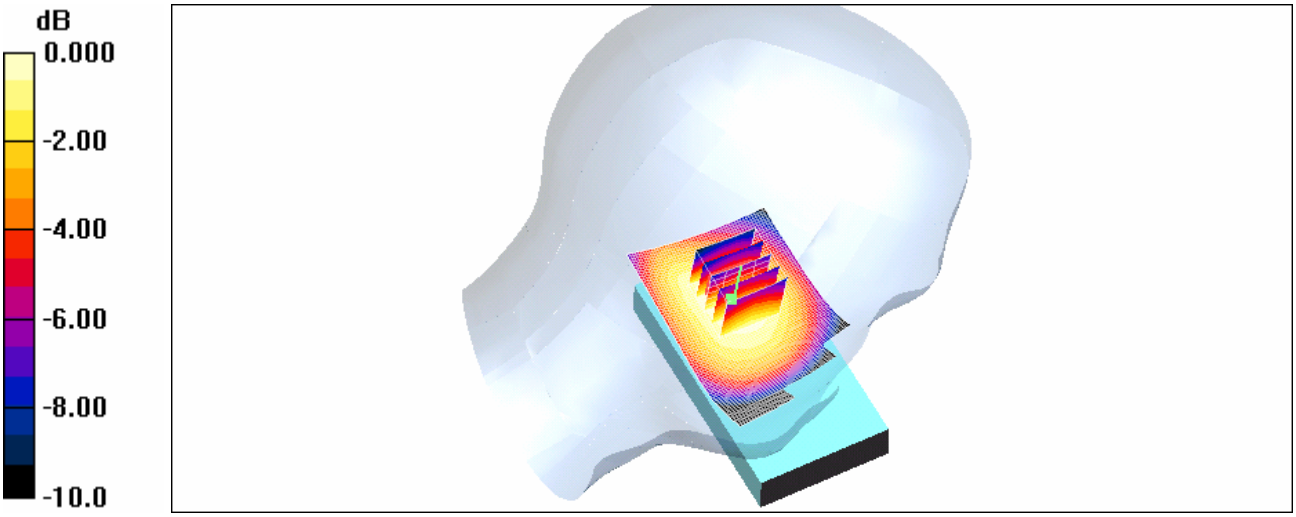
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.38, 8.38, 8.38); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

LE_Cheek/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.416 mW/g

LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.1 V/m; Power Drift = -0.074 dB
Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.303 mW/g
Maximum value of SAR (measured) = 0.417 mW/g



0 dB = 0.417mW/g

LEC CH251 (With Wi-Fi -Active for 802.11B highest output power channel)

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: Head 850 MHz Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.933 mho/m; ε_r = 43.2; ρ = 1000 kg/m^3
Phantom section: Left Section

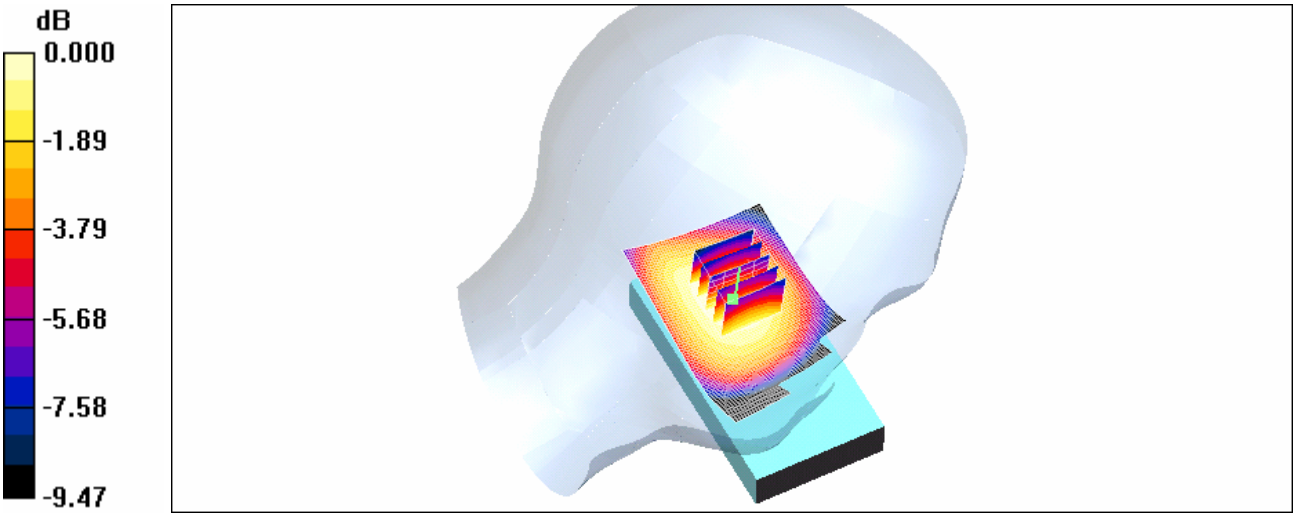
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.38, 8.38, 8.38); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

LE_Cheek/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.436 mW/g

LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.2 V/m; Power Drift = 0.045 dB
Peak SAR (extrapolated) = 0.503 W/kg

SAR(1 g) = 0.408 mW/g; SAR(10 g) = 0.310 mW/g
Maximum value of SAR (measured) = 0.427 mW/g



0 dB = 0.427mW/g

LEC CH251 (With Wi-Fi -Active for 802.11G highest output power channel)

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: Head 850 MHz Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.933 mho/m; ε_r = 43.2; ρ = 1000 kg/m^3
Phantom section: Left Section

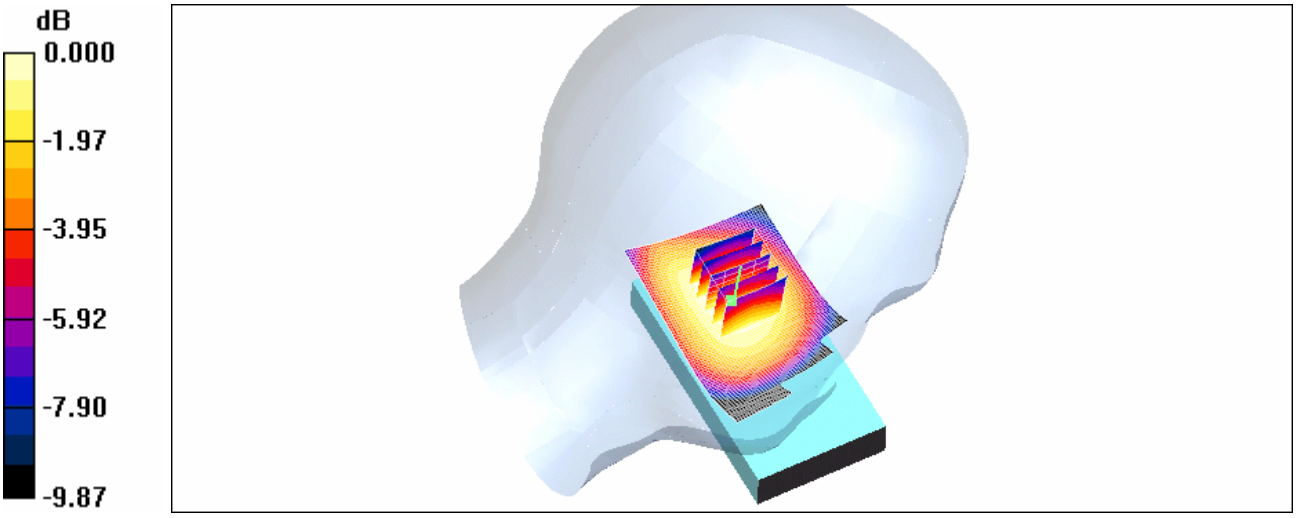
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.38, 8.38, 8.38); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

LE_Cheek/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.416 mW/g

LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.7 V/m; Power Drift = 0.056 dB
Peak SAR (extrapolated) = 0.480 W/kg

SAR(1 g) = 0.392 mW/g; SAR(10 g) = 0.297 mW/g
Maximum value of SAR (measured) = 0.413 mW/g



0 dB = 0.413mW/g

BODY_CH128

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2
Medium: Muscle 850 MHz Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.949 mho/m; ε_r = 56.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

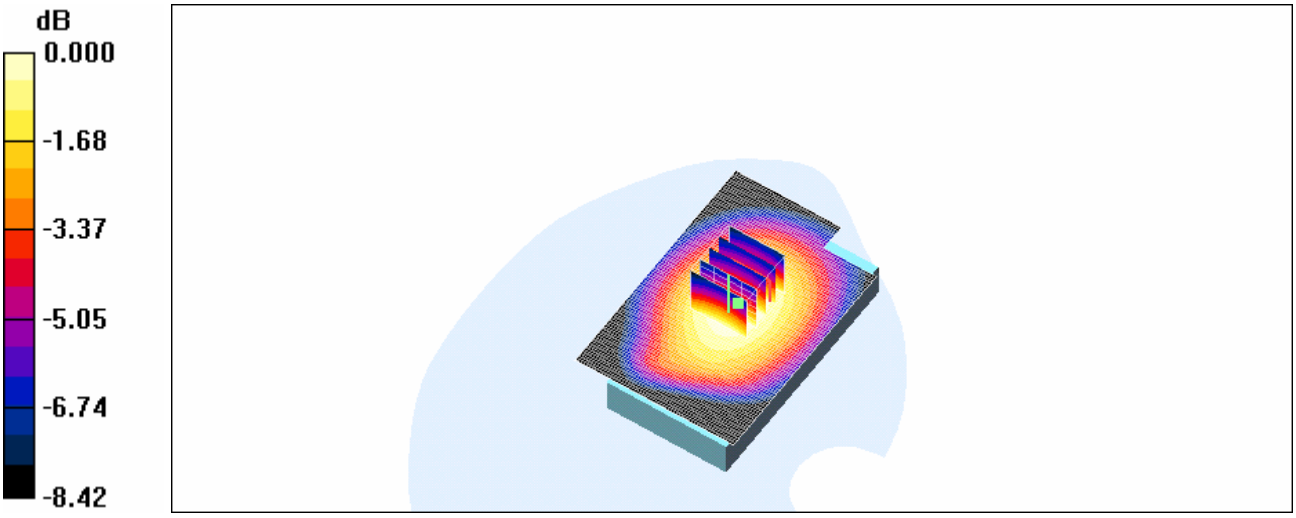
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.15, 8.15, 8.15); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

BODY/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.474 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.3 V/m; Power Drift = -0.073 dB
Peak SAR (extrapolated) = 0.581 W/kg

SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.339 mW/g
Maximum value of SAR (measured) = 0.475 mW/g



0 dB = 0.475mW/g

BODY_CH190

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium: Muscle 850 MHz Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 mho/m; ε_r = 56.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

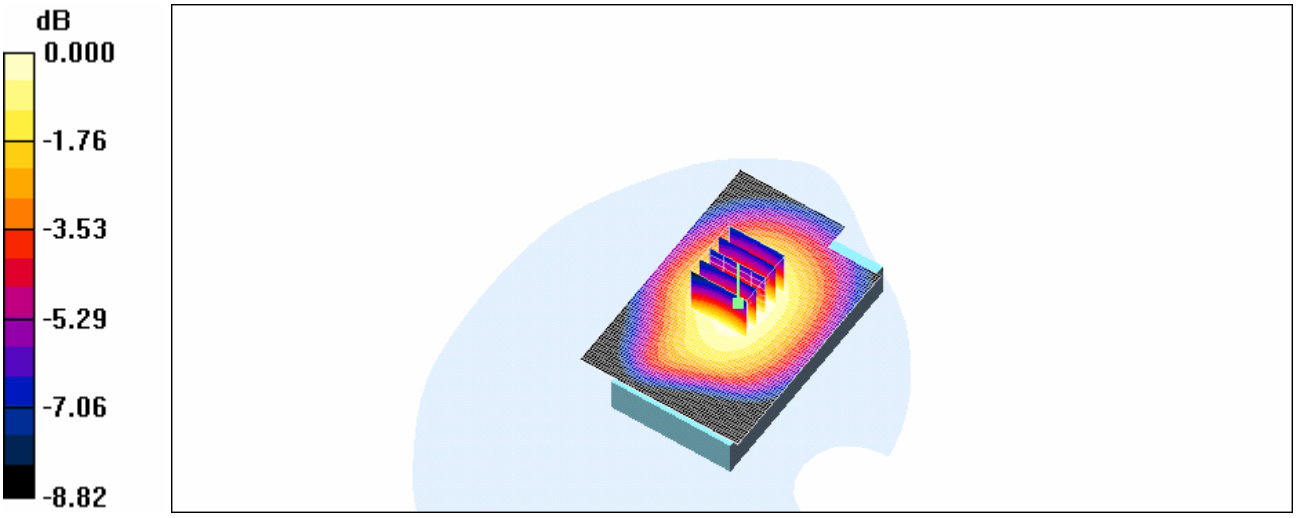
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.15, 8.15, 8.15); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

BODY/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.422 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.88 V/m; Power Drift = -0.140 dB
Peak SAR (extrapolated) = 0.516 W/kg

SAR(1 g) = 0.402 mW/g; SAR(10 g) = 0.301 mW/g
Maximum value of SAR (measured) = 0.422 mW/g



0 dB = 0.422mW/g

BODY_CH251

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:2
Medium: Muscle 850 MHz Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.969 mho/m; ε_r = 56; ρ = 1000 kg/m^3
Phantom section: Flat Section

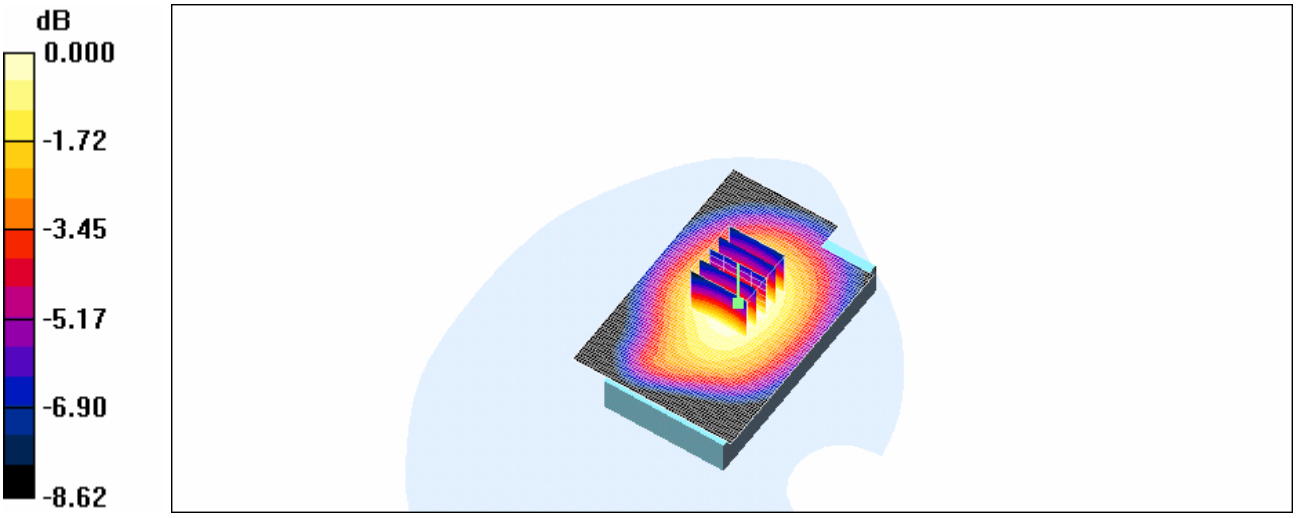
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.15, 8.15, 8.15); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

BODY/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.422 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.59 V/m; Power Drift = 0.037 dB
Peak SAR (extrapolated) = 0.506 W/kg

SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.294 mW/g
Maximum value of SAR (measured) = 0.413 mW/g



0 dB = 0.413mW/g

BODY_CH128 (EUT front to phantom)

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2
Medium: Muscle 850 MHz Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.949 mho/m; ε_r = 56.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

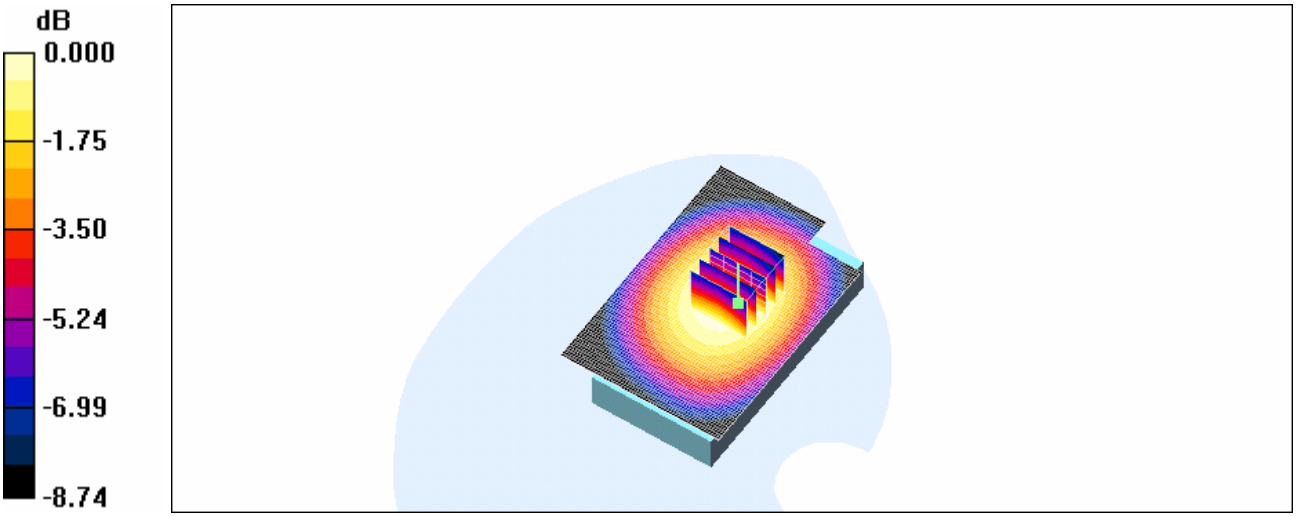
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.15, 8.15, 8.15); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

BODY/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.324 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.63 V/m; Power Drift = -0.046 dB
Peak SAR (extrapolated) = 0.395 W/kg

SAR(1 g) = 0.309 mW/g; SAR(10 g) = 0.234 mW/g
Maximum value of SAR (measured) = 0.321 mW/g



0 dB = 0.321mW/g

BODY_CH128 (With Micro-SD Memory Card)

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2
Medium: Muscle 850 MHz Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.949 mho/m; ε_r = 56.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

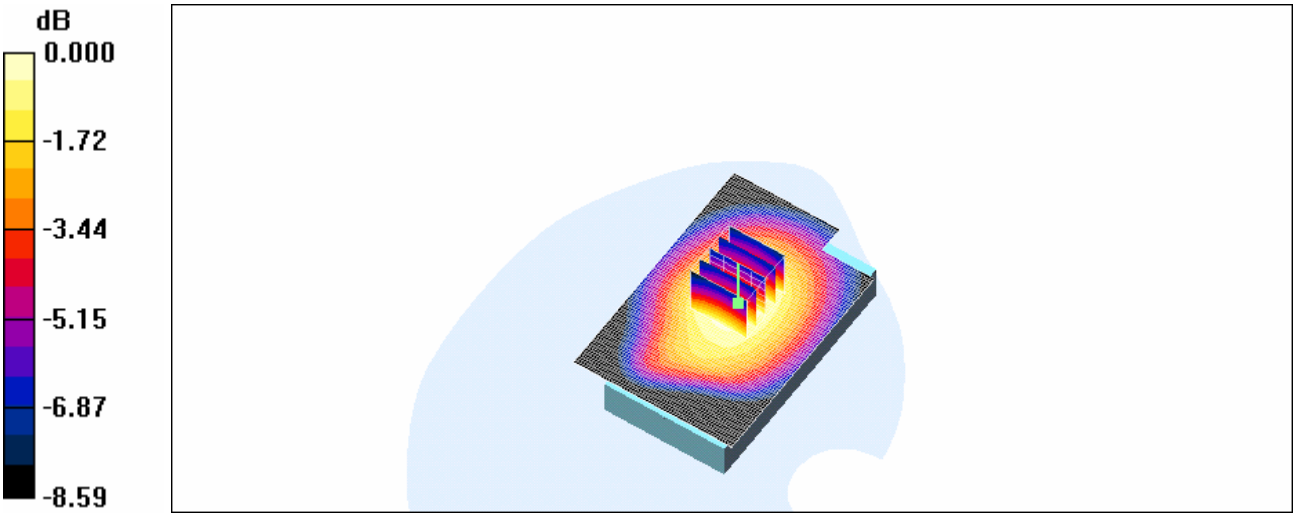
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.15, 8.15, 8.15); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

BODY/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.451 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.37 V/m; Power Drift = 0.211 dB
Peak SAR (extrapolated) = 0.560 W/kg

SAR(1 g) = 0.433 mW/g; SAR(10 g) = 0.322 mW/g
Maximum value of SAR (measured) = 0.457 mW/g



0 dB = 0.457mW/g

BODY_CH128 (With Bluetooth-Active)

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2
Medium: Muscle 850 MHz Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.949 mho/m; ε_r = 56.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

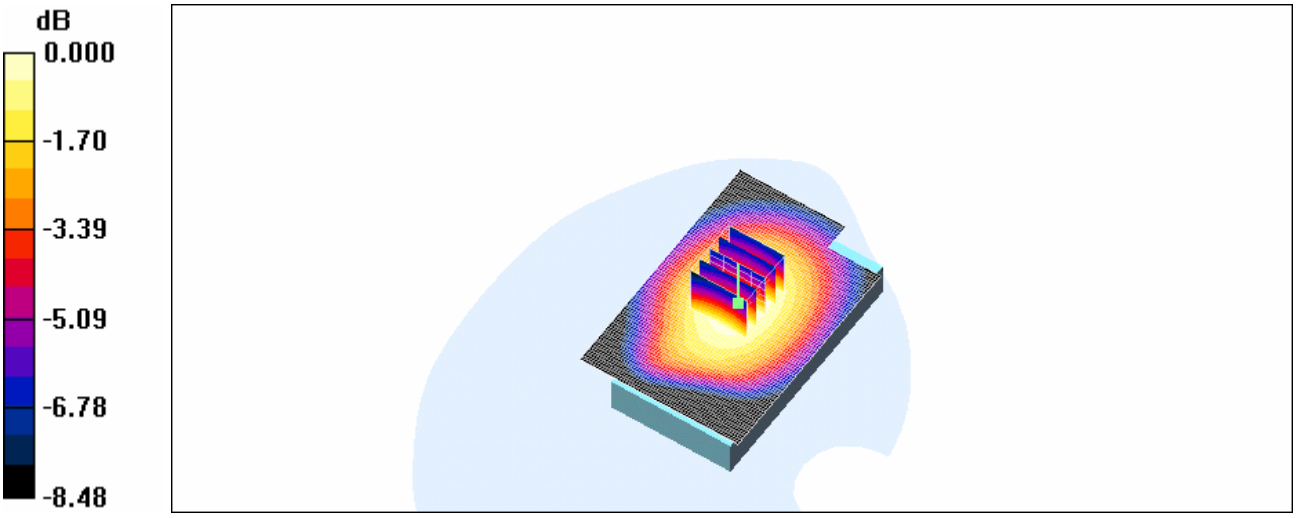
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.15, 8.15, 8.15); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

BODY/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.459 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.56 V/m; Power Drift = 0.101 dB
Peak SAR (extrapolated) = 0.561 W/kg

SAR(1 g) = 0.435 mW/g; SAR(10 g) = 0.325 mW/g
Maximum value of SAR (measured) = 0.457 mW/g



0 dB = 0.457mW/g

BODY_CH128 (With Wi-Fi -Active for 802.11B highest output power channel)

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2
Medium: Muscle 850 MHz Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.949 mho/m; ε_r = 56.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

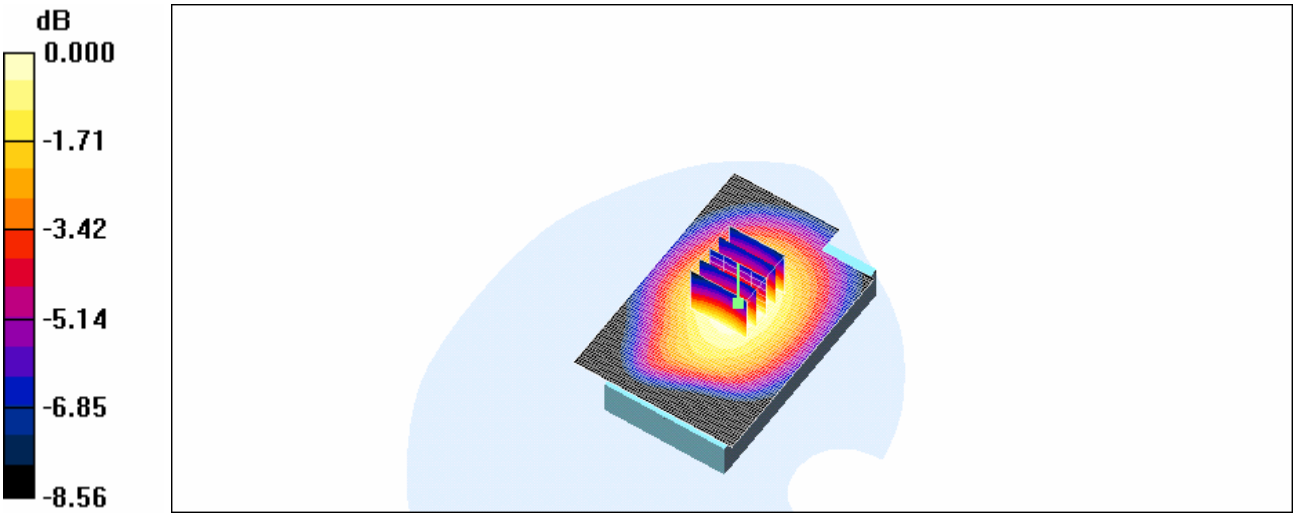
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.15, 8.15, 8.15); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

BODY/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.466 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.18 V/m; Power Drift = 0.041 dB
Peak SAR (extrapolated) = 0.578 W/kg

SAR(1 g) = 0.445 mW/g; SAR(10 g) = 0.332 mW/g
Maximum value of SAR (measured) = 0.469 mW/g



0 dB = 0.469mW/g

BODY_CH128 (With Wi-Fi -Active for 802.11G highest output power channel)

DUT: MC3574; Type: GSM850; Serial: 354438010004244

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2
Medium: Muscle 850 MHz Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.949 mho/m; ε_r = 56.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

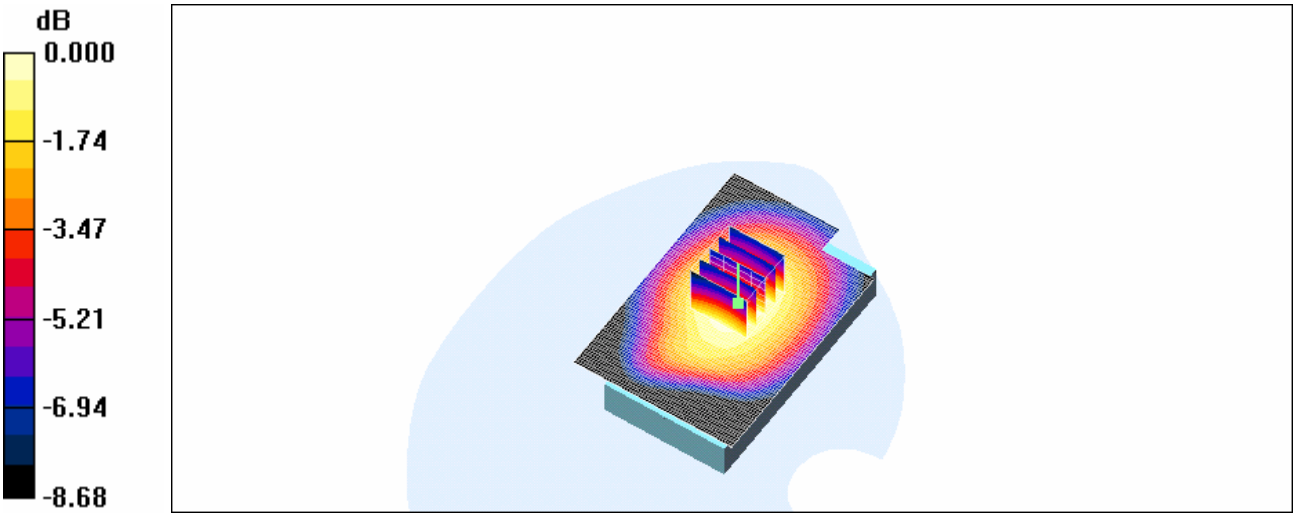
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.15, 8.15, 8.15); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

BODY/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.460 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.71 V/m; Power Drift = 0.218 dB
Peak SAR (extrapolated) = 0.569 W/kg

SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.327 mW/g
Maximum value of SAR (measured) = 0.461 mW/g



0 dB = 0.461mW/g

REC CH512

DUT: MC3574; Type: GSM1900; Serial: 354438010004244

Communication System: GSM1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.37 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Right Section

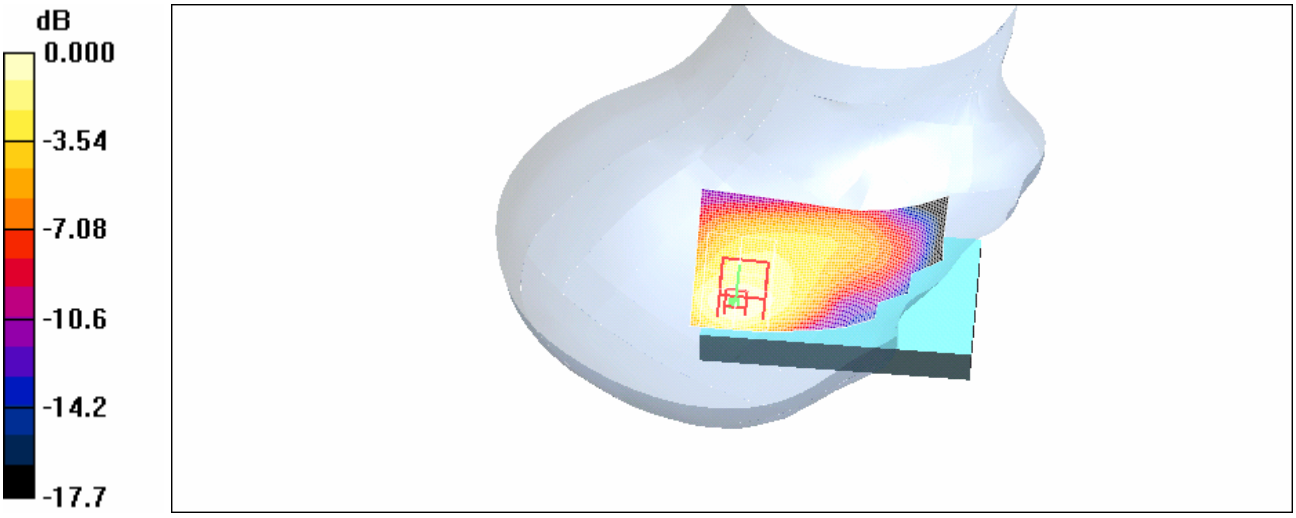
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.98, 6.98, 6.98); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

RE_Cheek/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.121 mW/g

RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.92 V/m; Power Drift = 0.211 dB
Peak SAR (extrapolated) = 0.199 W/kg

SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.064 mW/g
Maximum value of SAR (measured) = 0.121 mW/g



0 dB = 0.121mW/g

REC CH661

DUT: MC3574; Type: GSM1900; Serial: 354438010004244

Communication System: GSM1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz Medium parameters used: f = 1880 MHz; σ = 1.4 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Right Section

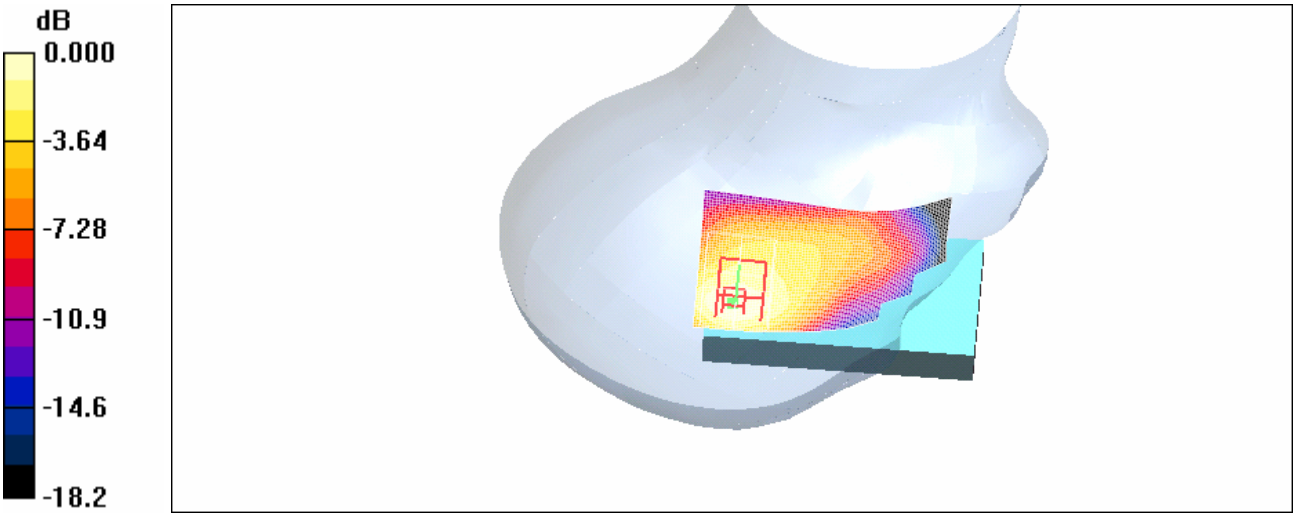
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.98, 6.98, 6.98); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

RE_Cheek/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.161 mW/g

RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.59 V/m; Power Drift = 0.145 dB
Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.143 mW/g; SAR(10 g) = 0.081 mW/g
Maximum value of SAR (measured) = 0.156 mW/g



0 dB = 0.156mW/g

REC CH810

DUT: MC3574; Type: GSM1900; Serial: 354438010004244

Communication System: GSM1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz Medium parameters used: f = 1910 MHz; σ = 1.46 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Right Section

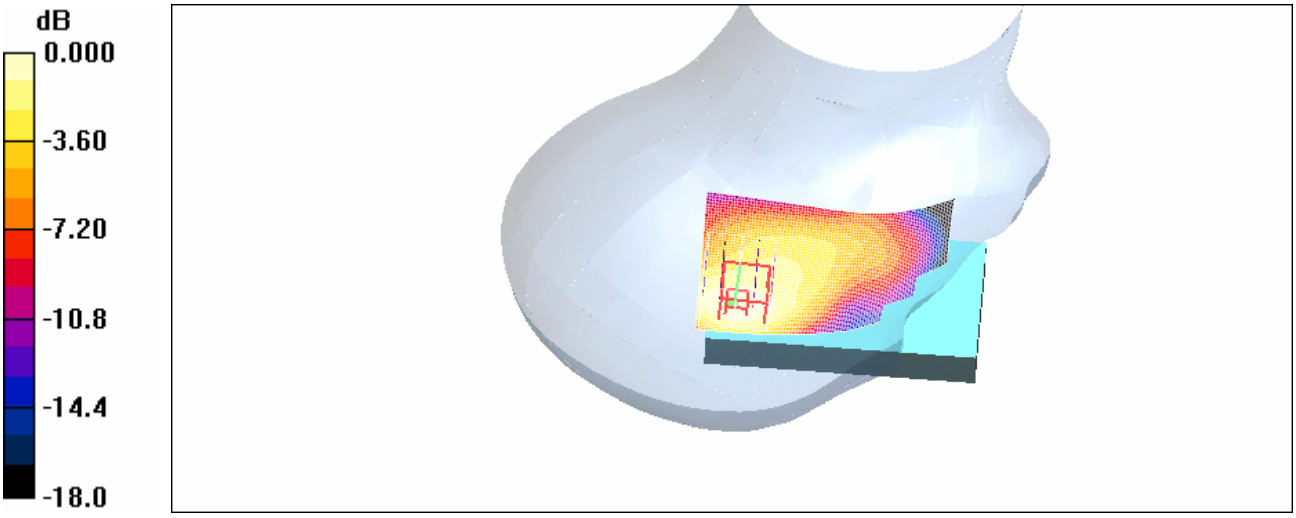
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.98, 6.98, 6.98); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

RE_Cheek/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.222 mW/g

RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.67 V/m; Power Drift = 0.016 dB
Peak SAR (extrapolated) = 0.361 W/kg

SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.111 mW/g
Maximum value of SAR (measured) = 0.210 mW/g



0 dB = 0.210mW/g

LEC CH661

DUT: MC3574; Type: GSM1900; Serial: 354438010004244

Communication System: GSM1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz Medium parameters used: f = 1880 MHz; σ = 1.4 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Left Section

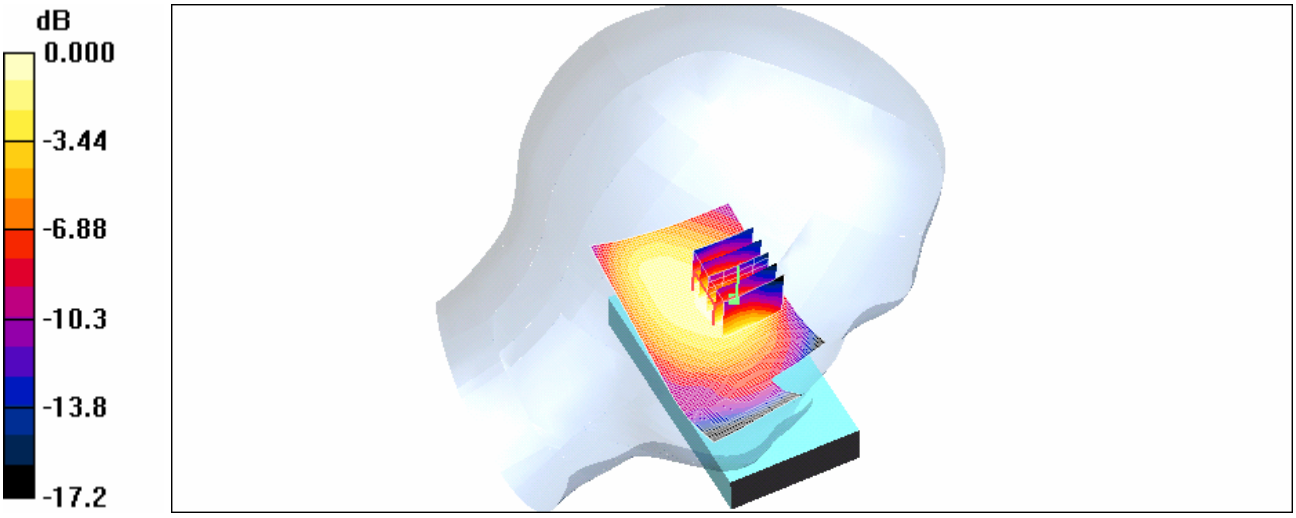
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.98, 6.98, 6.98); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

LE_Cheek/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.138 mW/g

LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.62 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 0.198 W/kg

SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.080 mW/g
Maximum value of SAR (measured) = 0.137 mW/g



0 dB = 0.137mW/g

RET CH661

DUT: MC3574; Type: GSM1900; Serial: 354438010004244

Communication System: GSM1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz Medium parameters used: f = 1880 MHz; σ = 1.4 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Right Section

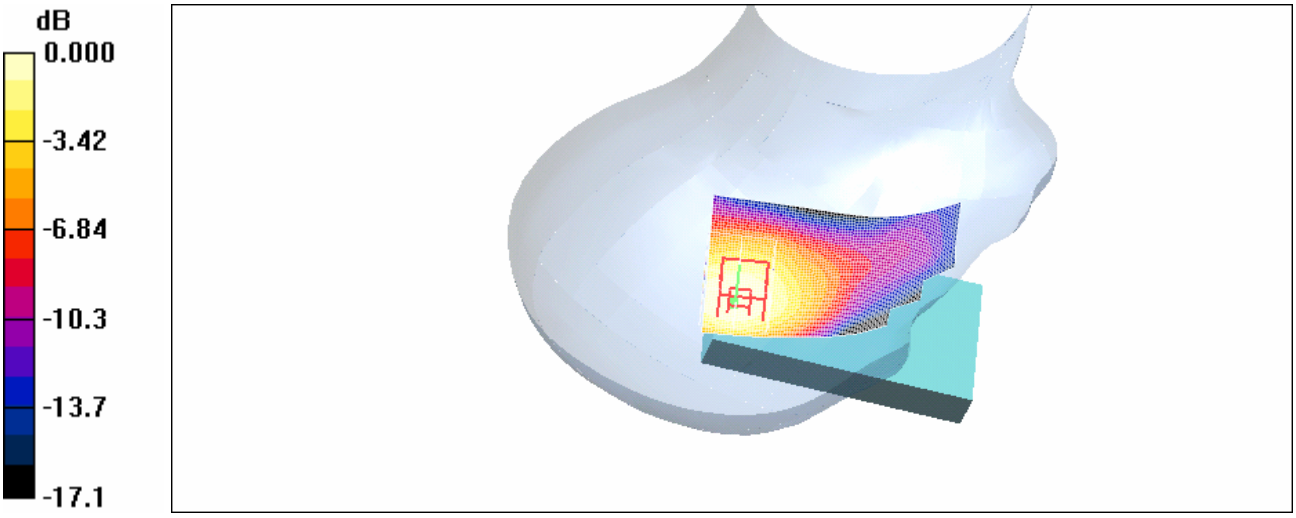
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.98, 6.98, 6.98); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

RE_Tilt/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.142 mW/g

RE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.29 V/m; Power Drift = -0.079 dB
Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.073 mW/g
Maximum value of SAR (measured) = 0.130 mW/g



0 dB = 0.130mW/g

LET CH661

DUT: MC3574; Type: GSM1900; Serial: 354438010004244

Communication System: GSM1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head 1900 MHz Medium parameters used: f = 1880 MHz; σ = 1.4 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Left Section

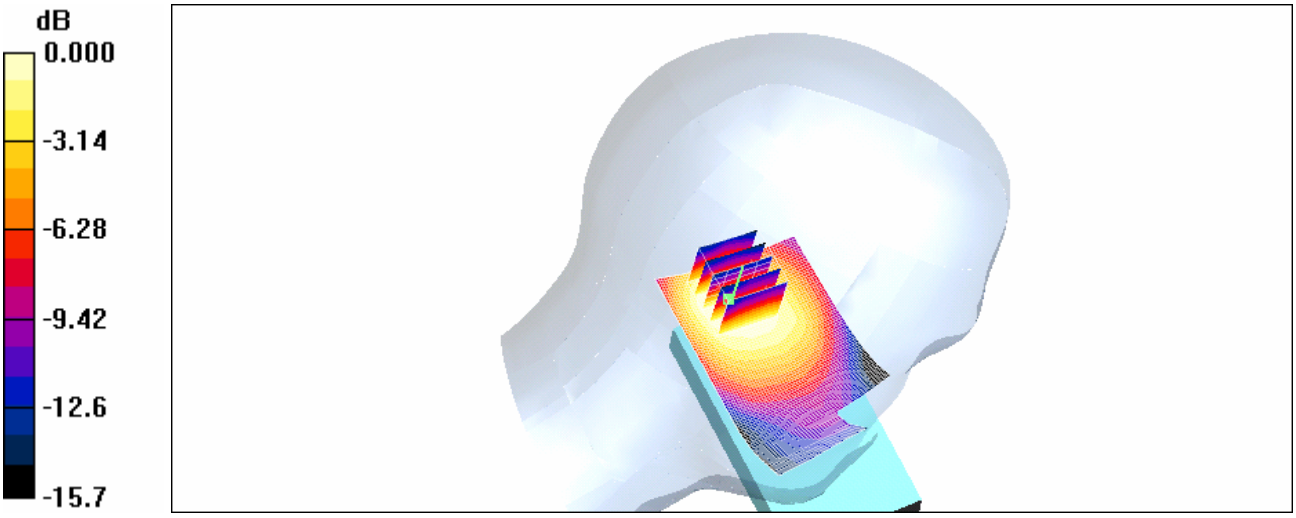
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.98, 6.98, 6.98); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

LE_Tilt/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.118 mW/g

LE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.79 V/m; Power Drift = -0.014 dB
Peak SAR (extrapolated) = 0.170 W/kg

SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.066 mW/g
Maximum value of SAR (measured) = 0.111 mW/g



0 dB = 0.111mW/g

BODY CH512

DUT: MC3574; Type: GSM1900; Serial: 354438010004244

Communication System: GSM1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2
Medium: M1800 & 1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.52 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section

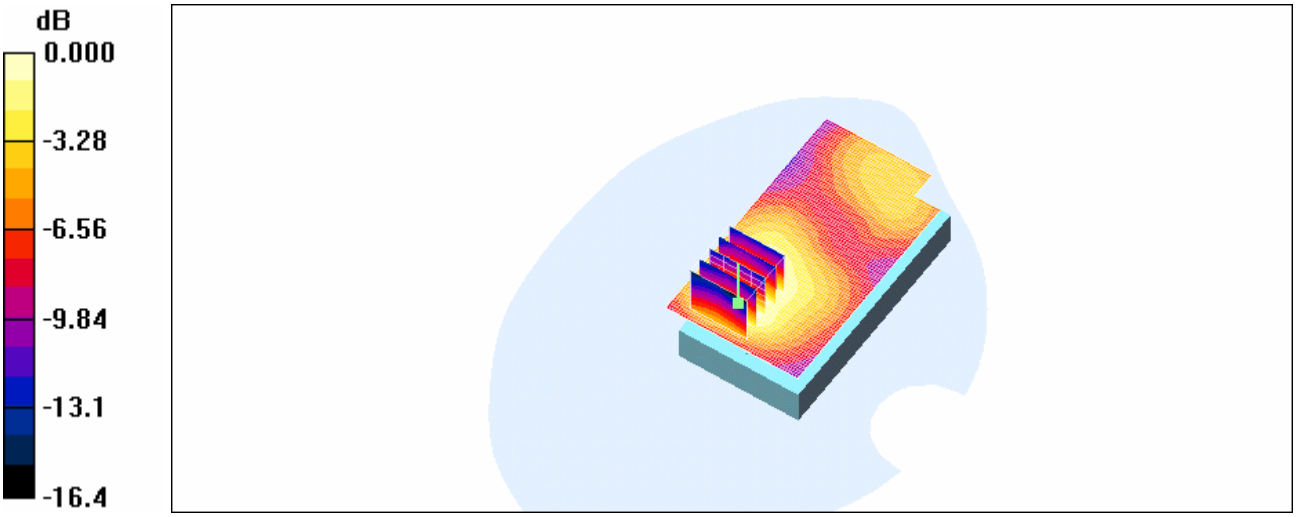
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.75, 6.75, 6.75); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

BODY/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.145 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.48 V/m; Power Drift = -0.061 dB
Peak SAR (extrapolated) = 0.206 W/kg

SAR(1 g) = 0.129 mW/g; SAR(10 g) = 0.079 mW/g
Maximum value of SAR (measured) = 0.140 mW/g



0 dB = 0.140mW/g

BODY CH661

DUT: MC3574; Type: GSM1900; Serial: 354438010004244

Communication System: GSM1900; Frequency: 1880 MHz;Duty Cycle: 1:2
Medium: M1800 & 1900 Medium parameters used (interpolated): f = 1880 MHz; σ = 1.54 mho/m; ε_r = 52.9; ρ = 1000 kg/m^3
Phantom section: Flat Section

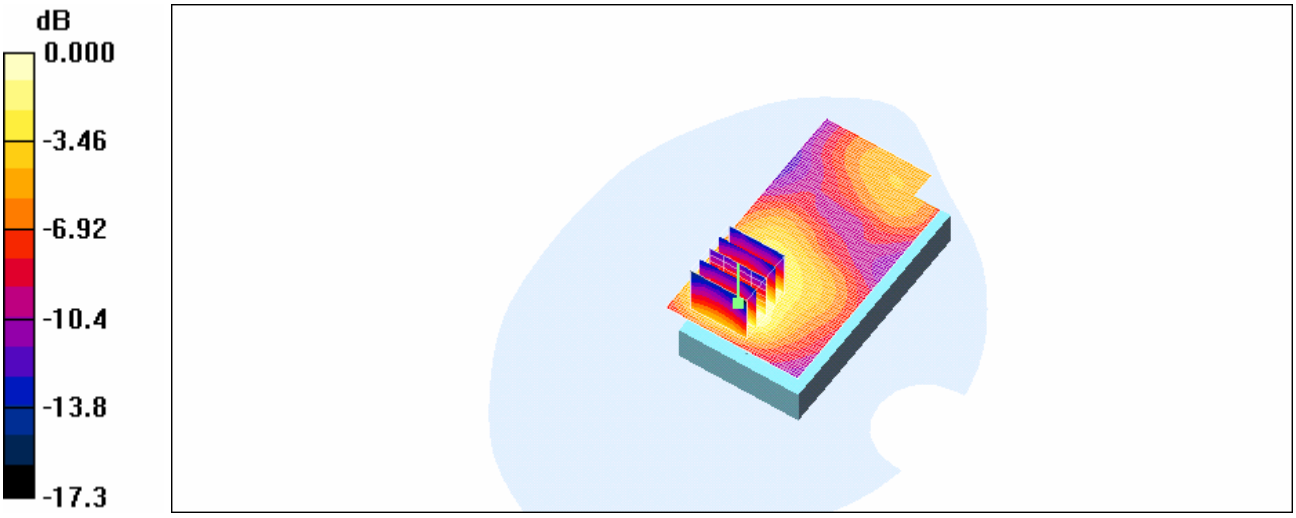
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.75, 6.75, 6.75); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

BODY/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.182 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.38 V/m; Power Drift = -0.052 dB
Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.095 mW/g
Maximum value of SAR (measured) = 0.176 mW/g



0 dB = 0.176mW/g

BODY CH810

DUT: MC3574; Type: GSM1900; Serial: 354438010004244

Communication System: GSM1900; Frequency: 1909.8 MHz;Duty Cycle: 1:2
Medium: M1800 & 1900 Medium parameters used: f = 1910 MHz; σ = 1.59 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

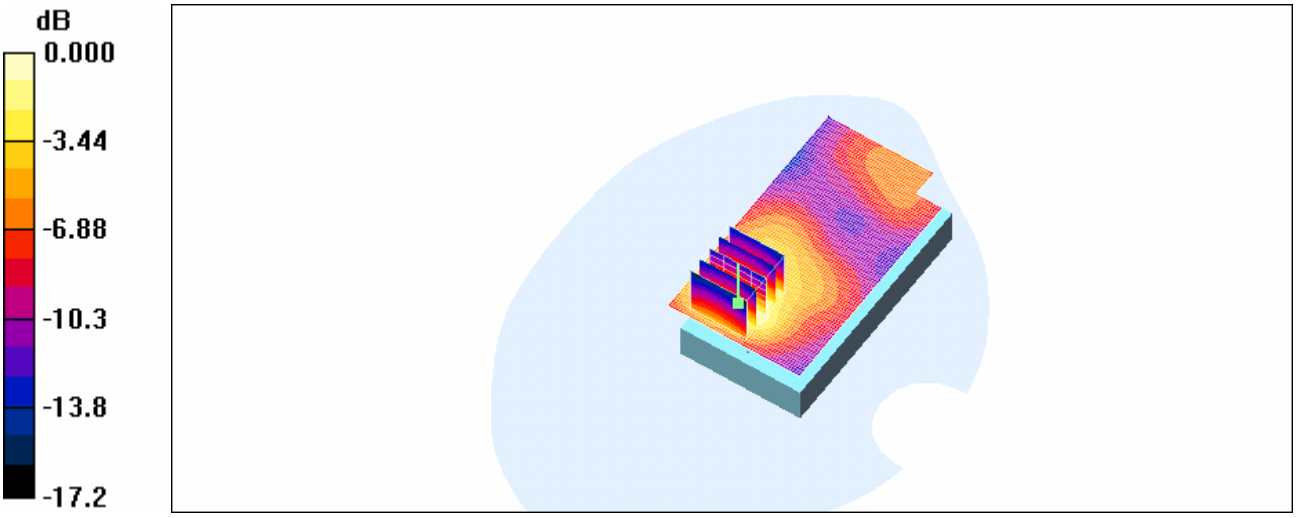
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.75, 6.75, 6.75); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

BODY/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.293 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.5 V/m; Power Drift = 0.034 dB
Peak SAR (extrapolated) = 0.430 W/kg

SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.151 mW/g
Maximum value of SAR (measured) = 0.290 mW/g



0 dB = 0.290mW/g

SAR System Performance Verification

DUT: Dipole 900 MHz; Type: D900V2; Serial: SN:178

Communication System: CW; Frequency: 900 MHz;Duty Cycle: 1:1
Medium: Head 900 MHz Medium parameters used (interpolated): f = 900 MHz; σ = 0.935 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Flat Section

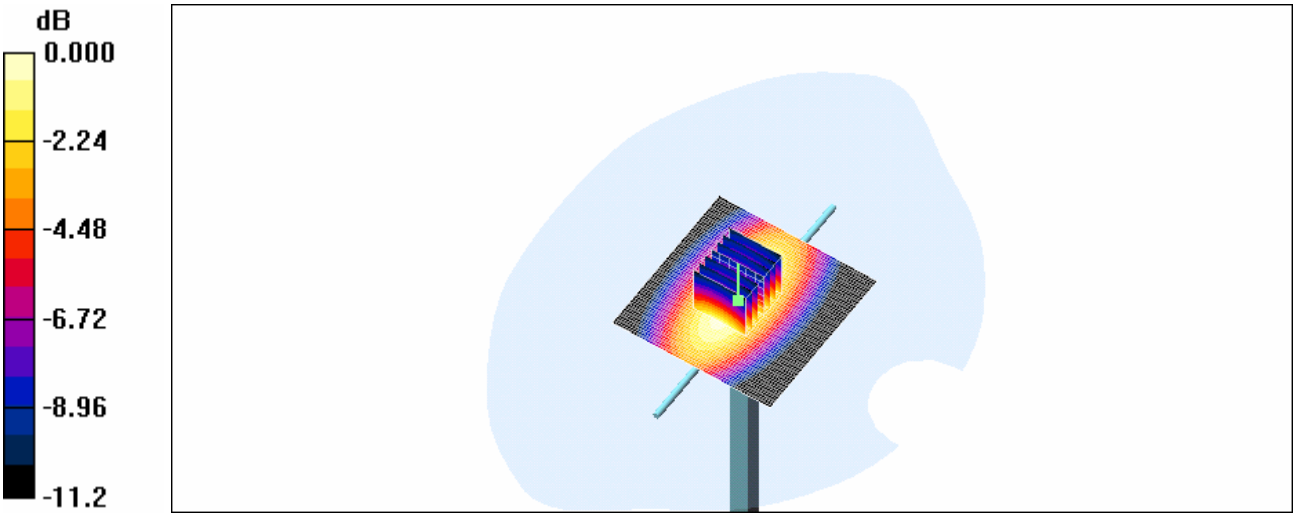
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.38, 8.38, 8.38); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.99 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 55.7 V/m; Power Drift = 0.004 dB
Peak SAR (extrapolated) = 4.30 W/kg

SAR(1 g) = 2.78 mW/g; SAR(10 g) = 1.77 mW/g
Maximum value of SAR (measured) = 3.01 mW/g



0 dB = 3.01mW/g

SAR System Performance Verification

DUT: Dipole 900 MHz; Type: D900V2; Serial: SN:178

Communication System: CW; Frequency: 900 MHz;Duty Cycle: 1:1
Medium: Muscle 900 MHz Medium parameters used: f = 900 MHz; σ = 1.01 mho/m; ε_r = 55.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

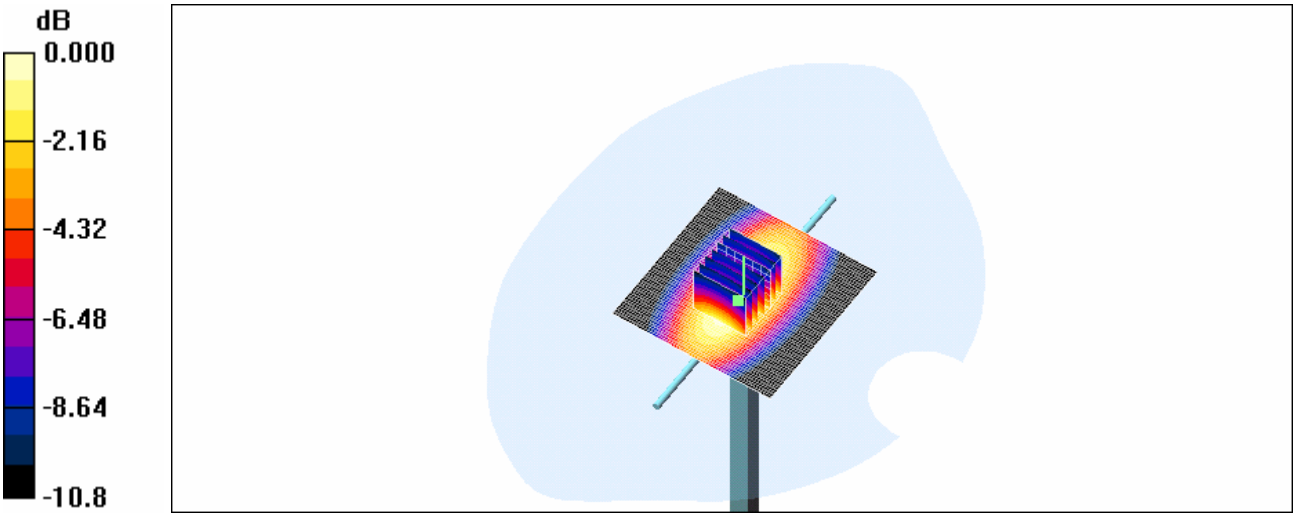
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.15, 8.15, 8.15); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.89 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.4 V/m; Power Drift = -0.017 dB
Peak SAR (extrapolated) = 4.01 W/kg

SAR(1 g) = 2.65 mW/g; SAR(10 g) = 1.72 mW/g
Maximum value of SAR (measured) = 2.86 mW/g



0 dB = 2.86mW/g

SAR System Performance Verification

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN:5d027

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: Head 1900MHz Medium parameters used: f = 1900 MHz; σ = 1.38 mho/m; ε_r = 38.5; ρ = 1000 kg/m^3
Phantom section: Flat Section

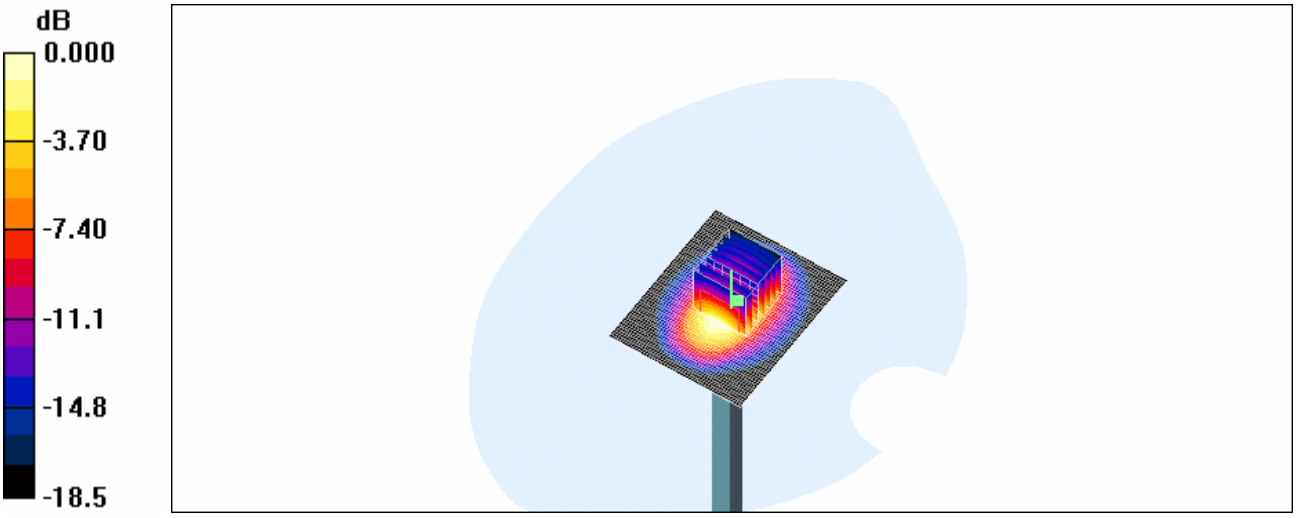
DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.98, 6.98, 6.98); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin=250mw/Area Scan (51x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 13.6 mW/g

Pin=250mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 88.4 V/m; Power Drift = 0.172 dB
Peak SAR (extrapolated) = 19.6 W/kg

SAR(1 g) = 10.4 mW/g; SAR(10 g) = 5.38 mW/g
Maximum value of SAR (measured) = 11.8 mW/g



0 dB = 11.8mW/g

SAR System Performance Verification

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN:5d027

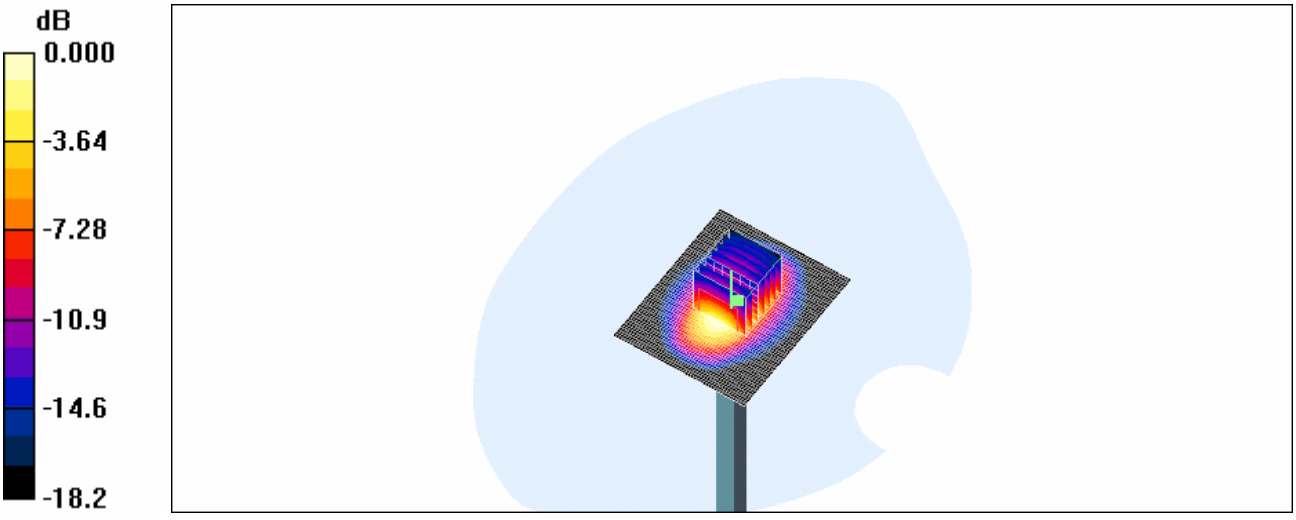
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used (interpolated): f = 1900 MHz; σ = 1.58 mho/m; ε_r = 53.7; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.75, 6.75, 6.75); Calibrated: 2006/3/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2006/3/21
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin=250mW/Area Scan (51x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 12.8 mW/g
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 82.9 V/m; Power Drift = -0.024 dB
Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 9.53 mW/g; SAR(10 g) = 5.01 mW/g
Maximum value of SAR (measured) = 10.7 mW/g



0 dB = 10.7mW/g