

# SAR TEST REPORT

Equipment Under Test	PDA phone
Model Name	PB99110
Brand Name	HTC
Company Name	HTC Corporation
Company Address	No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan, R.O.C.
Date of Receipt	2009.12.01
Date of Test(s)	2009.12.11~2009.12.13, 2010.01.06
Date of Issue	2010.01.07

Standards:

**FCC OET Bulletin 65 supplement C,  
ANSI/IEEE C95.1, C95.3, IEEE 1528  
KDB648474 ,RSS-102 : 2005**

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.

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Tested by : Antony Wu Date : 2010.01.07  
Engineer

Approved by : Nick Hsu Date : 2010.01.07  
Supervisor

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## 1. General Information

### 1.1 Testing Laboratory

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### 1.2 Details of Applicant

Company Name	HTC Corporation
Company Address	No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan, R.O.C.
Contact Person	Kiwi Peng
TEL	+886-3-375-3252
Fax	+886-3-375-3243
E-mail	Kiwi_Peng@htc.com

### 1.3 Description of EUT

EUT Name	PDA phone
Model Name	PB99110
Brand Name	HTC
IMEI Code	Original solution : 354958030011028 Second solution : 354958030010822
FCC ID	NM8PB99110
IC	4115B-PB99110
Mode of Operation	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA band

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Definition	Production unit					
Modulation Mode	GSM/GMSK/8PSK/QPSK/16QAM/CCK/OFDM					
Duty Cycle	GSM	GPRS (2multi-slot)	WCDMA B2	WCDMA B5	WLAN 802.11b	WLAN 802.11g
	1/8	1/4	1			
Maximum RF Conducted Power (Average)	GSM 850	GSM1900	WCDMA B2	WCDMA B5	WLAN 802.11b	WLAN 802.11g
	32.9 dBm	29.4 dBm	22.93 dBm	22.80 dBm	17.59 dbm	12.09 dbm
TX Frequency Range (MHz)	GSM 850	GSM1900	WCDMA B2	WCDMA B5	WLAN 802.11b	WLAN 802.11g
	824.2- 848.8	1850.2- 1909.8	1852.4- 1907.6	826.4- 846.6	2412- 2462	2412- 2462
Channel Number (ARFCN)	GSM 850	GSM1900	WCDMA B2	WCDMA B5	WLAN 802.11b	WLAN 802.11g
	128- 251	512- 810	9262- 9538	4132- 4233	1- 11	1- 11
VOIP Function	Yes					
Battery Type	3.7 V Lithium-Ion					
Antenna Type	Internal Antenna					
Declaration	<b>Second solution(change Camera)</b>					
	In addition to the original sample shown in these test results, model PB99110 also has an option for a camera; SAR values were checked on these options using the spot-check method. We found spot-check results were same or lower than original results in GSM850/ GSM1900/ WCDMA B2/ WCDMA B5/ WLAN 802.11b/g, and deviation were within 20%.					

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Max. SAR Measured (1 g)	<b>Original solution</b>	
	GSM850	
	Head	Body
	<b>0.493 mW/g</b> (At GSM 850 Left Head (Cheek Position)_ 128 channel)	<b>1.1 mW/g</b> (At GPRS 850 Body _ 128 channel_repeated with Merry headset)
	GSM1900	
	Head	Body
	<b>0.605 mW/g</b> (At GSM 1900 Right Head (Cheek Position)_ 661 channel)	<b>0.716 mW/g</b> (At GPRS 1900 Body _ 661 channel)
	WCDMA B2	
	Head	Body
	<b>0.973 mW/g</b> (At WCDMA B2 Right Head (Cheek Position)_ 9400 channel repeated with Memory card)	<b>0.605 mW/g</b> (At WCDMA B2 Body _ 9262 channel)
	WCDMA B5	
	Head	Body
	<b>0.506 mW/g</b> (At WCDMA B5 Left Head (Cheek Position)_ 4132 channel)	<b>0.656 mW/g</b> (At WCDMA B5 Body _ 4132 channel)
	WLAN 802.11 b	
Head	Body	
<b>0.163 mW/g</b> (At WLAN 802.11b Right Head (Tilt Position)_ 6 channel repeated with Memory card)	<b>0.119 mW/g</b> (At WLAN 802.11b Body_ 6 channel repeated with Memory card)	

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Max. SAR Measured (1 g)	WLAN 802.11 g	
	Head	Body
	<b>0.045 mW/g</b> (At WLAN 802.11g Right Head (Tilt Position)_ 6 channel )	<b>0.035 mW/g</b> (At WLAN 802.11g Body_ 11 channel )
	<b>Second solution          (change Camera)</b>	
	GSM850	
	Head	Body
	<b>0.442 mW/g</b> (At GSM 850 Left Head (Cheek Position)_ 128 channel)	<b>1.02 mW/g</b> (At GPRS 850 Body _ 128 channel_ repeated with Merry headset)
	GSM1900	
	Head	Body
	<b>0.601 mW/g</b> (At GSM 1900 Right Head (Cheek Position)_ 661 channel)	<b>0.631 mW/g</b> (At GPRS 1900 Body _ 661 channel)
	WCDMA B2	
	Head	Body
	<b>0.89 mW/g</b> (At WCDMA B2 Right Head (Cheek Position)_ 9400 channel repeated with Memory card)	<b>0.665 mW/g</b> (At WCDMA B2 Right Head (Cheek Position)_ 9262 channel)
	WCDMA B5	
Head	Body	
<b>0.413 mW/g</b> (At WCDMA B5 Left Head (Cheek Position)_ 4132 channel)	<b>0.557 mW/g</b> (At WCDMA B5 Body_ 4132 channel)	

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Max. SAR Measured (1 g)	WLAN 802.11 b	
	Head	Body
	<b>0.134 mW/g</b> (At WLAN 802.11b Right Head (Tilt Position)_ 6 channel repeated with Memory card)	<b>0.114 mW/g</b> (At WLAN 802.11b Body_ 6 channel repeated with Memory card)
	WLAN 802.11 g	
	Head	Body
	<b>0.044 mW/g</b> (At WLAN 802.11g Right Head (Tilt Position)_ 6 channel )	<b>0.037 mW/g</b> (At WLAN 802.11g Body_ 11 channel )

Note:

1. WCDMA B2 &amp; WCDMA B5 HSDPA &amp; HSUPA conducted power:

Mode	Sub-test	WCDMA B2		
		9262	9400	9538
<b>Rel99</b>	R99	22.93	22.86	22.76
<b>Rel6 HSDPA</b>	1	23.22	23.12	23.03
	2	22.81	22.72	22.61
	3	22.74	22.67	22.50
	4	22.81	22.68	22.62
<b>Rel6 HSUPA</b>	1	22.85	22.84	22.70
	2	21.09	20.91	20.74
	3	21.91	21.86	21.78
	4	21.03	20.96	20.78
	5	22.74	22.70	22.61

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Mode	Sub-test	WCDMA B5		
		4132	4183	4233
<b>Rel99</b>	R99	22.30	22.80	22.78
<b>Rel6 HSDPA</b>	1	23.22	23.05	22.97
	2	22.93	22.69	22.65
	3	22.76	22.57	22.48
	4	22.81	22.61	22.54
<b>Rel6 HSUPA</b>	1	22.96	22.73	22.70
	2	21.02	20.81	20.74
	3	22.00	21.79	21.78
	4	21.07	20.87	20.82
	5	22.82	22.56	22.59

## 1.4 Test Environment

Ambient Temperature:  $22 \pm 2^\circ \text{C}$

Tissue Simulating Liquid:  $22 \pm 2^\circ \text{C}$

## 1.5 Operation description

### General:

1. The EUT is controlled by using a Radio Communication Tester (Agilent 8960), and the communication between the EUT and the tester is established by air link.
2. 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.
3. The WLAN transmitter is controlled by chip-specific software installed in this PDA phone, to make the EUT transmit at max power.
4. During the SAR testing, the DASY5 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.
5. Testing Head SAR at lowest, middle and highest channel for all bands with LET/LEC/RET/REC conditions.

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6. Testing body-worn SAR by separating **1.5cm** between the back of the EUT and the flat phantom in GPRS mode.

**Additional configuration(Head):**

7. For highest SAR configuration in this band repeated with external Memory card inside.
8. For highest SAR configuration in this band repeated with FORMOSA Battery.

**Additional configuration(Body):**

9. Testing body-worn SAR with Handset and with Bluetooth transmitter OFF by separating **1.5cm** between the front of the EUT and the flat phantom in GPRS mode.
10. For highest SAR configuration in this band repeated with external Memory card inside.
11. For highest SAR configuration in this band repeated with Merry headset.
12. For highest SAR configuration in this band repeated with EGPRS mode.
13. For highest SAR configuration in this band repeated with FORMOSA Battery

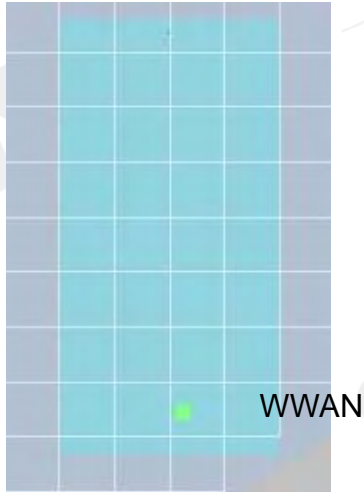
**SAR evaluation considerations for handsets with multiple transmitters:**

14. Since the WLAN function of this device does NOT support VoIP function. Users will not use it close to head. SAR evaluation of head adjacent is unnecessary, only Body condition will be considered for WLAN stand-alone situation.
15. The maximum SAR value for licensed transmitter happens on WCDMA B2 band, Head Right side(Cheek Position) , channel 9400 with Merry headset. the value is **1.1W/kg(1g)**. And the max SAR value for un-licensed transmitter WLAN 802.11b happens on Body worn, channel 6 with Memory card The SAR value is **0.119W/kg (1g)** . The summation of the 1g SAR is  $1.1+0.119 = 1.21 \text{ W/kg}$ , which lower than the limit **1.6W/kg**. **No simultaneous transmission SAR evaluation is necessary.**

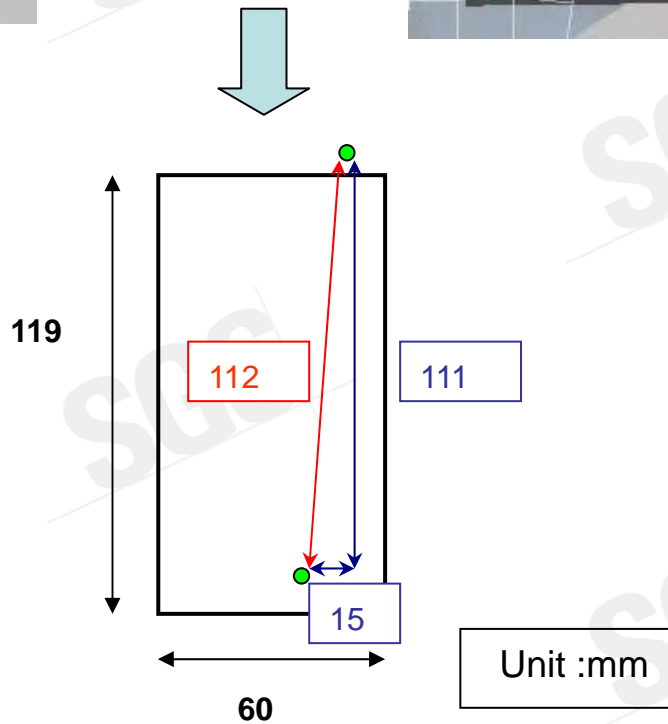
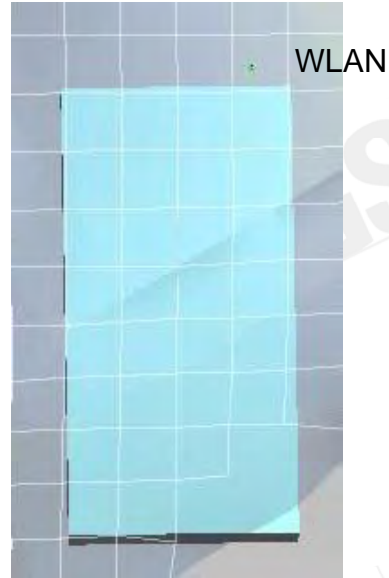
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Body\_CH128\_headset



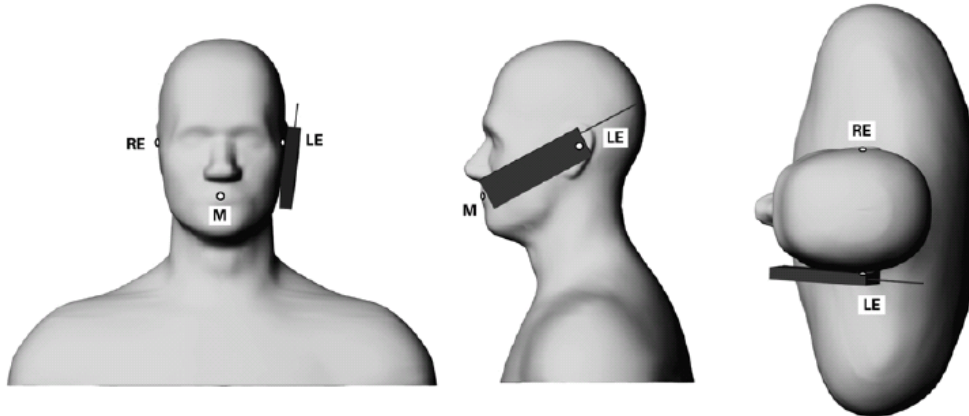
Head RE Tilt CH6 MC



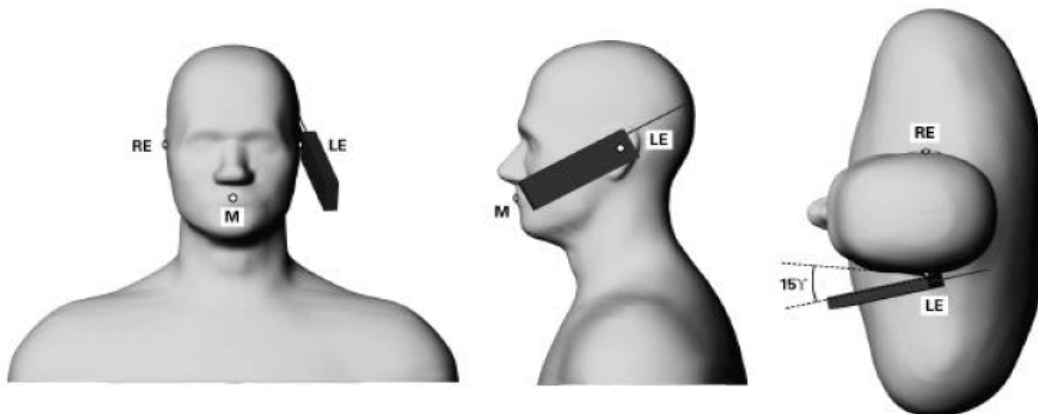
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## 1.6 Positioning Procedure



Phone position 1, "cheek" or "touch" position. The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone Positioning



Phone position 2, "tilted position." The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning  
Cheek/Touch Position:

the handset was brought toward the mouth of the head phantom by pivoting against the ear reference point until any point of the mouthpiece or keypad touched the phantom.

Ear/Tilt Position:

With the phone aligned in the Cheek/Touch position, the handset was tilted away from the mouth with respect to the test device reference point by 15 degrees.

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## 1.7 EVALUATION PROCEDURES

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

1. The extraction of the measured data (grid and values) from the Zoom Scan.
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
3. The generation of a high-resolution mesh within the measured volume
4. The interpolation of all measured values from the measurement grid to the high-resolution grid
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
6. The calculation of the averaged SAR within masses of 1g and 10g. The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within -2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum

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for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans.

The routines are verified and optimized for the grid dimensions used in these cube measurements. The measured volume of 30x30x30mm contains about 30g of tissue. The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is moved around until the highest averaged SAR is found.

If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

## 1.8 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 5 professional system). A Model ES3DV3 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  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.

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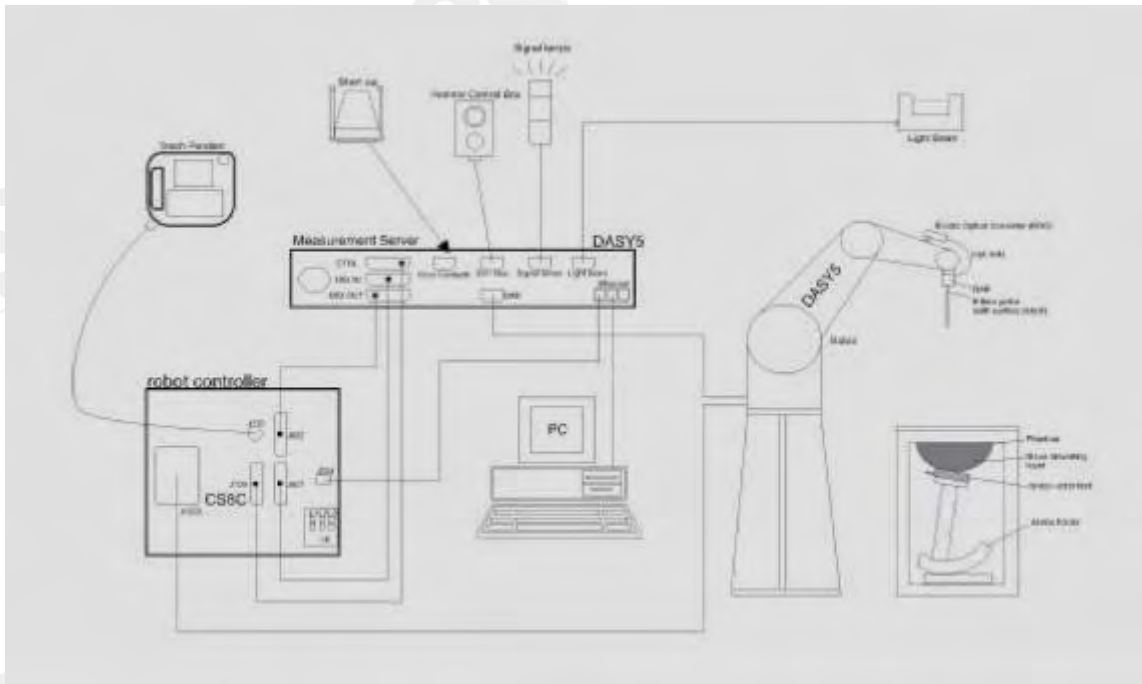


Fig.a The block diagram of SAR system

The DASY5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is 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

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positioning.

- A computer operating Windows 2000 or Windows XP.
- DASY5 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.

## 1.9 System Components

### ES3DV3 E-Field Probe

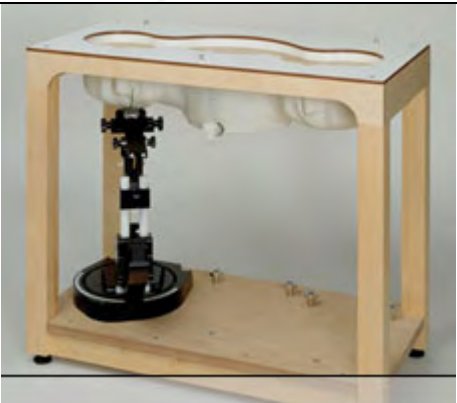
Construction:	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration:	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL850/1900/2450 Additional CF for other liquids and frequencies upon request	
Frequency:	10 MHz to > 3 GHz; Linearity: $\pm 0.6$ dB (30 MHz to 6 GHz)	
Directivity:	$\pm 0.3$ dB in HSL (rotation around probe axis) $\pm 0.5$ dB in tissue material (rotation normal to probe axis)	
Dynamic Range:	10 $\mu$ W/g to > 100 mW/g; Linearity: $\pm 0.6$ dB (noise: typically < 1 $\mu$ W/g)	
Dimensions:	Overall length: 337 mm (Tip: 10 mm) Tip diameter: 4 mm (Body: 10 mm) Typical distance from probe tip to dipole centers: 2 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%.	

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### 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: 850 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).	 <p style="text-align: center;">Device Holder</p>
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### 1.10 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 +/- 5% from the target SAR values. These tests were done at 850/1900/2450 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. 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.

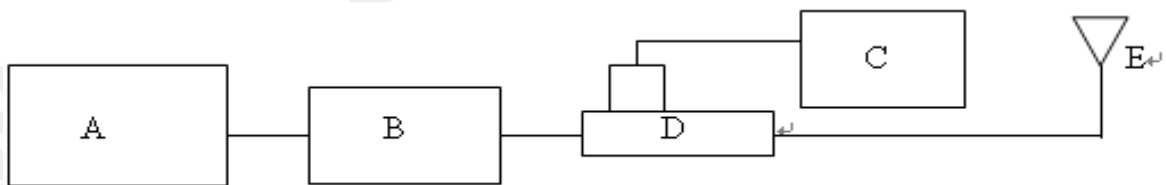


Fig.b The block diagram of SAR system verification

- A. Agilent Model 8648D Signal Generator
- B. Mini circuits Model ZHL-42 Amplifier
- C. Agilent Model U2001B Power Sensor
- D. Agilent Model 778D & 777D Dual directional coupling
- E. Reference dipole antenna



Photograph of the dipole Antenna

Validation Kit	Frequency (MHz)	Target SAR (1g) (Pin=250mW)	Measured SAR (1g)	Measured Date
D835V2 S/N: 4d063	835 MHz (Head)	2.38 mW/g	2.34 mW/g	2009/12/11

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D835V2 S/N: 4d063	835 MHz (Body)	2.55 mW/g	2.57 mW/g	2009/12/12
D1900V2 S/N: 5d027	1900 MHz (Head)	10.5 mW/g	10.4 mW/g	2009/12/11
D1900V2 S/N: 5d027	1900 MHz (Body)	10.6 mW/g	10.1 mW/g	2009/12/12
D2450V2 S/N: 735	2450 MHz (Head)	13.5 mW/g	13.7 mW/g	2010/01/06
D2450V2 S/N: 735	2450 MHz (Body)	13.2 mW/g	13 mW/g	2009/12/12
D835V2 S/N: 4d063	835 MHz (Head)	2.38 mW/g	2.31 mW/g	2009/12/13
D835V2 S/N: 4d063	835 MHz (Body)	2.55 mW/g	2.53 mW/g	2009/12/13
D1900V2 S/N: 5d027	1900 MHz (Head)	10.5 mW/g	10.3 mW/g	2009/12/13
D1900V2 S/N: 5d027	1900 MHz (Body)	10.6 mW/g	10.9 mW/g	2009/12/13
D2450V2 S/N: 735	2450 MHz (Body)	13.2 mW/g	13.5 mW/g	2009/12/13

Table 1. System validation (follow manufacture target value)

### 1.11 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-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-6000MHz) 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. (Appendix Fig .2)

Frequency (MHz)	Tissue type	Measurement date/ Limits	Dielectric Parameters		
			$\rho$	$\sigma$ (S/m)	Simulated Tissue Temperature(° C)
850	Head	Measured, 2009.12.11	42.3	0.905	21.7
		Recommended Limits	38.76-42.84	0.85-0.93	20-24

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850	Body	Measured, 2009.12.12	54.5	1.02	21.7
		Recommended Limits	51.11-56.49	0.96-1.06	20-24
1900	Head	Measured, 2009.12.11	38.2	1.46	21.7
		Recommended Limits	36.67-40.53	1.4-1.54	20-24
1900	Body	Measured, 2009.12.12	52.6	1.59	21.7
		Recommended Limits	52.16-57.65	1.48-1.64	20-24
2450	Head	Measured, 2010.01.06	38.2	1.84	21.7
		Recommended Limits	36.10-39.90	1.73-1.91	20-24
2450	Body	Measured, 2009.12.12	52.5	1.98	21.7
		Recommended Limits	51.68-57.12	1.88-2.08	20-24
850	Head	Measured, 2009.12.13	40.4	0.878	21.7
		Recommended Limits	38.76-42.84	0.85-0.93	20-24
850	Body	Measured, 2009.12.13	54.4	1.03	21.7
		Recommended Limits	51.11-56.49	0.96-1.06	20-24
1900	Head	Measured, 2009.12.13	40.3	1.47	21.7
		Recommended Limits	36.67-40.53	1.4-1.54	20-24
1900	Body	Measured, 2009.12.13	52.8	1.59	21.7
		Recommended Limits	52.16-57.65	1.48-1.64	20-24
2450	Body	Measured, 2009.12.13	52.3	1.94	21.7
		Recommended Limits	51.68-57.12	1.88-2.08	20-24

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the brain tissue simulating liquid for 850 & 1900 & 2450 band:

Ingredient	850MHz (Head)	850MHz (Body)	1900MHz (Head)	1900MHz (Body)	2450MHz (Head)	2450MHz (Body)
DGMBE	X	X	444.52 g	300.67 g	550.0g	301.7 g
Water	532.98 g	631.68 g	552.42 g	716.56 g	450g	698.3 g
Salt	18.3 g	11.72 g	3.06 g	4.0 g	X	X
Preventol D-7	2.4 g	1.2 g	X	X	X	X
Cellulose	3.2 g	X	X	X	X	X
Sugar	766.0 g	600 g	X	X	X	X
Total amount	1 L (1.0kg)	1 L (1.0kg)	1 L (1.0kg)	1 L (1.0kg)	1 L (1.0kg)	1 L (1.0kg)

Table 3. Recipes for tissue simulating liquid

## 1.12 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.

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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 .6)

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

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**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.

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## 2. Summary of Results

### Original solution measurement result

#### GSM 850 MHZ

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
850 MHz	128	824.2	32.8 dbm	0.402	22.1	21.7
	190	836.6	32.9 dbm	0.36	22.1	21.7
	251	848.8	32.9 dbm	0.368	22.1	21.7
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
850 MHz	128	824.2	32.8 dbm	0.493	22.1	21.7
	190	836.6	32.9 dbm	0.451	22.1	21.7
	251	848.8	32.9 dbm	0.462	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
850 MHz	128	824.2	32.8 dbm	0.29	22.1	21.7
	190	836.6	32.9 dbm	0.26	22.1	21.7
	251	848.8	32.9 dbm	0.256	22.1	21.7
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
850 MHz	128	824.2	32.8 dbm	0.268	22.1	21.7
	190	836.6	32.9 dbm	0.247	22.1	21.7
	251	848.8	32.9 dbm	0.248	22.1	21.7

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<b>Body worn (testing in GPRS mode)</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
850 MHz	128	824.2	32.5 dbm	0.951	22.1	21.7
	190	836.6	32.6 dbm	0.812	22.1	21.7
	251	848.8	32.6 dbm	0.447	22.1	21.7
<b>Body worn (testing in GPRS mode)_repeated for EUT front to phantom</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
850 MHz	128	824.2	32.5 dbm	0.489	22.1	21.7
<b>Body worn (testing in GPRS mode)_repeated with Memory card</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
850 MHz	128	824.2	32.5 dbm	1.01	22.1	21.7
<b>Body worn (testing in GPRS mode)_repeated with EGPRS mode</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
850 MHz	128	824.2	32.5 dbm	0.181	22.1	21.7
<b>Body worn (testing in GPRS mode)_repeated with Merry headset</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
850 MHz	128	824.2	32.5 dbm	1.1	22.1	21.7
<b>Body worn (testing in GPRS mode)_repeated with FORMOSA Battery</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
850 MHz	128	824.2	32.5 dbm	0.996	22.1	21.7

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## PCS 1900 MHZ

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
1900 MHz	512	1850.2	29.3 dbm	0.523	22.1	21.7
	661	1880	29.4 dbm	0.605	22.1	21.7
	810	1909.8	29.2 dbm	0.51	22.1	21.7
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
1900 MHz	512	1850.2	29.3 dbm	0.405	22.1	21.7
	661	1880	29.4 dbm	0.447	22.1	21.7
	810	1909.8	29.2 dbm	0.334	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
1900 MHz	512	1850.2	29.3 dbm	0.19	22.1	21.7
	661	1880	29.4 dbm	0.226	22.1	21.7
	810	1909.8	29.2 dbm	0.185	22.1	21.7
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
1900 MHz	512	1850.2	29.3 dbm	0.151	22.1	21.7
	661	1880	29.4 dbm	0.161	22.1	21.7
	810	1909.8	29.2 dbm	0.123	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
1900 MHz	512	1850.2	28.3 dbm	0.631	22.1	21.7
	661	1880	28.4 dbm	0.716	22.1	21.7
	810	1909.8	28.1 dbm	0.581	22.1	21.7

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## WCDMA BAND 2

<b>Right Head (Cheek Position)</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9262	1852.4	22.93 dbm	0.886	22.1	21.7
	9400	1880	22.86 dbm	0.913	22.1	21.7
	9538	1907.6	22.76 dbm	0.619	22.1	21.7
<b>Right Head (Cheek Position) _repeated with Memory card</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9400	1880	22.86 dbm	0.973	22.1	21.7
<b>Right Head (Cheek Position)_repeated with FORMOSA Battery</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9400	1880	22.86 dbm	0.948	22.1	21.7
<b>Left Head (Cheek Position)</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9262	1852.4	22.93 dbm	0.863	22.1	21.7
	9400	1880	22.86 dbm	0.911	22.1	21.7
	9538	1907.6	22.76 dbm	0.529	22.1	21.7
<b>Right Head (15° Tilt Position)</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9262	1852.4	22.93 dbm	0.305	22.1	21.7
	9400	1880	22.86 dbm	0.34	22.1	21.7
	9538	1907.6	22.76 dbm	0.233	22.1	21.7
<b>Left Head (15° Tilt Position)</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9262	1852.4	22.93 dbm	0.281	22.1	21.7
	9400	1880	22.86 dbm	0.299	22.1	21.7
	9538	1907.6	22.76 dbm	0.172	22.1	21.7

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Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9262	1852.4	22.93 dbm	0.605	22.1	21.7
	9400	1880	22.86 dbm	0.557	22.1	21.7
	9538	1907.6	22.76 dbm	0.327	22.1	21.7

## WCDMA BAND 2 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9262	1852.4	23.22 dbm	0.595	22.1	21.7
	9400	1880	23.12 dbm	0.564	22.1	21.7
	9538	1907.6	23.03 dbm	0.342	22.1	21.7

## WCDMA BAND 2 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9262	1852.4	22.85 dbm	0.564	22.1	21.7
	9400	1880	22.84 dbm	0.587	22.1	21.7
	9538	1907.6	22.70 dbm	0.333	22.1	21.7

## WCDMA BAND 5

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B5	4132	826.4	22.30 dbm	0.375	22.1	21.7
	4183	836.6	22.80 dbm	0.356	22.1	21.7
	4233	846.6	22.78 dbm	0.319	22.1	21.7

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Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B5	4132	826.4	22.30 dbm	0.506	22.1	21.7
	4183	836.6	22.80 dbm	0.501	22.1	21.7
	4233	846.6	22.78 dbm	0.429	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B5	4132	826.4	22.30 dbm	0.299	22.1	21.7
	4183	836.6	22.80 dbm	0.249	22.1	21.7
	4233	846.6	22.78 dbm	0.226	22.1	21.7
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B5	4132	826.4	22.30 dbm	0.297	22.1	21.7
	4183	836.6	22.80 dbm	0.282	22.1	21.7
	4233	846.6	22.78 dbm	0.262	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B5	4132	826.4	22.30 dbm	0.656	22.1	21.7
	4183	836.6	22.80 dbm	0.64	22.1	21.7
	4233	846.6	22.78 dbm	0.569	22.1	21.7

## WCDMA BAND 5 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B5	4132	826.4	23.22 dbm	0.608	22.1	21.7
	4183	836.6	23.05 dbm	0.632	22.1	21.7
	4233	846.6	22.97 dbm	0.573	22.1	21.7

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## WCDMA BAND 5 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ ° C]	Liquid Temp[ ° C]
WCDMA B5	4132	826.4	22.96 dbm	0.514	22.1	21.7
	4183	836.6	22.73 dbm	0.469	22.1	21.7
	4233	846.6	22.70 dbm	0.37	22.1	21.7

## WLAN802.11 b

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ ° C]	Liquid Temp[ ° C]
WLAN 802.11 b	1	2412	17.59 dbm	0.069	22.1	21.7
	6	2437	17.18 dbm	0.126	22.1	21.7
	11	2462	17.59 dbm	0.121	22.1	21.7
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ ° C]	Liquid Temp[ ° C]
WLAN 802.11 b	1	2412	17.59 dbm	0.053	22.1	21.7
	6	2437	17.18 dbm	0.082	22.1	21.7
	11	2462	17.59 dbm	0.073	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ ° C]	Liquid Temp[ ° C]
WLAN 802.11 b	1	2412	17.59 dbm	0.08	22.1	21.7
	6	2437	17.18 dbm	0.153	22.1	21.7
	11	2462	17.59 dbm	0.139	22.1	21.7
Right Head (15° Tilt Position)-repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ ° C]	Liquid Temp[ ° C]
WLAN 802.11 b	6	2437	17.18 dbm	0.163	22.1	21.7

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<b>Right Head (15° Tilt Position)-repeated with FORMOSA Battery</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ ° C]	Liquid Temp[ ° C]
WLAN 802.11 b	6	2437	17.18 dbm	0.133	22.1	21.7
<b>Left Head (15° Tilt Position)</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ ° C]	Liquid Temp[ ° C]
WLAN 802.11 b	1	2412	17.59 dbm	0.074	22.1	21.7
	6	2437	17.18 dbm	0.12	22.1	21.7
	11	2462	17.59 dbm	0.099	22.1	21.7
<b>Body worn</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ ° C]	Liquid Temp[ ° C]
WLAN 802.11 b	1	2412	17.59 dbm	0.065	22.1	21.7
	6	2437	17.18 dbm	0.11	22.1	21.7
	11	2462	17.59 dbm	0.106	22.1	21.7
<b>Body worn- repeated for EUT front to phantom</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ ° C]	Liquid Temp[ ° C]
WLAN 802.11 b	6	2437	17.18 dbm	0.019	22.1	21.7
<b>Body worn-repeated with Memory card</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ ° C]	Liquid Temp[ ° C]
WLAN 802.11 b	6	2437	17.18 dbm	0.119	22.1	21.7
<b>Body worn-repeated with Bluetooth active</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ ° C]	Liquid Temp[ ° C]
WLAN 802.11 b	6	2437	17.18 dbm	0.098	22.1	21.7
<b>Body worn-repeated with Merry headset</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ ° C]	Liquid Temp[ ° C]
WLAN 802.11 b	6	2437	17.18 dbm	0.116	22.1	21.7

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<b>Body worn- repeated with FORMOSA Battery</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WLAN 802.11 b	6	2437	17.18 dbm	0.088	22.1	21.7

## WLAN 802.11 g

<b>Right Head (Cheek Position)</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WLAN 802.11 g	1	2412	11.96 dbm	0.024	22.1	21.7
	6	2437	11.93 dbm	0.042	22.1	21.7
	11	2462	12.09 dbm	0.043	22.1	21.7

<b>Left Head (Cheek Position)</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WLAN 802.11 g	1	2412	11.96 dbm	0.015	22.1	21.7
	6	2437	11.93 dbm	0.025	22.1	21.7
	11	2462	12.09 dbm	0.015	22.1	21.7

<b>Right Head (15° Tilt Position)</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WLAN 802.11 g	1	2412	11.96 dbm	0.023	22.1	21.7
	6	2437	11.93 dbm	0.045	22.1	21.7
	11	2462	12.09 dbm	0.043	22.1	21.7

<b>Left Head (15° Tilt Position)</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WLAN 802.11 g	1	2412	11.96 dbm	0.022	22.1	21.7
	6	2437	11.93 dbm	0.038	22.1	21.7
	11	2462	12.09 dbm	0.032	22.1	21.7

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Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WLAN 802.11 g	1	2412	11.96 dbm	0.018	22.1	21.7
	6	2437	11.93 dbm	0.033	22.1	21.7
	11	2462	12.09 dbm	0.035	22.1	21.7

## Second solution measurement result

### GSM 850 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
850MHz	128	824.2	32.8 dbm	0.442	22.1	21.7

#### Body-Worn(testing in GPRS mode)\_ repeated with Merry headset

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
850MHz	128	824.2	32.5 dbm	1.02	22.1	21.7

### PCS1900 MHZ

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
1800 MHz	661	1880	29.4 dbm	0.601	22.1	21.7

#### Body Worn(testing in GPRS mode)

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
1800 MHz	661	1880	28.4 dbm	0.631	22.1	21.7

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## WCDMA Band 2

Right Head (Cheek Position)_repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9400	1880	22.86 dbm	0.89	22.1	21.7
Body Worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9262	1852.4	22.93 dbm	0.665	22.1	21.7
Body Worn _repeated with HSDPA mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9400	1880	23.12 dbm	0.488	22.1	21.7
Body Worn_ repeated with HSUPA mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B2	9262	1852.4	22.85 dbm	0.509	22.1	21.7

## WCDMA Band 5

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B5	4132	826.4	22.30 dbm	0.413	22.1	21.7
Body Worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B5	4132	826.4	22.30 dbm	0.557	22.1	21.7

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<b>Body Worn _repeated with HSDPA mode</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B5	4132	826.4	23.22 dbm	0.528	22.1	21.7
<b>Body Worn_ repeated with HSUPA mode</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WCDMA B5	4183	836.6	22.73 dbm	0.54	22.1	21.7

## WLAN802.11 b

<b>Right Head (15° Tilt Position)-repeated with Memory card</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WLAN 802.11 b	6	2437	17.18 dbm	0.134	22.1	21.7
<b>Body Worn_repeated with Memory card</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WLAN 802.11 b	6	2437	17.18 dbm	0.114	22.1	21.7

## WLAN802.11 g

<b>Right Head (15° Tilt Position)</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WLAN 802.11 g	6	2437	12.09dbm	0.044	22.1	21.7
<b>Body Worn</b>						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[ °C]	Liquid Temp[ °C]
WLAN 802.11 g	11	2462	12.09 dbm	0.037	22.1	21.7

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### 3. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration
Schmid & Partner Engineering AG	Dosimetric E-FieldProbe	ES3DV3	3172	May.27.2009
Schmid & Partner Engineering AG	850/1900/2450MHz System Validation Dipole	D835V2	4d063	May.25.2009
		D1900V2	5d027	Apr.27.2009
		D2450V2	727	Apr.27.2009
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	856	May.26.2009
Schmid & Partner Engineering AG	Software	DASY 5 V5.0 Build125	N/A	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required
Agilent	Network Analyzer	8753D	3410A05547	Mar.31.2009
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration not required
Agilent	Dual-directional coupler	778D	50313	Aug.26.2009
		777D	50014	Aug.27.2009
Agilent	RF Signal Generator	8648D	3847M00432	May.25.2009
Agilent	Power Sensor	U2001B	MY48100169	Apr.23.2009
Agilent	Radio Communication Test	E5515c	GB44051912	Nov.05 .2008

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## 4. Measurements

Date/Time: 12/11/2009 01:22:15

### RE Cheek\_CH128

**DUT: PB99110;**

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

Medium: HEAD900 Medium parameters used (extrapolated):  $f = 824.2 \text{ MHz}$ ;  $\sigma = 0.894 \text{ mho/m}$ ;  $\epsilon_r = 42.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.423 mW/g

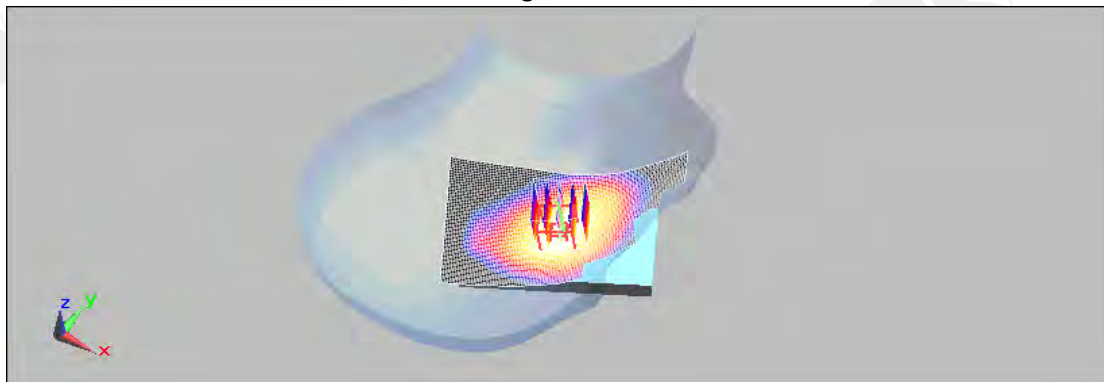
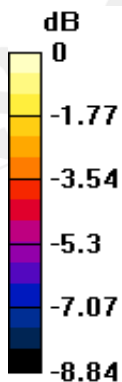
**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.98 V/m; Power Drift = 0.181 dB

Peak SAR (extrapolated) = 0.509 W/kg

**SAR(1 g) = 0.402 mW/g; SAR(10 g) = 0.297 mW/g**

Maximum value of SAR (measured) = 0.420 mW/g



0 dB = 0.420mW/g

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Date/Time: 12/11/2009 01:46:22

## RE Cheek\_CH190

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.906 \text{ mho/m}$ ;  $\epsilon_r = 42.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

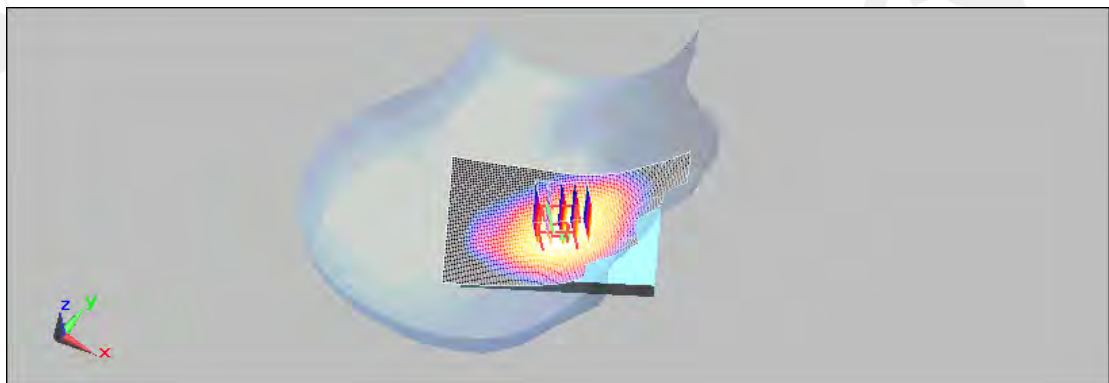
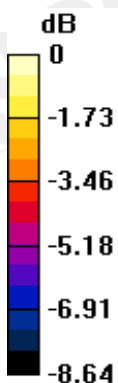
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.374 mW/g

**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 9.43 V/m; Power Drift = 0.193 dB  
 Peak SAR (extrapolated) = 0.456 W/kg

**SAR(1 g) = 0.360 mW/g; SAR(10 g) = 0.265 mW/g**  
 Maximum value of SAR (measured) = 0.377 mW/g



0 dB = 0.377mW/g

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Date/Time: 12/11/2009 02:09:30

## RE Cheek\_CH251

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 848.8 \text{ MHz}$ ;  $\sigma = 0.919 \text{ mho/m}$ ;  $\epsilon_r = 42.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

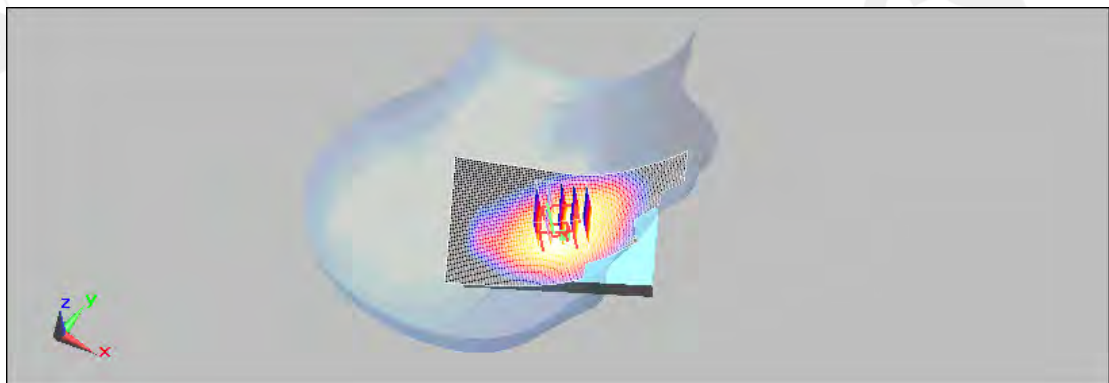
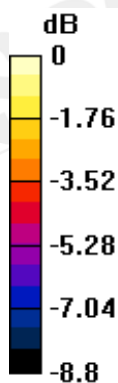
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.378 mW/g

**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 9.62 V/m; Power Drift = 0.100 dB  
 Peak SAR (extrapolated) = 0.466 W/kg

**SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.270 mW/g**  
 Maximum value of SAR (measured) = 0.384 mW/g



0 dB = 0.384mW/g

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Date/Time: 12/11/2009 03:50:42

## LE Cheek\_CH128

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 824.2 \text{ MHz}$ ;  $\sigma = 0.894 \text{ mho/m}$ ;  $\epsilon_r = 42.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

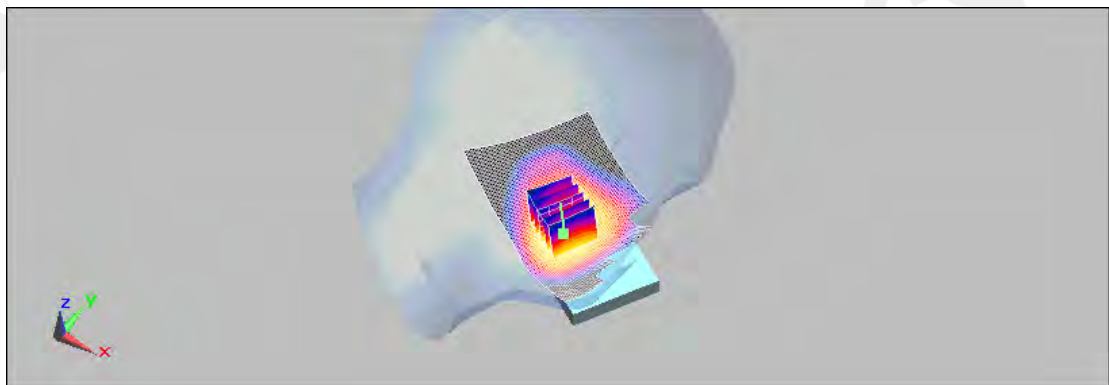
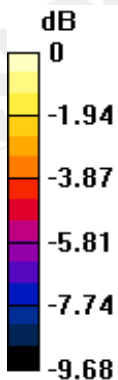
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Cheek/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.564 mW/g

**LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 10.6 V/m; Power Drift = -0.115 dB  
 Peak SAR (extrapolated) = 0.679 W/kg

**SAR(1 g) = 0.493 mW/g; SAR(10 g) = 0.356 mW/g**  
 Maximum value of SAR (measured) = 0.519 mW/g

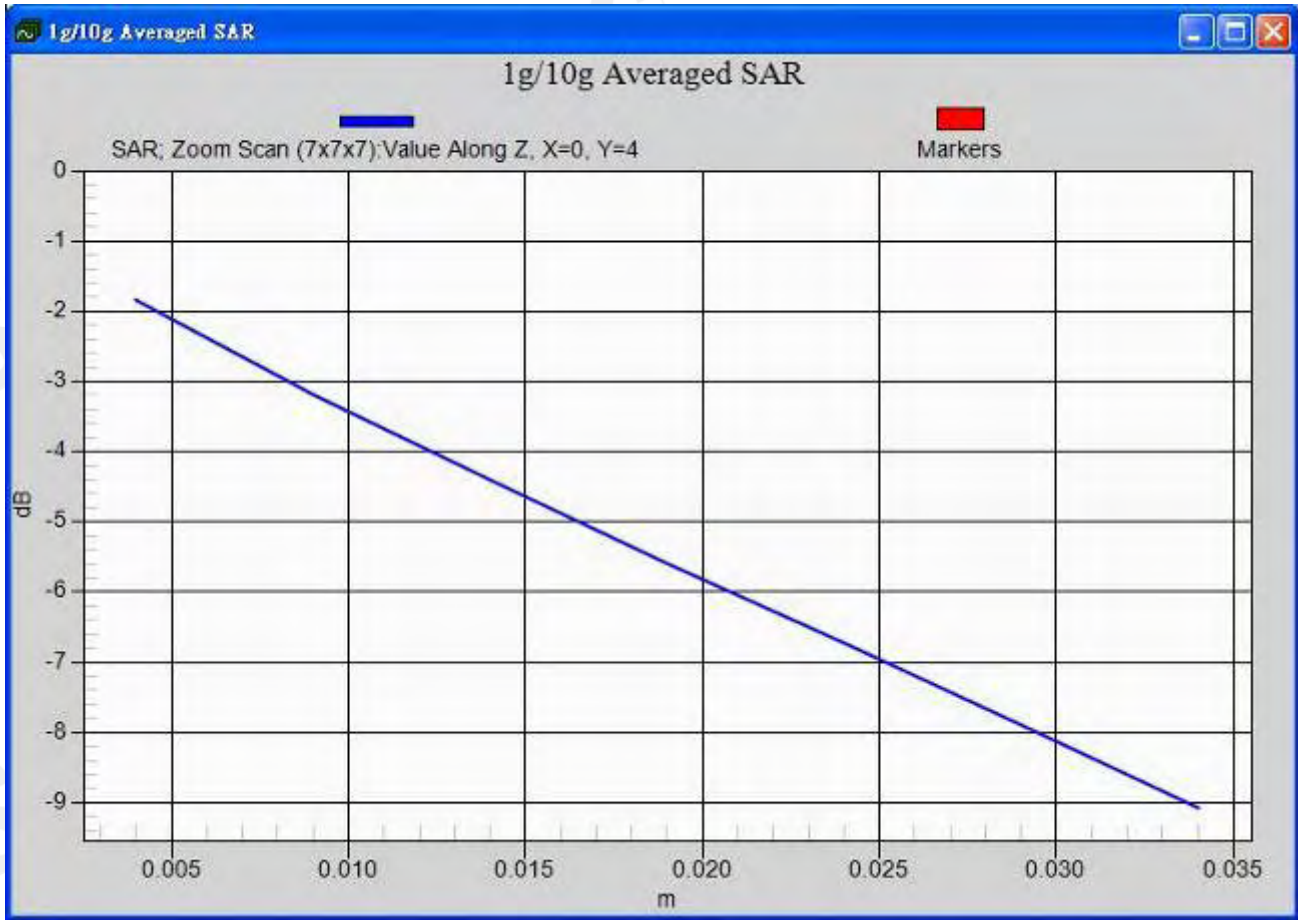


0 dB = 0.519mW/g

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Date/Time: 12/11/2009 04:13:44

## LE Cheek\_CH190

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.906 \text{ mho/m}$ ;  $\epsilon_r = 42.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Cheek/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.501 mW/g

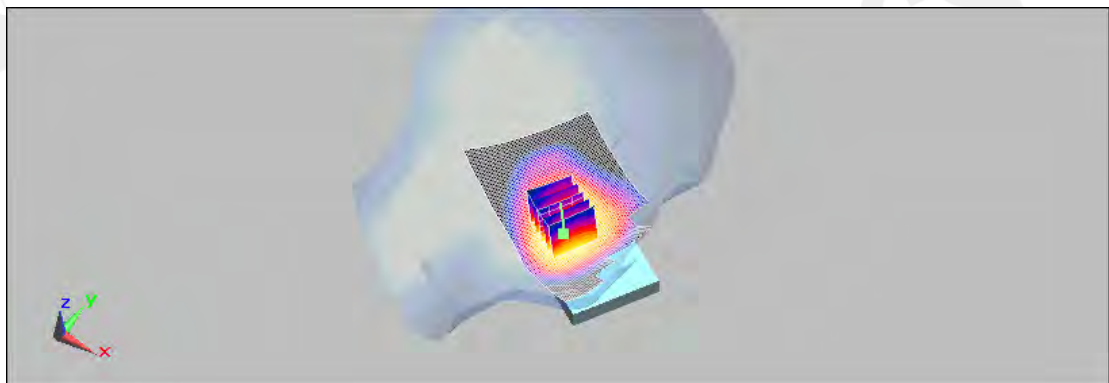
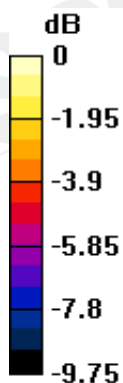
**LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.68 V/m; Power Drift = 0.093 dB

Peak SAR (extrapolated) = 0.615 W/kg

**SAR(1 g) = 0.451 mW/g; SAR(10 g) = 0.325 mW/g**

Maximum value of SAR (measured) = 0.475 mW/g



0 dB = 0.475mW/g

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Date/Time: 12/11/2009 04:37:16

## LE Cheek\_CH251

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 848.8 \text{ MHz}$ ;  $\sigma = 0.919 \text{ mho/m}$ ;  $\epsilon_r = 42.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

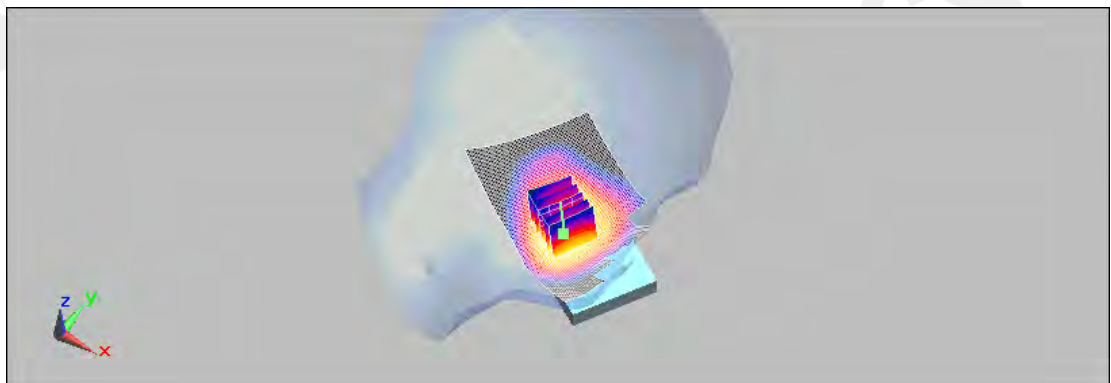
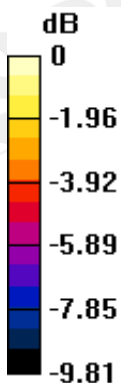
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Cheek/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.509 mW/g

**LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 9.74 V/m; Power Drift = 0.055 dB  
 Peak SAR (extrapolated) = 0.633 W/kg

**SAR(1 g) = 0.462 mW/g; SAR(10 g) = 0.333 mW/g**  
 Maximum value of SAR (measured) = 0.486 mW/g



0 dB = 0.486mW/g

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Date/Time: 12/11/2009 02:34:27

## RE Tilt\_CH128

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 824.2 \text{ MHz}$ ;  $\sigma = 0.894 \text{ mho/m}$ ;  $\epsilon_r = 42.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

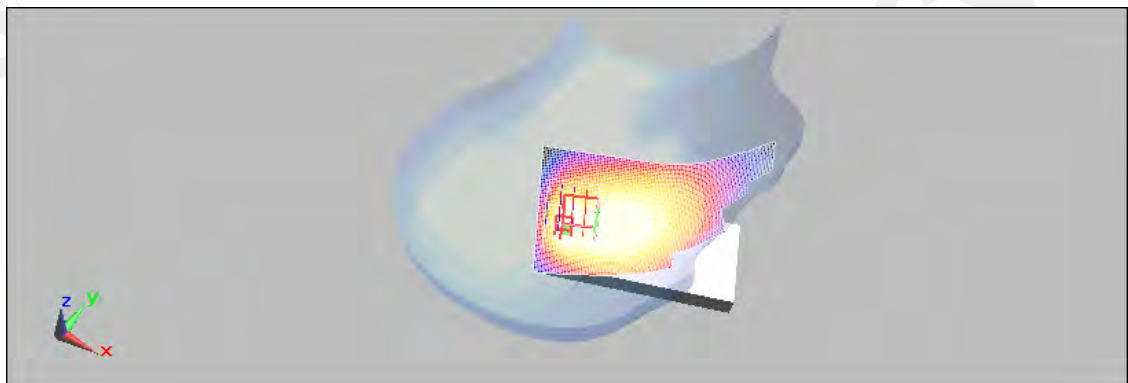
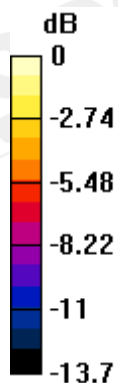
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Tilt/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.414 mW/g

**RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 18.6 V/m; Power Drift = -0.013 dB  
 Peak SAR (extrapolated) = 0.565 W/kg

**SAR(1 g) = 0.290 mW/g; SAR(10 g) = 0.205 mW/g**  
 Maximum value of SAR (measured) = 0.311 mW/g



0 dB = 0.311mW/g

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Date/Time: 12/11/2009 02:59:26

## RE Tilt\_CH190

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.906 \text{ mho/m}$ ;  $\epsilon_r = 42.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

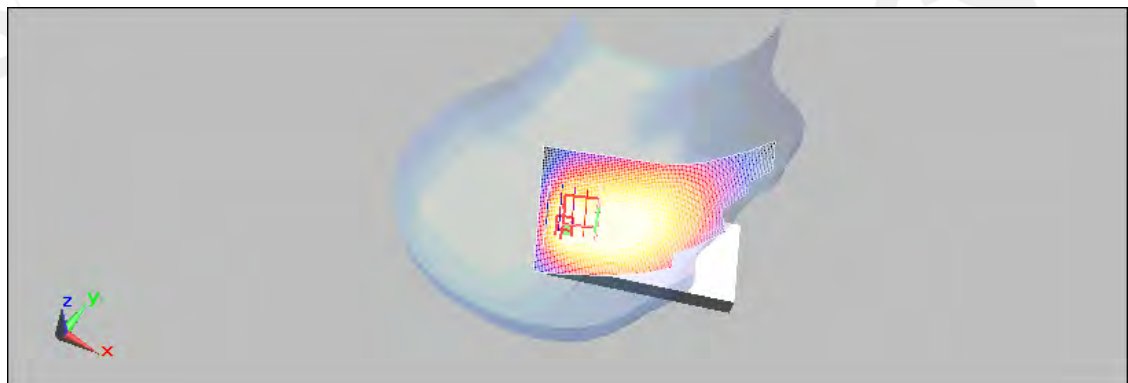
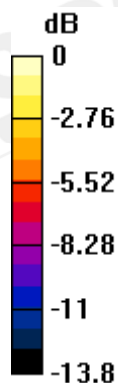
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Tilt/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.367 mW/g

**RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 17.4 V/m; Power Drift = 0.042 dB  
 Peak SAR (extrapolated) = 0.511 W/kg

**SAR(1 g) = 0.260 mW/g; SAR(10 g) = 0.185 mW/g**  
 Maximum value of SAR (measured) = 0.285 mW/g



0 dB = 0.285mW/g

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Date/Time: 12/11/2009 03:24:48

## RE Tilt\_CH251

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 848.8 \text{ MHz}$ ;  $\sigma = 0.919 \text{ mho/m}$ ;  $\epsilon_r = 42.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Tilt/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.361 mW/g

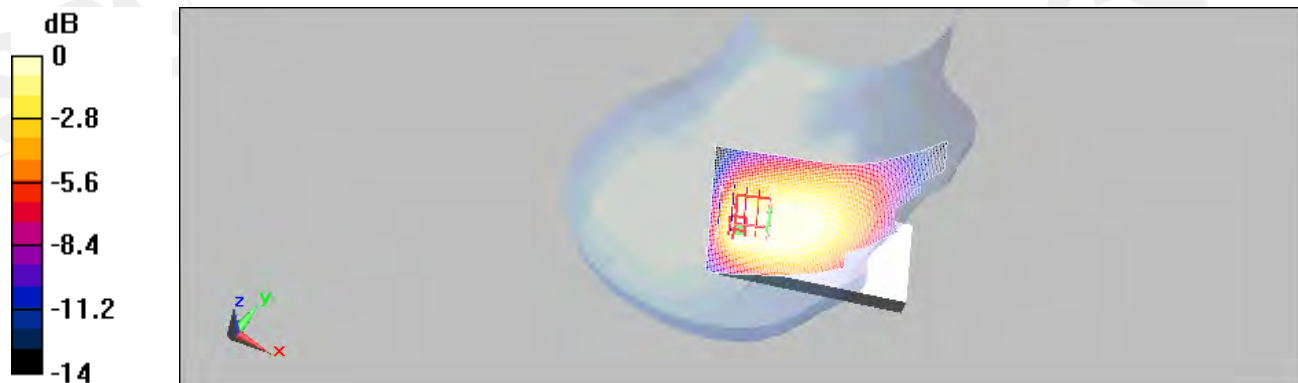
**RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 17.3 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 0.499 W/kg

**SAR(1 g) = 0.256 mW/g; SAR(10 g) = 0.183 mW/g**

Maximum value of SAR (measured) = 0.284 mW/g



0 dB = 0.284mW/g

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Date/Time: 12/11/2009 05:01:52

## LE Tilt\_CH128

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 824.2 \text{ MHz}$ ;  $\sigma = 0.894 \text{ mho/m}$ ;  $\epsilon_r = 42.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

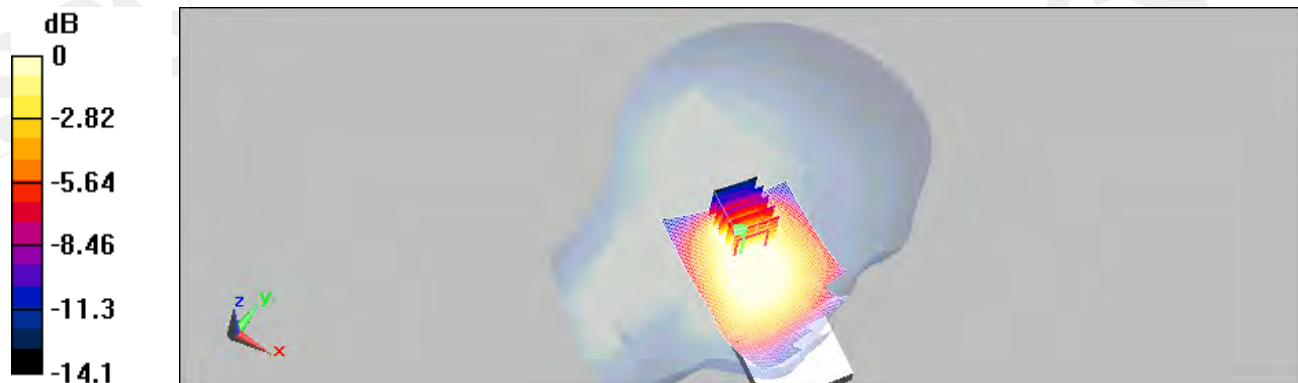
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.364 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 18.1 V/m; Power Drift = 0.033 dB  
 Peak SAR (extrapolated) = 0.522 W/kg

**SAR(1 g) = 0.268 mW/g; SAR(10 g) = 0.191 mW/g**  
 Maximum value of SAR (measured) = 0.286 mW/g



0 dB = 0.286mW/g

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Date/Time: 12/11/2009 05:26:37

## LE Tilt\_CH190

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.906 \text{ mho/m}$ ;  $\epsilon_r = 42.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

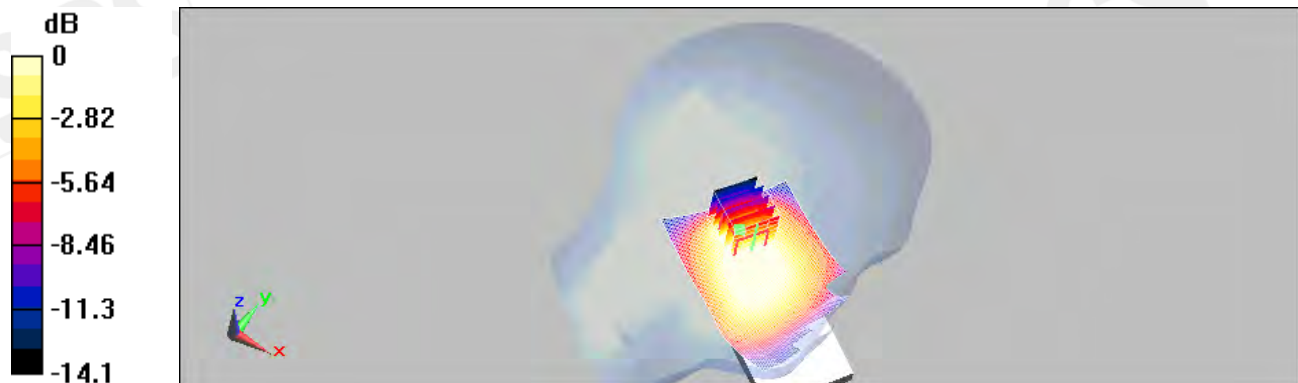
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.335 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 17.4 V/m; Power Drift = 0.023 dB  
 Peak SAR (extrapolated) = 0.489 W/kg

**SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.176 mW/g**  
 Maximum value of SAR (measured) = 0.265 mW/g



0 dB = 0.265mW/g

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Date/Time: 12/11/2009 05:48:18

## LE Tilt\_CH251

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 848.8 \text{ MHz}$ ;  $\sigma = 0.919 \text{ mho/m}$ ;  $\epsilon_r = 42.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

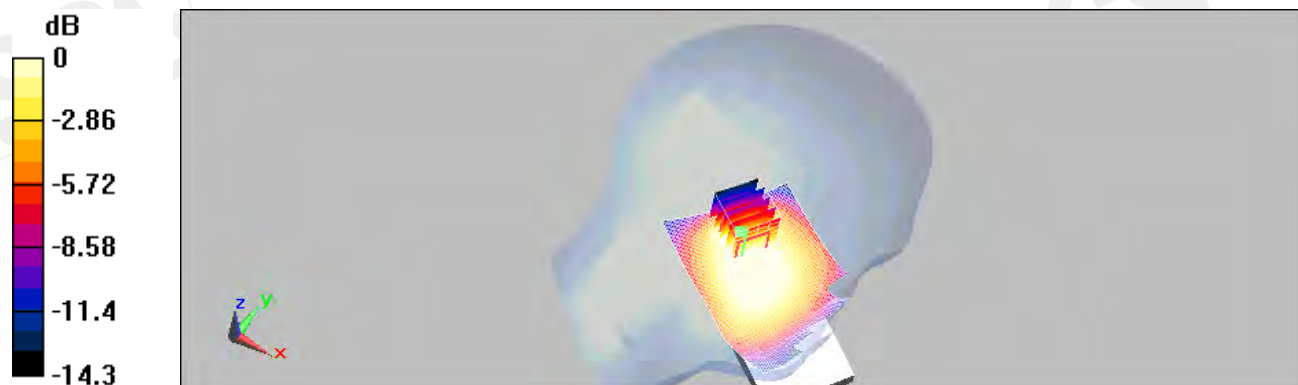
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.335 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 17.2 V/m; Power Drift = 0.066 dB  
 Peak SAR (extrapolated) = 0.485 W/kg

**SAR(1 g) = 0.248 mW/g; SAR(10 g) = 0.177 mW/g**  
 Maximum value of SAR (measured) = 0.269 mW/g



0 dB = 0.269mW/g

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Date/Time: 12/12/2009 08:35:30

## BODY\_CH128

### DUT: PB99110;

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

Medium: Body 900 Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 1.01$  mho/m;

$\epsilon_r = 54.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.981 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.951 mW/g; SAR(10 g) = 0.679 mW/g**

Maximum value of SAR (measured) = 0.962 mW/g

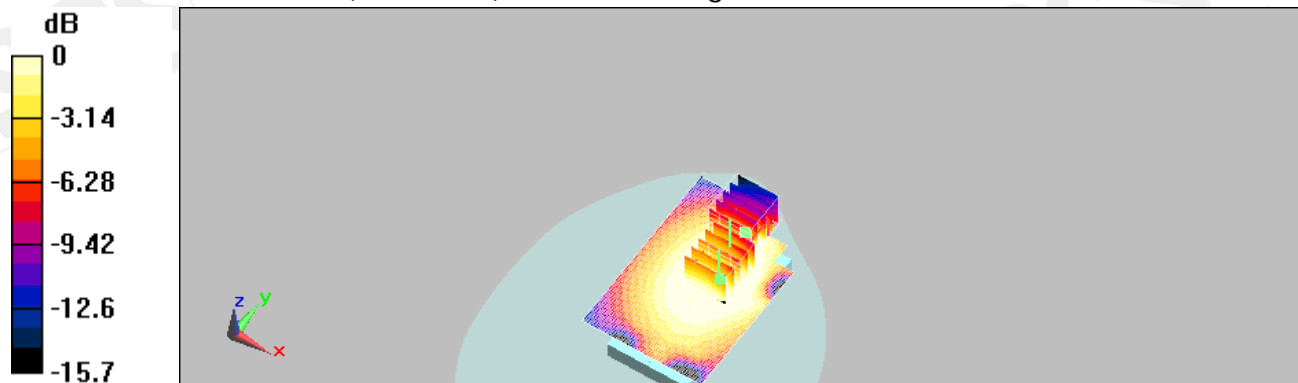
**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 0.963 W/kg

**SAR(1 g) = 0.666 mW/g; SAR(10 g) = 0.419 mW/g**

Maximum value of SAR (measured) = 0.705 mW/g



0 dB = 0.705mW/g

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Date/Time: 12/12/2009 09:01:52

## BODY\_CH190

DUT: PB99110;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4  
 Medium: Body 900 Medium parameters used:  $f = 837 \text{ MHz}$ ;  $\sigma = 1.02 \text{ mho/m}$ ;  $\epsilon_r = 54.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

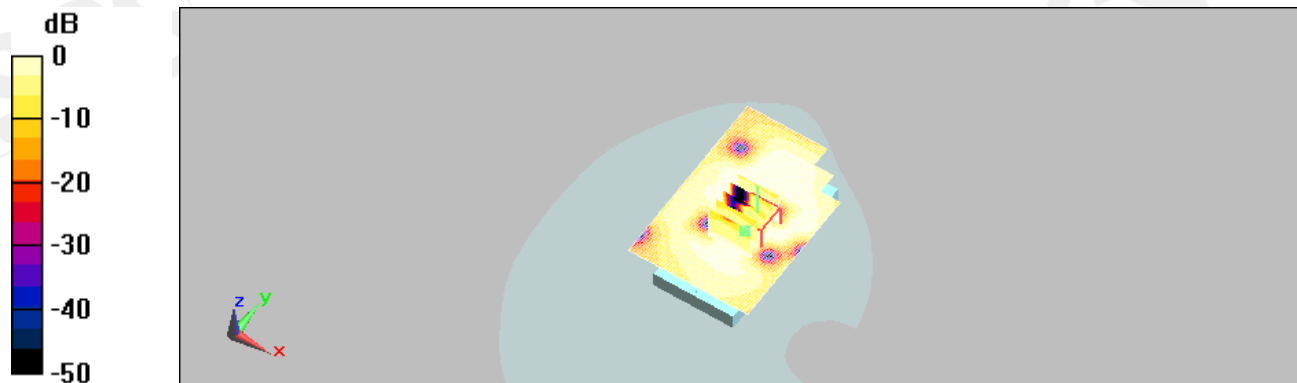
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 2.05 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 14.3 V/m; Power Drift = 0.012 dB  
 Peak SAR (extrapolated) = 1.15 W/kg

**SAR(1 g) = 0.812 mW/g; SAR(10 g) = 0.481 mW/g**  
 Maximum value of SAR (measured) = 0.813 mW/g



0 dB = 0.813mW/g

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Date/Time: 12/12/2009 09:25:02

## BODY\_CH251

DUT: PB99110;

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

Medium: Body 900 Medium parameters used:  $f = 849 \text{ MHz}$ ;  $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.584 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 13.8 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 1.11 W/kg

**SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.235 mW/g**

Maximum value of SAR (measured) = 0.501 mW/g

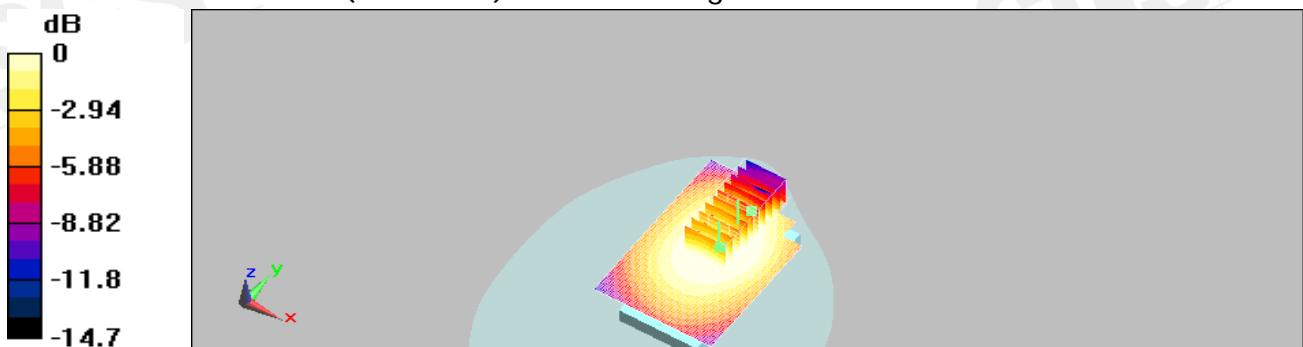
**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 13.8 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 2.1 W/kg

**SAR(1 g) = 0.618 mW/g; SAR(10 g) = 0.304 mW/g**

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



0 dB = 0.571mW/g

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Date/Time: 12/12/2009 13:47:31

## BODY\_CH128\_repeated for EUT front to phantom

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:4  
 Medium: Body 900 Medium parameters used (interpolated):  $f = 824.2 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  
 $\epsilon_r = 54.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

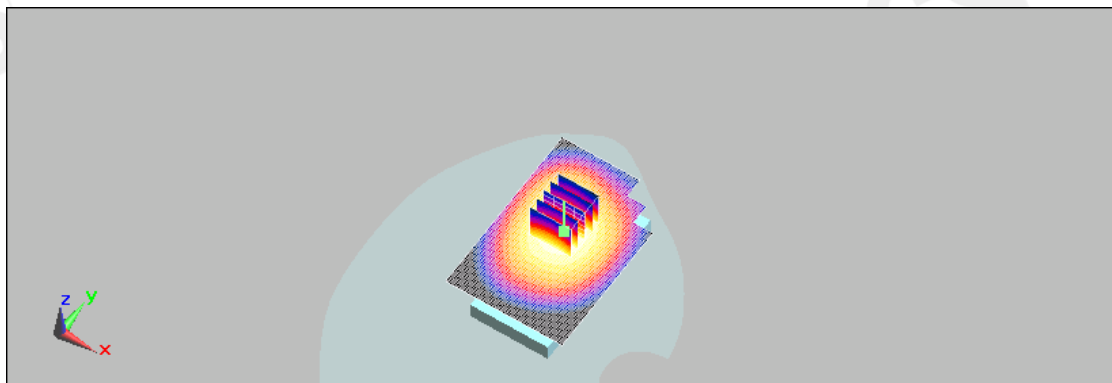
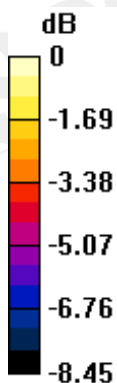
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.516 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  
 $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 8.48 V/m; Power Drift = 0.022 dB  
 Peak SAR (extrapolated) = 0.632 W/kg

**SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.368 mW/g**  
 Maximum value of SAR (measured) = 0.513 mW/g



0 dB = 0.513mW/g

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Date/Time: 12/12/2009 14:12:02

## BODY\_CH128\_repeated with Memory card

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:4  
 Medium: Body 900 Medium parameters used (interpolated):  $f = 824.2 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  
 $\epsilon_r = 54.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  
 $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.7 V/m; Power Drift = -0.182 dB

Peak SAR (extrapolated) = 1.3 W/kg

**SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.744 mW/g**

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

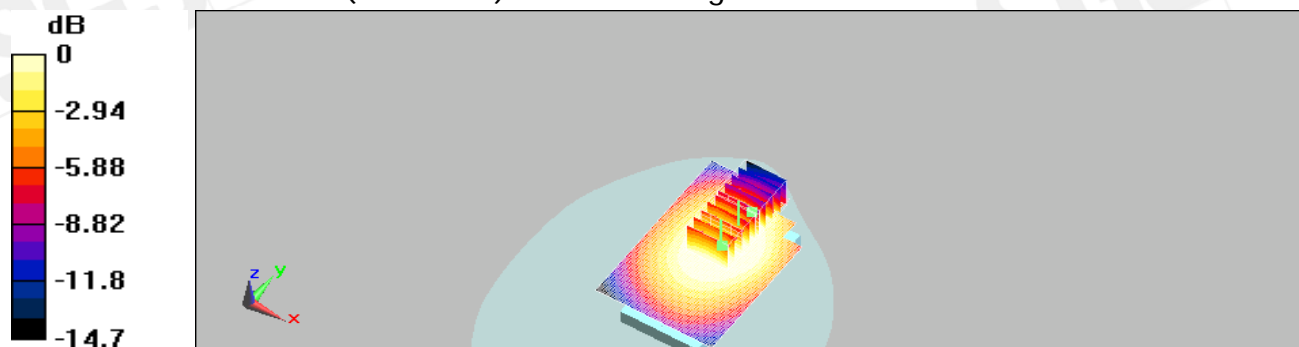
**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  
 $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.7 V/m; Power Drift = -0.182 dB

Peak SAR (extrapolated) = 1.5 W/kg

**SAR(1 g) = 0.776 mW/g; SAR(10 g) = 0.510 mW/g**

Maximum value of SAR (measured) = 0.841 mW/g



0 dB = 0.841mW/g

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Date/Time: 12/12/2009 14:37:57

## BODY\_CH128\_repeated with Merry headset

### DUT: PB99110;

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

Medium: Body 900 Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 1.01$  mho/m;  
 $\epsilon_r = 54.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

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

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.01 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.800 mW/g**

Maximum value of SAR (measured) = 1.16 mW/g

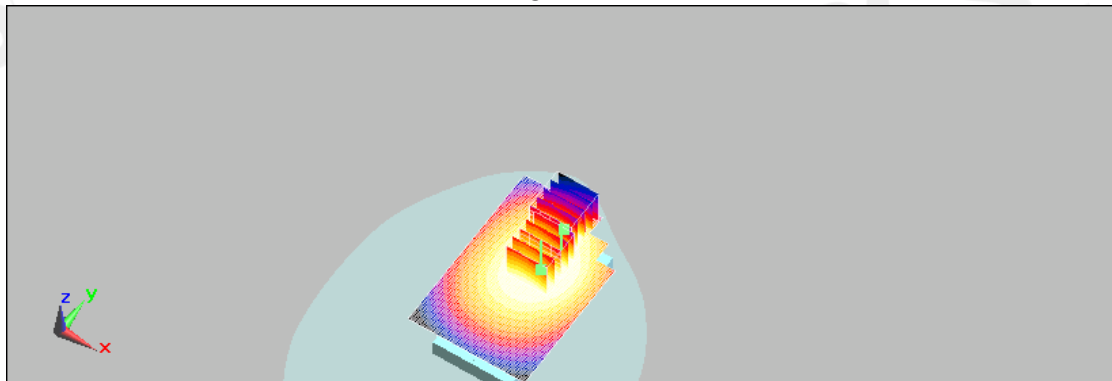
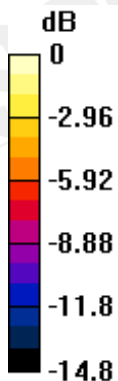
**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.01 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 1.29 W/kg

**SAR(1 g) = 0.875 mW/g; SAR(10 g) = 0.578 mW/g**

Maximum value of SAR (measured) = 0.930 mW/g

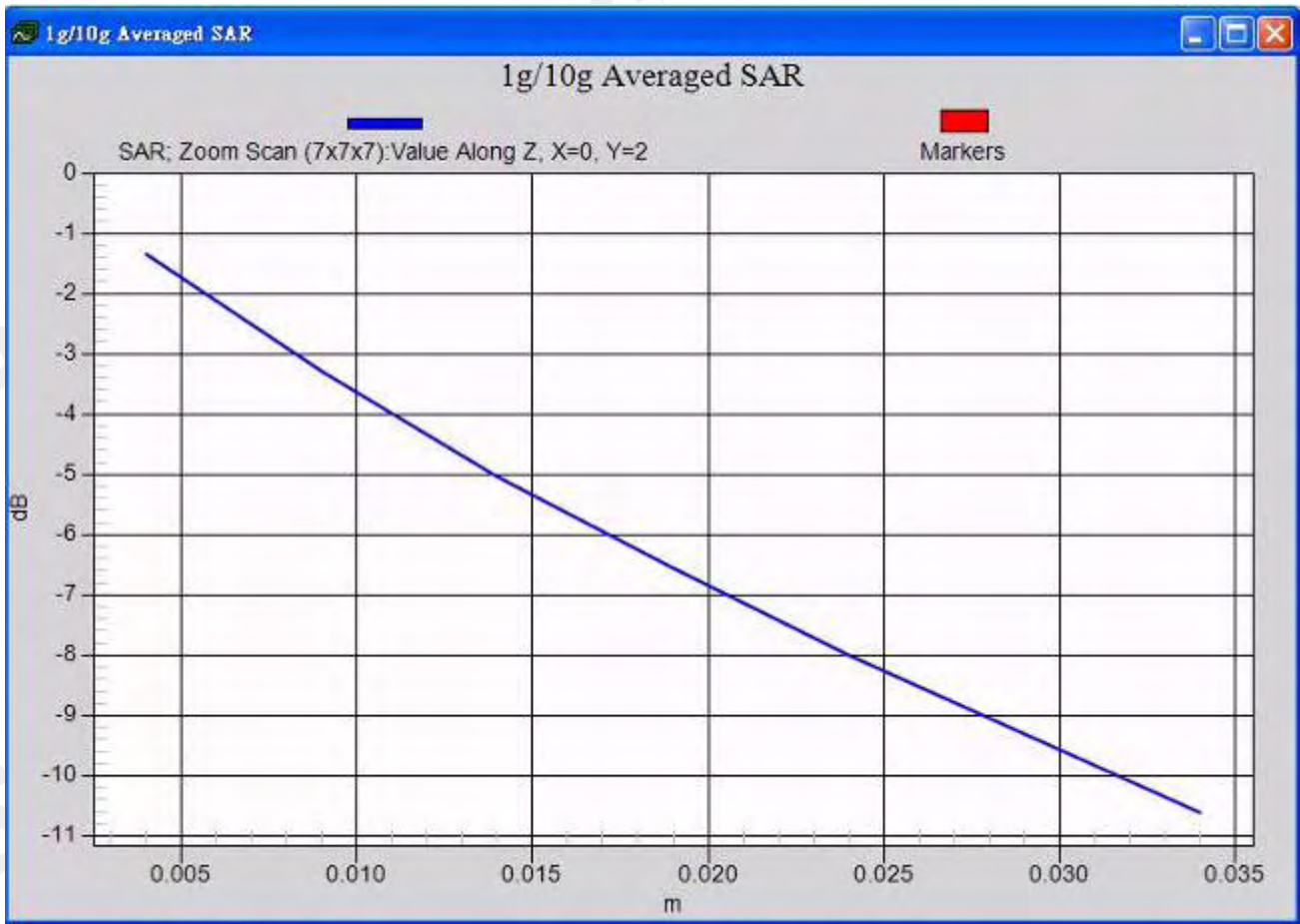


0 dB = 0.930mW/g

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Date/Time: 12/12/2009 15:04:26

## BODY\_CH128\_repeated with FORMOSA Battery

### DUT: PB99110;

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

 Medium: Body 900 Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 1.01$  mho/m;

 $\epsilon_r = 54.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

- 
- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

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

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.174 dB

Peak SAR (extrapolated) = 1.3 W/kg

**SAR(1 g) = 0.996 mW/g; SAR(10 g) = 0.732 mW/g**

Maximum value of SAR (measured) = 1.05 mW/g

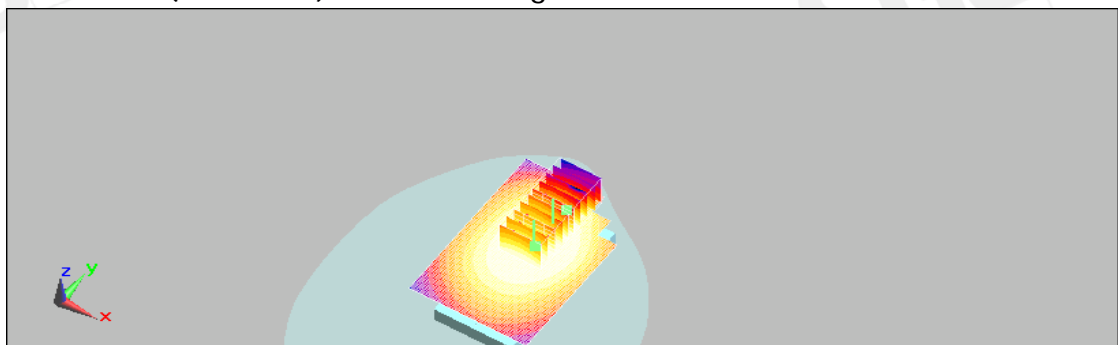
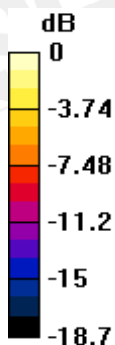
**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.174 dB

Peak SAR (extrapolated) = 1.11 W/kg

**SAR(1 g) = 0.752 mW/g; SAR(10 g) = 0.492 mW/g**

Maximum value of SAR (measured) = 0.817 mW/g



0 dB = 0.817mW/g

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Date/Time: 12/12/2009 15:32:31

## BODY\_CH128\_repeated with EGPRS mode

**DUT: PB99110;**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:4  
 Medium: Body 900 Medium parameters used (interpolated):  $f = 824.2 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  
 $\epsilon_r = 54.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

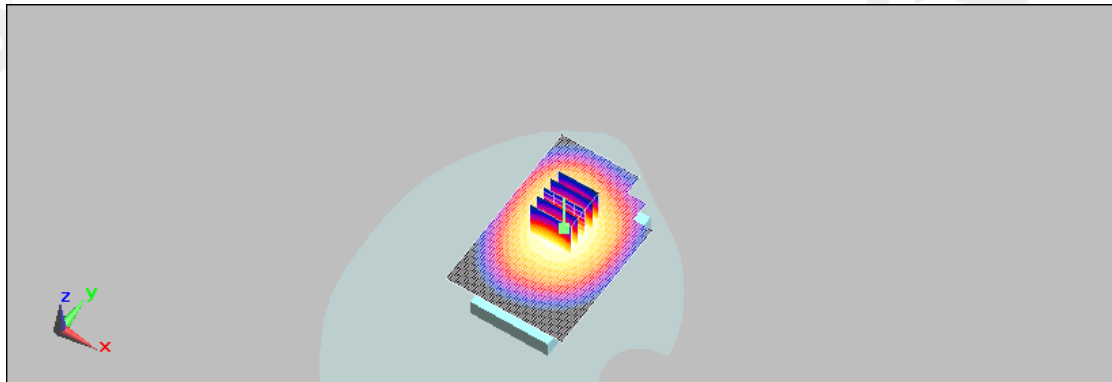
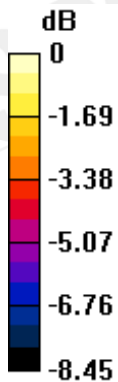
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.516 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  
 $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 8.48 V/m; Power Drift = 0.022 dB  
 Peak SAR (extrapolated) = 0.632 W/kg

**SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.368 mW/g**  
 Maximum value of SAR (measured) = 0.513 mW/g



0 dB = 0.513mW/g

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Date/Time: 12/11/2009 13:14:31

## RE Cheek\_CH512

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD 1900 Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

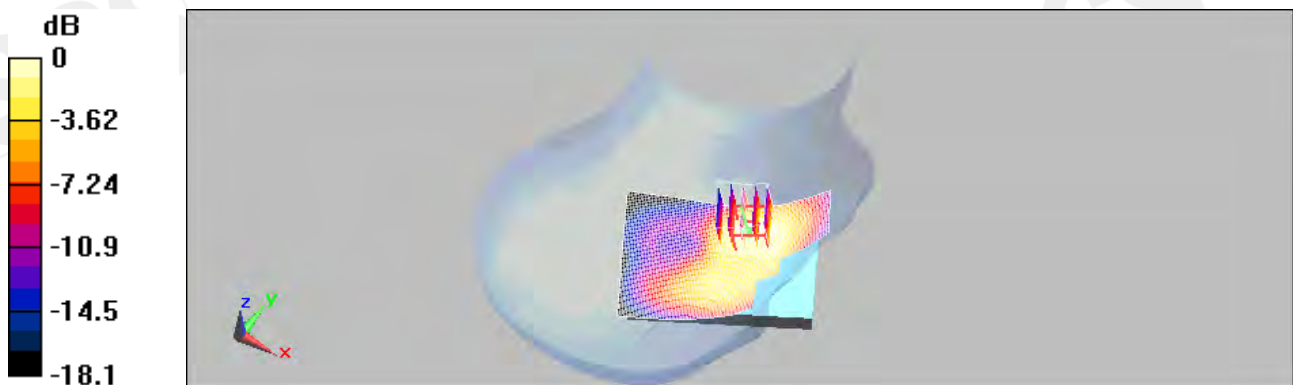
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.507 mW/g

**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 5.08 V/m; Power Drift = 0.097 dB  
 Peak SAR (extrapolated) = 0.891 W/kg

**SAR(1 g) = 0.523 mW/g; SAR(10 g) = 0.302 mW/g**  
 Maximum value of SAR (measured) = 0.590 mW/g



0 dB = 0.590mW/g

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Date/Time: 12/11/2009 13:38:15

## RE Cheek\_CH661

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD 1900 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.47 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

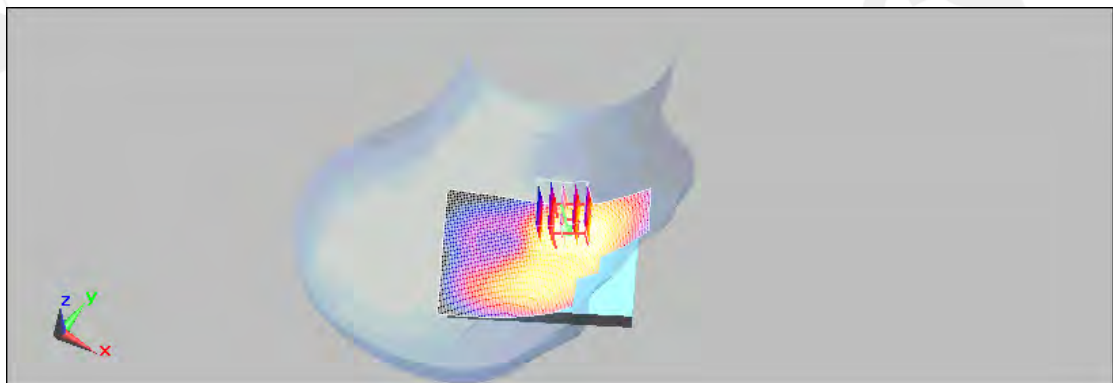
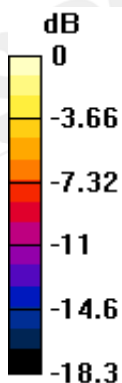
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.577 mW/g

**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 5.21 V/m; Power Drift = 0.131 dB  
 Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.605 mW/g; SAR(10 g) = 0.340 mW/g**  
 Maximum value of SAR (measured) = 0.688 mW/g

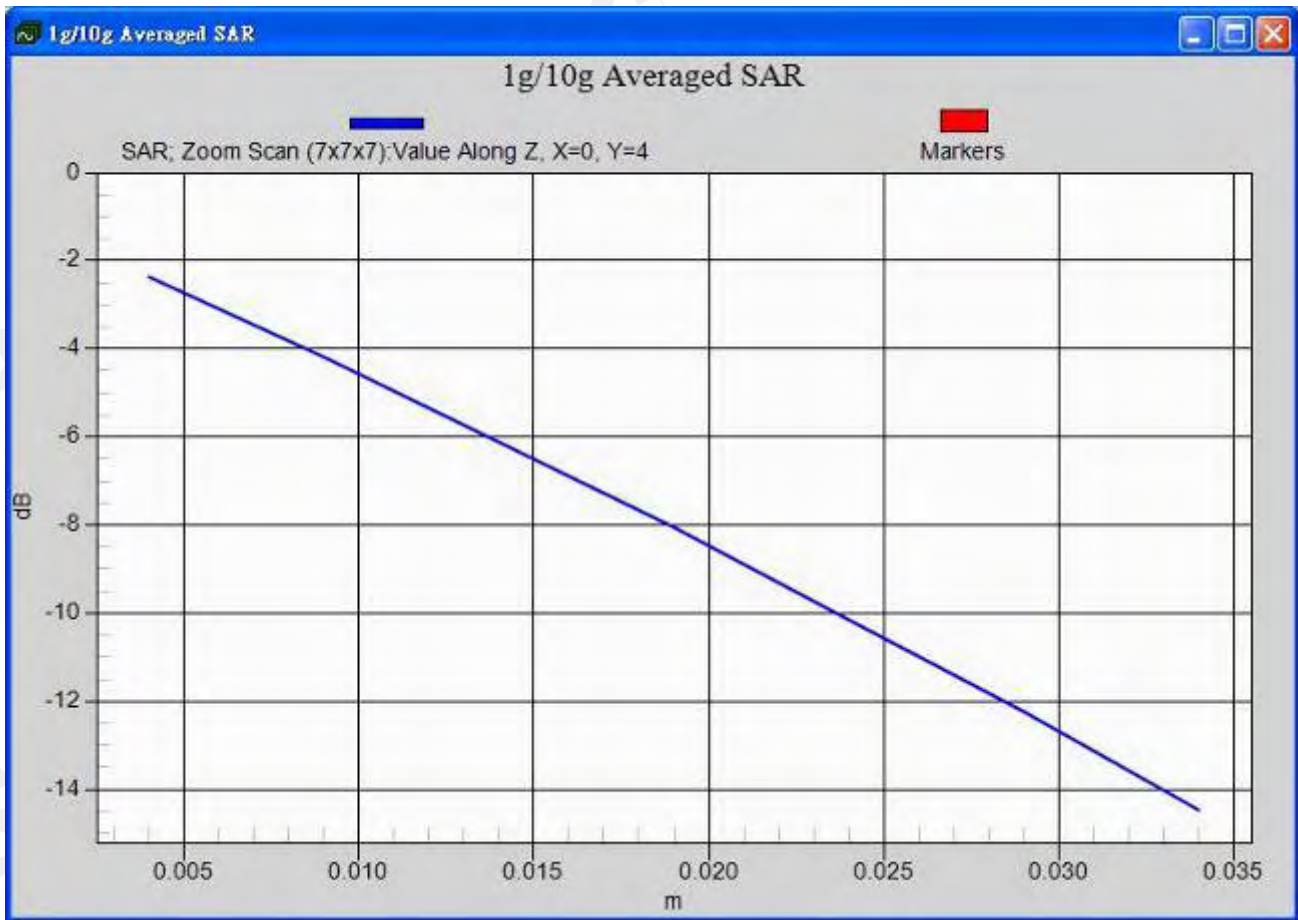


0 dB = 0.688mW/g

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Date/Time: 12/11/2009 14:02:39

## RE Cheek\_CH810

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD 1900 Medium parameters used:  $f = 1910 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 38.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

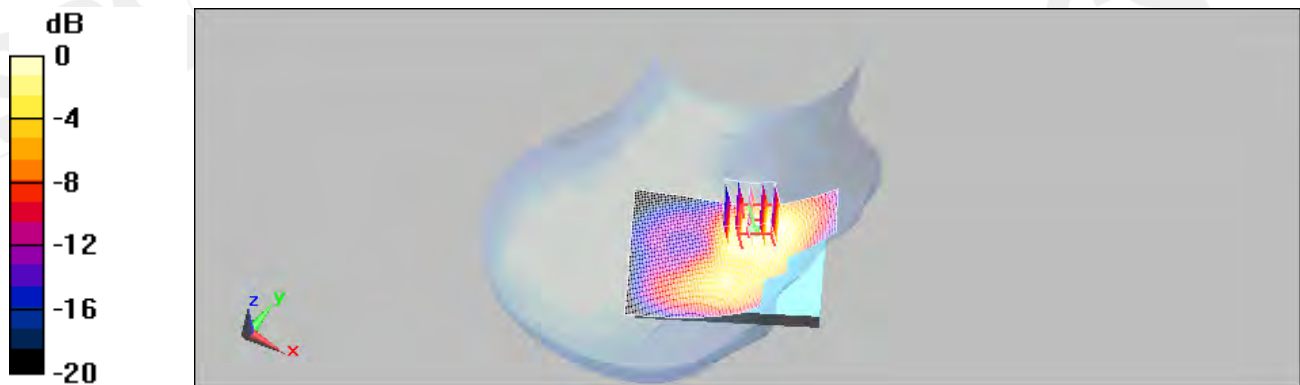
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.478 mW/g

**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 4.84 V/m; Power Drift = 0.046 dB  
 Peak SAR (extrapolated) = 0.906 W/kg

**SAR(1 g) = 0.510 mW/g; SAR(10 g) = 0.281 mW/g**  
 Maximum value of SAR (measured) = 0.570 mW/g



0 dB = 0.570mW/g

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Date/Time: 12/11/2009 15:39:39

## LE Cheek\_CH512

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD 1900 Medium parameters used (interpolated):  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

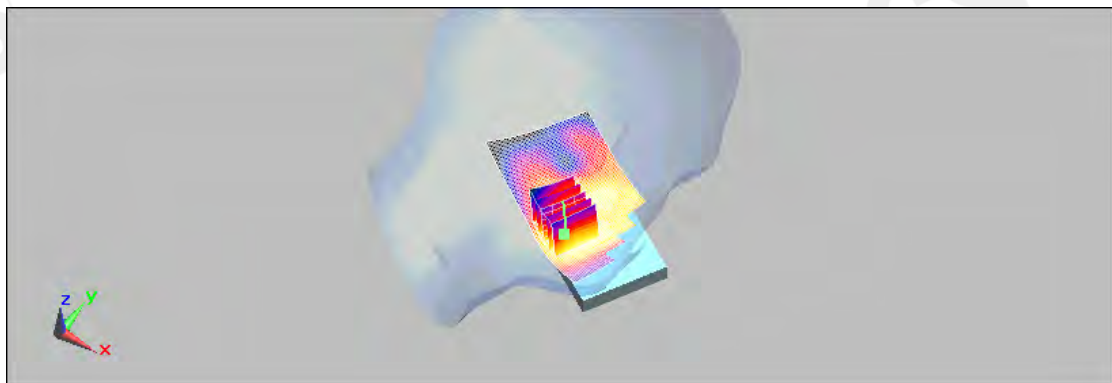
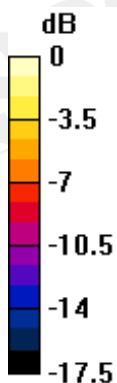
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.475 mW/g

**LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 3.9 V/m; Power Drift = 0.167 dB  
 Peak SAR (extrapolated) = 0.608 W/kg

**SAR(1 g) = 0.405 mW/g; SAR(10 g) = 0.262 mW/g**  
 Maximum value of SAR (measured) = 0.436 mW/g



0 dB = 0.436mW/g

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Date/Time: 12/11/2009 16:02:46

## LE Cheek\_CH661

**DUT: PB99110;**

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

Medium: HEAD 1900 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.47 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.522 mW/g

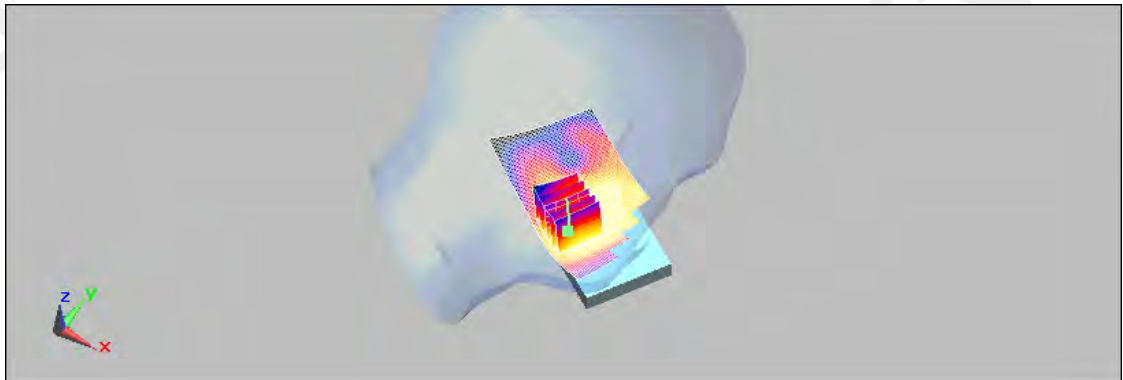
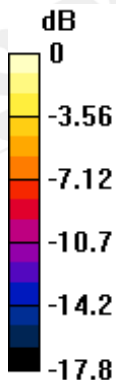
**LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 4.16 V/m; Power Drift = 0.102 dB

Peak SAR (extrapolated) = 0.671 W/kg

**SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.287 mW/g**

Maximum value of SAR (measured) = 0.482 mW/g



0 dB = 0.482mW/g

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Date/Time: 12/11/2009 16:24:14

## LE Cheek\_CH810

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD 1900 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

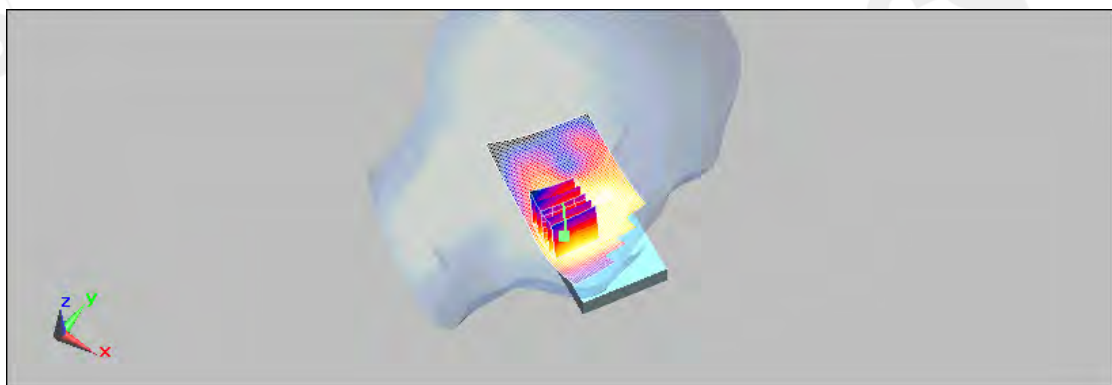
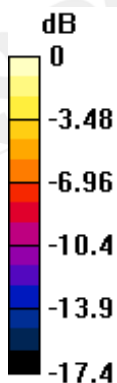
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Cheek/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.390 mW/g

**LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 3.63 V/m; Power Drift = 0.208 dB  
 Peak SAR (extrapolated) = 0.510 W/kg

**SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.214 mW/g**  
 Maximum value of SAR (measured) = 0.360 mW/g



0 dB = 0.360mW/g

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Date/Time: 12/11/2009 14:25:19

## RE Tilt\_CH512

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD 1900 Medium parameters used (interpolated):  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

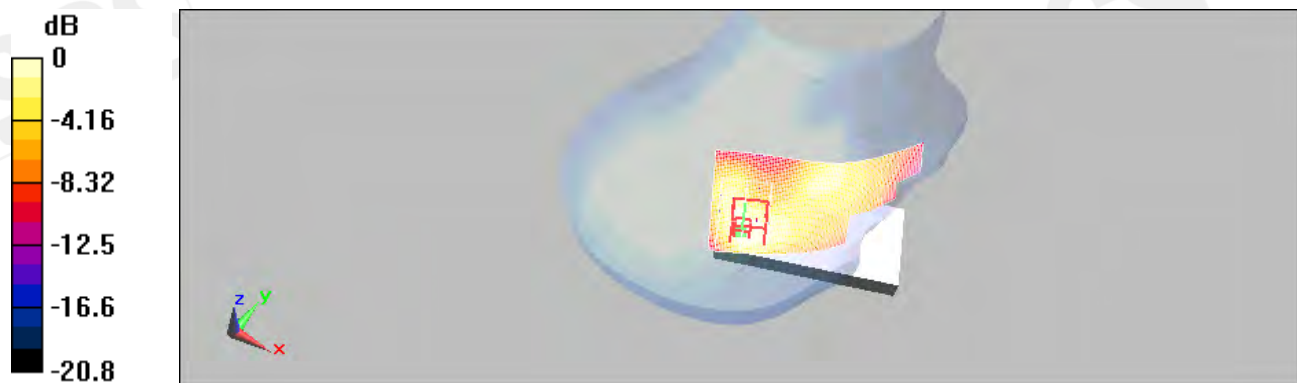
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.251 mW/g

**RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 10.1 V/m; Power Drift = 0.010 dB  
 Peak SAR (extrapolated) = 0.307 W/kg

**SAR(1 g) = 0.190 mW/g; SAR(10 g) = 0.115 mW/g**  
 Maximum value of SAR (measured) = 0.207 mW/g



0 dB = 0.207mW/g

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Date/Time: 12/11/2009 14:49:06

## RE Tilt\_CH661

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD 1900 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.47 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

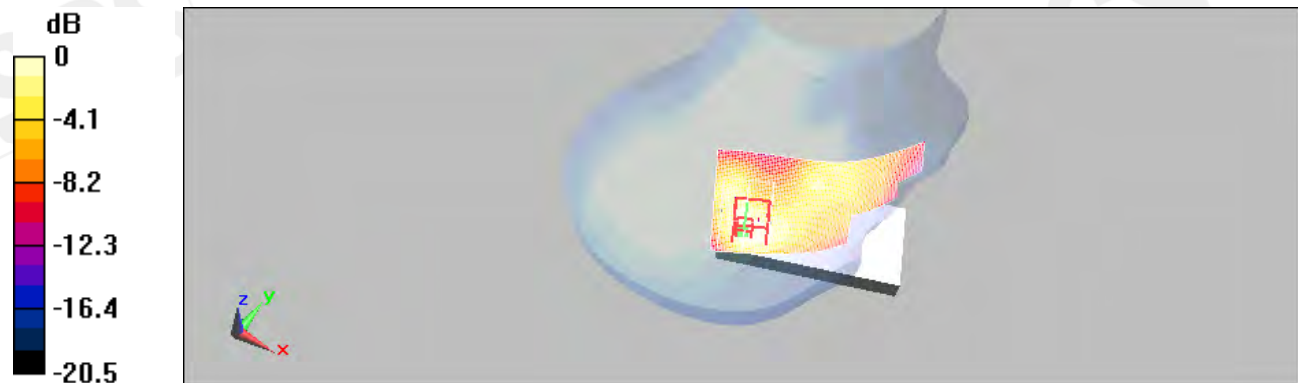
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.299 mW/g

**RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 10.8 V/m; Power Drift = 0.094 dB  
 Peak SAR (extrapolated) = 0.369 W/kg

**SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.135 mW/g**  
 Maximum value of SAR (measured) = 0.247 mW/g



0 dB = 0.247mW/g

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Date/Time: 12/11/2009 15:13:10

## RE Tilt\_CH810

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD 1900 Medium parameters used:  $f = 1910 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 38.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

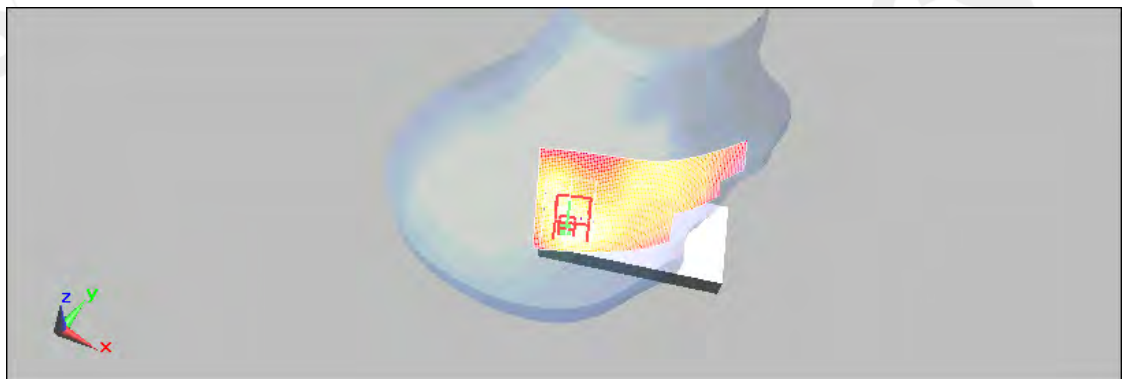
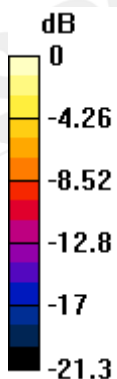
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.245 mW/g

**RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 10.1 V/m; Power Drift = -0.082 dB  
 Peak SAR (extrapolated) = 0.303 W/kg

**SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.110 mW/g**  
 Maximum value of SAR (measured) = 0.203 mW/g



0 dB = 0.203mW/g

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Date/Time: 12/11/2009 16:49:03

## LE Tilt\_CH512

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD 1900 Medium parameters used (interpolated):  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

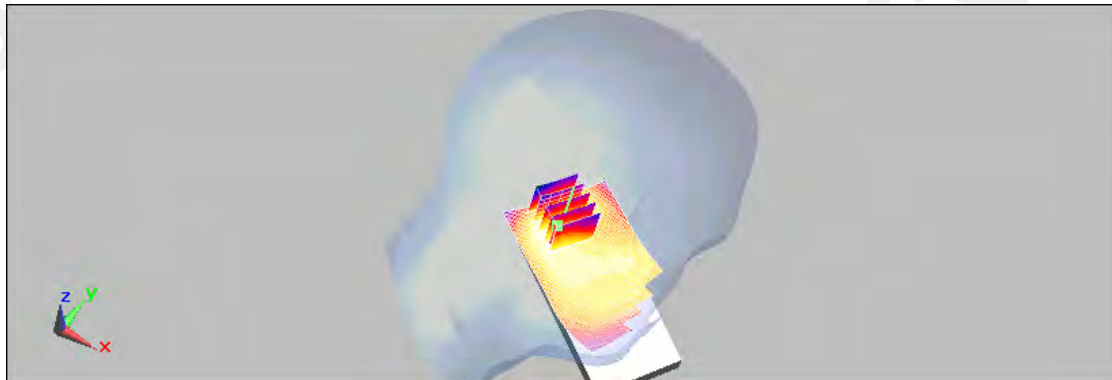
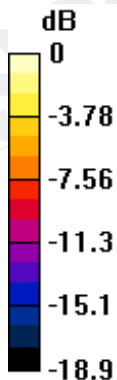
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.164 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  
 $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 11.1 V/m; Power Drift = 0.041 dB  
 Peak SAR (extrapolated) = 0.250 W/kg

**SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.089 mW/g**  
 Maximum value of SAR (measured) = 0.171 mW/g



0 dB = 0.171mW/g

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Date/Time: 12/11/2009 17:14:31

## LE Tilt\_CH661

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD 1900 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.47 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

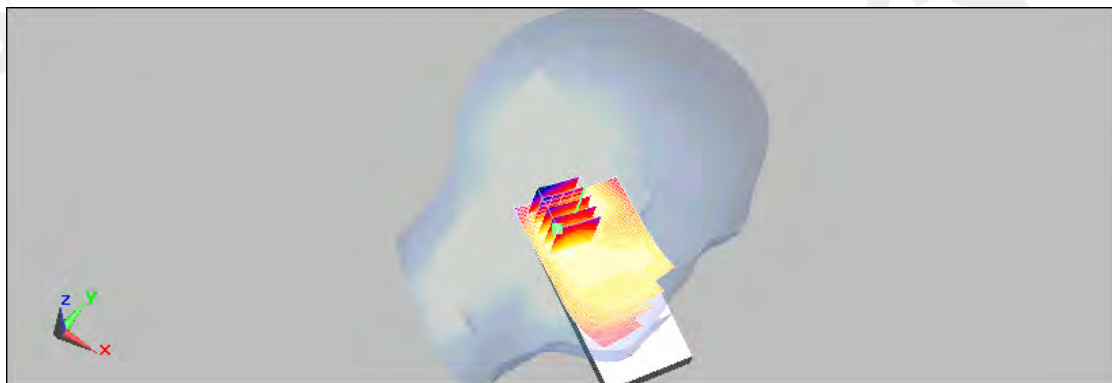
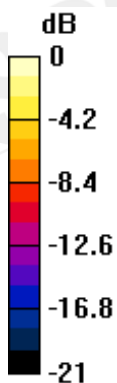
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.187 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 11.6 V/m; Power Drift = -0.00452 dB  
 Peak SAR (extrapolated) = 0.264 W/kg

**SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.100 mW/g**  
 Maximum value of SAR (measured) = 0.180 mW/g



0 dB = 0.180mW/g

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Date/Time: 12/11/2009 17:38:48 PM

## LE Tilt\_CH810

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3  
 Medium: HEAD 1900 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

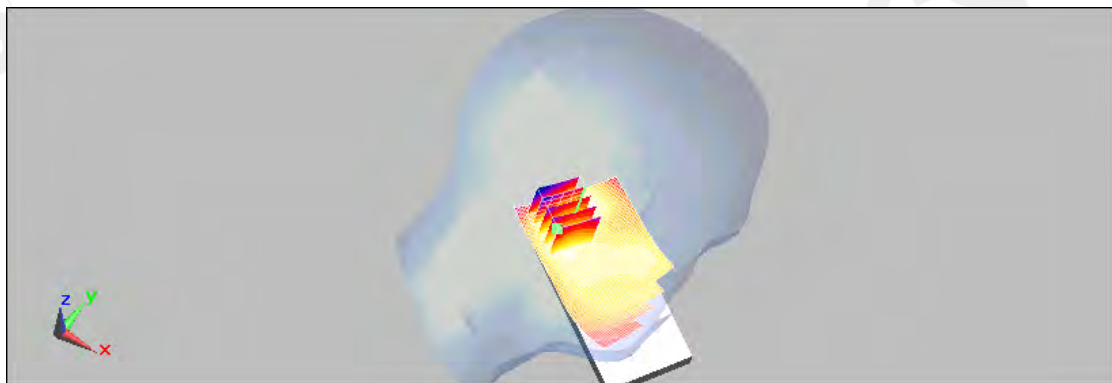
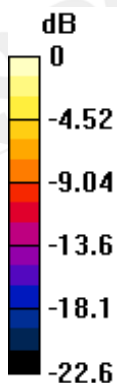
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.147 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 10.3 V/m; Power Drift = -0.038 dB  
 Peak SAR (extrapolated) = 0.203 W/kg

**SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.076 mW/g**  
 Maximum value of SAR (measured) = 0.138 mW/g



0 dB = 0.138mW/g

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Date/Time: 12/12/2009 01:43:06

## BODY\_CH512

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4  
 Medium: Body 1900 Medium parameters used (interpolated):  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.53 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

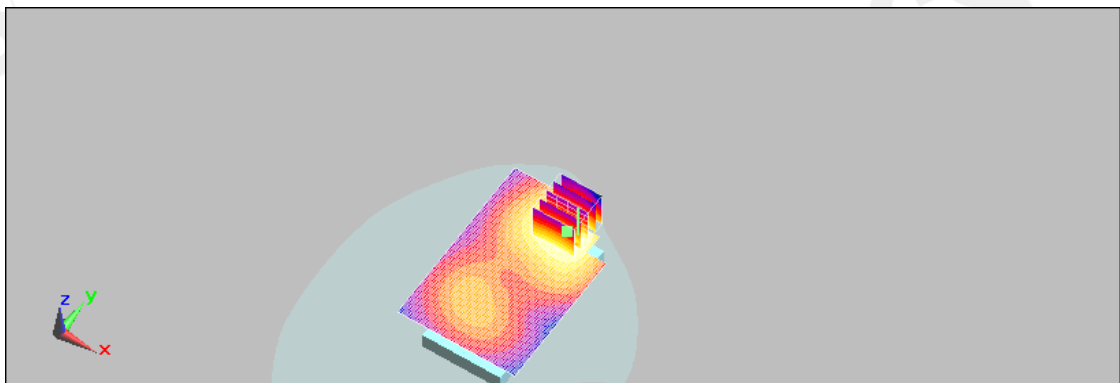
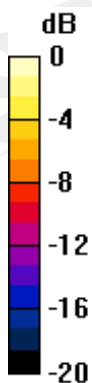
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.798 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 8.02 V/m; Power Drift = 0.029 dB  
 Peak SAR (extrapolated) = 0.997 W/kg

**SAR(1 g) = 0.631 mW/g; SAR(10 g) = 0.371 mW/g**  
 Maximum value of SAR (measured) = 0.741 mW/g



0 dB = 0.741mW/g

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Date/Time: 12/12/2009 02:09:05

## BODY\_CH661

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4  
 Medium: Body 1900 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.56 \text{ mho/m}$ ;  $\epsilon_r = 52.6$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

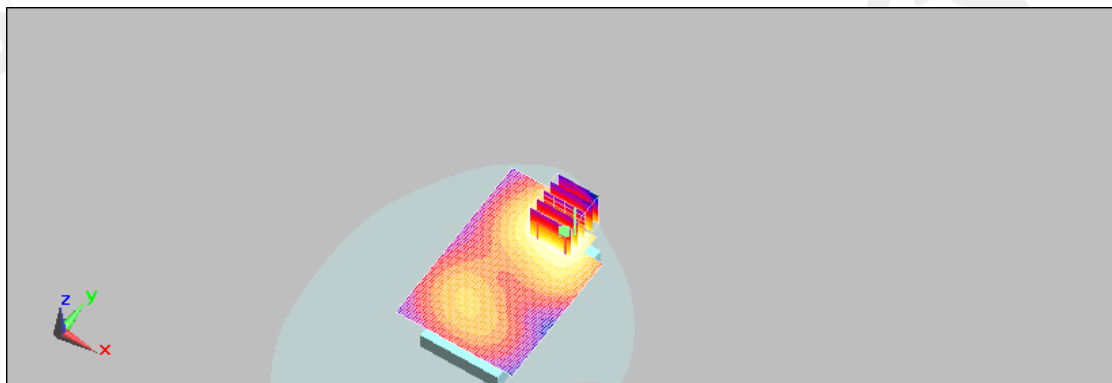
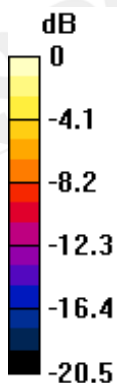
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.821 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 8.69 V/m; Power Drift = 0.035 dB  
 Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.716 mW/g; SAR(10 g) = 0.425 mW/g**  
 Maximum value of SAR (measured) = 0.747 mW/g



0 dB = 0.747mW/g

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Date/Time: 12/12/2009 02:34:04

## BODY\_CH810

**DUT: PB99110;**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4  
 Medium: Body 1900 Medium parameters used:  $f = 1910 \text{ MHz}$ ;  $\sigma = 1.6 \text{ mho/m}$ ;  $\epsilon_r = 52.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

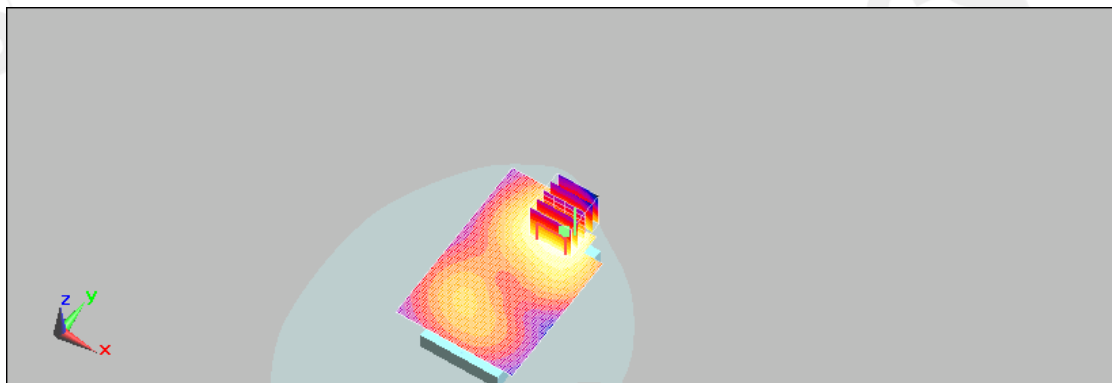
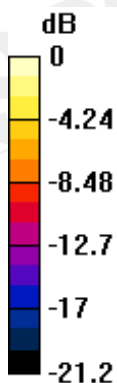
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx = 15\text{mm}$ ,  $dy = 15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.664 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx = 8\text{mm}$ ,  $dy = 8\text{mm}$ ,  $dz = 5\text{mm}$   
 Reference Value = 7.64 V/m; Power Drift = 0.023 dB  
 Peak SAR (extrapolated) = 0.989 W/kg

**SAR(1 g) = 0.581 mW/g; SAR(10 g) = 0.344 mW/g**  
 Maximum value of SAR (measured) = 0.603 mW/g



0 dB = 0.603mW/g

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Date/Time: 12/11/2009 18:05:19

## RE Cheek\_CH9262

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
 Medium: HEAD 1900 Medium parameters used (interpolated):  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.878 mW/g

**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 5.21 V/m; Power Drift = 0.111 dB

Peak SAR (extrapolated) = 1.49 W/kg

**SAR(1 g) = 0.886 mW/g; SAR(10 g) = 0.518 mW/g**

Maximum value of SAR (measured) = 0.945 mW/g

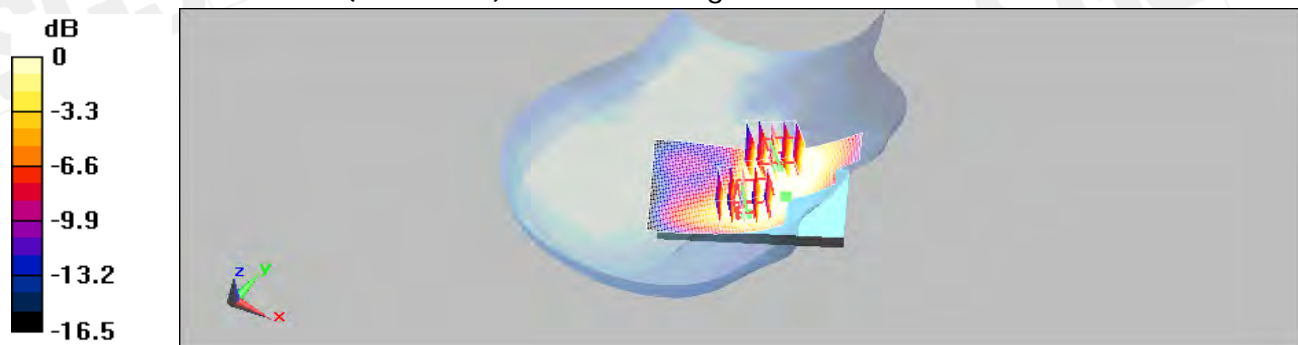
**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 5.21 V/m; Power Drift = 0.111 dB

Peak SAR (extrapolated) = 0.859 W/kg

**SAR(1 g) = 0.559 mW/g; SAR(10 g) = 0.367 mW/g**

Maximum value of SAR (measured) = 0.615 mW/g



0 dB = 0.615mW/g

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Date/Time: 12/11/2009 18:28:48

## RE Cheek\_CH9400

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1  
 Medium: HEAD 1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

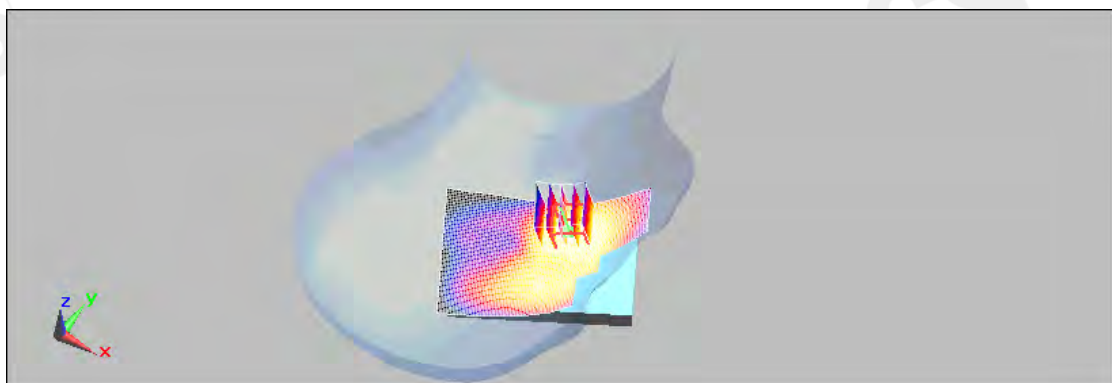
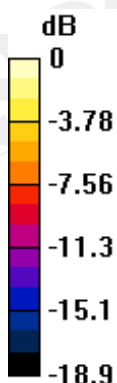
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 1.08 mW/g

**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 5.28 V/m; Power Drift = 0.188 dB  
 Peak SAR (extrapolated) = 1.58 W/kg

**SAR(1 g) = 0.913 mW/g; SAR(10 g) = 0.526 mW/g**  
 Maximum value of SAR (measured) = 1.04 mW/g



0 dB = 1.04mW/g

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Date/Time: 12/11/2009 18:53:10

## RE Cheek\_CH9538

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
 Medium: HEAD 1900 Medium parameters used:  $f = 1908 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 38.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

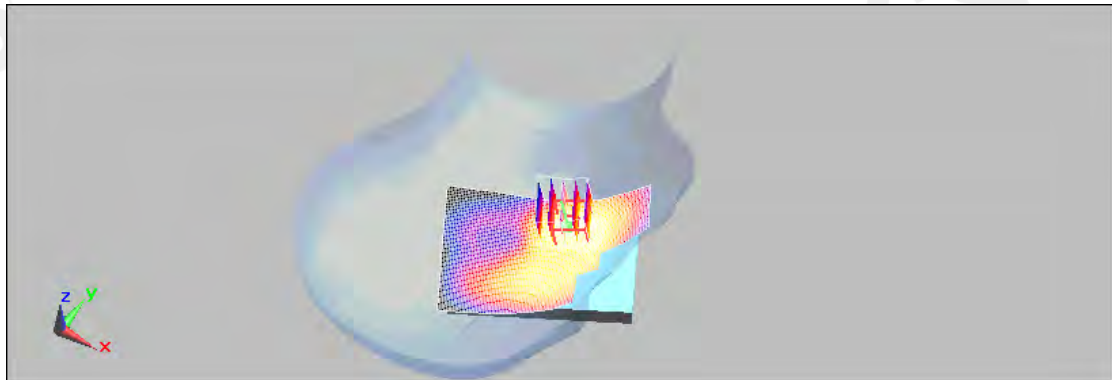
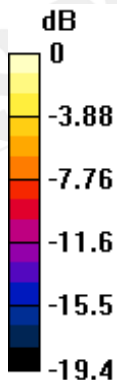
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.746 mW/g

**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 4.46 V/m; Power Drift = -0.090 dB  
 Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.619 mW/g; SAR(10 g) = 0.351 mW/g**  
 Maximum value of SAR (measured) = 0.711 mW/g



0 dB = 0.711mW/g

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Date/Time: 12/11/2009 23:11:09

## RE Cheek\_CH9400\_repeated with Memory card

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HEAD 1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.2 mW/g

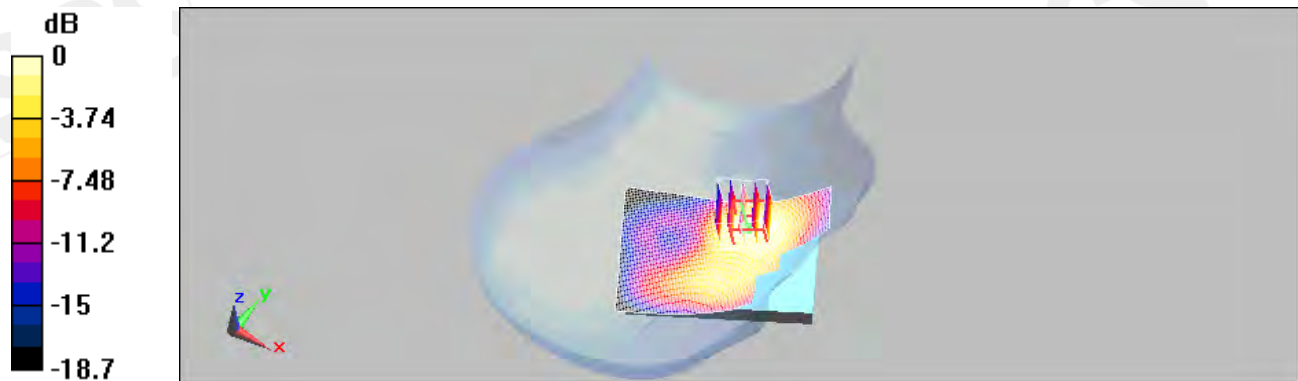
**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.32 V/m; Power Drift = 0.181 dB

Peak SAR (extrapolated) = 1.67 W/kg

**SAR(1 g) = 0.973 mW/g; SAR(10 g) = 0.565 mW/g**

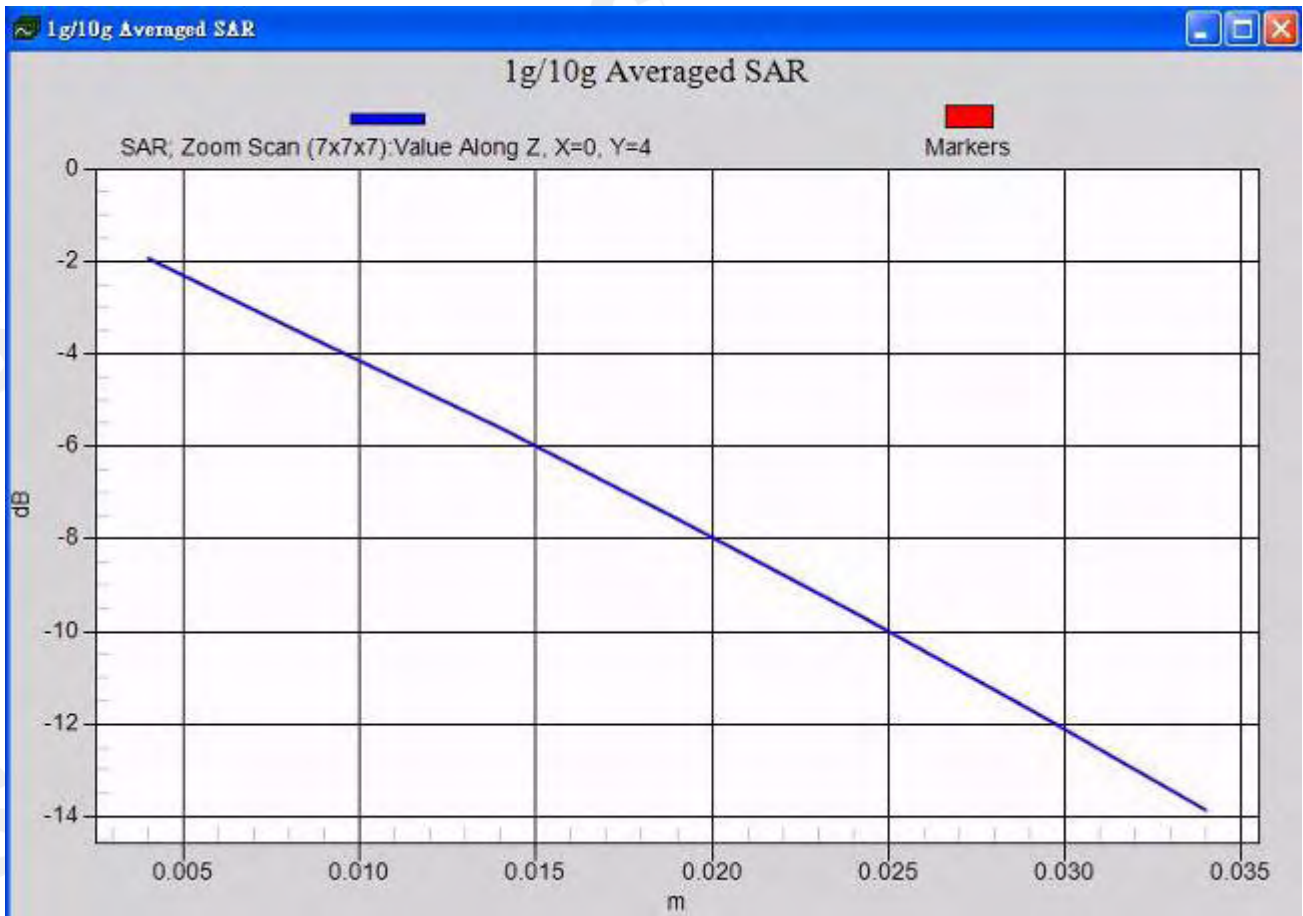
Maximum value of SAR (measured) = 1.11 mW/g



0 dB = 1.11mW/g

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Date/Time: 12/11/2009 23:39:15

## RE Cheek\_CH9400\_repeated with FORMOSA Battery

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HEAD 1900 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.47 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 1.16 mW/g

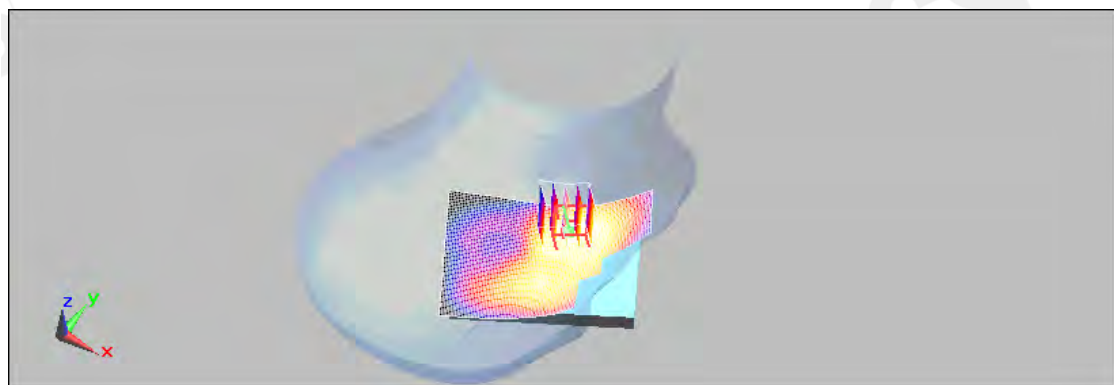
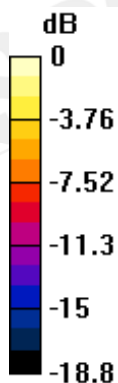
**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 5.69 V/m; Power Drift = 0.103 dB

Peak SAR (extrapolated) = 1.62 W/kg

**SAR(1 g) = 0.948 mW/g; SAR(10 g) = 0.553 mW/g**

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



0 dB = 1.08mW/g

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Date/Time: 12/11/2009 20:34:02

## LE Cheek\_CH9262

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
 Medium: HEAD 1900 Medium parameters used (interpolated):  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

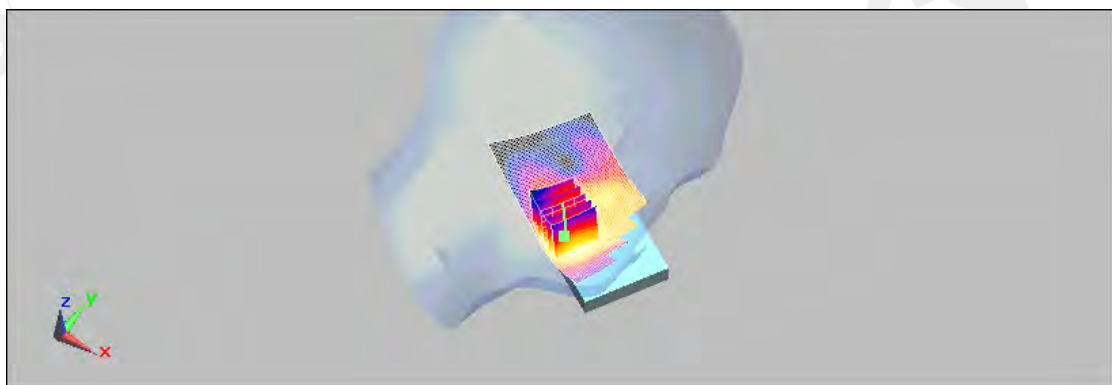
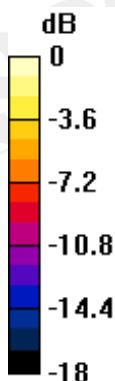
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 1.04 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 4.49 V/m; Power Drift = 0.135 dB  
 Peak SAR (extrapolated) = 1.4 W/kg

**SAR(1 g) = 0.863 mW/g; SAR(10 g) = 0.521 mW/g**  
 Maximum value of SAR (measured) = 0.908 mW/g



0 dB = 0.908mW/g

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Date/Time: 12/11/2009 21:00:47

## LE Cheek\_CH9400

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HEAD 1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.08 mW/g

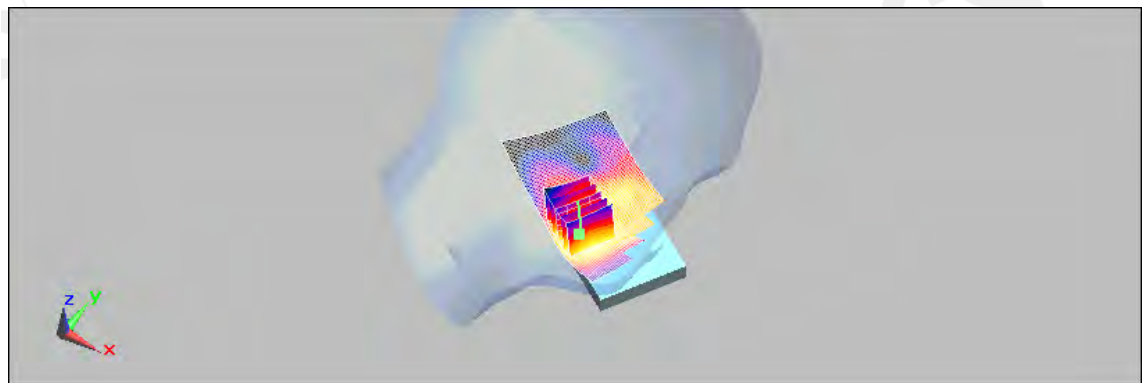
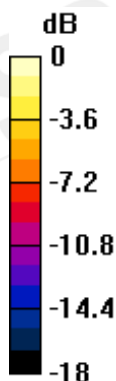
**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.37 V/m; Power Drift = 0.163 dB

Peak SAR (extrapolated) = 1.5 W/kg

**SAR(1 g) = 0.911 mW/g; SAR(10 g) = 0.546 mW/g**

Maximum value of SAR (measured) = 0.959 mW/g



0 dB = 0.959mW/g

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Date/Time: 12/11/2009 21:26:11

## LE Cheek\_CH9538

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
 Medium: HEAD 1900 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 38.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

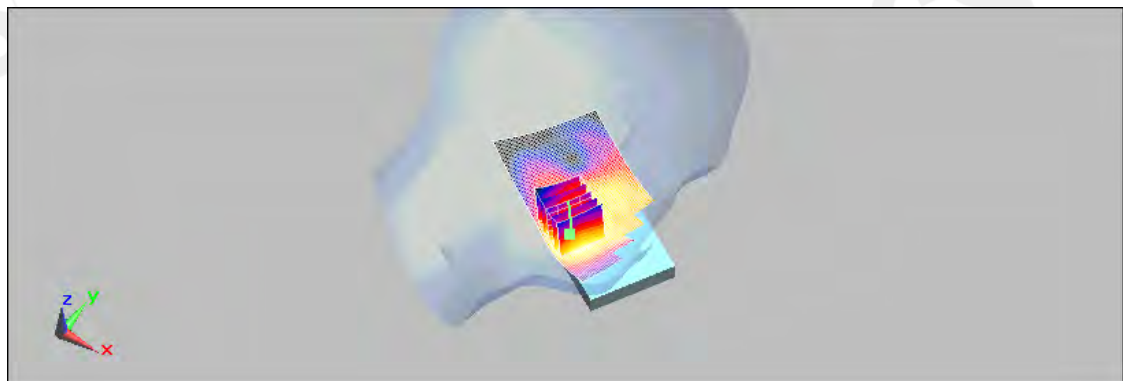
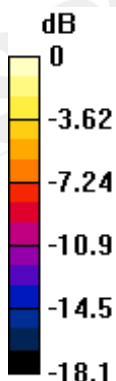
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.629 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 3.31 V/m; Power Drift = 0.133 dB  
 Peak SAR (extrapolated) = 0.873 W/kg

**SAR(1 g) = 0.529 mW/g; SAR(10 g) = 0.316 mW/g**  
 Maximum value of SAR (measured) = 0.558 mW/g



0 dB = 0.558mW/g

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Date/Time: 12/11/2009 19:18:03

## RE Tilt\_CH9262

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
 Medium: HEAD 1900 Medium parameters used (interpolated):  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

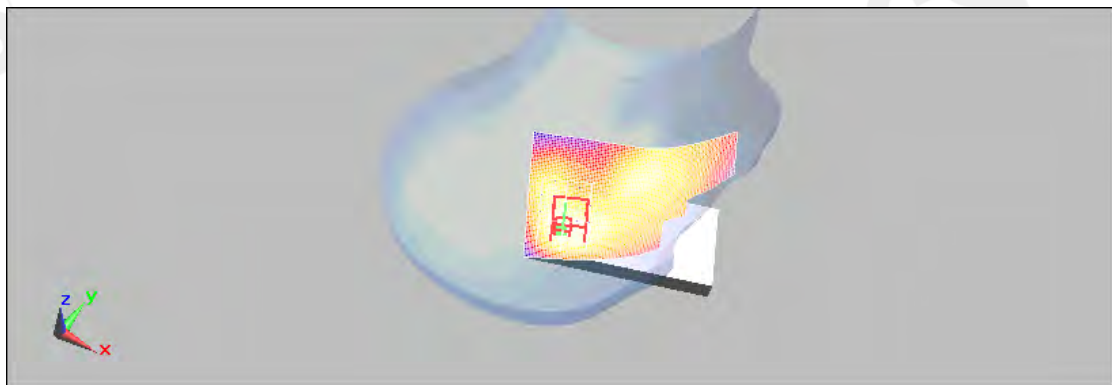
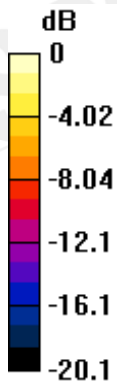
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Tilt/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.354 mW/g

**RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 11.9 V/m; Power Drift = 0.085 dB  
 Peak SAR (extrapolated) = 0.500 W/kg

**SAR(1 g) = 0.305 mW/g; SAR(10 g) = 0.184 mW/g**  
 Maximum value of SAR (measured) = 0.335 mW/g



0 dB = 0.335mW/g

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Date/Time: 12/11/2009 19:43:03

## RE Tilt\_CH9400

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1  
 Medium: HEAD 1900 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.47 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

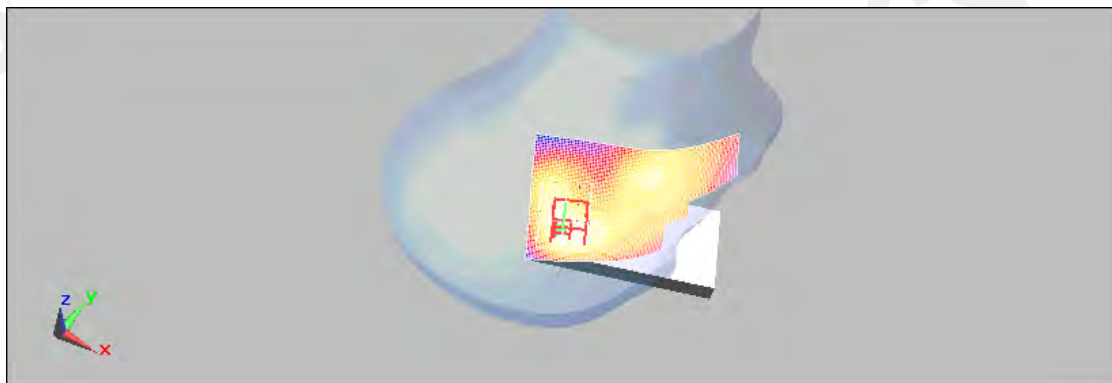
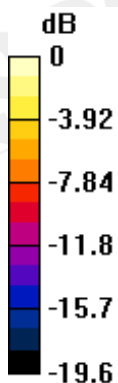
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Tilt/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.404 mW/g

**RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 13.6 V/m; Power Drift = -0.134 dB  
 Peak SAR (extrapolated) = 0.561 W/kg

**SAR(1 g) = 0.340 mW/g; SAR(10 g) = 0.205 mW/g**  
 Maximum value of SAR (measured) = 0.363 mW/g



0 dB = 0.363mW/g

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Date/Time: 12/11/2009 20:08:48

## RE Tilt\_CH9538

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
 Medium: HEAD 1900 Medium parameters used:  $f = 1908 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 38.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

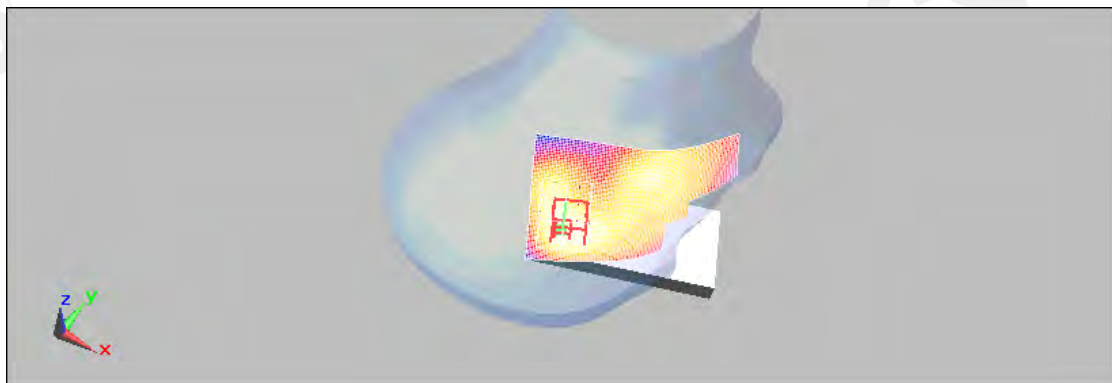
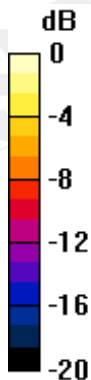
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Tilt/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.275 mW/g

**RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 11 V/m; Power Drift = -0.143 dB  
 Peak SAR (extrapolated) = 0.397 W/kg

**SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.138 mW/g**  
 Maximum value of SAR (measured) = 0.249 mW/g



0 dB = 0.249mW/g

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Date/Time: 12/11/2009 21:51:51

## LE Tilt\_CH9262

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
 Medium: HEAD 1900 Medium parameters used (interpolated):  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

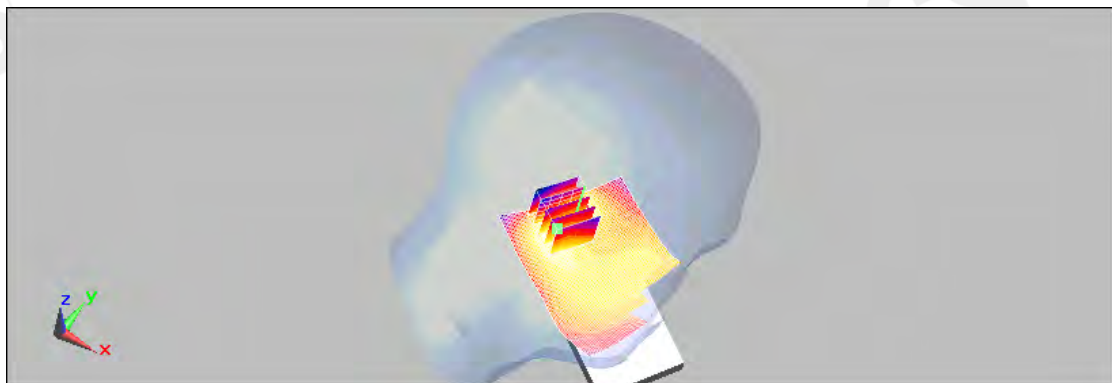
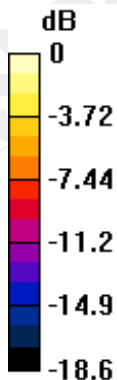
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.446 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 13.3 V/m; Power Drift = 0.09 dB  
 Peak SAR (extrapolated) = 0.474 W/kg

**SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.161 mW/g**  
 Maximum value of SAR (measured) = 0.317 mW/g



0 dB = 0.317mW/g

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Date/Time: 12/11/2009 22:15:52

## LE Tilt\_CH9400

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1  
 Medium: HEAD 1900 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.47 \text{ mho/m}$ ;  $\epsilon_r = 38.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

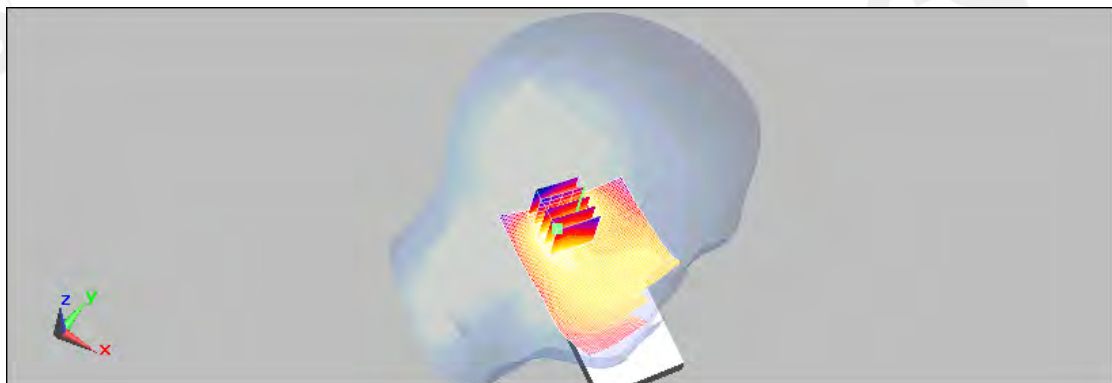
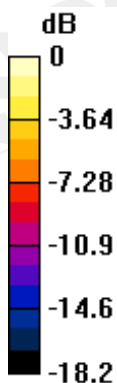
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.313 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 15.4 V/m; Power Drift = 0.00806 dB  
 Peak SAR (extrapolated) = 0.508 W/kg

**SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.170 mW/g**  
 Maximum value of SAR (measured) = 0.329 mW/g



0 dB = 0.329mW/g

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Date/Time: 12/11/2009 22:39:23

## LE Tilt\_CH9538

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
 Medium: HEAD 1900 Medium parameters used:  $f = 1908 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 38.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

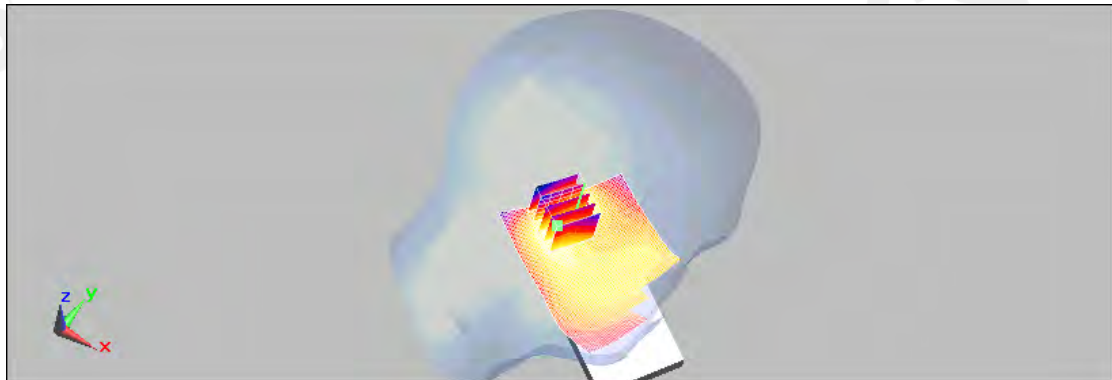
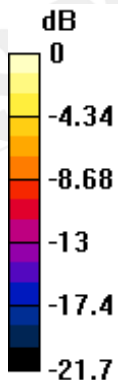
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.179 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 11.8 V/m; Power Drift = 0.083 dB  
 Peak SAR (extrapolated) = 0.293 W/kg

**SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.096 mW/g**  
 Maximum value of SAR (measured) = 0.193 mW/g



0 dB = 0.193mW/g

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Date/Time: 12/12/2009 03:05:53

## BODY\_CH9262

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
 Medium: Body 1900 Medium parameters used (interpolated):  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.53 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

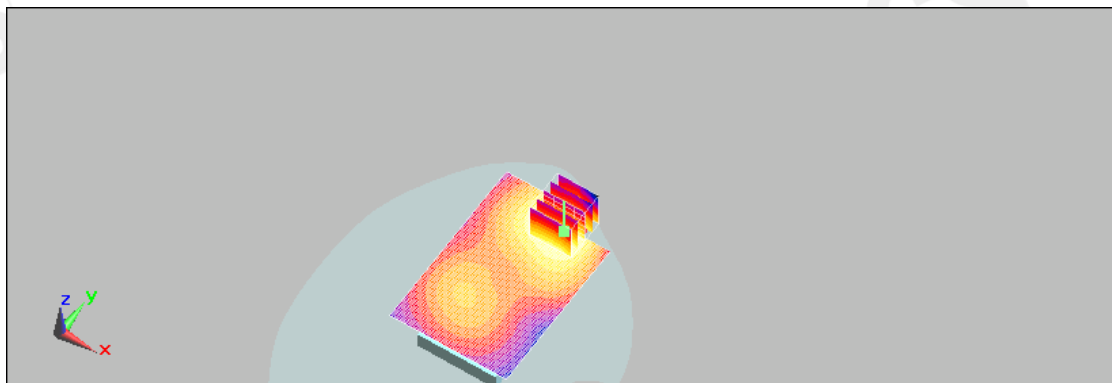
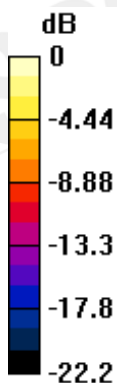
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.714 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 7.49 V/m; Power Drift = 0.018 dB  
 Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.605 mW/g; SAR(10 g) = 0.352 mW/g**  
 Maximum value of SAR (measured) = 0.656 mW/g



0 dB = 0.656mW/g

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Date/Time: 12/12/2009 03:30:31

## BODY\_CH9400

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1  
 Medium: Body 1900 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.56 \text{ mho/m}$ ;  $\epsilon_r = 52.6$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

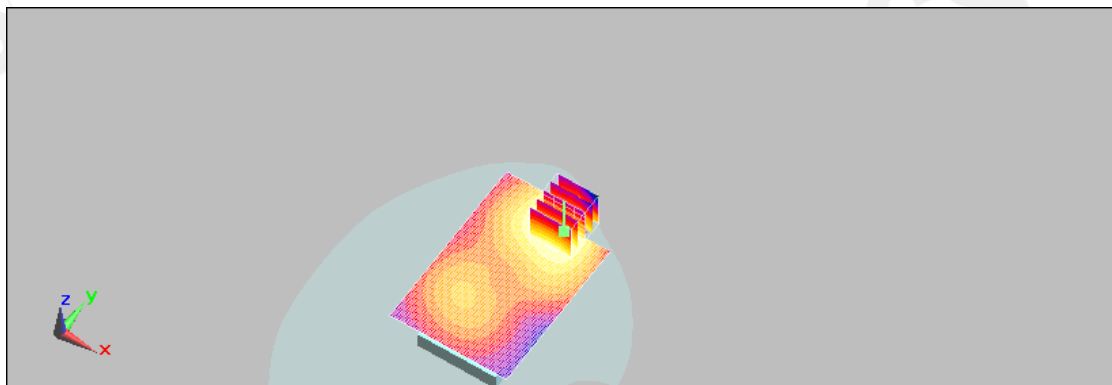
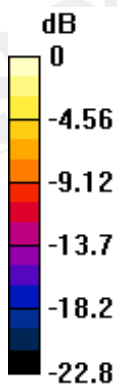
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.663 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 7.05 V/m; Power Drift = 0.081 dB  
 Peak SAR (extrapolated) = 0.960 W/kg

**SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.323 mW/g**  
 Maximum value of SAR (measured) = 0.599 mW/g



0 dB = 0.599mW/g

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Date/Time: 12/12/2009 03:54:04

## BODY\_CH9538

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
 Medium: Body 1900 Medium parameters used:  $f = 1908 \text{ MHz}$ ;  $\sigma = 1.59 \text{ mho/m}$ ;  $\epsilon_r = 52.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

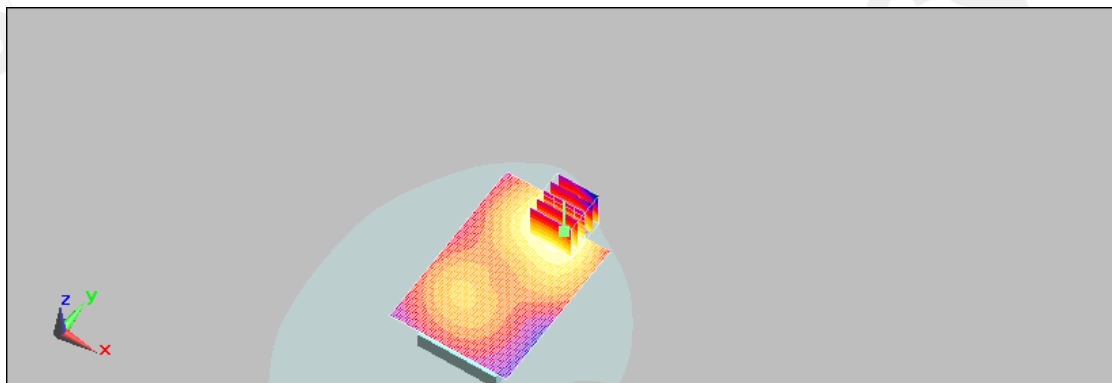
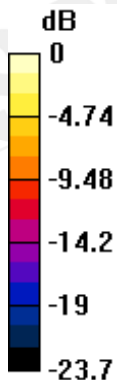
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.392 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 5.15 V/m; Power Drift = 0.00184 dB  
 Peak SAR (extrapolated) = 0.569 W/kg

**SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.189 mW/g**  
 Maximum value of SAR (measured) = 0.352 mW/g



0 dB = 0.352mW/g

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Date/Time: 12/12/2009 04:21:27

## BODY\_CH9262\_repeated with HSDPA mode

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
 Medium: Body 1900 Medium parameters used (interpolated):  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.53 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

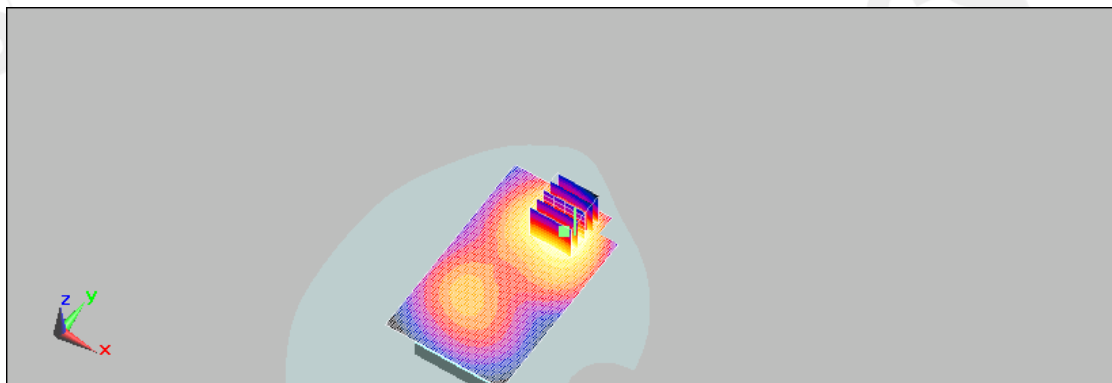
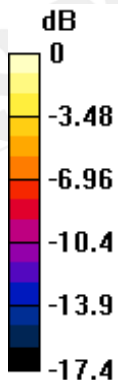
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.669 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 10.4 V/m; Power Drift = 0.077 dB  
 Peak SAR (extrapolated) = 0.988 W/kg

**SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.353 mW/g**  
 Maximum value of SAR (measured) = 0.631 mW/g



0 dB = 0.631mW/g

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Date/Time: 12/12/2009 04:45:11

## BODY\_CH9400\_repeated with HSDPA mode

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Body 1900 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.56 \text{ mho/m}$ ;  $\epsilon_r = 52.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.633 mW/g

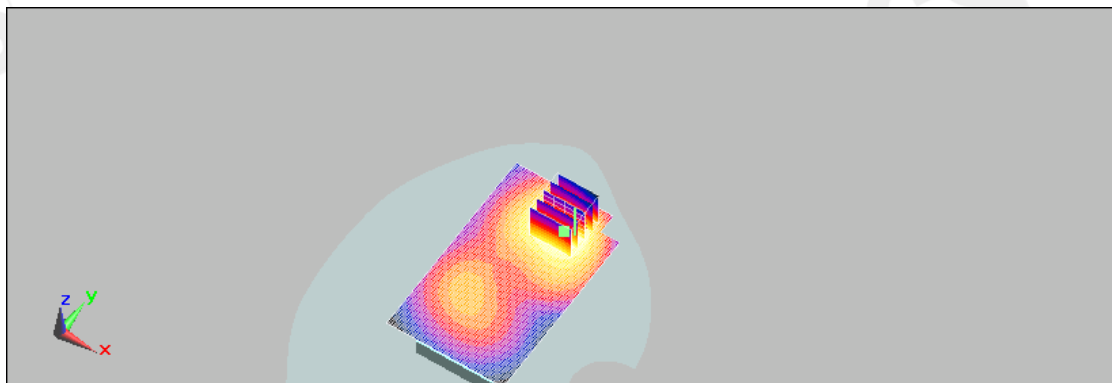
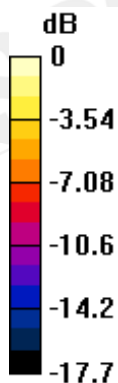
**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 10 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 0.944 W/kg

**SAR(1 g) = 0.564 mW/g; SAR(10 g) = 0.334 mW/g**

Maximum value of SAR (measured) = 0.601 mW/g



0 dB = 0.601mW/g

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Date/Time: 12/12/2009 05:11:59

## BODY\_CH9538\_repeated with HSDPA mode

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
 Medium: Body 1900 Medium parameters used:  $f = 1908 \text{ MHz}$ ;  $\sigma = 1.59 \text{ mho/m}$ ;  $\epsilon_r = 52.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

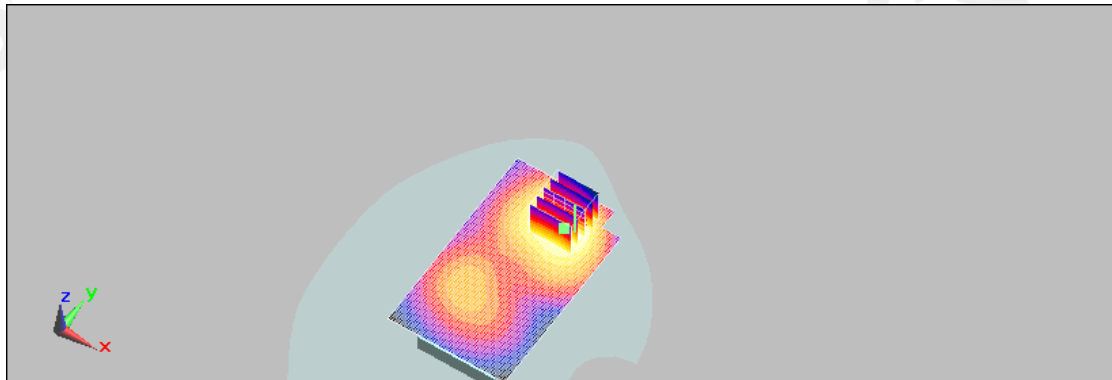
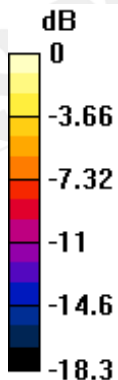
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.383 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 7.61 V/m; Power Drift = 0.089 dB  
 Peak SAR (extrapolated) = 0.577 W/kg

**SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.202 mW/g**  
 Maximum value of SAR (measured) = 0.364 mW/g



0 dB = 0.364mW/g

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Date/Time: 12/12/2009 05:35:51

## BODY\_CH9262\_repeated with HSUPA mode

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
 Medium: Body 1900 Medium parameters used (interpolated):  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.53 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

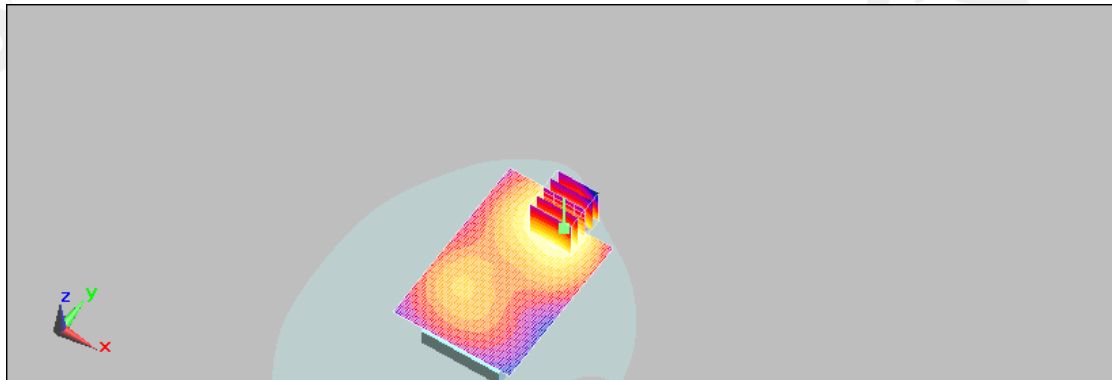
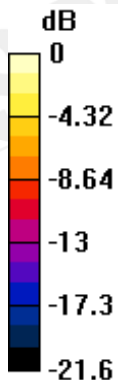
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.664 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 6.94 V/m; Power Drift = 0.015 dB  
 Peak SAR (extrapolated) = 0.952 W/kg

**SAR(1 g) = 0.564 mW/g; SAR(10 g) = 0.331 mW/g**  
 Maximum value of SAR (measured) = 0.604 mW/g



0 dB = 0.604mW/g

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Date/Time: 12/12/2009 05:58:02

## BODY\_CH9400\_repeated with HSUPA mode

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Body 1900 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.56 \text{ mho/m}$ ;  $\epsilon_r = 52.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.700 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,

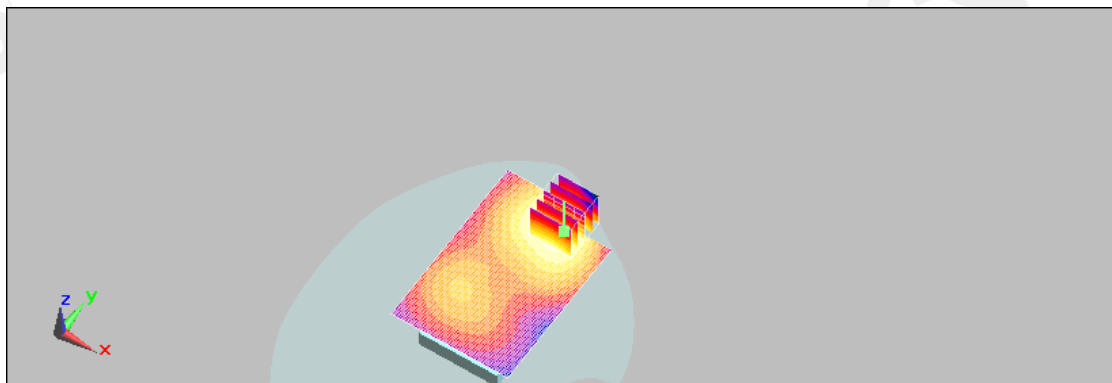
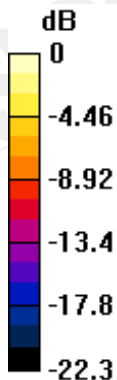
$dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.81 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 1 W/kg

**SAR(1 g) = 0.587 mW/g; SAR(10 g) = 0.343 mW/g**

Maximum value of SAR (measured) = 0.636 mW/g



0 dB = 0.636mW/g

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Date/Time: 12/12/2009 06:24:08

## BODY\_CH9538\_repeated with HSUPA mode

**DUT: PB99110;**

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
 Medium: Body 1900 Medium parameters used:  $f = 1908 \text{ MHz}$ ;  $\sigma = 1.59 \text{ mho/m}$ ;  $\epsilon_r = 52.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

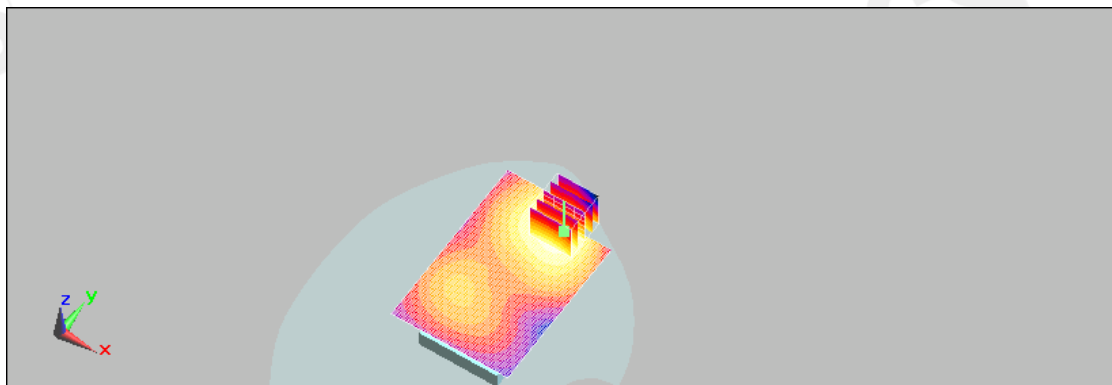
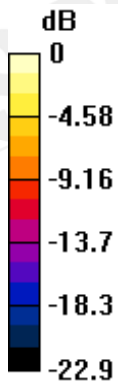
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.398 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 5.05 V/m; Power Drift = 0.030 dB  
 Peak SAR (extrapolated) = 0.574 W/kg

**SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.196 mW/g**  
 Maximum value of SAR (measured) = 0.358 mW/g



0 dB = 0.358mW/g

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Date/Time: 12/11/2009 06:15:35

## RE Cheek\_CH4132

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.896 \text{ mho/m}$ ;  $\epsilon_r = 42.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

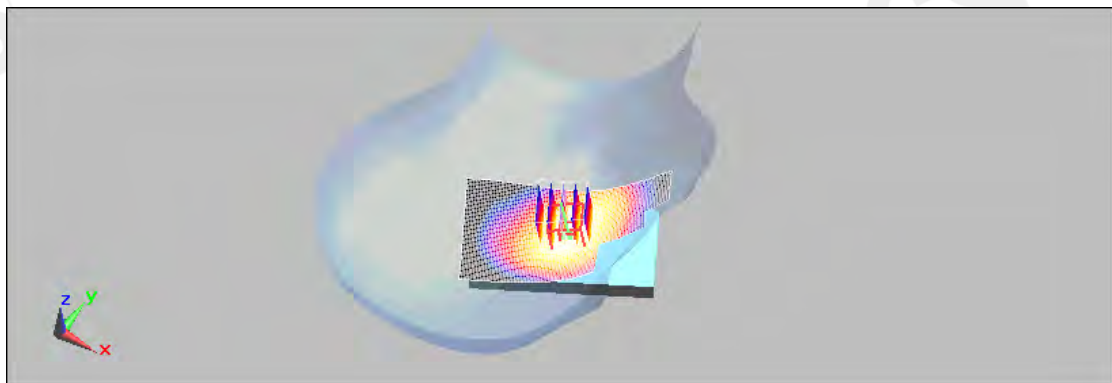
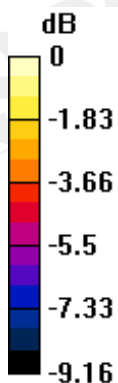
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.398 mW/g

**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 9.26 V/m; Power Drift = 0.034 dB  
 Peak SAR (extrapolated) = 0.488 W/kg

**SAR(1 g) = 0.375 mW/g; SAR(10 g) = 0.276 mW/g**  
 Maximum value of SAR (measured) = 0.393 mW/g



0 dB = 0.393mW/g

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Date/Time: 12/11/2009 06:39:20

## RE Cheek\_CH4183

DUT: PB99110;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.906 \text{ mho/m}$ ;  $\epsilon_r = 42.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

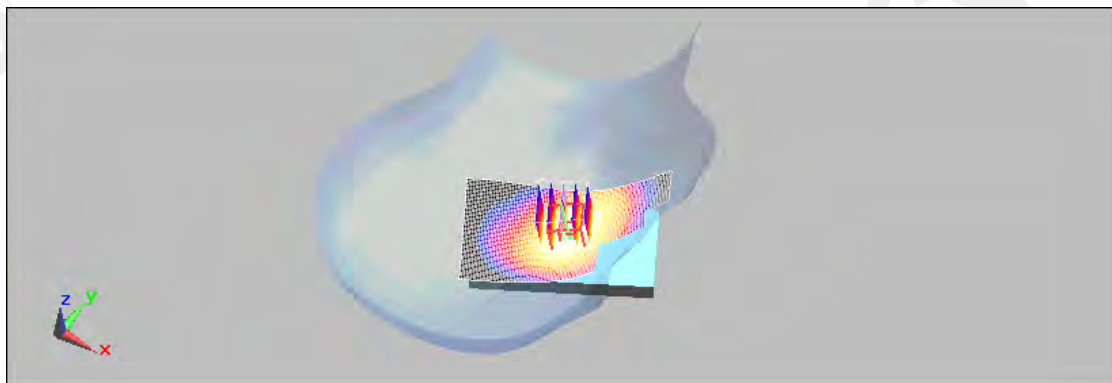
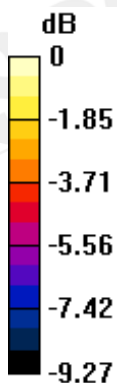
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.373 mW/g

**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 8.86 V/m; Power Drift = 0.064 dB  
 Peak SAR (extrapolated) = 0.460 W/kg

**SAR(1 g) = 0.356 mW/g; SAR(10 g) = 0.262 mW/g**  
 Maximum value of SAR (measured) = 0.374 mW/g



0 dB = 0.374mW/g

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Date/Time: 12/11/2009 07:03:45

## RE Cheek\_CH4233

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 846.6 \text{ MHz}$ ;  $\sigma = 0.917 \text{ mho/m}$ ;  $\epsilon_r = 42.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

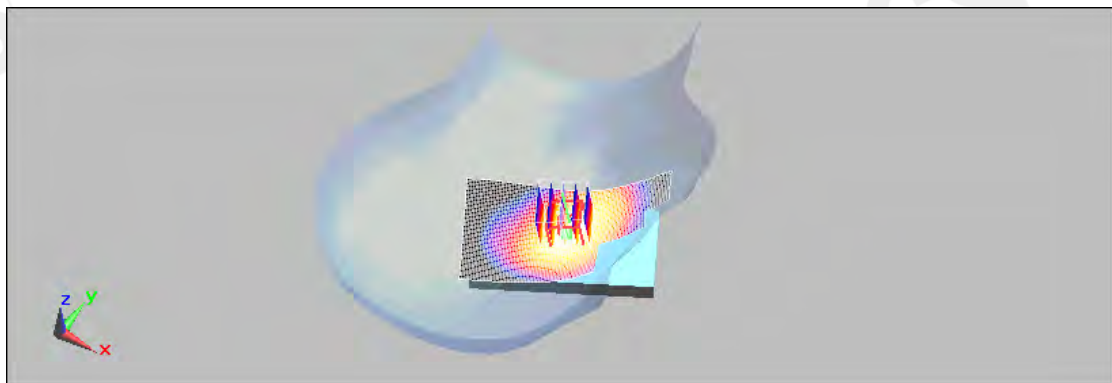
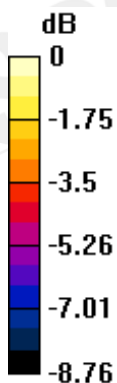
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.326 mW/g

**RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 8.14 V/m; Power Drift = 0.175 dB  
 Peak SAR (extrapolated) = 0.419 W/kg

**SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.234 mW/g**  
 Maximum value of SAR (measured) = 0.337 mW/g



0 dB = 0.337mW/g

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Date/Time: 12/11/2009 08:37:51

## LE Cheek\_CH4132

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.896 \text{ mho/m}$ ;  $\epsilon_r = 42.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

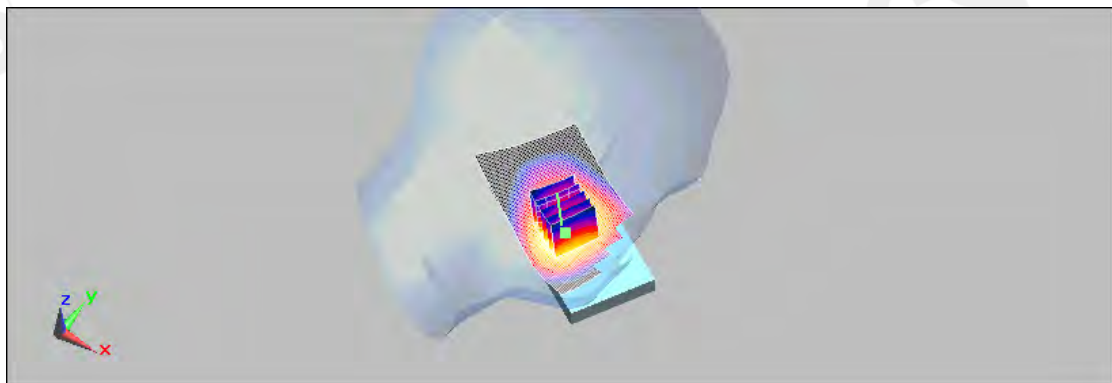
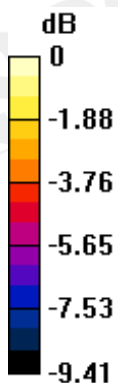
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.534 mW/g

**LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 9.33 V/m; Power Drift = -0.028 dB  
 Peak SAR (extrapolated) = 0.694 W/kg

**SAR(1 g) = 0.506 mW/g; SAR(10 g) = 0.359 mW/g**  
 Maximum value of SAR (measured) = 0.521 mW/g



0 dB = 0.521mW/g

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Date/Time: 12/11/2009 09:00:24

## LE Cheek\_CH4183

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.906 \text{ mho/m}$ ;  $\epsilon_r = 42.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.517 mW/g

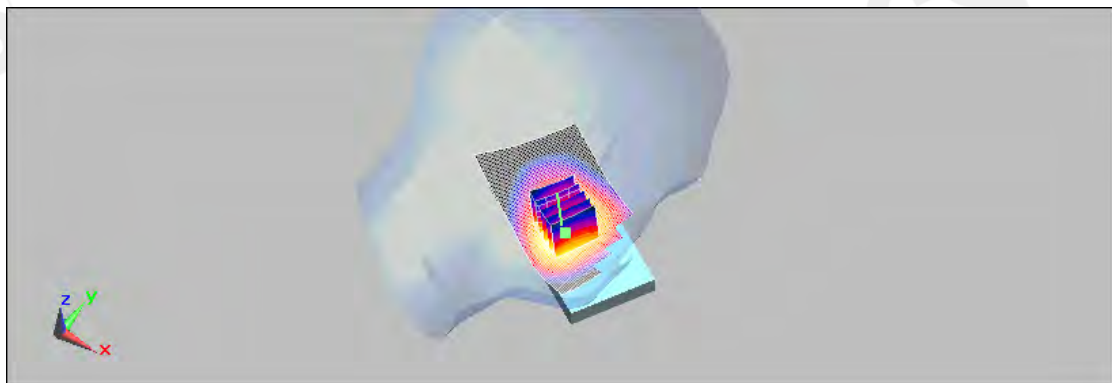
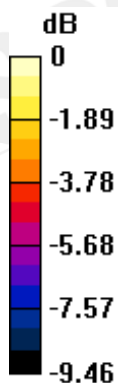
**LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.12 V/m; Power Drift = 0.116 dB

Peak SAR (extrapolated) = 0.688 W/kg

**SAR(1 g) = 0.501 mW/g; SAR(10 g) = 0.358 mW/g**

Maximum value of SAR (measured) = 0.524 mW/g



0 dB = 0.524mW/g

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Date/Time: 12/11/2009 09:24:17

## LE Cheek\_CH4233

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 846.6 \text{ MHz}$ ;  $\sigma = 0.917 \text{ mho/m}$ ;  $\epsilon_r = 42.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

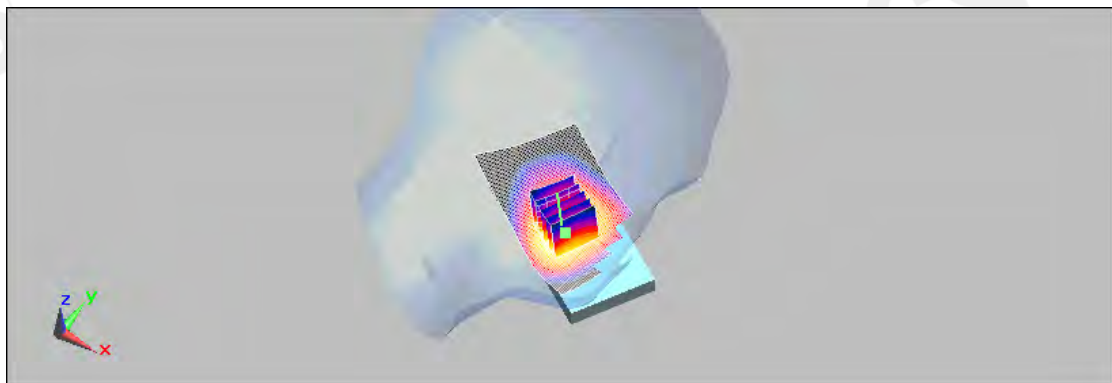
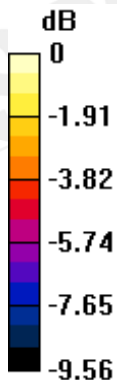
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.437 mW/g

**LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 8.31 V/m; Power Drift = 0.183 dB  
 Peak SAR (extrapolated) = 0.591 W/kg

**SAR(1 g) = 0.429 mW/g; SAR(10 g) = 0.306 mW/g**  
 Maximum value of SAR (measured) = 0.446 mW/g



0 dB = 0.446mW/g

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Date/Time: 12/11/2009 07:29:49

## RE Tilt\_CH4132

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.896 \text{ mho/m}$ ;  $\epsilon_r = 42.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

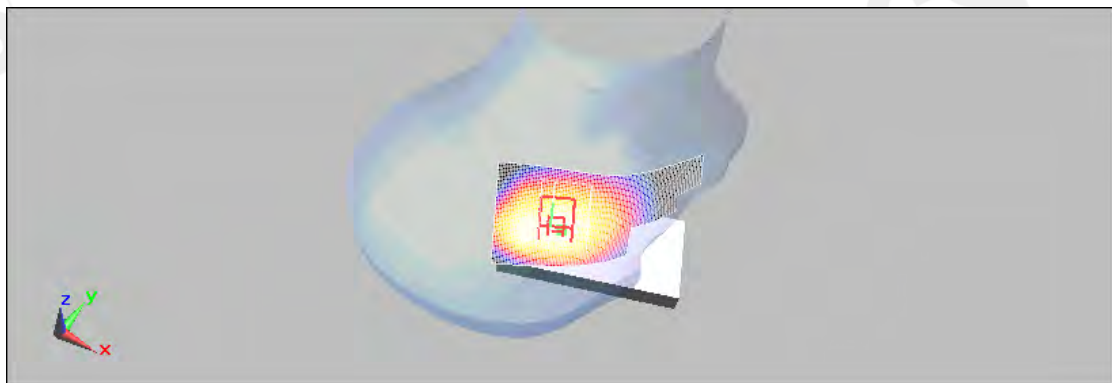
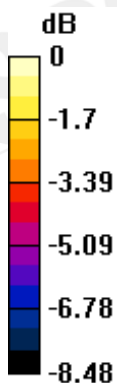
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.312 mW/g

**RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 17.2 V/m; Power Drift = 0.116 dB  
 Peak SAR (extrapolated) = 0.381 W/kg

**SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.224 mW/g**  
 Maximum value of SAR (measured) = 0.314 mW/g



0 dB = 0.314mW/g

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Date/Time: 12/11/2009 07:52:40

## RE Tilt\_CH4183

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.906 \text{ mho/m}$ ;  $\epsilon_r = 42.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

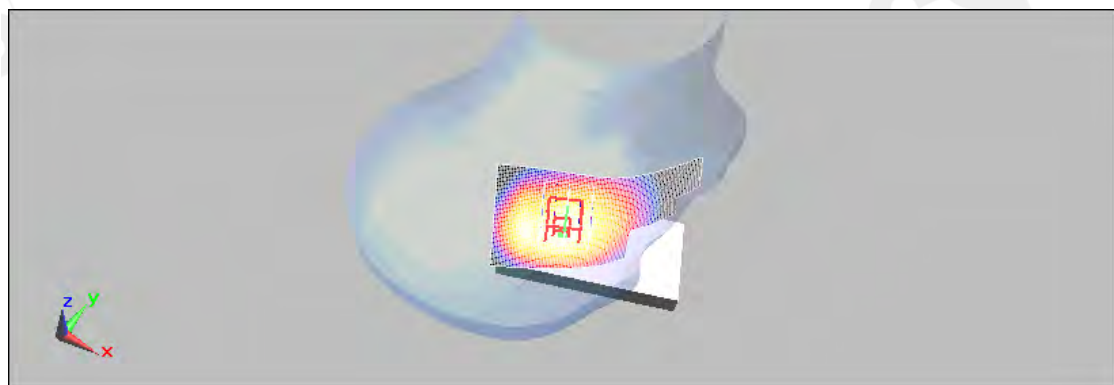
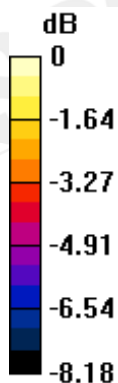
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.262 mW/g

**RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 14.8 V/m; Power Drift = 0.137 dB  
 Peak SAR (extrapolated) = 0.307 W/kg

**SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.189 mW/g**  
 Maximum value of SAR (measured) = 0.262 mW/g



0 dB = 0.262mW/g

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Date/Time: 12/11/2009 08:14:20

## RE Tilt\_CH4233

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 846.6 \text{ MHz}$ ;  $\sigma = 0.917 \text{ mho/m}$ ;  $\epsilon_r = 42.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section

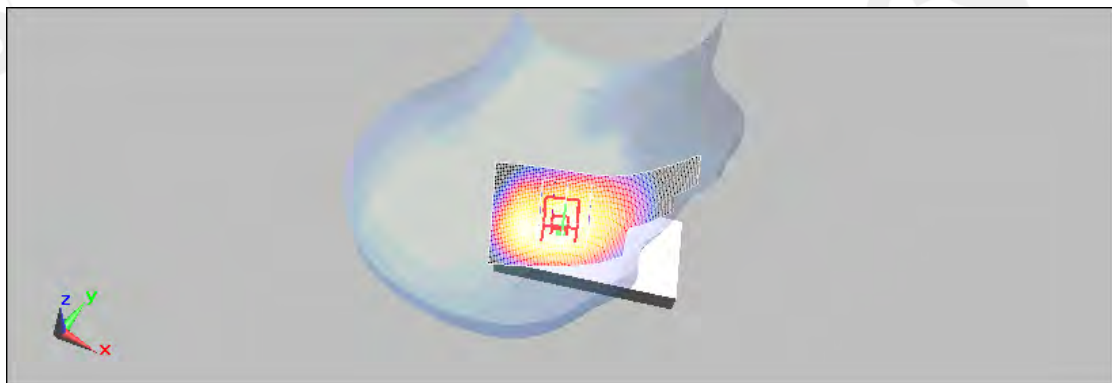
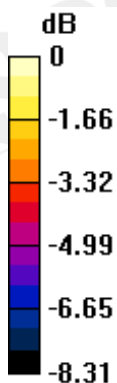
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**RE Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.237 mW/g

**RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 14.1 V/m; Power Drift = 0.038 dB  
 Peak SAR (extrapolated) = 0.281 W/kg

**SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.171 mW/g**  
 Maximum value of SAR (measured) = 0.237 mW/g



0 dB = 0.237mW/g

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Date/Time: 12/11/2009 09:49:12

## LE Tilt\_CH4132

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.896 \text{ mho/m}$ ;  $\epsilon_r = 42.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

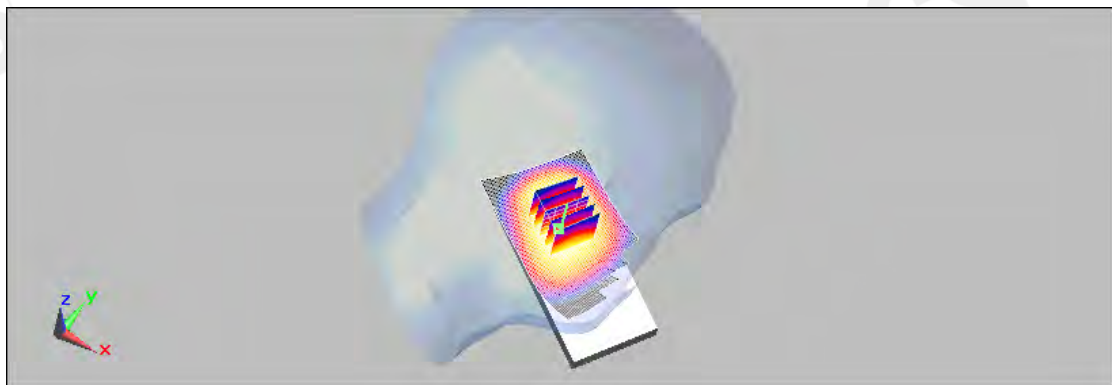
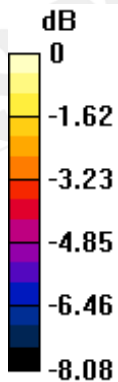
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.311 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 16.8 V/m; Power Drift = 0.035 dB  
 Peak SAR (extrapolated) = 0.368 W/kg

**SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.227 mW/g**  
 Maximum value of SAR (measured) = 0.312 mW/g



0 dB = 0.312mW/g

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Date/Time: 12/11/2009 10:13:58

## LE Tilt\_CH4183

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.906 \text{ mho/m}$ ;  $\epsilon_r = 42.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

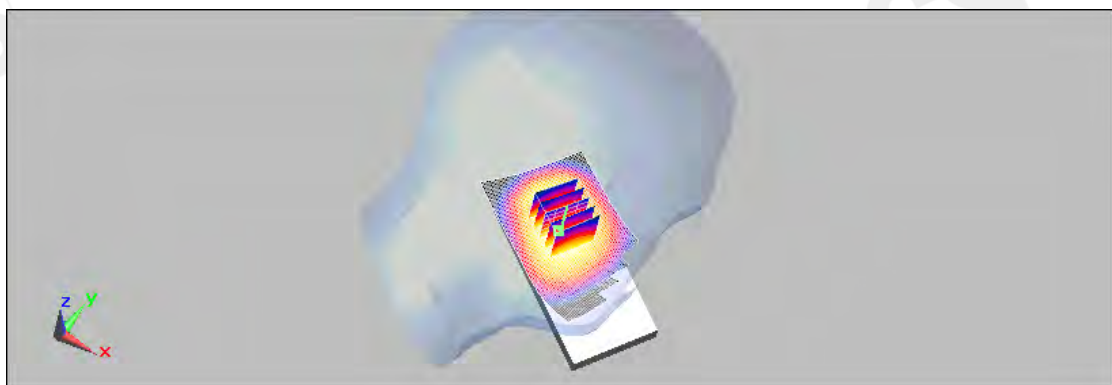
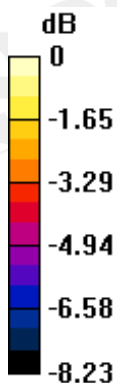
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.292 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  
 $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 16.1 V/m; Power Drift = 0.045 dB  
 Peak SAR (extrapolated) = 0.352 W/kg

**SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.214 mW/g**  
 Maximum value of SAR (measured) = 0.297 mW/g



0 dB = 0.297mW/g

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Date/Time: 12/11/2009 10:37:52

## LE Tilt\_CH4233

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1  
 Medium: HEAD900 Medium parameters used (extrapolated):  $f = 846.6 \text{ MHz}$ ;  $\sigma = 0.917 \text{ mho/m}$ ;  $\epsilon_r = 42.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

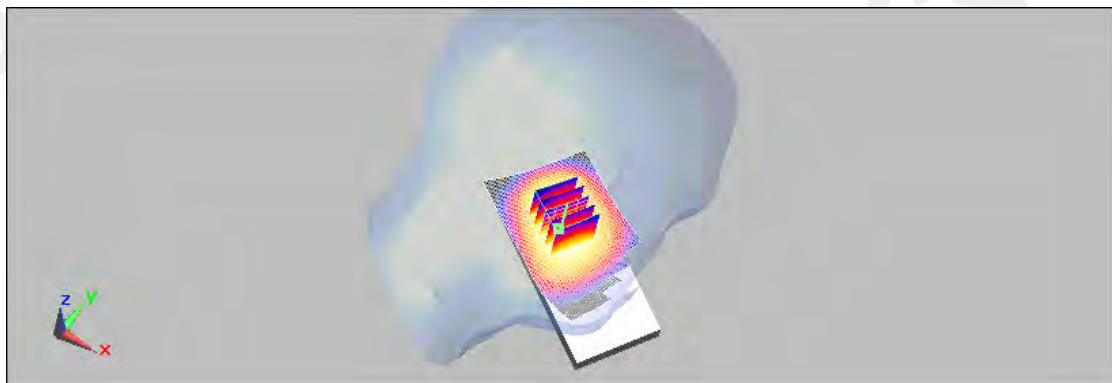
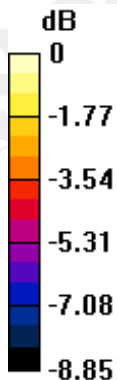
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**LE Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.272 mW/g

**LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 15.4 V/m; Power Drift = 0.070 dB  
 Peak SAR (extrapolated) = 0.328 W/kg

**SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.198 mW/g**  
 Maximum value of SAR (measured) = 0.275 mW/g



0 dB = 0.275mW/g

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Date/Time: 12/12/2009 09:53:26

## BODY\_CH4132

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1  
 Medium: Body 900 Medium parameters used (interpolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  
 $\epsilon_r = 54.6$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.682 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  
 $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.03 V/m; Power Drift = 0.205 dB

Peak SAR (extrapolated) = 0.862 W/kg

**SAR(1 g) = 0.656 mW/g; SAR(10 g) = 0.476 mW/g**

Maximum value of SAR (measured) = 0.689 mW/g

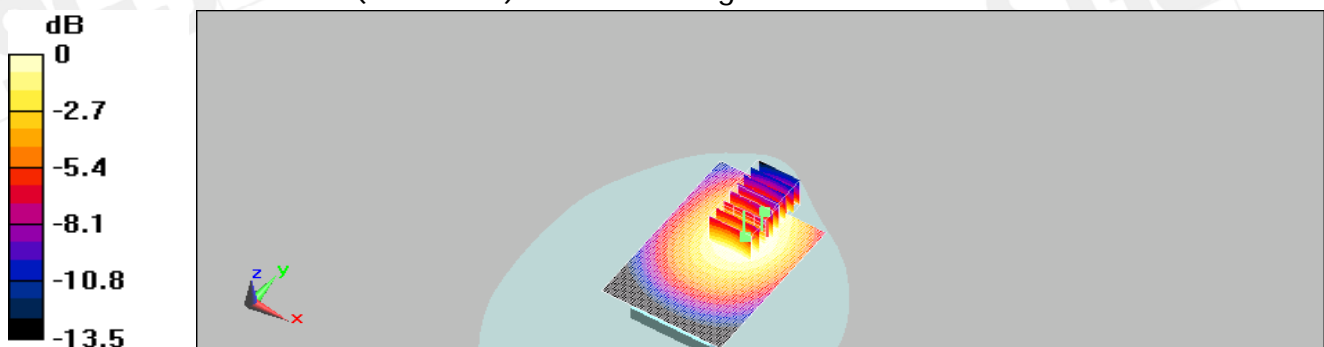
**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  
 $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.03 V/m; Power Drift = 0.205 dB

Peak SAR (extrapolated) = 0.797 W/kg

**SAR(1 g) = 0.549 mW/g; SAR(10 g) = 0.381 mW/g**

Maximum value of SAR (measured) = 0.630 mW/g



0 dB = 0.630mW/g

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Date/Time: 12/12/2009 10:18:30

## BODY\_CH4183

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1  
 Medium: Body 900 Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.02$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.676 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.18 V/m; Power Drift = 0.131 dB

Peak SAR (extrapolated) = 0.836 W/kg

**SAR(1 g) = 0.640 mW/g; SAR(10 g) = 0.465 mW/g**

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

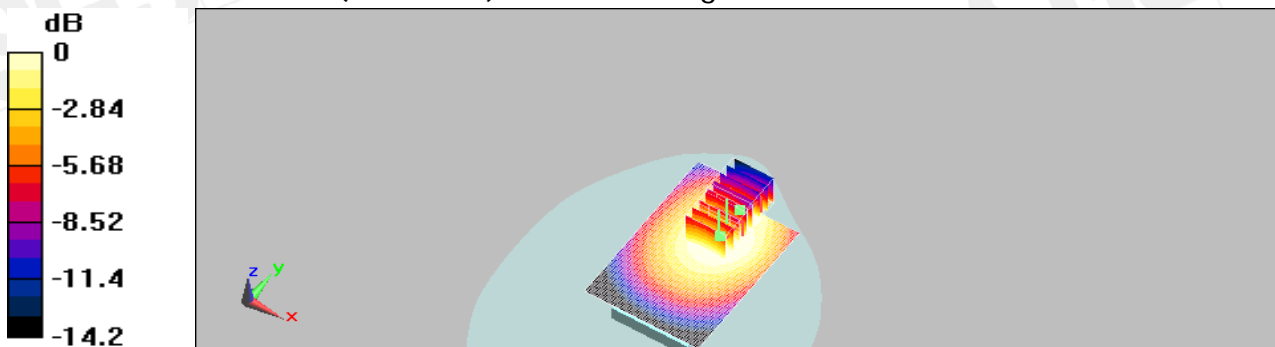
**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.18 V/m; Power Drift = 0.131 dB

Peak SAR (extrapolated) = 0.765 W/kg

**SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.366 mW/g**

Maximum value of SAR (measured) = 0.600 mW/g



0 dB = 0.600mW/g

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Date/Time: 12/12/2009 10:44:43

## BODY\_CH4233

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1  
 Medium: Body 900 Medium parameters used:  $f = 847 \text{ MHz}$ ;  $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.02 V/m; Power Drift = 0.103 dB

Peak SAR (extrapolated) = 0.771 W/kg

**SAR(1 g) = 0.569 mW/g; SAR(10 g) = 0.388 mW/g**

Maximum value of SAR (measured) = 0.584 mW/g

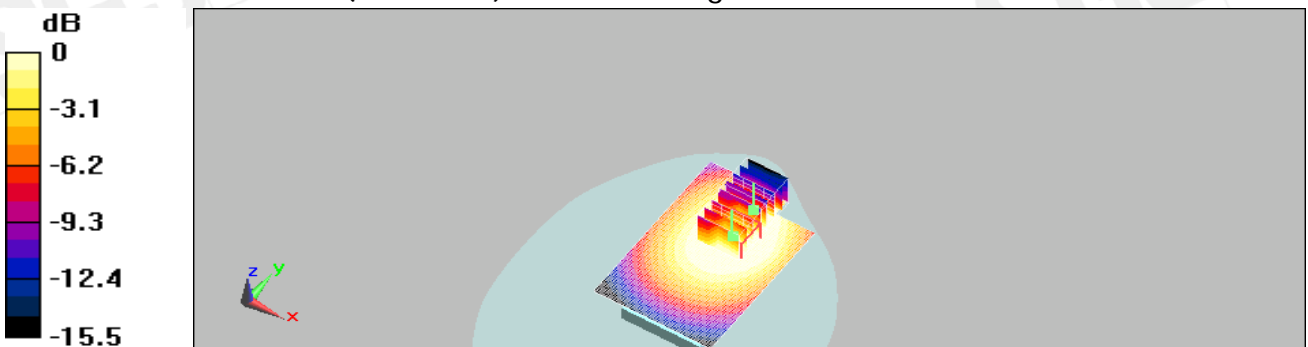
**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.02 V/m; Power Drift = 0.103 dB

Peak SAR (extrapolated) = 0.690 W/kg

**SAR(1 g) = 0.399 mW/g; SAR(10 g) = 0.238 mW/g**

Maximum value of SAR (measured) = 0.432 mW/g



0 dB = 0.432mW/g

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Date/Time: 12/12/2009 11:10:09

## BODY\_CH4132\_repeated with HSDPA mode

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1  
 Medium: Body 900 Medium parameters used (interpolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  
 $\epsilon_r = 54.6$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  
 $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.07 V/m; Power Drift = 0.127 dB

Peak SAR (extrapolated) = 0.796 W/kg

**SAR(1 g) = 0.608 mW/g; SAR(10 g) = 0.445 mW/g**

Maximum value of SAR (measured) = 0.639 mW/g

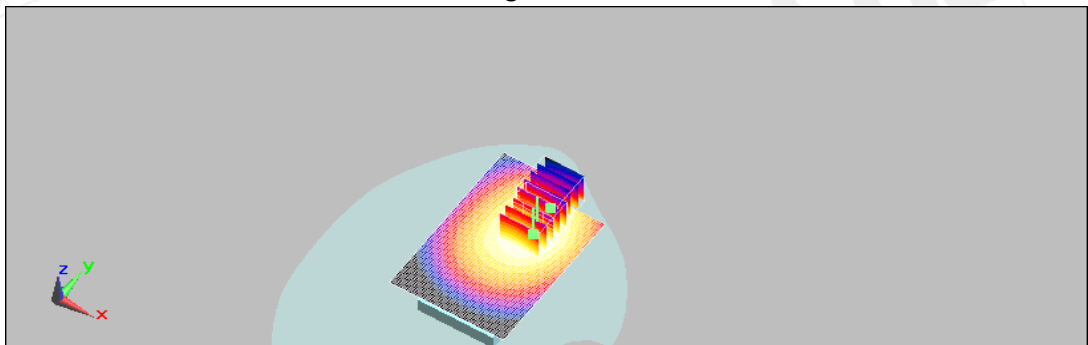
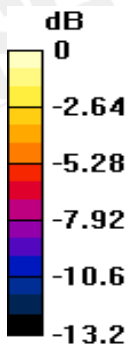
**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  
 $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.07 V/m; Power Drift = 0.127 dB

Peak SAR (extrapolated) = 0.735 W/kg

**SAR(1 g) = 0.506 mW/g; SAR(10 g) = 0.344 mW/g**

Maximum value of SAR (measured) = 0.587 mW/g



0 dB = 0.587mW/g

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Date/Time: 12/12/2009 11:34:28

## BODY\_CH4183\_repeated with HSDPA mode

**DUT: PB99110;**

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: Body 900 Medium parameters used:  $f = 837 \text{ MHz}$ ;  $\sigma = 1.02 \text{ mho/m}$ ;  $\epsilon_r = 54.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.662 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.25 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.827 W/kg

**SAR(1 g) = 0.632 mW/g; SAR(10 g) = 0.460 mW/g**

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

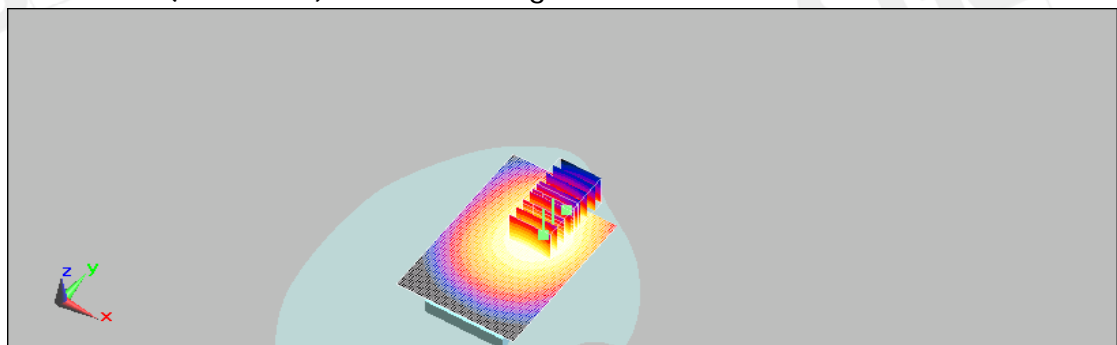
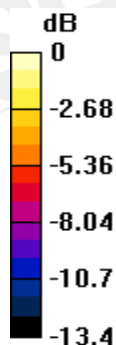
**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.25 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.736 W/kg

**SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.351 mW/g**

Maximum value of SAR (measured) = 0.593 mW/g



0 dB = 0.593mW/g

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Date/Time: 12/12/2009 11:58:15

## BODY\_CH4233\_repeated with HSDPA mode

DUT: PB99110;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1  
 Medium: Body 900 Medium parameters used:  $f = 847 \text{ MHz}$ ;  $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

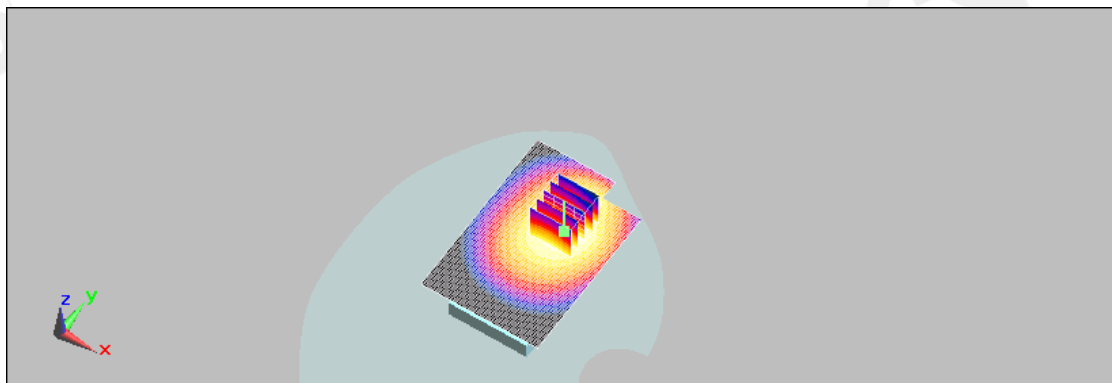
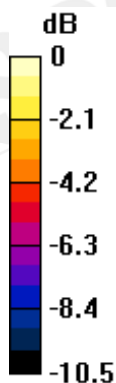
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.605 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 6.03 V/m; Power Drift = 0.140 dB  
 Peak SAR (extrapolated) = 0.745 W/kg

**SAR(1 g) = 0.573 mW/g; SAR(10 g) = 0.419 mW/g**  
 Maximum value of SAR (measured) = 0.605 mW/g



0 dB = 0.605mW/g

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Date/Time: 12/12/2009 12:26:30

## BODY\_CH4132\_repeated with HSUPA mode

DUT: PB99110;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1  
 Medium: Body 900 Medium parameters used (interpolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  
 $\epsilon_r = 54.6$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

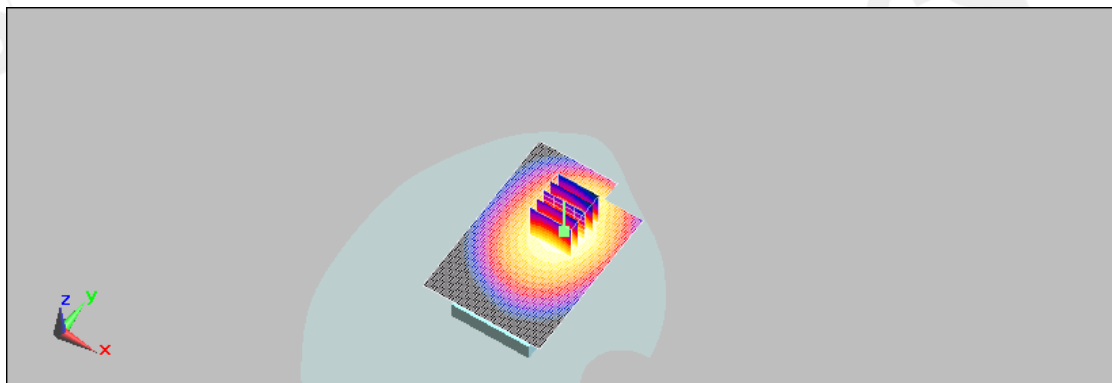
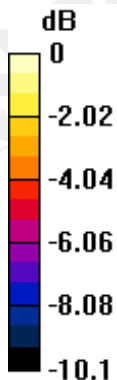
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Body/Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.545 mW/g

**Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  
 $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 7.21 V/m; Power Drift = 0.045 dB  
 Peak SAR (extrapolated) = 0.666 W/kg

**SAR(1 g) = 0.514 mW/g; SAR(10 g) = 0.378 mW/g**  
 Maximum value of SAR (measured) = 0.542 mW/g



0 dB = 0.542mW/g

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