SAR TEST REPORT

Equipment Under Test	PDA phone
Model Name	PB99100
Company Name	HTC Corporation
Company Address	No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan, R.O.C.
Date of Receipt	2009.08.17
Date of Test(s)	2009.08.17 ~ 2009.08.18 , 2009.09.01
Date of Issue	2009.09.15

Standards:

FCC OET Bulletin 65 supplement C,
ANSI / IEEE C95.1, C95.3, IEEE 1528
RSS-102:1999

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

Remarks:

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

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

Tested by : **Antony Wu** **Date** : **2009.09.15**
Engineer

Approved by : **Robert Chang** **Date** : **2009.09.15**
Tech Manager

Contents

1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory	
134, Wu Kung Road, Wuku industrial zone	
Taipei county, Taiwan, R.O.C.	
Telephone	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

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	Charles_Wu
TEL	+886-3-375-3252
Fax	+886-3-375-5530
E-mail	Charles_Wu@htc.com

1.3 Description of EUT

EUT Name	PDA phone
Model Name	PB99100
Brand Name	HTC
IMEI Code	Orignal solution : 354957030013489 Second solution : 354957030018850
FCC ID	NM8PB99100
IC	4115B-PB99100
Mode of Operation	GSM /GPRS/EDGE/WCDMA/HSDPA/HSUPA band

Definition	Production unit

Modulation Mode	GSM/GMSK/8PSK/QPSK/16QAM		
Duty Cycle	GSM	GPRS (4multi-slot)	WCDMA B4
	1/8	1/2	1
Maximum RF Conducted Power (Average)	GSM 850	GSM1900	WCDMA B4
	32.5dbm	28.7dbm	23.01dbm
TX Frequency Range (MHz)	GSM 850	GSM1900	WCDMA B4
	824.2-848.8	1850.2-1909.8	1712.4-1752.6
Channel Number (ARFCN)	GSM 850	GSM1900	WCDMA B4
	128-251	512-810	1312-1513
VOIP Function	No		
Battery Type	3.7 V Lithium-Ion		
Antenna Type	Internal Antenna		
Declaration	**Second solution(change Housing painting & Camera)**		
	Besides the original configuration, this model PB99100 also changed another Housing painting & Camera component as second solution. In order to find SAR value whether the same between original and second solution, we used spot-check method to check it. The result of GSM850/ 1900/WCDMA B4/WALN 802.11 b/g are within 20% deviation.		
Max. SAR Measured (1 g)	**Orignal solution**		
	GSM850		
	Head	Body	
	0.34 mW/g (At GSM 850 Right Head _Cheek Position_ 128 channel)	**1.39 mW/g** (At GSM 850 Body _ 190 channel_repeated with Welldone Battery)	

Max. SAR Measured (1 g)	GSM1900	
	Head	Body
	0.37 mW/g (At GSM 1900 Right Head _Cheek Position_ 512 channel)	**0.744 mW/g** (At GSM 1900 Body _ 512 channel
	WCDMA B4	
	Head	Body
	0.867 mW/g (At WCDMA B4 Right Head _Cheek Position_ 1412 channel repeated with Memory card)	**0.519 mW/g** (At WCDMA B4 Body _ 1412 channel
	WLAN 802.11 b	
	Body	
	0.067 mW/g (At WLAN 802.11b Body_ channel 1 repeated with Merry headset	
	WLAN 802.11 g	
	Body	
	0.022 mW/g (At WLAN 802.11b Body_ channel 1)	

Note:

1. WCDMA B4 HSDPA & HSUPA conducted power:

Mode	Sub-test	Band	WCDMA B4		
		Channel	1312	1412	1513
HSDPA	1	β_c/β_d (2/15)	23.01	22.72	22.5
	2	β_c/β_d(12/15)	22.6	22.32	22.08
	3	β_c/β_d(15/8)	22.53	22.27	21.97
	4	β_c/β_d(15/4)	22.6	22.28	22.09

Mode	Sub-test	Band	WCDMA B4		
		Channel	1312	1412	1513
HSUPA	1	β_c/β_d(11/15)	22.64	22.44	22.17
	2	β_c/β_d(6/15)	20.69	20.51	20.21
	3	β_c/β_d(15/9)	21.7	21.46	21.25
	4	β_c/β_d(2/15)	20.82	20.56	20.25
	5	β_c/β_d(15/15)	22.53	22.3	22.08

1.4 Test Environment

Ambient Temperature: 22±2° C
Tissue Simulating Liquid: 22±2° 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.
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 Welldone Battery.

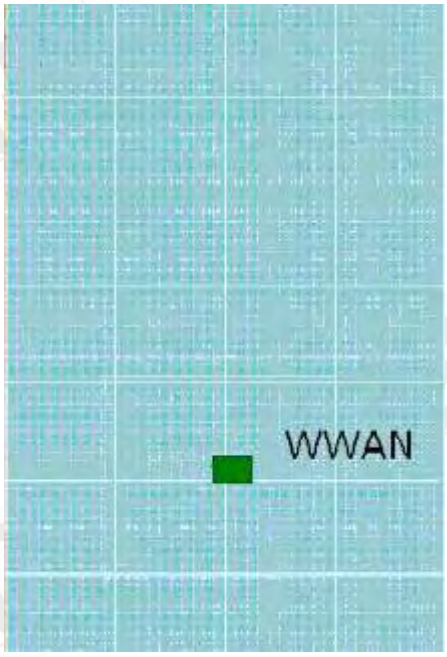
Additional configuration(Body):

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 Cotron headset.
12. For highest SAR configuration in this band repeated with Merry headset.
13. For highest SAR configuration in this band repeated with Welldone Battery

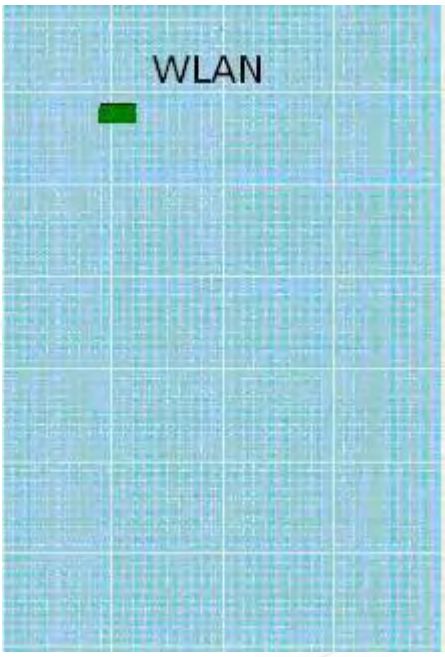
SAR evaluation considerations for handsets with multiple transmitters:

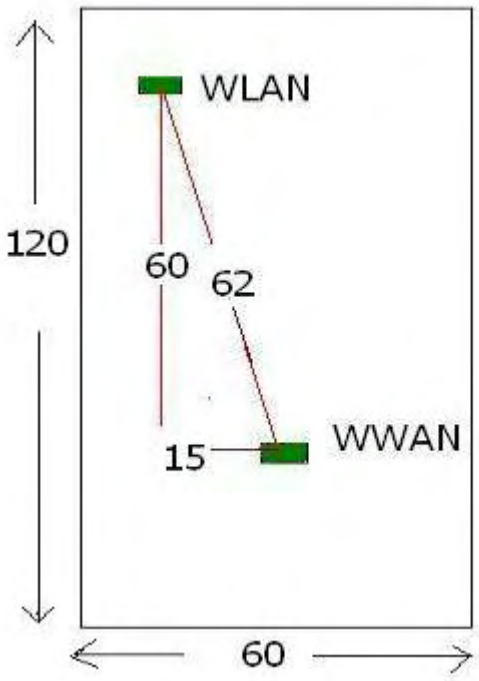
14. Since the WLAN function of this device does NOT support VoIP function. Users will not use it close to head. SAR evaluation of head adjacent is unnecessary, only Body condition will be considered for WLAN stand-alone situation.
15. The maximum SAR value for licensed transmitter happens on GSM 850 band, Body worn , channel 190 with Welldone Battery. the value is **1.39W/kg(1g)**. And the max SAR value for un-licensed transmitter WLAN 802.11b happens on Body worn, channel 1 with Merry headset The SAR value is **0.067W/kg (1g)** . The summation of the 1g SAR is 1.39+0.067 = **1.457 W/kg, which lower than the limit 1.6W/kg.**

GSM 850 Body_190 channel_ repeated with Welldone Battery



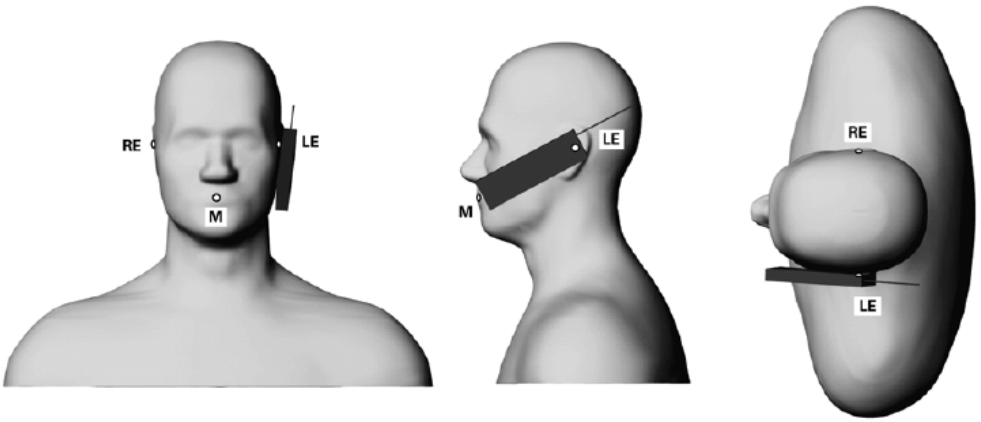
WLAN802.11 b_Body channel 1 _repeated with Merry headset



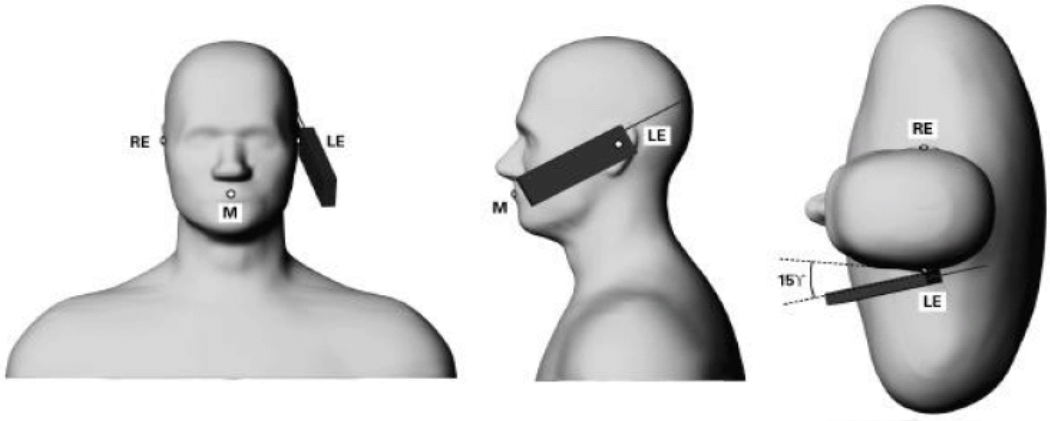


Unit：mm

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.

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

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 the 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= $\sigma (|Ei|^2)/ \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

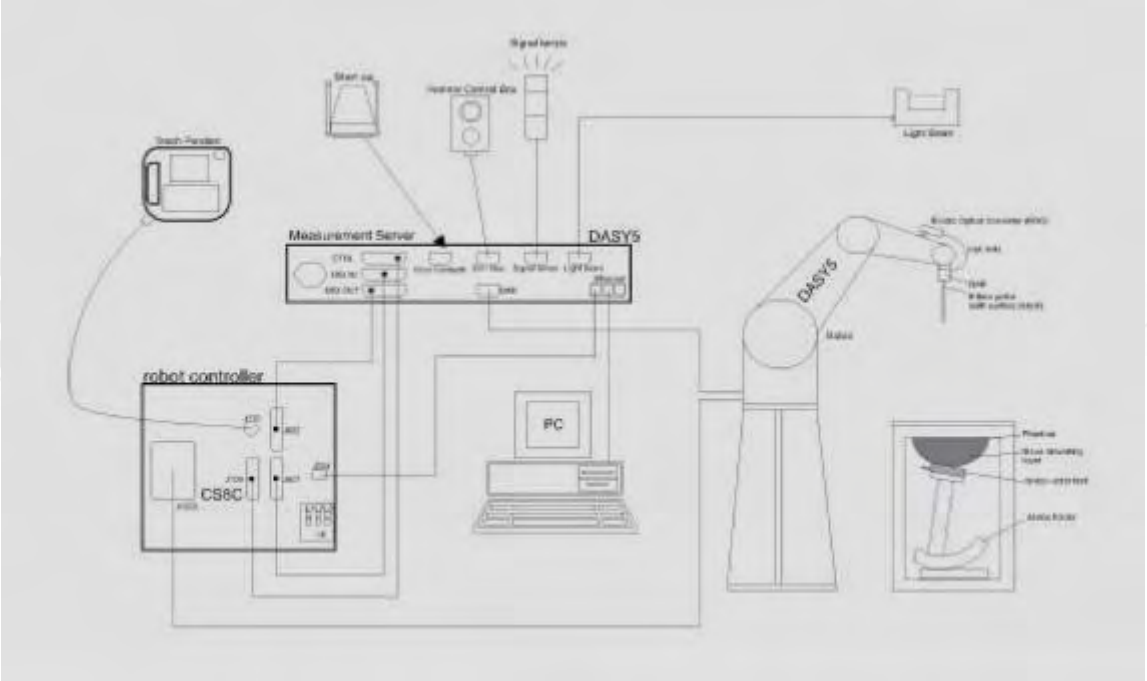


Fig.a The block diagram of SAR system

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

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)	 ES3DV3 E-Field Probe
Calibration:	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL850/1750/1900/2450 Additional CF for other liquids and frequencies upon request	
Frequency:	10 MHz to > 3 GHz; Linearity: ± 0.6 dB (30 MHz to 6 GHz)	
Directivity:	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range:	10 µW/g to > 100 mW/g; Linearity: ± 0.6 dB (noise: typically < 1 µW/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%.	

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).

Device Holder

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 850/1750/1900/2450 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.

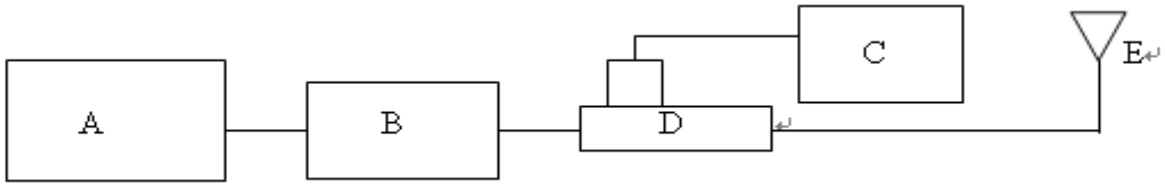
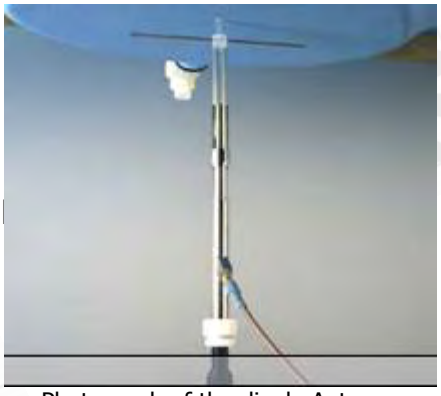


Fig.b The block diagram of SAR system verification

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	2.31 mW/g	2009/08/17
D835V2 S/N: 4d063	835 MHz (Body)	2.55 mW/g	2.52 mW/g	2009/08/18
D1900V2 S/N: 5d027	1900 MHz (Head)	10.5 mW/g	10.7 mW/g	2009/08/17
D1900V2 S/N: 5d027	1900 MHz (Body)	10.6 mW/g	11.1mW/g	2009/08/18
D1750V2 S/N: 1008	1750 MHz (Head)	9.59 mW/g	9.87 mW/g	2009/08/17

D1750V2 S/N: 1008	1750 MHz (Body)	9.25 mW/g	9.5 mW/g	2009/08/18
D2450V2 S/N: 735	2450 MHz (Body)	13.2 mW/g	12.8 mW/g	2009/08/18
D835V2 S/N: 4d063	835 MHz (Head)	2.38 mW/g	2.29 mW/g	2009/09/01
D835V2 S/N: 4d063	835 MHz (Body)	2.55 mW/g	2.51mW/g	2009/09/01
D1900V2 S/N: 5d027	1900 MHz (Head)	10.5 mW/g	10.6 mW/g	2009/09/01
D1900V2 S/N: 5d027	1900 MHz (Body)	10.6 mW/g	10.9 mW/g	2009/09/01
D1750V2 S/N: 1008	1750 MHz (Head)	9.59 mW/g	10 mW/g	2009/09/01
D1750V2 S/N: 1008	1750 MHz (Body)	9.25 mW/g	10.2 mW/g	2009/09/01
D2450V2 S/N: 735	2450 MHz (Body)	13.2 mW/g	12.9 mW/g	2009/09/01

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 conjuncation 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		
			ρ	σ (S/m)	Simulated Tissue Temperature(° C)
850	Head	Measured, 2009.08.17	40.5	0.879	21.7
		Recommended Limits	38.76-42.84	0.85-0.93	20-24
850	Body	Measured, 2009. 08.18	52.6	0.979	21.7
		Recommended Limits	51.11-56.49	0.96-1.06	20-24

1900	Head	Measured, 2009. 08.17	38.2	1.46	21.7
		Recommended Limits	36.67-40.53	1.4-1.54	20-24
1900	Body	Measured, 2009. 08.18	55.7	1.56	21.7
		Recommended Limits	52.16-57.65	1.48-1.64	20-24
1750	Head	Measured, 2009. 08.17	38.9	1.42	21.7
		Recommended Limits	36.96-40.85	1.3-1.44	20-24
1750	Body	Measured, 2009. 08.18	55.4	1.48	21.7
		Recommended Limits	52.44-57.96	1.36-1.5	20-24
2450	Body	Measured, 2009. 08.18	54.2	1.99	21.7
		Recommended Limits	51.68-57.12	1.88-2.08	20-24
850	Head	Measured, 2009.09.01	40.5	0.88	21.7
		Recommended Limits	38.76-42.84	0.85-0.93	20-24
850	Body	Measured, 2009. 09.01	52.4	0.978	21.7
		Recommended Limits	51.11-56.49	0.96-1.06	20-24
1900	Head	Measured, 2009. 09.01	38	1.48	21.7
		Recommended Limits	36.67-40.53	1.4-1.54	20-24
1900	Body	Measured, 2009. 09.01	55.5	1.55	21.7
		Recommended Limits	52.16-57.65	1.48-1.64	20-24
1750	Head	Measured, 2009. 09.01	39	1.43	21.7
		Recommended Limits	36.96-40.85	1.3-1.44	20-24
1750	Body	Measured, 2009. 09.01	55.2	1.49	21.7
		Recommended Limits	52.44-57.96	1.36-1.5	20-24
2450	Body	Measured, 2009. 09.01	54.3	2.01	21.7
		Recommended Limits	51.68-57.12	1.88-2.08	20-24

Table 2. Dielectric Parameters of Tissue Simulant Fluid

The composition of the brain tissue simulating liquid for 850 & 1750 & 1900 &2450 band:

Ingredient	850MHz (Head)	850MHz (Body)	1750MHz (Head)	1750MHz (Body)	1900MHz (Head)	1900MHz (Body)	2450Mhz (Body)
DGMBE	X	X	444.52 g	300.67g	444.52 g	300.67 g	301.7 ml
Water	532.98 g	631.68 g	552.42 g	716.56 g	552.42 g	716.56 g	698.3 ml
Salt	18.3 g	11.72 g	3.06 g	4.0 g	3.06 g	4.0 g	X
Preventol D-7	2.4 g	1.2 g	X	X	X	X	X
Cellulose	3.2 g	X	X	X	X	X	X
Sugar	766.0 g	600 g	X	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)	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.

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

Notes:

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

2. Summary of Results

Orignal 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	32.4dbm	0.289	22.1	21.7
	190	836.6	32.5dbm	0.286	22.1	21.7
	251	848.8	32.5dbm	0.259	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	32.4dbm	0.246	22.1	21.7
	190	836.6	32.5dbm	0.253	22.1	21.7
	251	848.8	32.5dbm	0.245	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	32.4dbm	0.195	22.1	21.7
	190	836.6	32.5dbm	0.201	22.1	21.7
	251	848.8	32.5dbm	0.181	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	32.4dbm	0.216	22.1	21.7
	190	836.6	32.5dbm	0.219	22.1	21.7
	251	848.8	32.5dbm	0.201	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]
850 MHz	128	824.2	29.7dbm	1.08	22.1	21.7
	190	836.6	29.5dbm	1.22	22.1	21.7
	251	848.8	29.5dbm	1.16	22.1	21.7
Body worn (testing in GPRS mode)_repeated for EUT front to phantom						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	190	836.6	29.5dbm	0.558	22.1	21.7
Body worn (testing in GPRS mode)_repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	190	836.6	29.5dbm	1.21	22.1	21.7
Body worn (testing in GPRS mode)_repeated with Cotron headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	190	836.6	29.5dbm	0.749	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]
850 MHz	190	836.6	29.5dbm	1.06	22.1	21.7
Body worn (testing in GPRS mode)_repeated with Welldone Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	190	836.6	29.5dbm	1.27	22.1	21.7
Body worn (testing in EGPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	27dbm	0.357	22.1	21.7
	190	836.6	27.2dbm	0.398	22.1	21.7
	251	848.8	27.4dbm	0.393	22.1	21.7

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	28.5dbm	0.37	22.1	21.7
	661	1880	28.4dbm	0.315	22.1	21.7
	810	1909.8	28.7dbm	0.275	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	28.5dbm	0.249	22.1	21.7
	661	1880	28.4dbm	0.222	22.1	21.7
	810	1909.8	28.7dbm	0.185	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	28.5dbm	0.095	22.1	21.7
	661	1880	28.4dbm	0.077	22.1	21.7
	810	1909.8	28.7dbm	0.067	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	28.5dbm	0.074	22.1	21.7
	661	1880	28.4dbm	0.062	22.1	21.7
	810	1909.8	28.7dbm	0.057	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	28.1dbm	0.744	22.1	21.7
	661	1880	28.2dbm	0.608	22.1	21.7
	810	1909.8	28.1dbm	0.5	22.1	21.7

Body worn (testing in EGPRS mode)

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	25.4dbm	0.316	22.1	21.7
	661	1880	26dbm	0.258	22.1	21.7
	810	1909.8	25.7dbm	0.2	22.1	21.7

WCDMA BAND 4

Right Head (Cheek Position)

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B4	1312	1712.4	22.72dbm	0.6	22.1	21.7
	1412	1732.4	22.46dbm	0.84	22.1	21.7
	1513	1752.6	22.23dbm	0.554	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]
WCDMA B4	1312	1712.4	22.72dbm	0.55	22.1	21.7
	1412	1732.4	22.46dbm	0.696	22.1	21.7
	1513	1752.6	22.23dbm	0.479	22.1	21.7

Left 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 B4	1412	1732.4	22.46dbm	0.867	22.1	21.7

Left Head (Cheek Position)_repeated with Welldone Battery

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B4	1412	1732.4	22.46dbm	0.754	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 B4	1312	1712.4	22.72dbm	0.23	22.1	21.7
	1412	1732.4	22.46dbm	0.316	22.1	21.7
	1513	1752.6	22.23dbm	0.228	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 B4	1312	1712.4	22.72dbm	0.182	22.1	21.7
	1412	1732.4	22.46dbm	0.265	22.1	21.7
	1513	1752.6	22.23dbm	0.188	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B4	1312	1712.4	22.72dbm	0.408	22.1	21.7
	1412	1732.4	22.46dbm	0.519	22.1	21.7
	1513	1752.6	22.23dbm	0.389	22.1	21.7

WCDMA BAND 4 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 B4	1312	1712.4	23.01dbm	0.356	22.1	21.7
	1412	1732.4	22.72dbm	0.44	22.1	21.7
	1513	1752.6	22.5dbm	0.308	22.1	21.7

WCDMA BAND 4 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 B4	1312	1712.4	22.53dbm	0.328	22.1	21.7
	1412	1732.4	22.3dbm	0.417	22.1	21.7
	1513	1752.6	22.08dbm	0.292	22.1	21.7

WLAN802.11 b

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	1	2412	17.42dbm	0.065	22.1	21.7
	6	2437	17.28dbm	0.052	22.1	21.7
	11	2462	17.46dbm	0.046	22.1	21.7
Body worn- repeated for EUT front to phantom						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	1	2412	17.42dbm	0.011	22.1	21.7
Body worn-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	1	2412	17.42dbm	0.066	22.1	21.7
Body worn-repeated with Cotron headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	1	2412	17.42dbm	0.058	22.1	21.7
Body worn-repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	1	2412	17.42dbm	0.067	22.1	21.7
Body worn- repeated with Welldone Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	1	2412	17.42dbm	0.059	22.1	21.7

WLAN 802.11 g

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	13.09dbm	0.019	22.1	21.7
	6	2437	13.42dbm	0.013	22.1	21.7
	11	2462	13.57dbm	0.011	22.1	21.7

Second 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]
850MHz	128	824.2	32.2dbm	0.34	22.1	21.7
Body-Worn(testing in GPRS mode)_ repeated with Welldone Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850MHz	190	836.6	29.4dbm	1.39	22.1	21.7

PCS1900 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 10g	Amb. Temp[°C]	Liquid Temp[°C]
1800 MHz	512	1850.2	28.2dbm	0.297	22.1	21.7
Body Worn(testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 10g	Amb. Temp[°C]	Liquid Temp[°C]
1800 MHz	512	1850.2	28dbm	0.721	22.1	21.7

WCDMA Band 4

Right Head (Cheek Position)_repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 10g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B4	1412	1732.4	22.39dbm	0.815	22.1	21.7
Body Worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 10g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B4	1412	1732.4	22.42dbm	0.494	22.1	21.7
Body Worn _repeated with HSDPA mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 10g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B4	1412	1732.4	22.69dbm	0.472	22.1	21.7
Body Worn_ repeated with HSUPA mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 10g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B4	1412	1732.4	22.27dbm	0.446	22.1	21.7

WLAN802.11 b

Body Worn_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 10g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	1	2412	17.39dbm	0.065	22.1	21.7

WLAN802.11 g

Body Worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 10g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	1	2412	13.16dbm	0.023	22.1	21.7

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	850/1750/1900/2450MHz System Validation Dipole	D835V2	4d063	May.25.2009
		D1750V2	1008	May.07.2009
		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

4. Measurements

Date/Time: 08/17/2009 02:46:49

RE Cheek_CH128

DUT: PB99100;

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: HEAD900 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.871 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Right Section

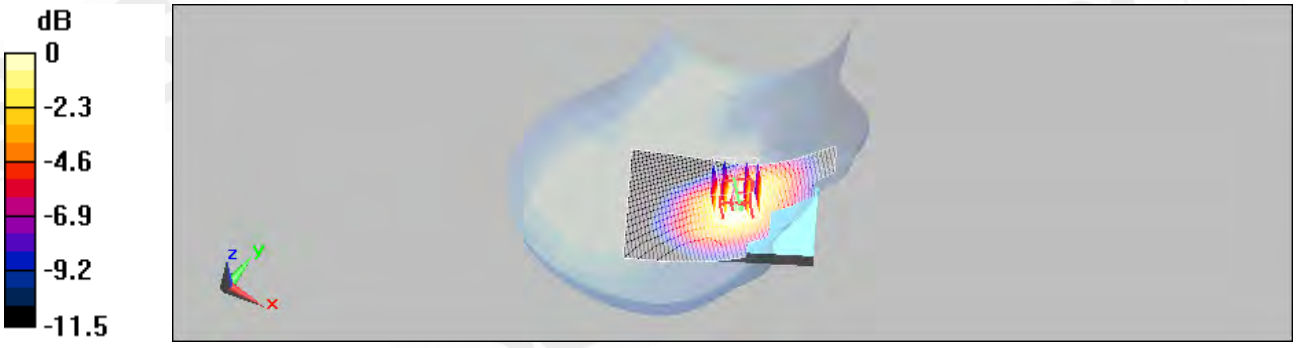
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.319 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.47 V/m; Power Drift = -0.166 dB
Peak SAR (extrapolated) = 0.391 W/kg

SAR(1 g) = 0.289 mW/g; SAR(10 g) = 0.209 mW/g
Maximum value of SAR (measured) = 0.308 mW/g



0 dB = 0.308mW/g

RE Cheek_CH190

DUT: PB99100;

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: HEAD900 Medium parameters used: f = 837 MHz; σ = 0.882 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Right Section

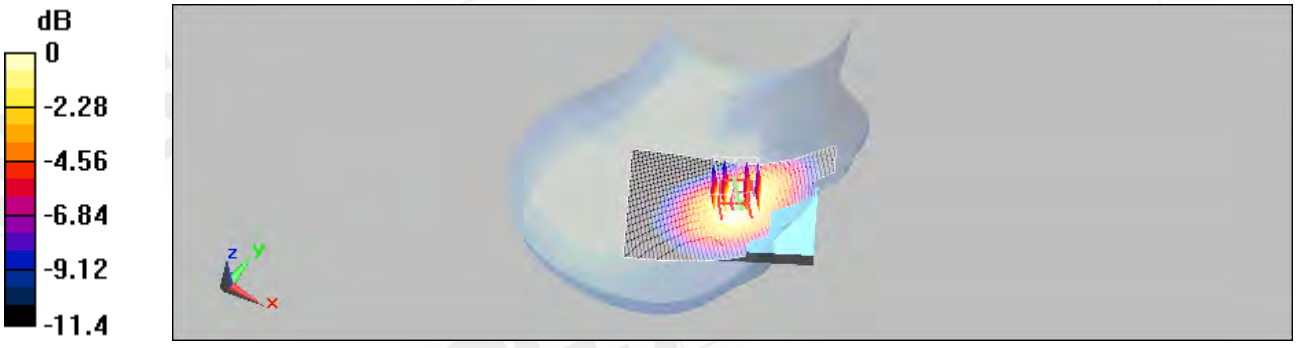
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.312 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.89 V/m; Power Drift = 0.146 dB
Peak SAR (extrapolated) = 0.383 W/kg

SAR(1 g) = 0.286 mW/g; SAR(10 g) = 0.206 mW/g
Maximum value of SAR (measured) = 0.306 mW/g



0 dB = 0.306mW/g

RE Cheek_CH251

DUT: PB99100;

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HEAD900 Medium parameters used: f = 849 MHz; σ = 0.895 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Right Section

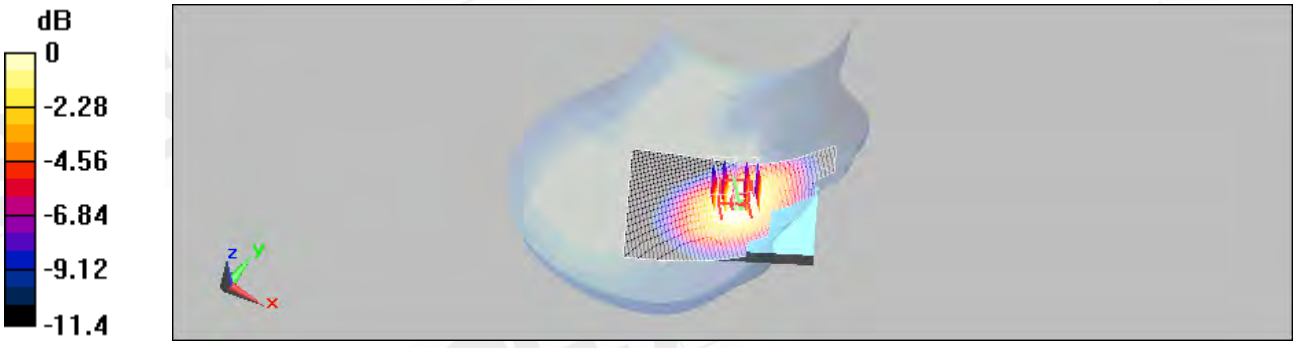
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.279 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.63 V/m; Power Drift = 0.165 dB
Peak SAR (extrapolated) = 0.345 W/kg

SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.188 mW/g
Maximum value of SAR (measured) = 0.276 mW/g



0 dB = 0.276mW/g

LE Cheek_CH128

DUT: PB99100;

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: HEAD900 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.871 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Left Section

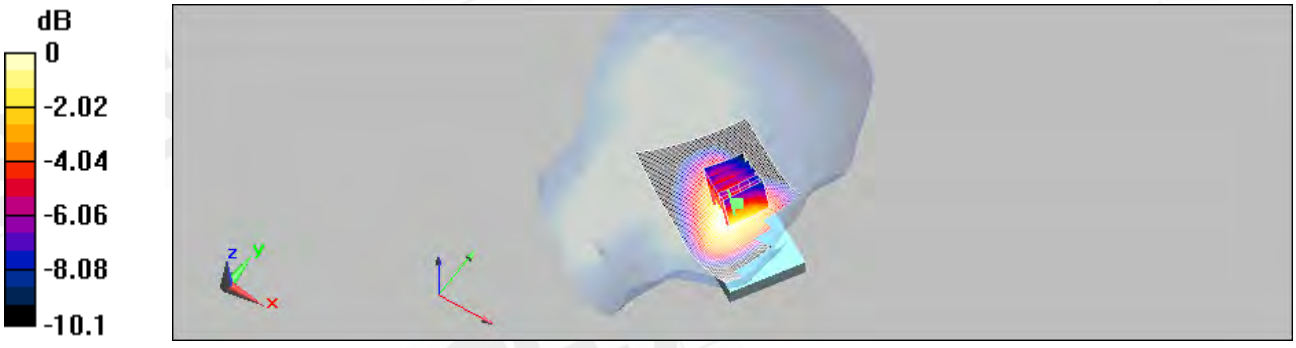
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.265 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.67 V/m; Power Drift = -0.00823 dB
Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.246 mW/g; SAR(10 g) = 0.181 mW/g
Maximum value of SAR (measured) = 0.255 mW/g



0 dB = 0.255mW/g

LE Cheek_CH190

DUT: PB99100;

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: HEAD900 Medium parameters used: f = 837 MHz; σ = 0.882 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Left Section

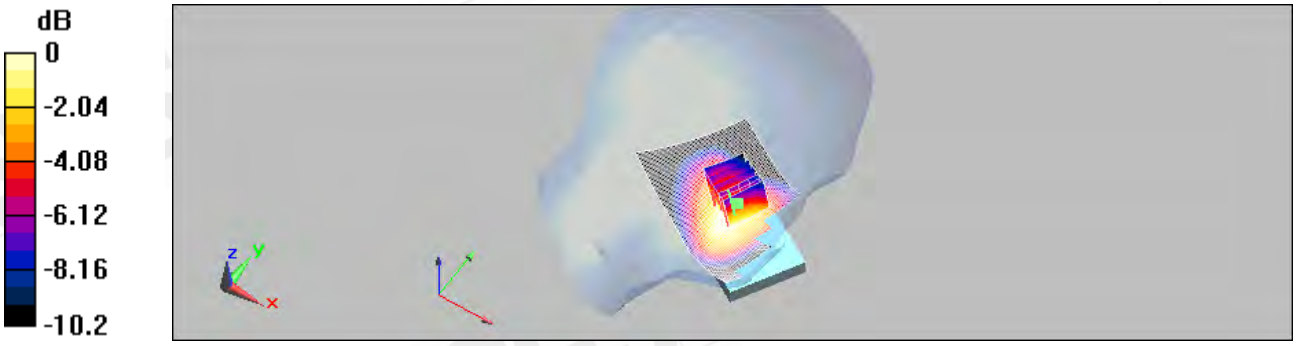
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.267 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.64 V/m; Power Drift = 0.071 dB
Peak SAR (extrapolated) = 0.321 W/kg

SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.186 mW/g
Maximum value of SAR (measured) = 0.262 mW/g



0 dB = 0.262mW/g

LE Cheek_CH251

DUT: PB99100;

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HEAD900 Medium parameters used: f = 849 MHz; σ = 0.895 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Left Section

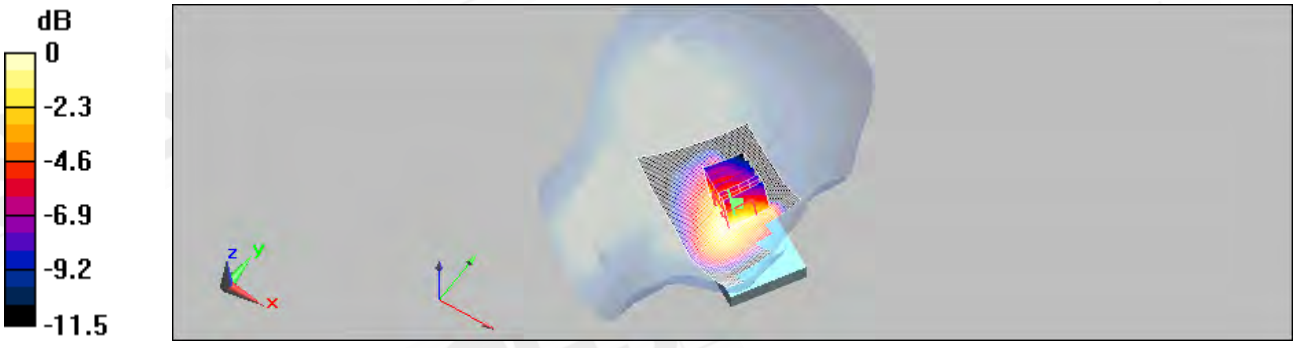
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.283 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.24 V/m; Power Drift = 0.166 dB
Peak SAR (extrapolated) = 0.307 W/kg

SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.175 mW/g
Maximum value of SAR (measured) = 0.257 mW/g



0 dB = 0.257mW/g

RE Tilt_CH128

DUT: PB99100;

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: HEAD900 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.871 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Right Section

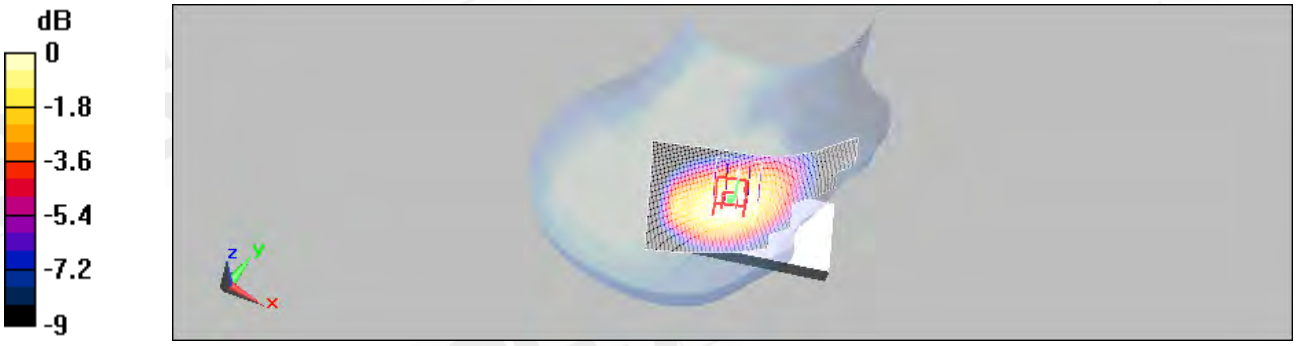
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.205 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.5 V/m; Power Drift = -0.038 dB
Peak SAR (extrapolated) = 0.243 W/kg

SAR(1 g) = 0.195 mW/g; SAR(10 g) = 0.147 mW/g
Maximum value of SAR (measured) = 0.203 mW/g



0 dB = 0.203mW/g

RE Tilt_CH190

DUT: PB99100;

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: HEAD900 Medium parameters used: f = 837 MHz; σ = 0.882 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Right Section

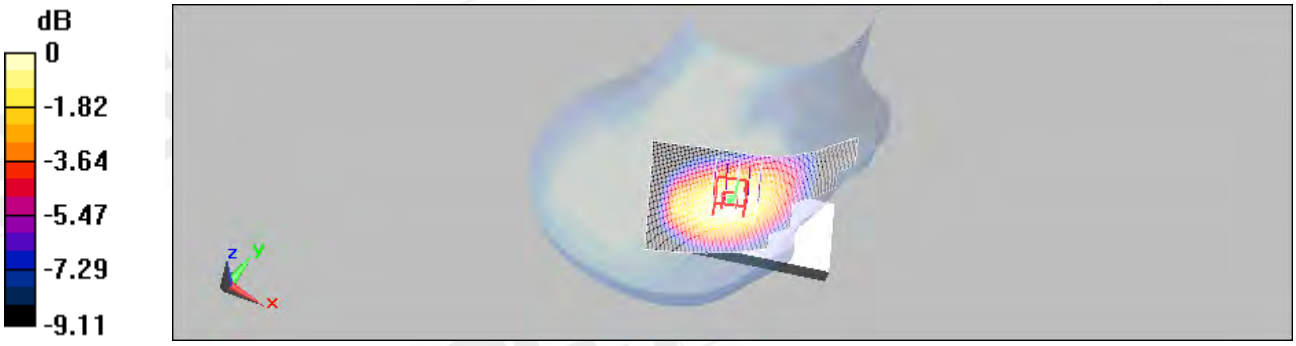
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.208 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.5 V/m; Power Drift = -0.00571 dB
Peak SAR (extrapolated) = 0.252 W/kg

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.151 mW/g
Maximum value of SAR (measured) = 0.209 mW/g



0 dB = 0.209mW/g

RE Tilt_CH251

DUT: PB99100;

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HEAD900 Medium parameters used: f = 849 MHz; σ = 0.895 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Right Section

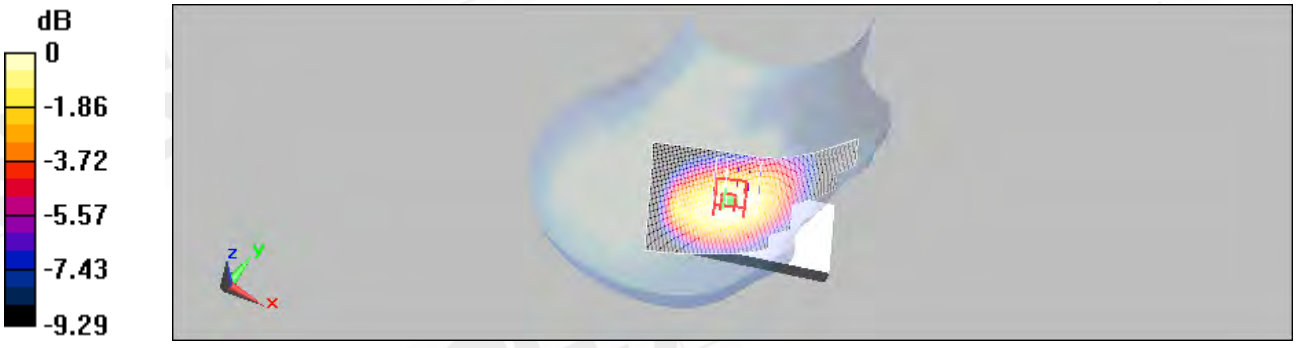
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.189 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.8 V/m; Power Drift = -0.010 dB
Peak SAR (extrapolated) = 0.227 W/kg

SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.136 mW/g
Maximum value of SAR (measured) = 0.188 mW/g



0 dB = 0.188mW/g

LE Tilt_CH128

DUT: PB99100;

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: HEAD900 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.871 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Left Section

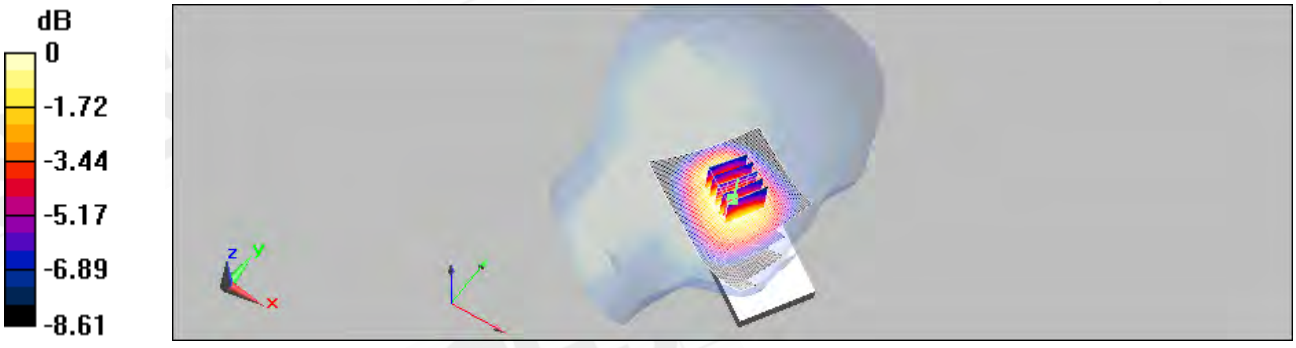
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.231 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.3 V/m; Power Drift = -0.024 dB
Peak SAR (extrapolated) = 0.269 W/kg

SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.162 mW/g
Maximum value of SAR (measured) = 0.226 mW/g



0 dB = 0.226mW/g

LE Tilt_CH190

DUT: PB99100;

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: HEAD900 Medium parameters used: f = 837 MHz; σ = 0.882 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Left Section

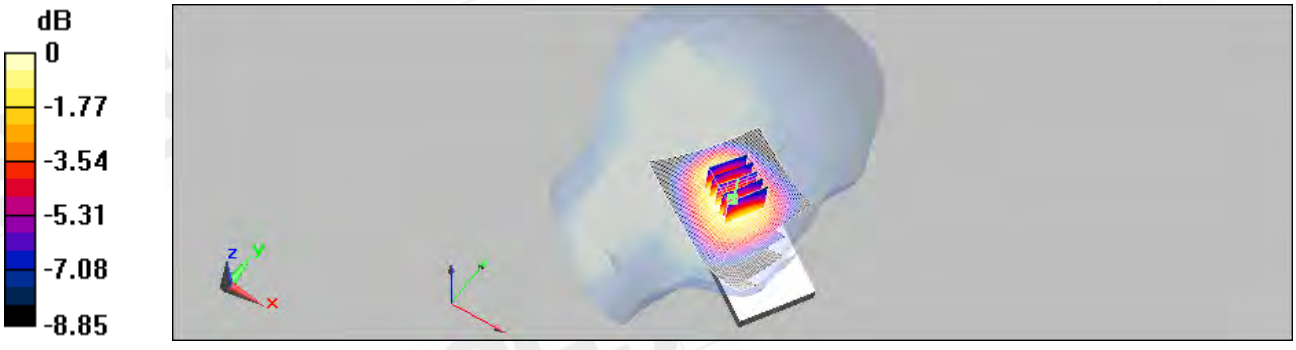
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.230 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.1 V/m; Power Drift = 0.071 dB
Peak SAR (extrapolated) = 0.276 W/kg

SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.164 mW/g
Maximum value of SAR (measured) = 0.230 mW/g



0 dB = 0.230mW/g

LE Tilt_CH251

DUT: PB99100;

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HEAD900 Medium parameters used: f = 849 MHz; σ = 0.895 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Left Section

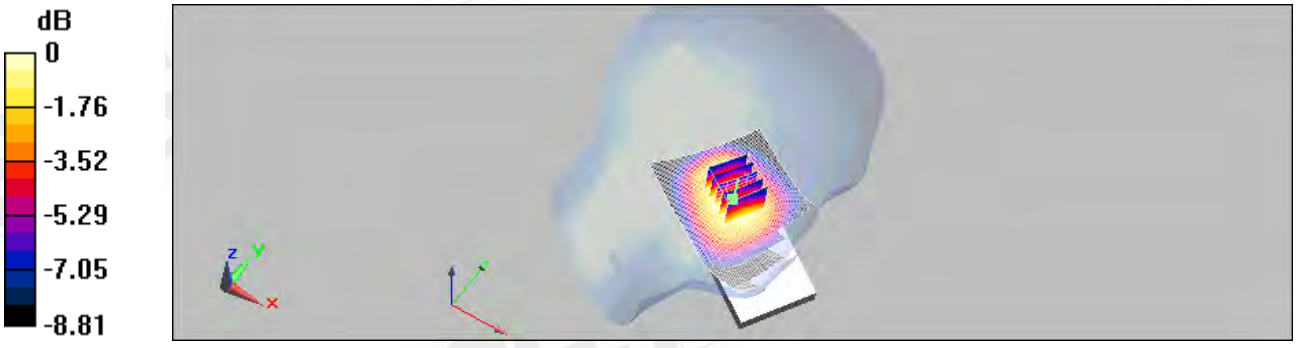
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.211 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.6 V/m; Power Drift = 0.073 dB
Peak SAR (extrapolated) = 0.253 W/kg

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.150 mW/g
Maximum value of SAR (measured) = 0.212 mW/g



0 dB = 0.212mW/g

BODY_CH128

DUT: PB99100;

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2
Medium: BODY900 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.975 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

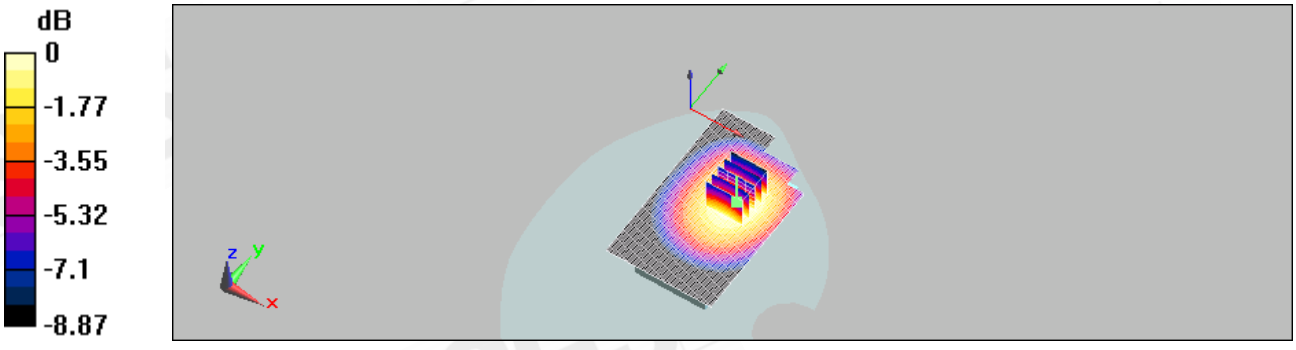
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.14 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.4 V/m; Power Drift = -0.073 dB
Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.807 mW/g
Maximum value of SAR (measured) = 1.14 mW/g



0 dB = 1.14mW/g

BODY_CH190

DUT: PB99100;

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium: BODY900 Medium parameters used: f = 837 MHz; σ = 0.979 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section

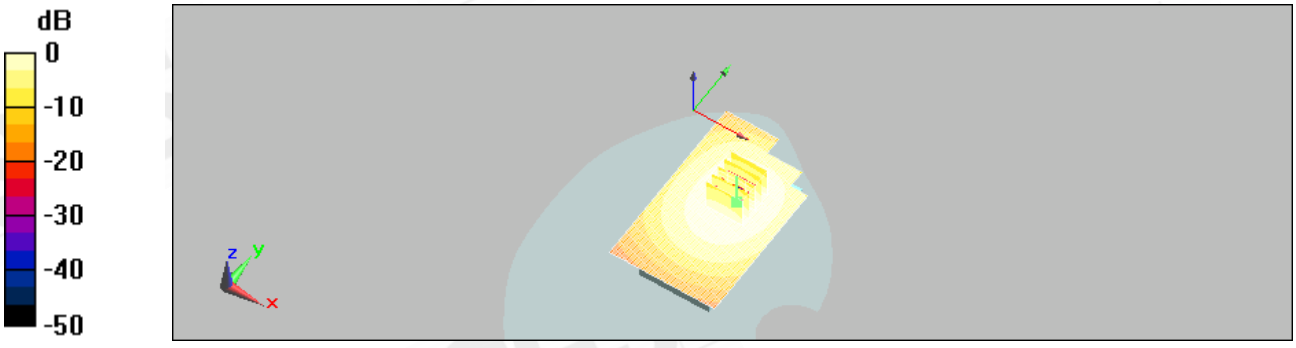
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.28 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.3 V/m; Power Drift = -0.035 dB
Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.857 mW/g
Maximum value of SAR (measured) = 1.29 mW/g



0 dB = 1.29mW/g

BODY_CH251

DUT: PB99100;

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:2
Medium: BODY900 Medium parameters used: f = 849 MHz; σ = 0.982 mho/m; ε_r = 52.4; ρ = 1000 kg/m^3
Phantom section: Flat Section

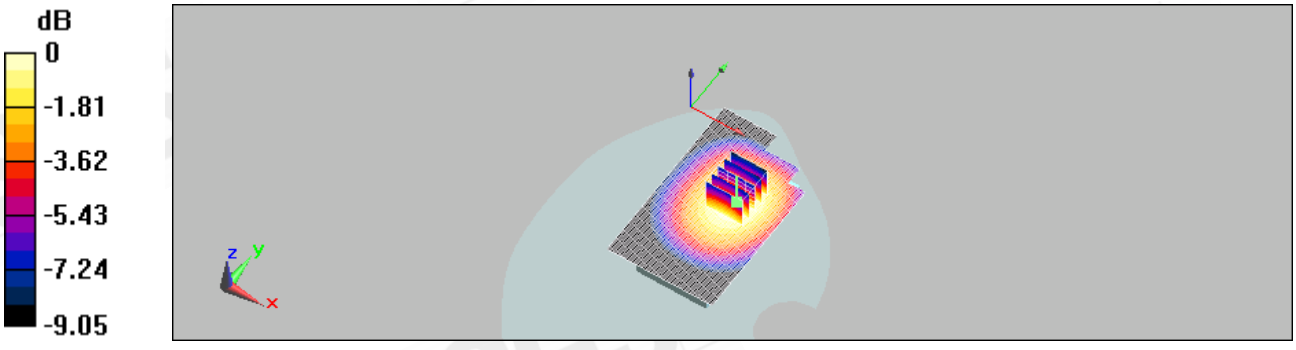
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.23 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.1 V/m; Power Drift = 0.046 dB
Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.860 mW/g
Maximum value of SAR (measured) = 1.22 mW/g



0 dB = 1.22mW/g

BODY_CH190_repeated for EUT front to phantom

DUT: PB99100;

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium: BODY900 Medium parameters used: f = 837 MHz; σ = 0.979 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section

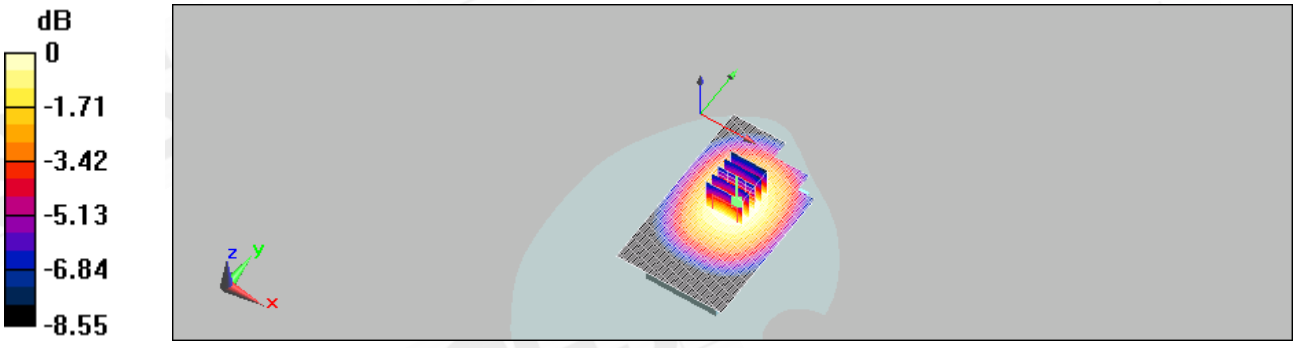
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.595 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.87 V/m; Power Drift = -0.184 dB
Peak SAR (extrapolated) = 0.701 W/kg

SAR(1 g) = 0.558 mW/g; SAR(10 g) = 0.422 mW/g
Maximum value of SAR (measured) = 0.584 mW/g



0 dB = 0.584mW/g

BODY_CH190_repeated with Memory card

DUT: PB99100;

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium: BODY900 Medium parameters used: f = 837 MHz; σ = 0.979 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section

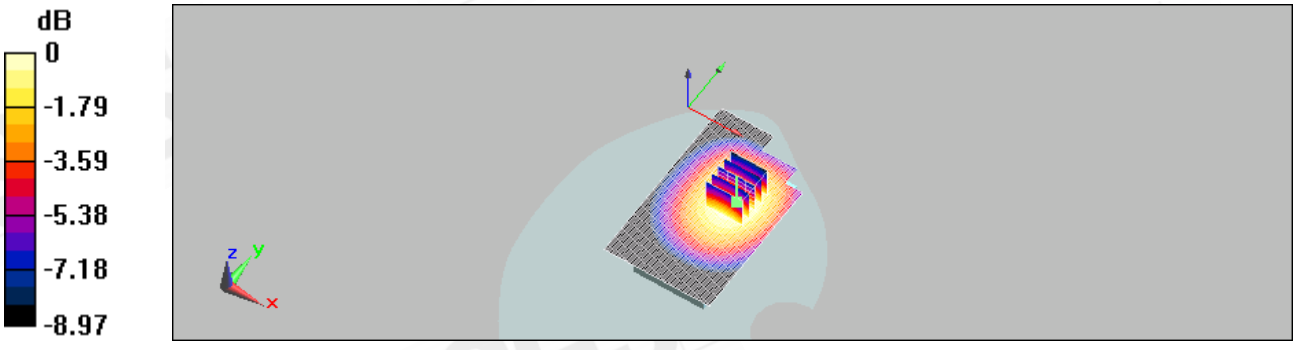
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.29 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.1 V/m; Power Drift = -0.146 dB
Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.903 mW/g
Maximum value of SAR (measured) = 1.28 mW/g



0 dB = 1.28mW/g

BODY_CH190_repeated with Cotron headset

DUT: PB99100;

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium: BODY900 Medium parameters used: f = 837 MHz; σ = 0.979 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section

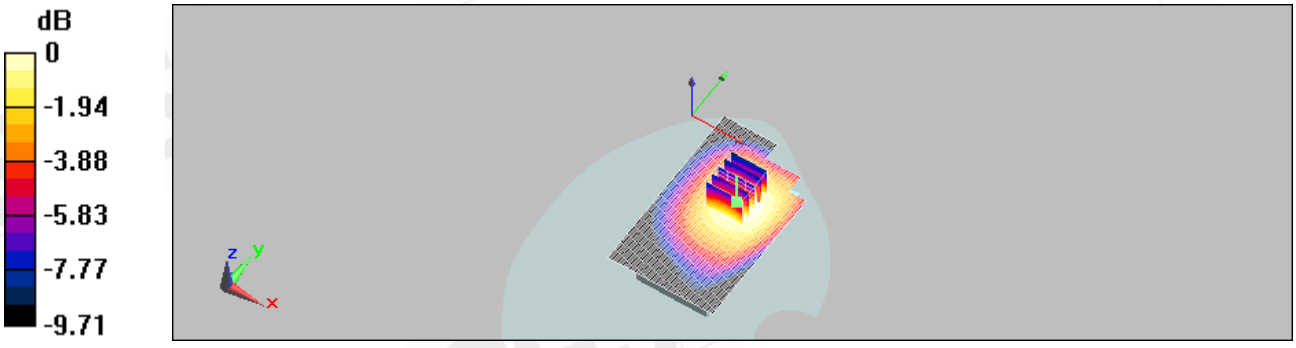
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.781 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.47 V/m; Power Drift = 0.207 dB
Peak SAR (extrapolated) = 0.973 W/kg

SAR(1 g) = 0.749 mW/g; SAR(10 g) = 0.551 mW/g
Maximum value of SAR (measured) = 0.788 mW/g



0 dB = 0.788mW/g

BODY_CH190_repeated with Merry headset

DUT: PB99100;

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium: BODY900 Medium parameters used: f = 837 MHz; σ = 0.979 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section

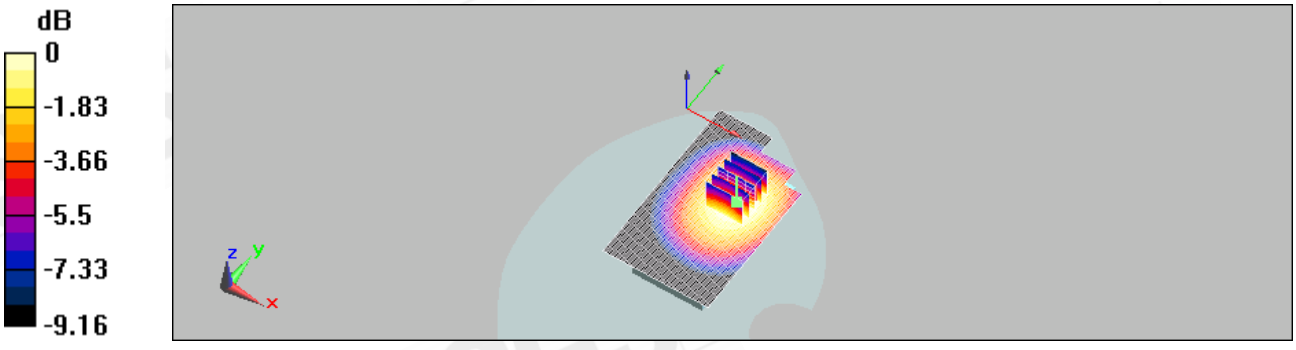
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.15 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.92 V/m; Power Drift = -0.173 dB
Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.790 mW/g
Maximum value of SAR (measured) = 1.12 mW/g



0 dB = 1.12mW/g

BODY_CH190_repeated with Welldone Battery

DUT: PB99100;

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium: BODY900 Medium parameters used: f = 837 MHz; σ = 0.979 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section

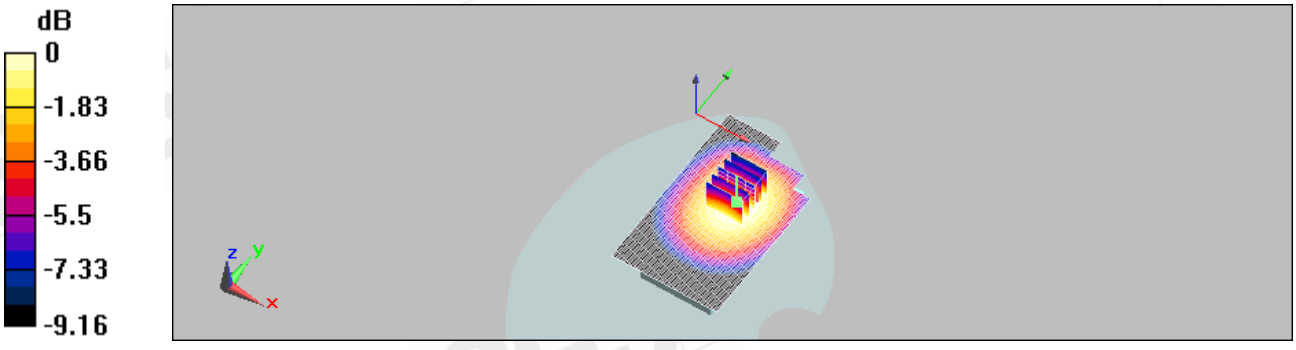
DASY5 Configuration:

- 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

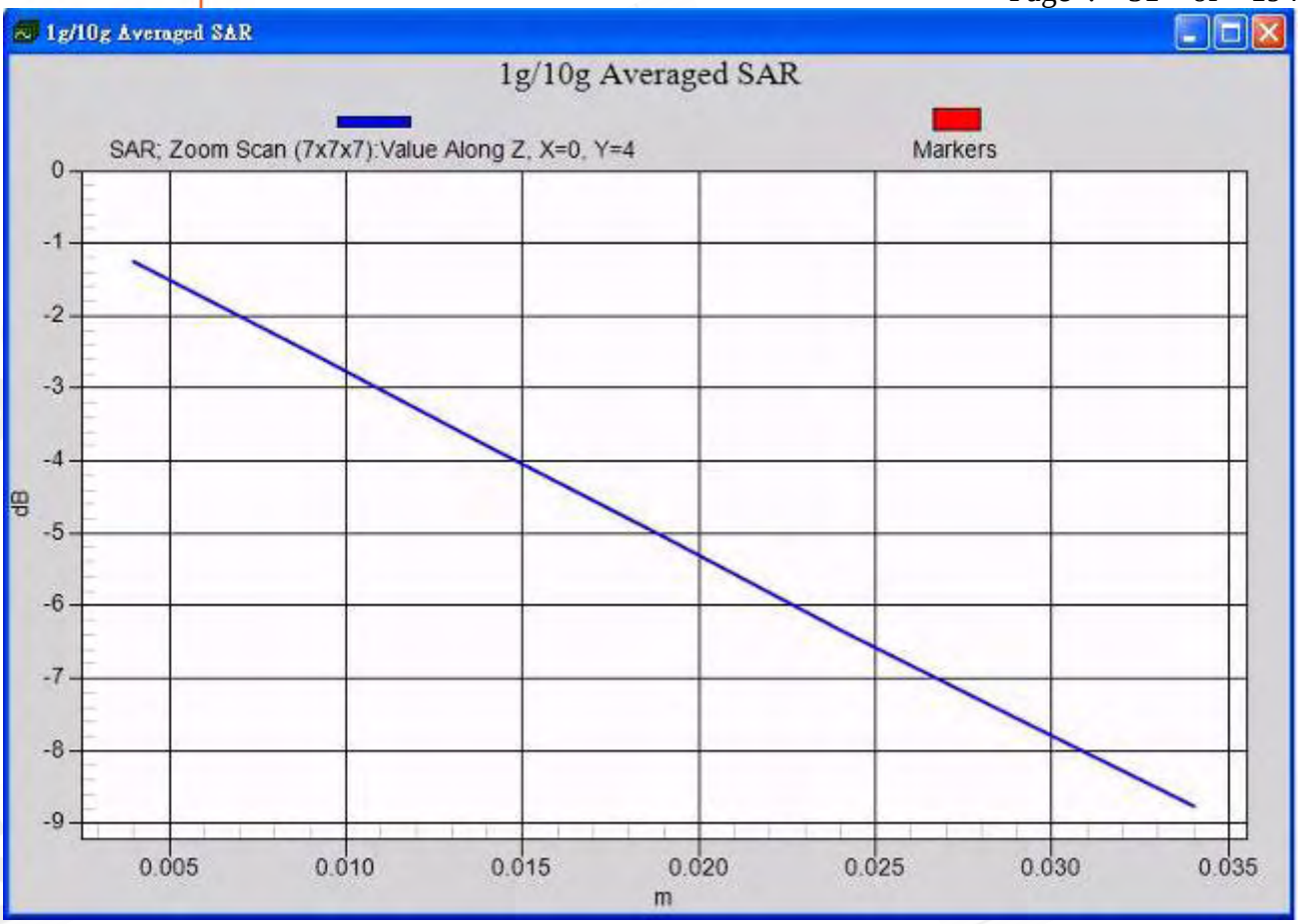
BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.37 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.1 V/m; Power Drift = -0.187 dB
Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.947 mW/g
Maximum value of SAR (measured) = 1.33 mW/g



0 dB = 1.33mW/g



BODY_CH128_repeated with EGPRS mode

DUT: PB99100;

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2
Medium: BODY900 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.975 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

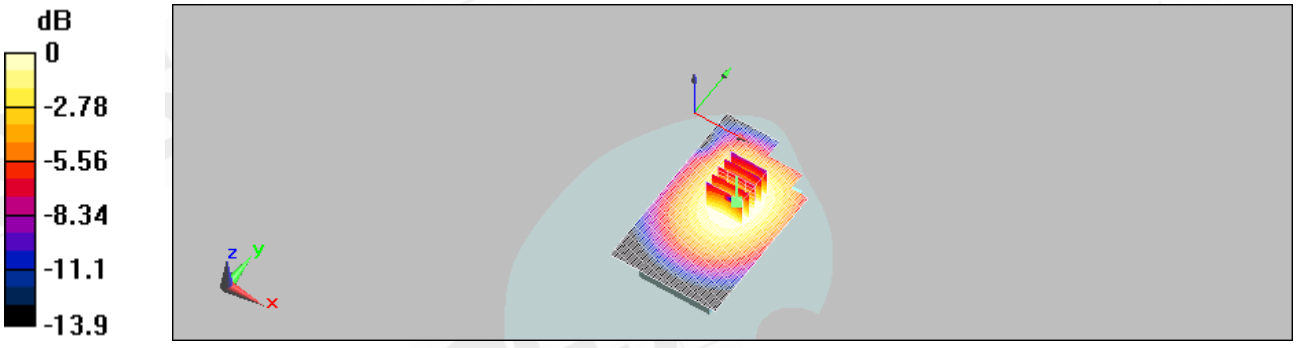
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.404 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.65 V/m; Power Drift = -0.214 dB
Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.265 mW/g
Maximum value of SAR (measured) = 0.375 mW/g



0 dB = 0.375mW/g

BODY_CH190_repeated with EGPRS mode

DUT: PB99100;

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium: BODY900 Medium parameters used: f = 837 MHz; σ = 0.979 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section

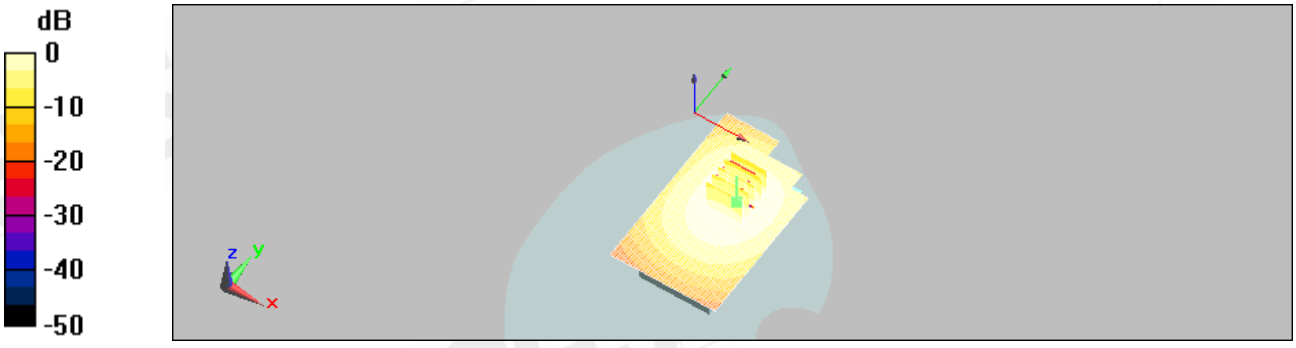
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.435 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.69 V/m; Power Drift = 0.194 dB
Peak SAR (extrapolated) = 0.539 W/kg

SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.268 mW/g
Maximum value of SAR (measured) = 0.434 mW/g



0 dB = 0.434mW/g

BODY_CH251_repeated with EGPRS mode

DUT: PB99100;

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:2
Medium: BODY900 Medium parameters used: f = 849 MHz; σ = 0.982 mho/m; ε_r = 52.4; ρ = 1000 kg/m^3
Phantom section: Flat Section

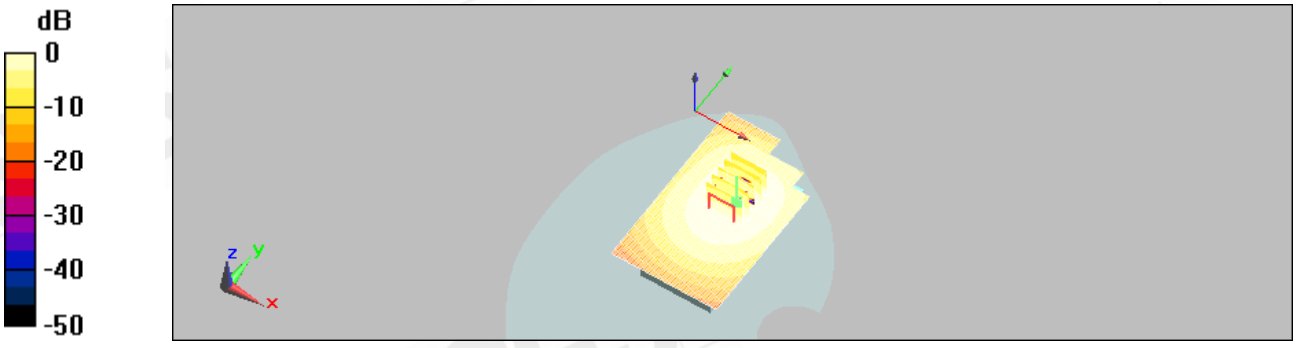
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.418 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.89 V/m; Power Drift = 0.088 dB
Peak SAR (extrapolated) = 0.496 W/kg

SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.288 mW/g
Maximum value of SAR (measured) = 0.420 mW/g



0 dB = 0.420mW/g

RE Cheek_CH512

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: Head1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.47 mho/m; ε_r = 38.9; ρ = 1000 kg/m^3
Phantom section: Right Section

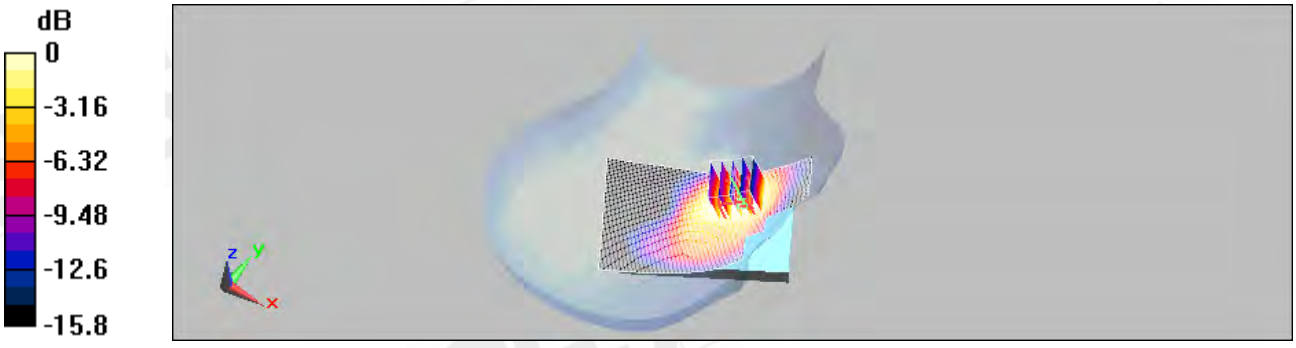
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.435 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.36 V/m; Power Drift = 0.138 dB
Peak SAR (extrapolated) = 0.633 W/kg

SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.215 mW/g
Maximum value of SAR (measured) = 0.386 mW/g



0 dB = 0.386mW/g

RE Cheek_CH661

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head1900 Medium parameters used: f = 1880 MHz; σ = 1.47 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Right Section

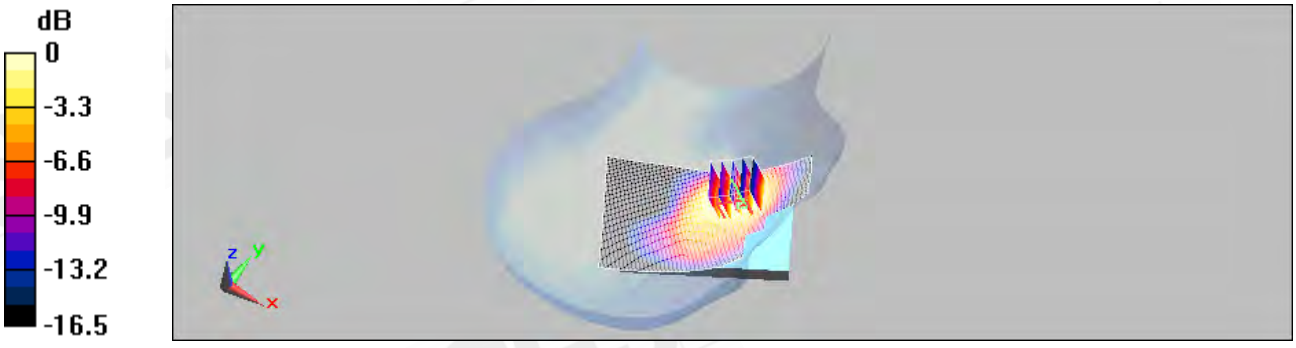
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.368 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.72 V/m; Power Drift = -0.067 dB
Peak SAR (extrapolated) = 0.549 W/kg

SAR(1 g) = 0.315 mW/g; SAR(10 g) = 0.177 mW/g
Maximum value of SAR (measured) = 0.350 mW/g



0 dB = 0.350mW/g

RE Cheek_CH810

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: Head1900 Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ε_r = 38.6; ρ = 1000 kg/m^3
Phantom section: Right Section

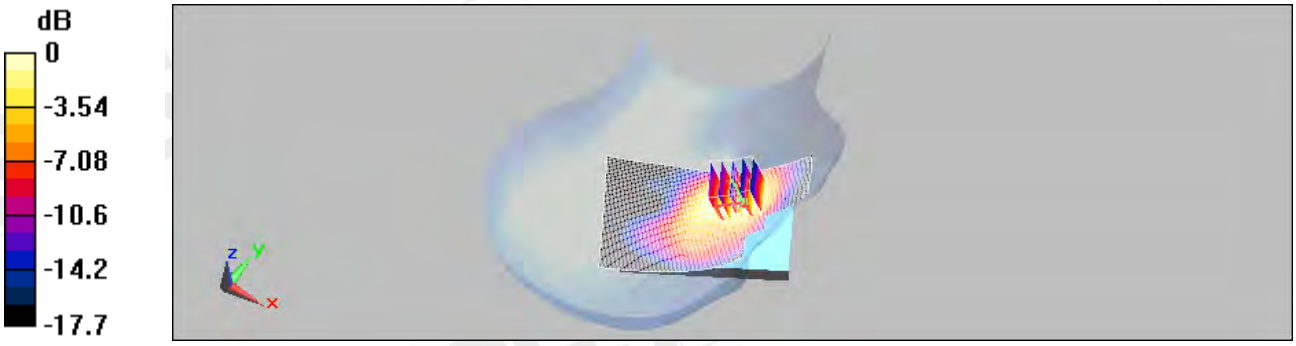
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.322 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.82 V/m; Power Drift = -0.120 dB
Peak SAR (extrapolated) = 0.485 W/kg

SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.151 mW/g
Maximum value of SAR (measured) = 0.304 mW/g



0 dB = 0.304mW/g

LE Cheek_CH512

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: Head1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.47 mho/m; ε_r = 38.9; ρ = 1000 kg/m^3
Phantom section: Left Section

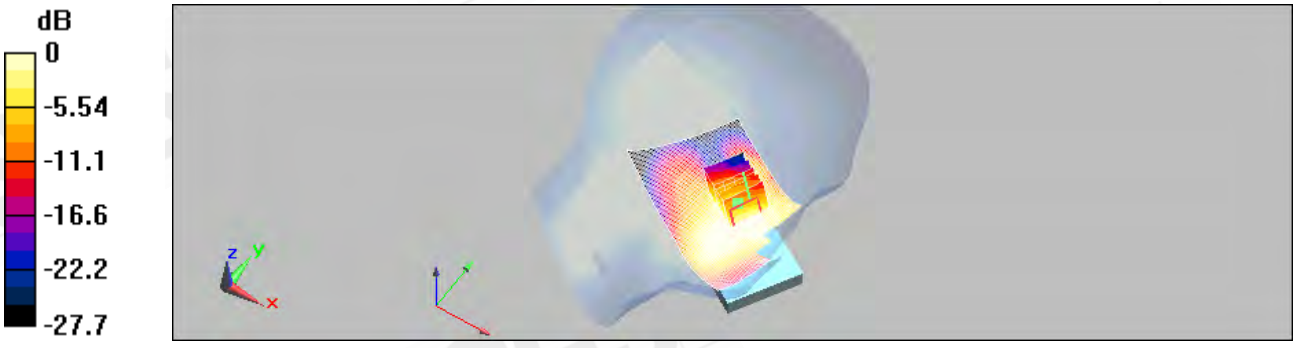
DASY5 Configuration:

- 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

RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.272 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.1 V/m; Power Drift = -0.166 dB
Peak SAR (extrapolated) = 0.458 W/kg

SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.150 mW/g
Maximum value of SAR (measured) = 0.259 mW/g



0 dB = 0.259mW/g

LE Cheek_CH661

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head1900 Medium parameters used: f = 1880 MHz; σ = 1.47 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Left Section

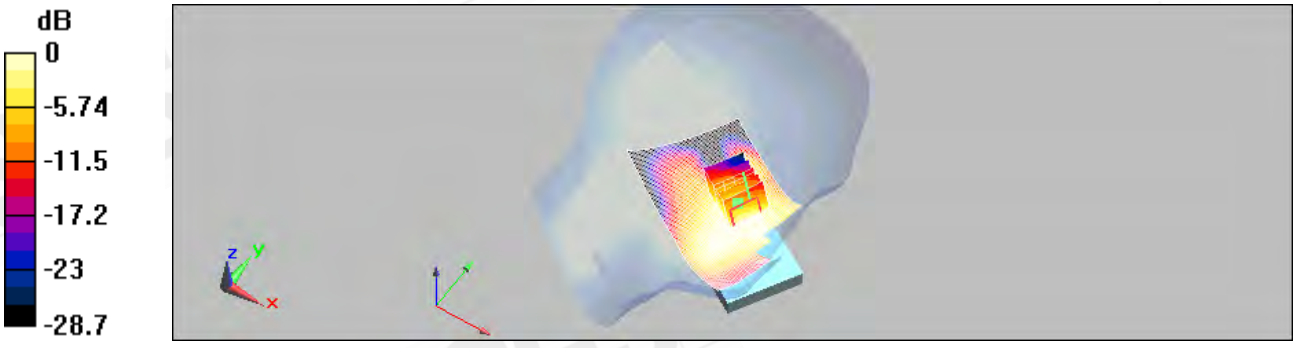
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.247 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.87 V/m; Power Drift = 0.078 dB
Peak SAR (extrapolated) = 0.412 W/kg

SAR(1 g) = 0.222 mW/g; SAR(10 g) = 0.132 mW/g
Maximum value of SAR (measured) = 0.229 mW/g



0 dB = 0.229mW/g

LE Cheek_CH810

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: Head1900 Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ε_r = 38.6; ρ = 1000 kg/m^3
Phantom section: Left Section

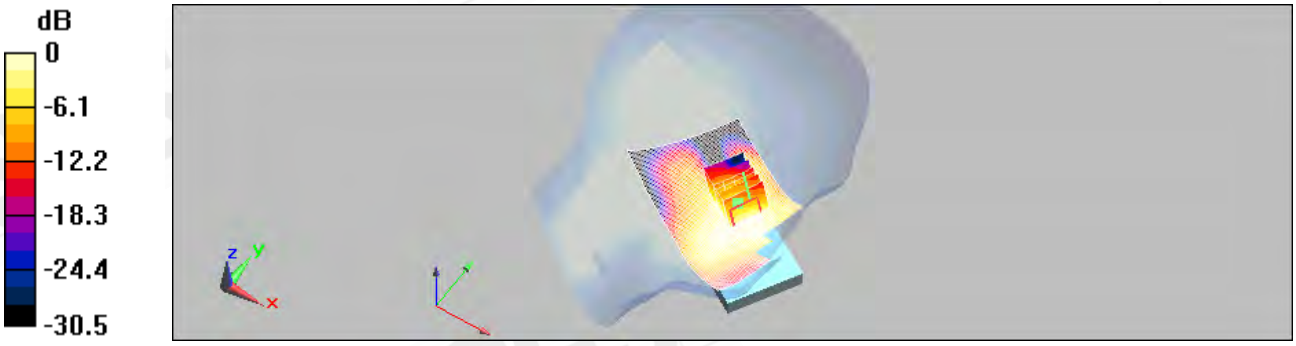
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.207 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.15 V/m; Power Drift = 0.088 dB
Peak SAR (extrapolated) = 0.330 W/kg

SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.110 mW/g
Maximum value of SAR (measured) = 0.197 mW/g



0 dB = 0.197mW/g

RE Tilt_CH512

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: Head1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.47 mho/m; ε_r = 38.9; ρ = 1000 kg/m^3
Phantom section: Right Section

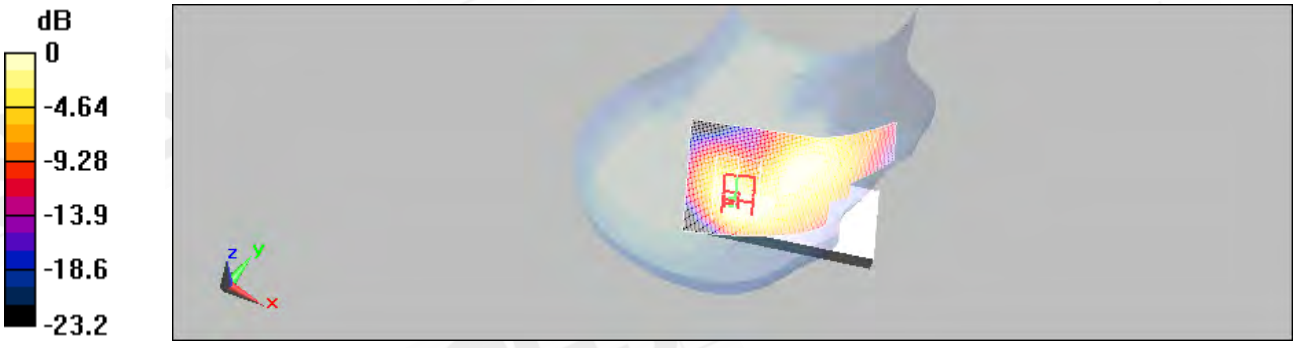
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.116 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.34 V/m; Power Drift = 0.161 dB
Peak SAR (extrapolated) = 0.161 W/kg

SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.056 mW/g
Maximum value of SAR (measured) = 0.098 mW/g



0 dB = 0.098mW/g

RE Tilt_CH661

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head1900 Medium parameters used: f = 1880 MHz; σ = 1.47 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Right Section

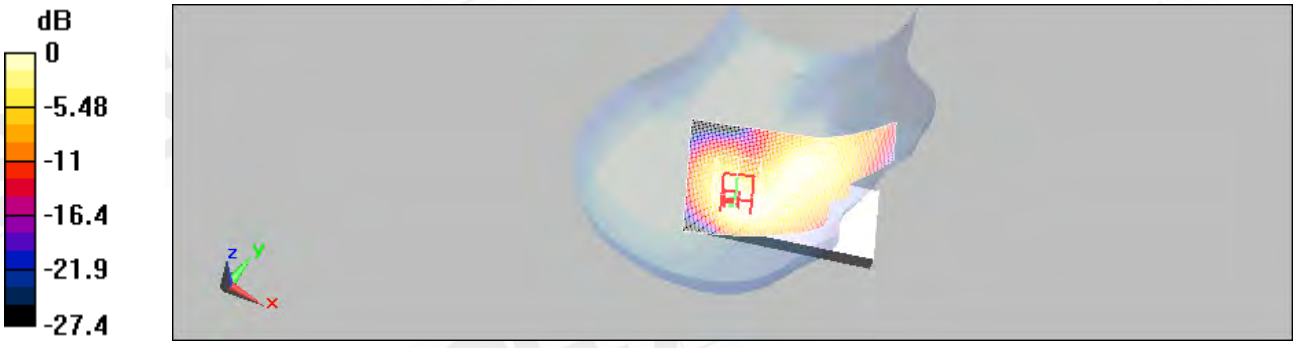
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.094 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.69 V/m; Power Drift = 0.053 dB
Peak SAR (extrapolated) = 0.130 W/kg

SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.044 mW/g
Maximum value of SAR (measured) = 0.080 mW/g



0 dB = 0.080mW/g

RE Tilt_CH810

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: Head1900 Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ε_r = 38.6; ρ = 1000 kg/m^3
Phantom section: Right Section

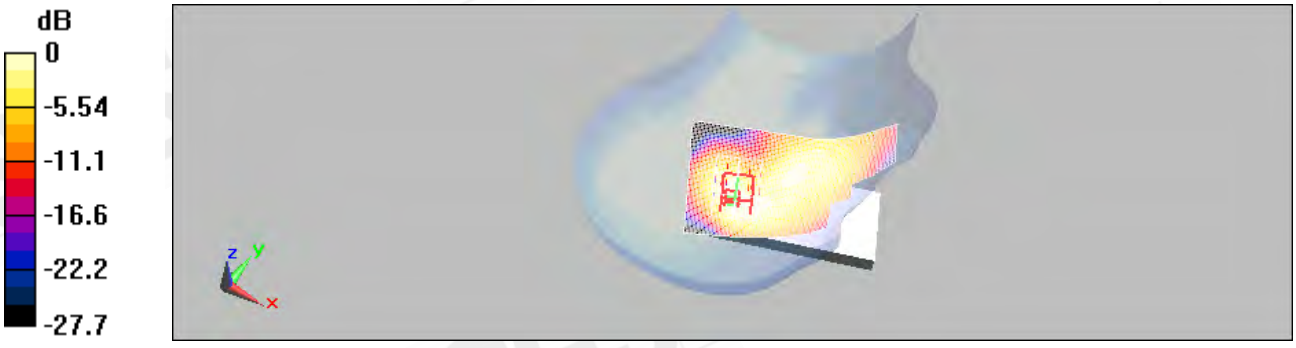
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.081 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.41 V/m; Power Drift = 0.071 dB
Peak SAR (extrapolated) = 0.114 W/kg

SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.038 mW/g
Maximum value of SAR (measured) = 0.071 mW/g



0 dB = 0.071mW/g

LE Tilt_CH512

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: Head1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.47 mho/m; ε_r = 38.9; ρ = 1000 kg/m^3
Phantom section: Left Section

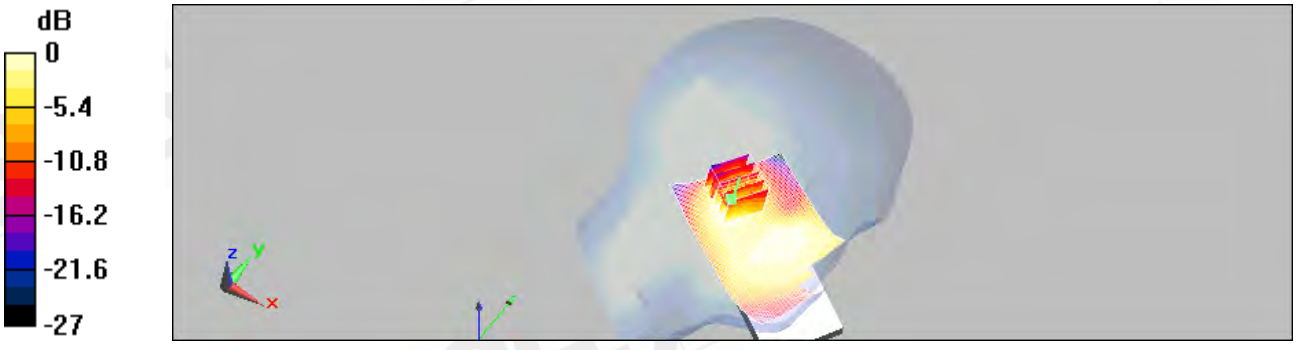
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.081 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.46 V/m; Power Drift = 0.077 dB
Peak SAR (extrapolated) = 0.118 W/kg

SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.044 mW/g
Maximum value of SAR (measured) = 0.083 mW/g



0 dB = 0.083mW/g

LE Tilt_CH661

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head1900 Medium parameters used: f = 1880 MHz; σ = 1.47 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Left Section

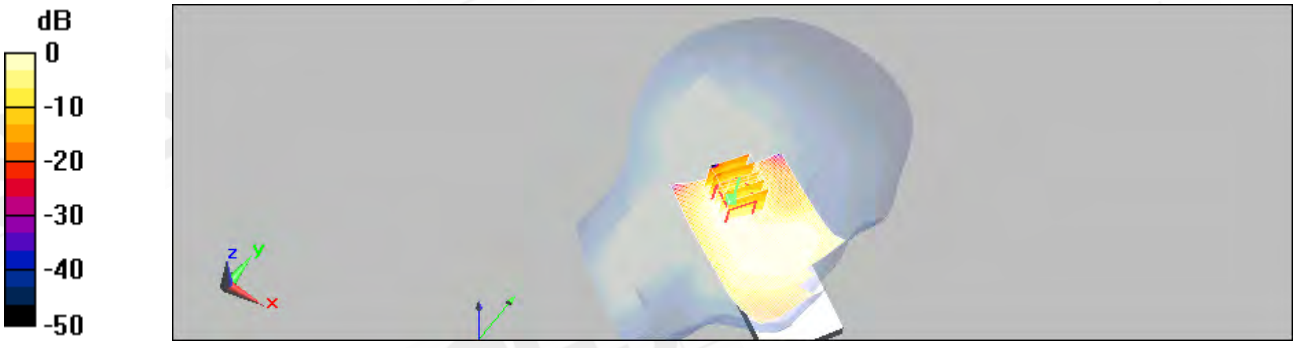
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.067 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.86 V/m; Power Drift = -0.043 dB
Peak SAR (extrapolated) = 0.099 W/kg

SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.036 mW/g
Maximum value of SAR (measured) = 0.069 mW/g



0 dB = 0.069mW/g

LE Tilt_CH810

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: Head1900 Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ε_r = 38.6; ρ = 1000 kg/m^3
Phantom section: Left Section

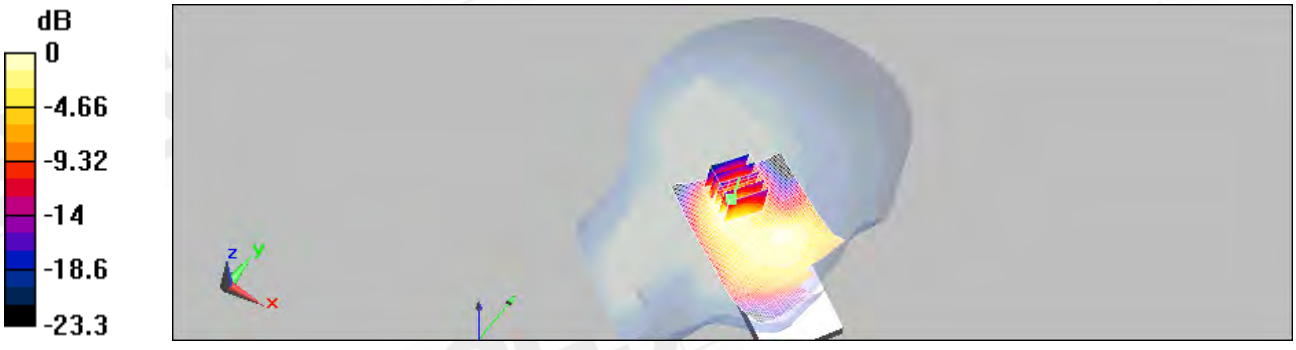
DASY5 Configuration:

- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.064 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.55 V/m; Power Drift = 0.083 dB
Peak SAR (extrapolated) = 0.093 W/kg

SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.032 mW/g
Maximum value of SAR (measured) = 0.064 mW/g



0 dB = 0.064mW/g

BODY_CH512

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2
Medium: BODY1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.51 mho/m; ε_r = 55.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

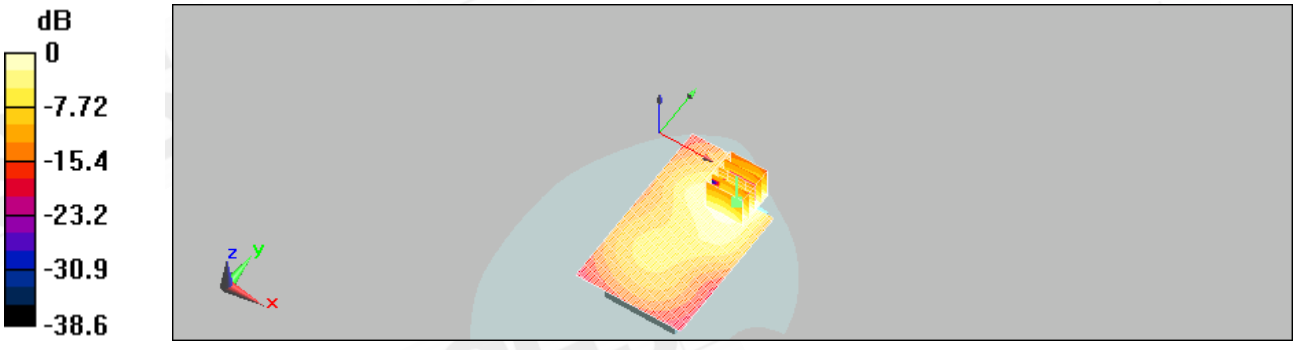
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.854 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.07 V/m; Power Drift = -0.201 dB
Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.744 mW/g; SAR(10 g) = 0.430 mW/g
Maximum value of SAR (measured) = 0.815 mW/g



0 dB = 0.815mW/g

BODY_CH661

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:2
Medium: BODY 1900 Medium parameters used: f = 1880 MHz; σ = 1.54 mho/m; ε_r = 55.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

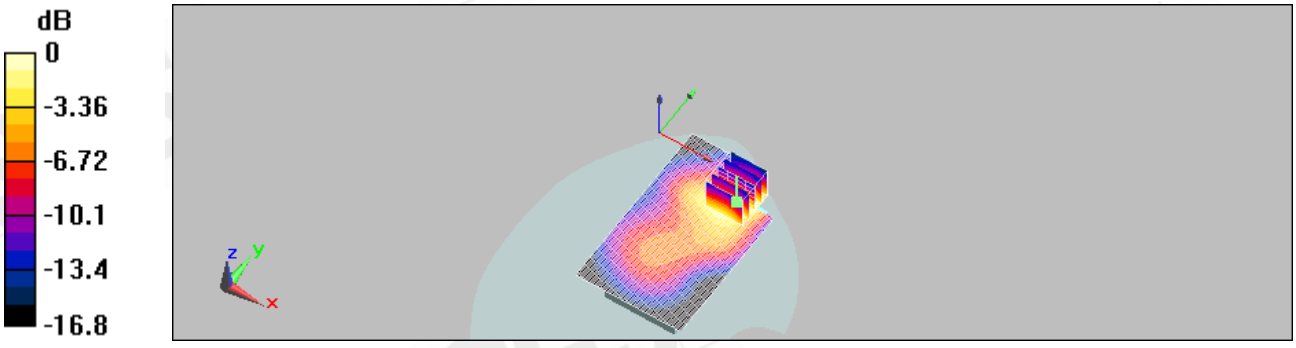
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.686 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.91 V/m; Power Drift = 0.152 dB
Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.608 mW/g; SAR(10 g) = 0.348 mW/g
Maximum value of SAR (measured) = 0.668 mW/g



0 dB = 0.668mW/g

BODY_CH810

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:2
Medium: BODY 1900 Medium parameters used: f = 1910 MHz; σ = 1.57 mho/m; ε_r = 55.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

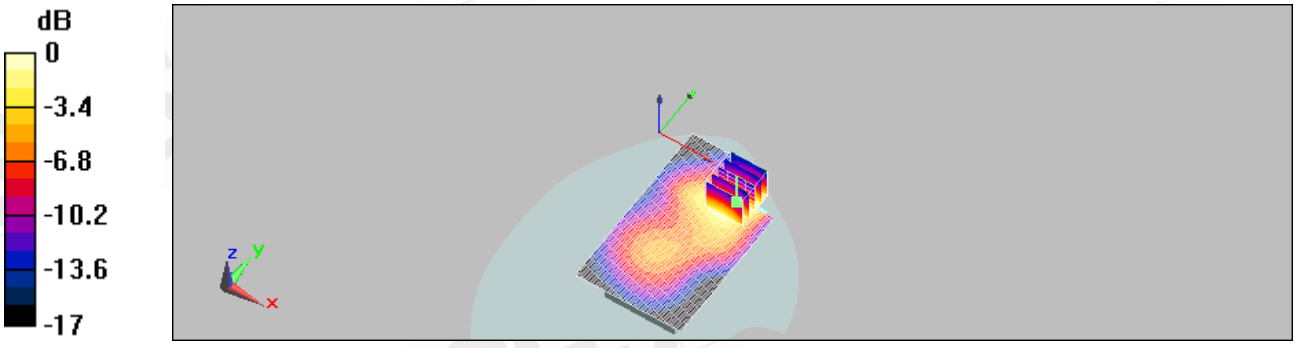
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.579 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.82 V/m; Power Drift = -0.024 dB
Peak SAR (extrapolated) = 0.834 W/kg

SAR(1 g) = 0.500 mW/g; SAR(10 g) = 0.284 mW/g
Maximum value of SAR (measured) = 0.548 mW/g



0 dB = 0.548mW/g

BODY_CH512_repeated with EGPRS mode

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2
Medium: BODY1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.51 mho/m; ε_r = 55.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

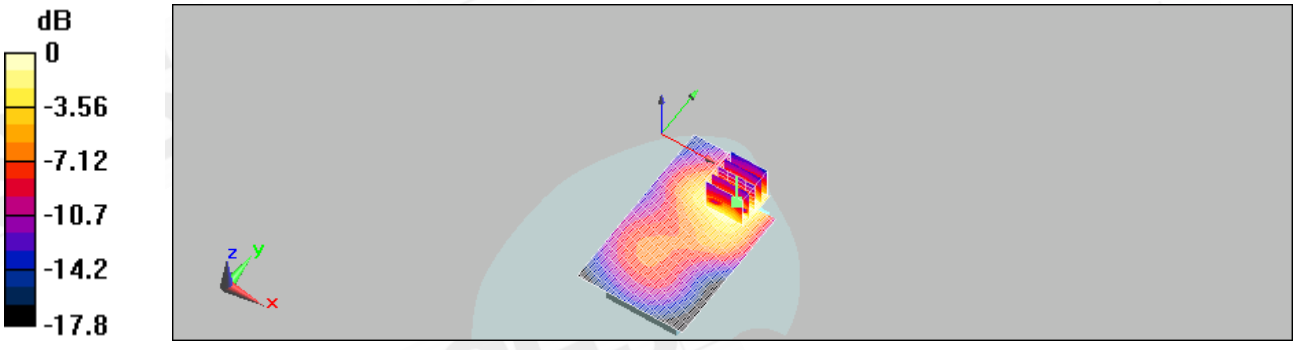
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.357 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.69 V/m; Power Drift = 0.150 dB
Peak SAR (extrapolated) = 0.661 W/kg

SAR(1 g) = 0.316 mW/g; SAR(10 g) = 0.185 mW/g
Maximum value of SAR (measured) = 0.342 mW/g



0 dB = 0.342mW/g

BODY_CH661_ repeated with EGPRS mode

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:2
Medium: BODY1900 Medium parameters used: f = 1880 MHz; σ = 1.54 mho/m; ε_r = 55.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

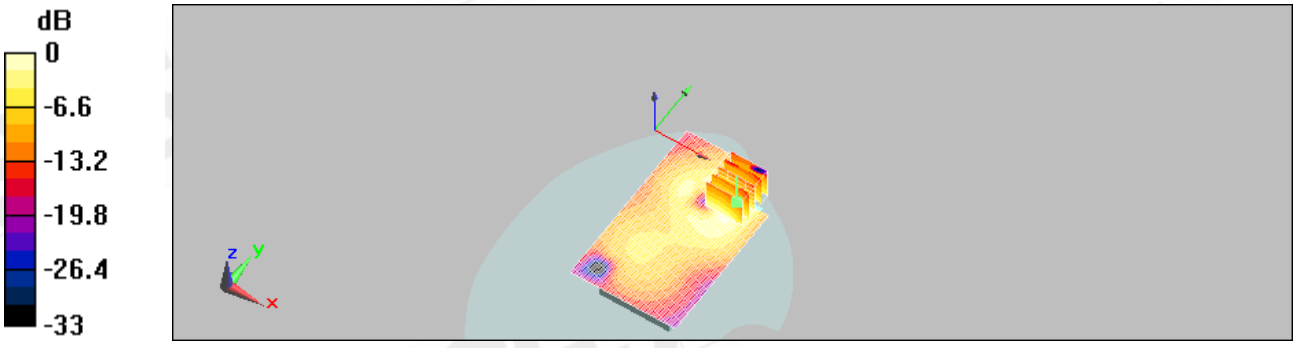
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.290 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.16 V/m; Power Drift = 0.164 dB
Peak SAR (extrapolated) = 0.420 W/kg

SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.153 mW/g
Maximum value of SAR (measured) = 0.273 mW/g



0 dB = 0.273mW/g

BODY_CH810_ repeated with EGPRS mode

DUT: PB99100;

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:2
Medium: BODY1900 Medium parameters used: f = 1910 MHz; σ = 1.57 mho/m; ε_r = 55.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

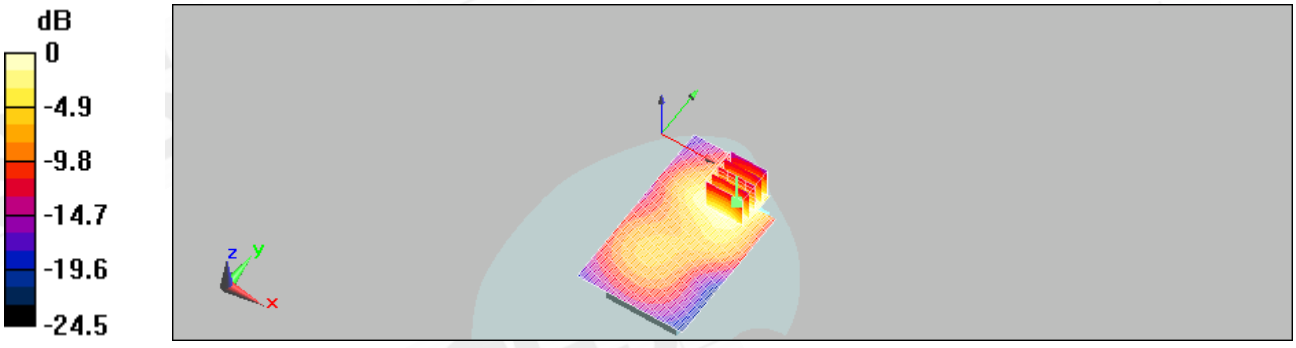
DASY5 Configuration:

- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.228 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.75 V/m; Power Drift = -0.041 dB
Peak SAR (extrapolated) = 0.318 W/kg

SAR(1 g) = 0.200 mW/g; SAR(10 g) = 0.119 mW/g
Maximum value of SAR (measured) = 0.221 mW/g



0 dB = 0.221mW/g

RE_Cheek_CH1312

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.4 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
Phantom section: Right Section

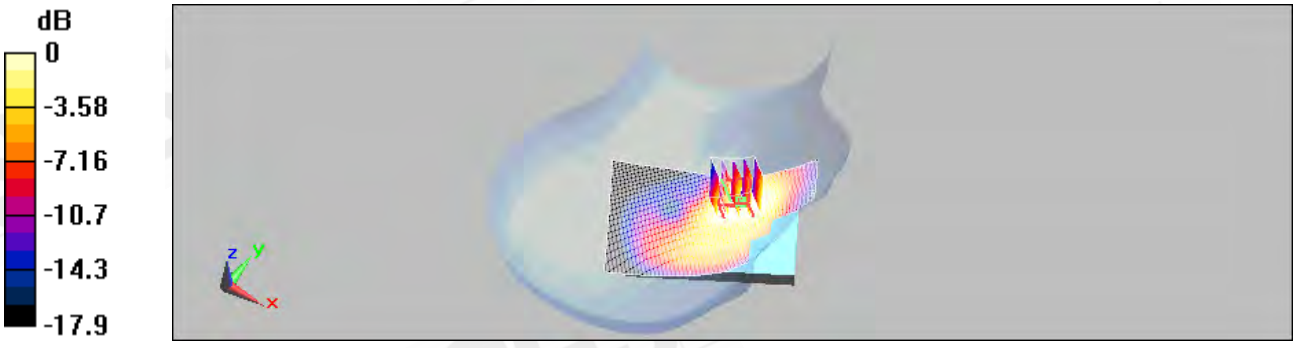
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.715 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.13 V/m; Power Drift = 0.020 dB
Peak SAR (extrapolated) = 0.974 W/kg

SAR(1 g) = 0.600 mW/g; SAR(10 g) = 0.378 mW/g
Maximum value of SAR (measured) = 0.655 mW/g



0 dB = 0.655mW/g

RE_Cheek_CH1412

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.41 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Right Section

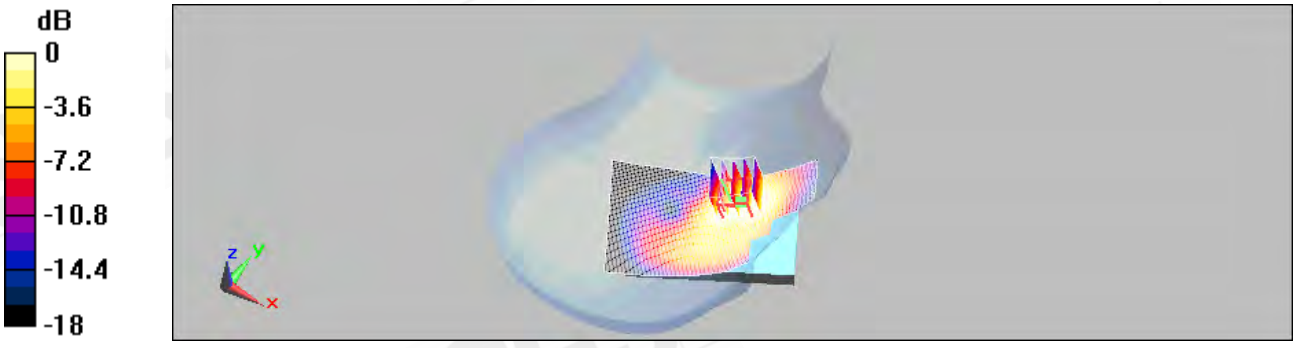
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.15 V/m; Power Drift = -0.089 dB
Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.840 mW/g; SAR(10 g) = 0.527 mW/g
Maximum value of SAR (measured) = 0.917 mW/g



0 dB = 0.917mW/g

RE_Cheek_CH1513

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used: f = 1753 MHz; σ = 1.43 mho/m; ε_r = 39.3; ρ = 1000 kg/m^3
Phantom section: Right Section

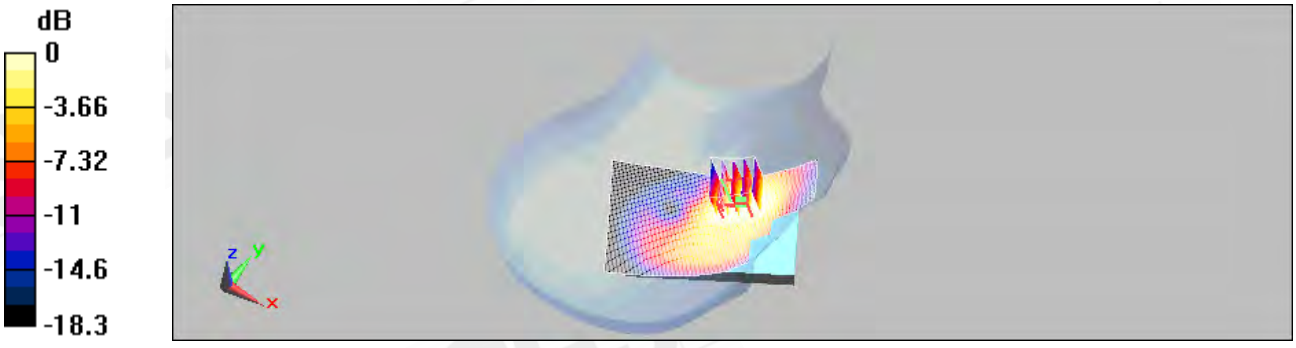
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.650 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.65 V/m; Power Drift = -0.031 dB
Peak SAR (extrapolated) = 0.923 W/kg

SAR(1 g) = 0.554 mW/g; SAR(10 g) = 0.345 mW/g
Maximum value of SAR (measured) = 0.609 mW/g



0 dB = 0.609mW/g

RE_Cheek_CH1412_repeated with Memory card

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.41 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Right Section

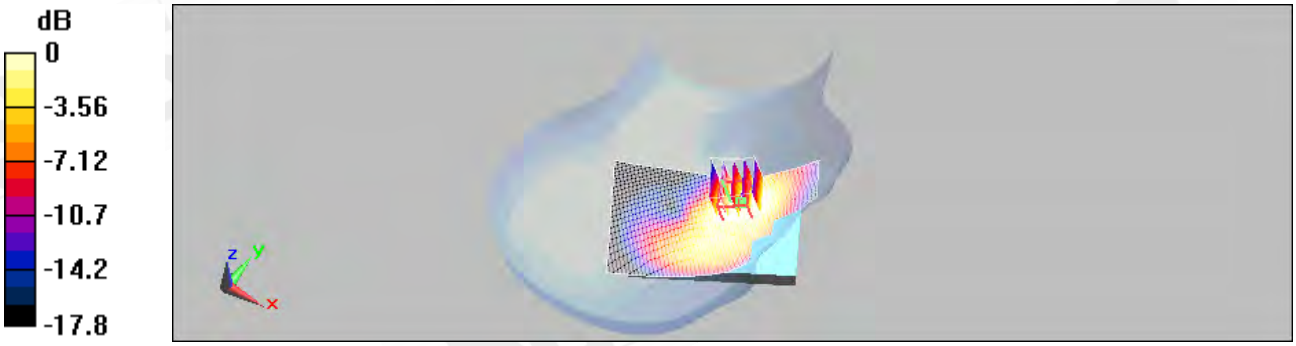
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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

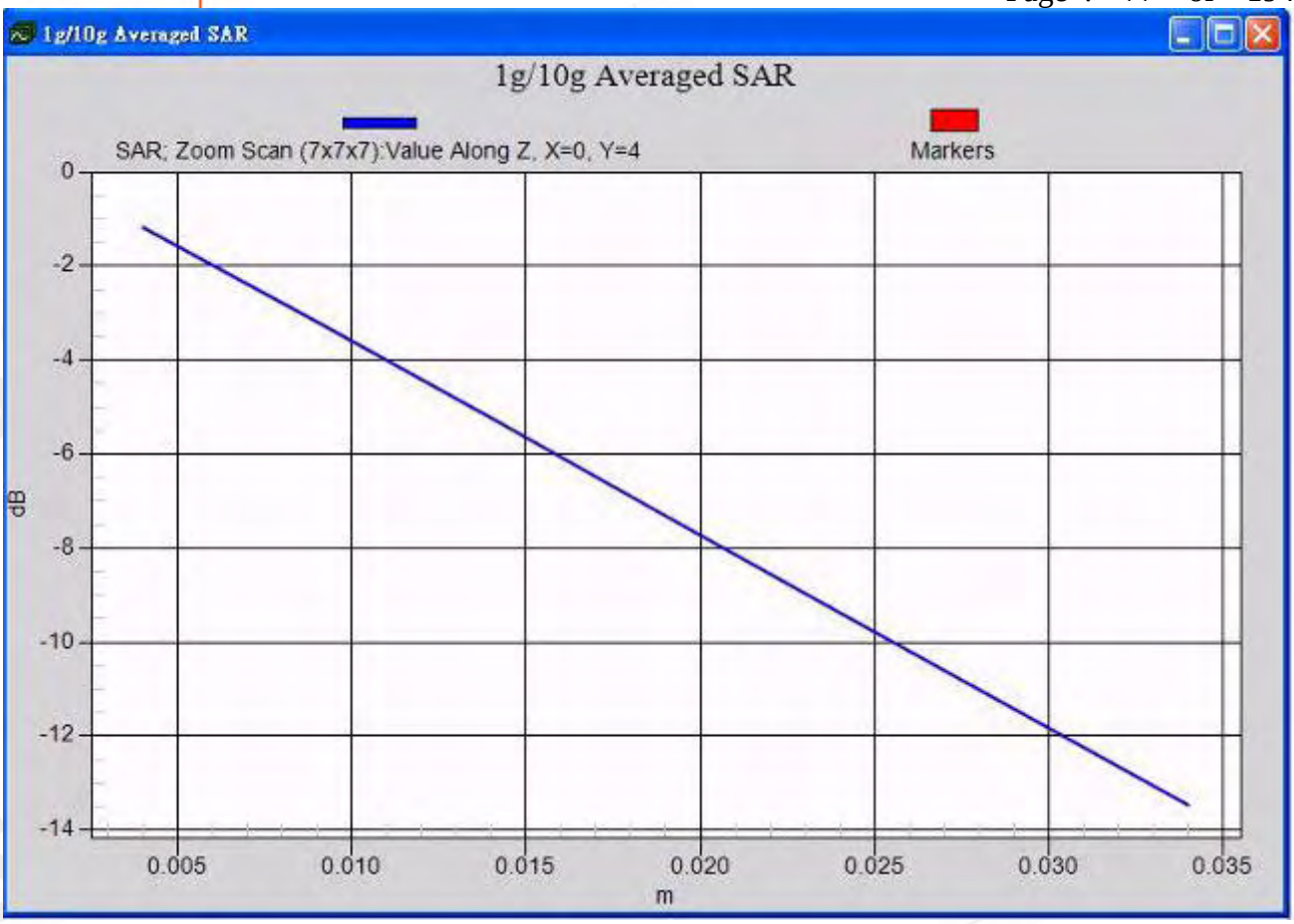
RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.03 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.13 V/m; Power Drift = -0.205 dB
Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.867 mW/g; SAR(10 g) = 0.546 mW/g
Maximum value of SAR (measured) = 0.818 mW/g



0 dB = 0.818mW/g



RE_Cheek_CH1412 _repeated with Welldone Battery

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.41 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Right Section

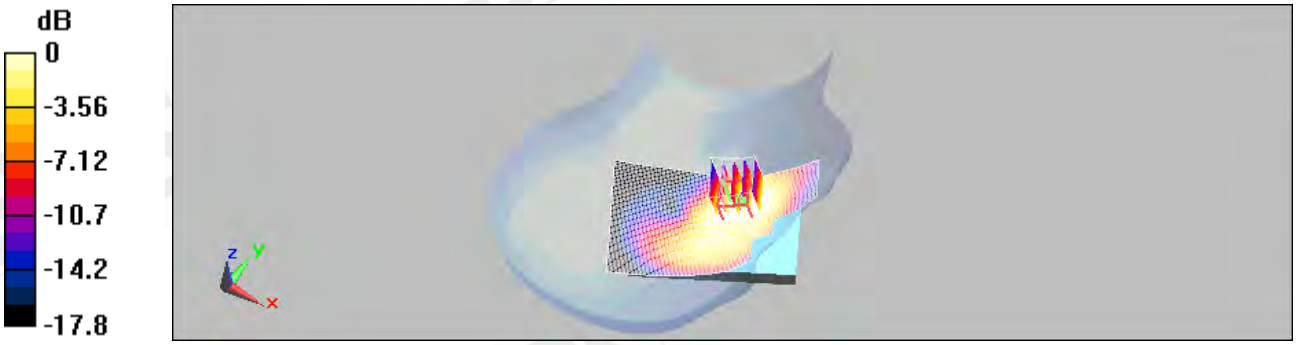
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.907 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.24 V/m; Power Drift = -0.205 dB
Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.754 mW/g; SAR(10 g) = 0.489 mW/g
Maximum value of SAR (measured) = 0.633 mW/g



0 dB = 0.633mW/g

LE_Cheek_CH1312

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.4 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
Phantom section: Left Section

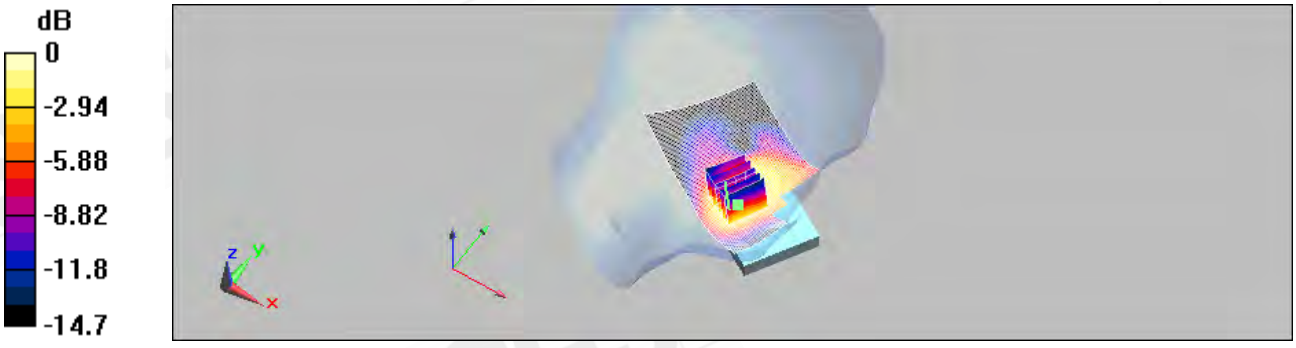
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.586 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.43 V/m; Power Drift = -0.125 dB
Peak SAR (extrapolated) = 0.832 W/kg

SAR(1 g) = 0.550 mW/g; SAR(10 g) = 0.339 mW/g
Maximum value of SAR (measured) = 0.596 mW/g



0 dB = 0.596mW/g

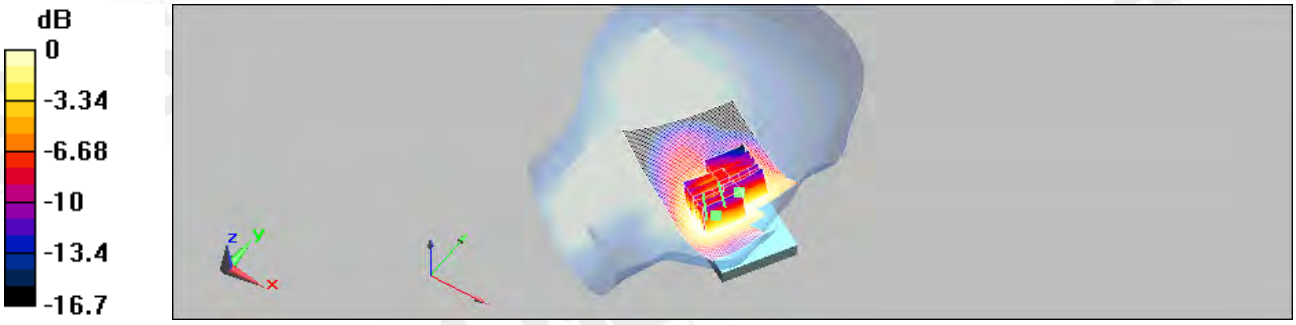
LE_Cheek_CH1412

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.41 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Left Section

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.738 mW/g
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.28 V/m; Power Drift = -0.118 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.428 mW/g
Maximum value of SAR (measured) = 0.755 mW/g
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.28 V/m; Power Drift = -0.118 dB
Peak SAR (extrapolated) = 0.690 W/kg
SAR(1 g) = 0.450 mW/g; SAR(10 g) = 0.315 mW/g
Maximum value of SAR (measured) = 0.508 mW/g



0 dB = 0.508mW/g

LE_Cheek_CH1513

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used: f = 1753 MHz; σ = 1.43 mho/m; ε_r = 39.3; ρ = 1000 kg/m^3
Phantom section: Left Section

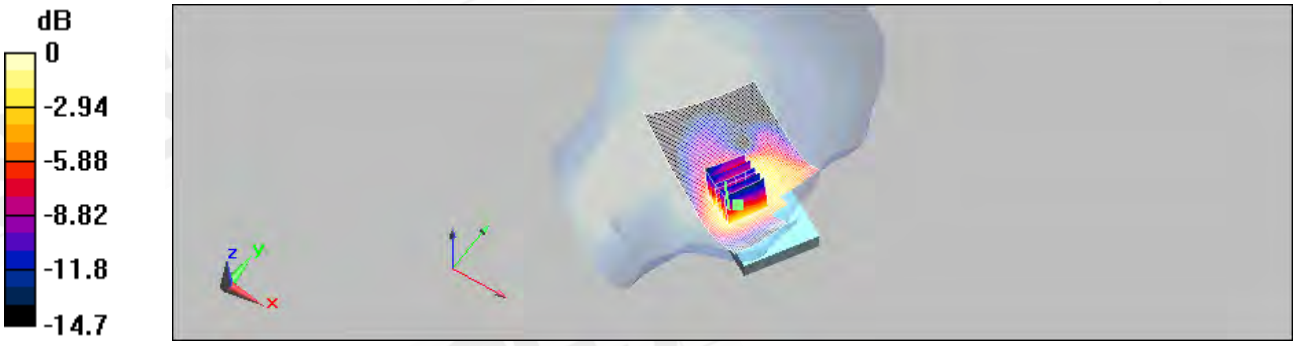
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.510 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.87 V/m; Power Drift = 0.105 dB
Peak SAR (extrapolated) = 0.734 W/kg

SAR(1 g) = 0.479 mW/g; SAR(10 g) = 0.294 mW/g
Maximum value of SAR (measured) = 0.523 mW/g



0 dB = 0.523mW/g

RE_Tilt_CH1312

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.4 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
Phantom section: Right Section

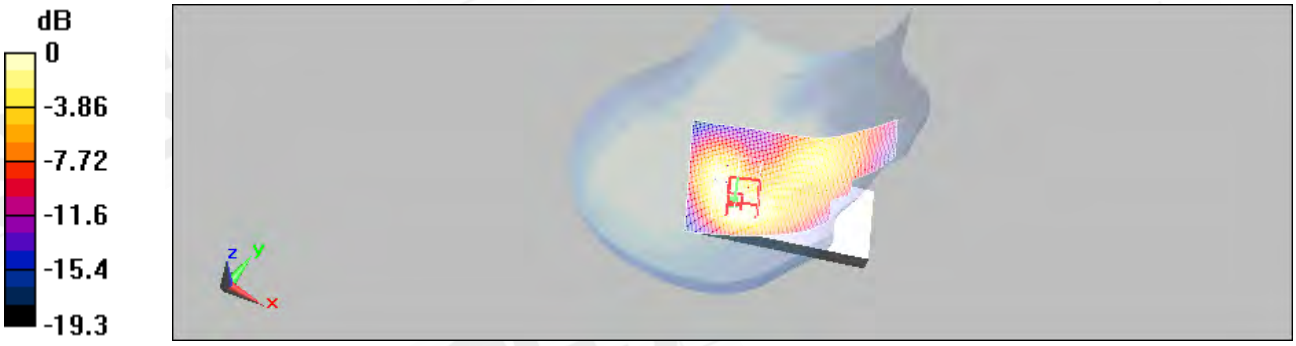
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.262 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.6 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.360 W/kg

SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.147 mW/g
Maximum value of SAR (measured) = 0.244 mW/g



0 dB = 0.244mW/g

RE_Tilt_CH1412

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.41 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Right Section

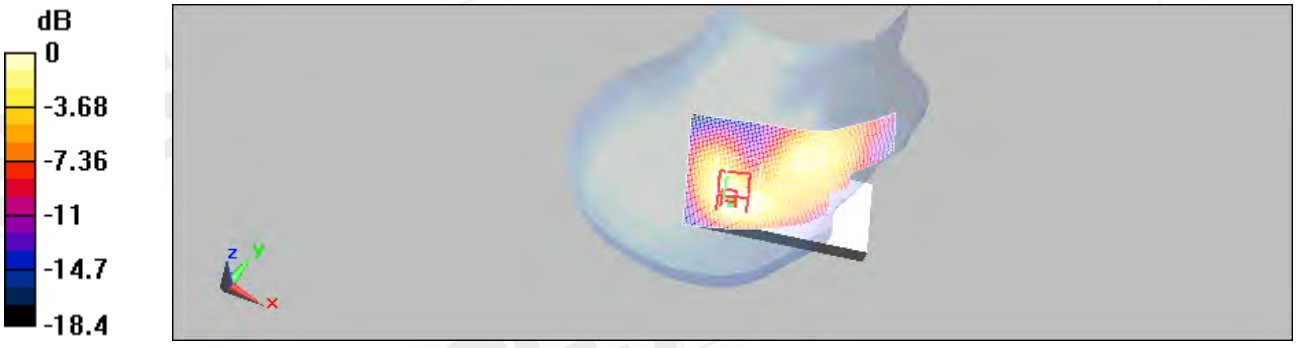
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.344 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.9 V/m; Power Drift = 0.134 dB
Peak SAR (extrapolated) = 0.509 W/kg

SAR(1 g) = 0.316 mW/g; SAR(10 g) = 0.193 mW/g
Maximum value of SAR (measured) = 0.338 mW/g



0 dB = 0.338mW/g

RE_Tilt_CH1513

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used: f = 1753 MHz; σ = 1.43 mho/m; ε_r = 39.3; ρ = 1000 kg/m^3
Phantom section: Right Section

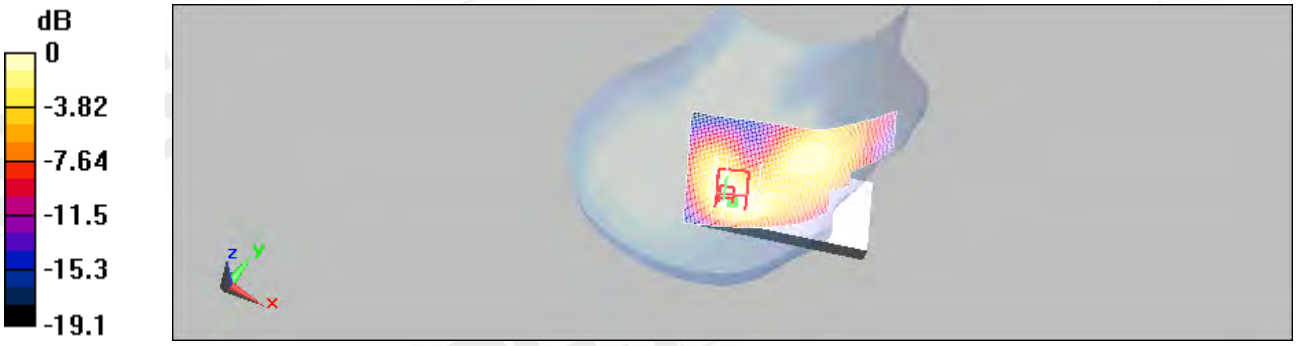
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.250 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.1 V/m; Power Drift = 0.141 dB
Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.138 mW/g
Maximum value of SAR (measured) = 0.243 mW/g



0 dB = 0.243mW/g

LE_Tilt_CH1312

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.4 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
Phantom section: Left Section

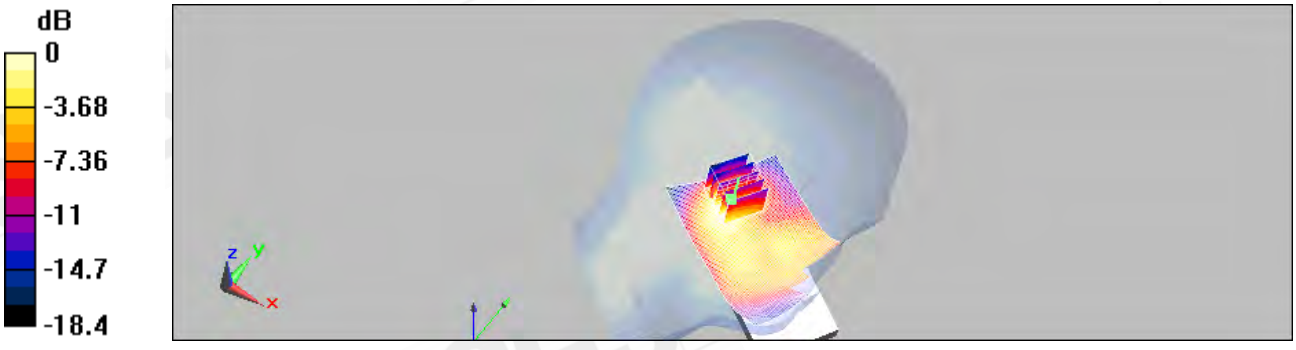
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.208 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.3 V/m; Power Drift = 0.211 dB
Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.182 mW/g; SAR(10 g) = 0.108 mW/g
Maximum value of SAR (measured) = 0.215 mW/g



0 dB = 0.215mW/g

LE_Tilt_CH1412

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.41 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Left Section

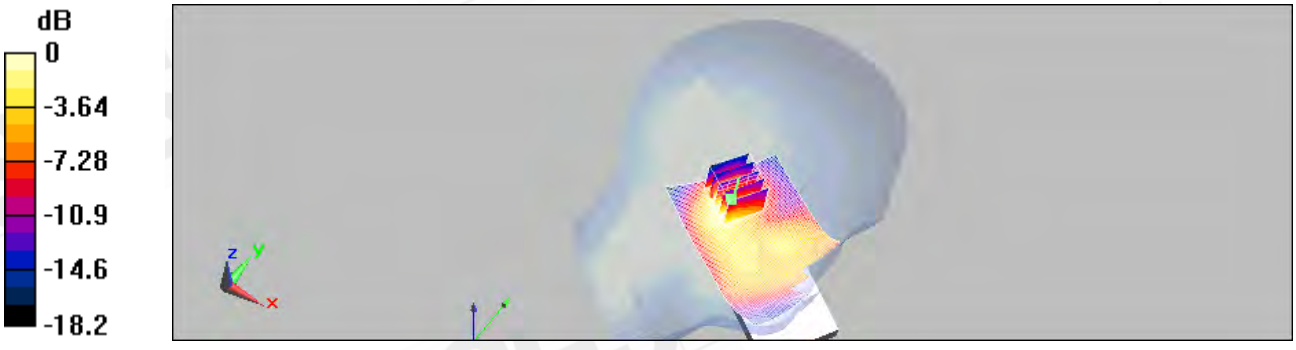
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.298 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.9 V/m; Power Drift = -0.142 dB
Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.265 mW/g; SAR(10 g) = 0.153 mW/g
Maximum value of SAR (measured) = 0.297 mW/g



0 dB = 0.297mW/g

LE_Tilt_CH1513

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: Head1800 Medium parameters used: f = 1753 MHz; σ = 1.43 mho/m; ε_r = 39.3; ρ = 1000 kg/m^3
Phantom section: Left Section

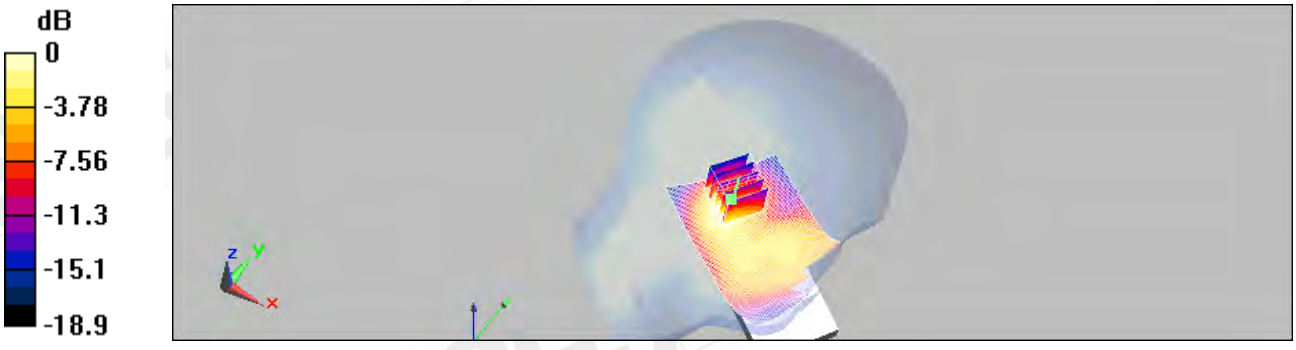
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.99, 4.99, 4.99); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.214 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.4 V/m; Power Drift = 0.030 dB
Peak SAR (extrapolated) = 0.306 W/kg

SAR(1 g) = 0.188 mW/g; SAR(10 g) = 0.109 mW/g
Maximum value of SAR (measured) = 0.211 mW/g



0 dB = 0.211mW/g

BODY_CH1312

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: Body1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.46 mho/m; ε_r = 55.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

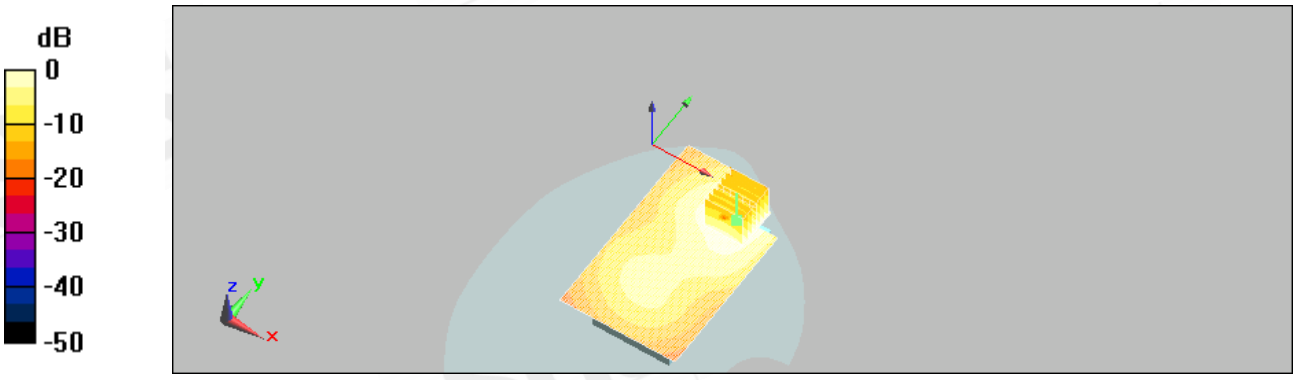
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.69, 4.69, 4.69); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.451 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.99 V/m; Power Drift = -0.120 dB
Peak SAR (extrapolated) = 0.644 W/kg

SAR(1 g) = 0.408 mW/g; SAR(10 g) = 0.249 mW/g
Maximum value of SAR (measured) = 0.433 mW/g



0 dB = 0.433mW/g

BODY_CH1412

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium: Body1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.45 mho/m; ε_r = 55.4; ρ = 1000 kg/m^3
Phantom section: Flat Section

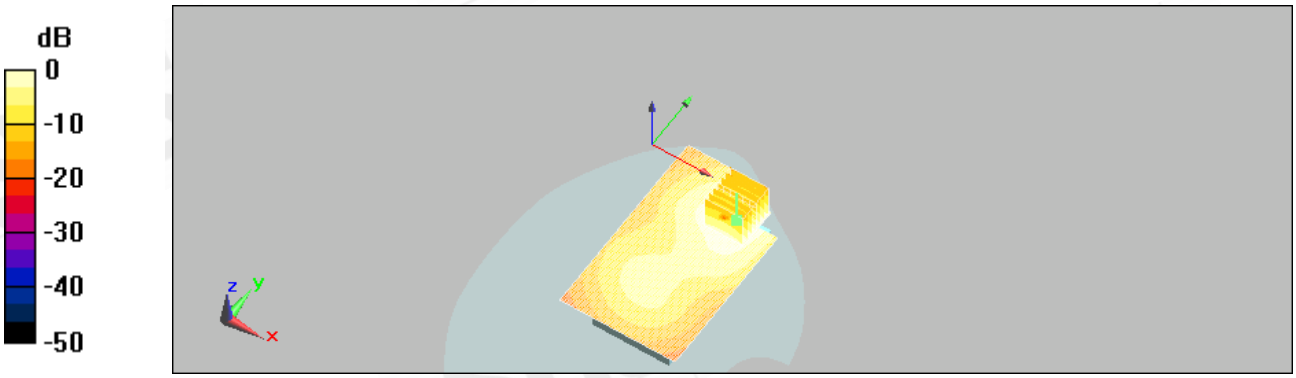
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.69, 4.69, 4.69); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.567 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.88 V/m; Power Drift = -0.116 dB
Peak SAR (extrapolated) = 0.840 W/kg

SAR(1 g) = 0.519 mW/g; SAR(10 g) = 0.314 mW/g
Maximum value of SAR (measured) = 0.552 mW/g



0 dB = 0.552mW/g

BODY_CH1513

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: Body1800 Medium parameters used: f = 1753 MHz; σ = 1.47 mho/m; ε_r = 55.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

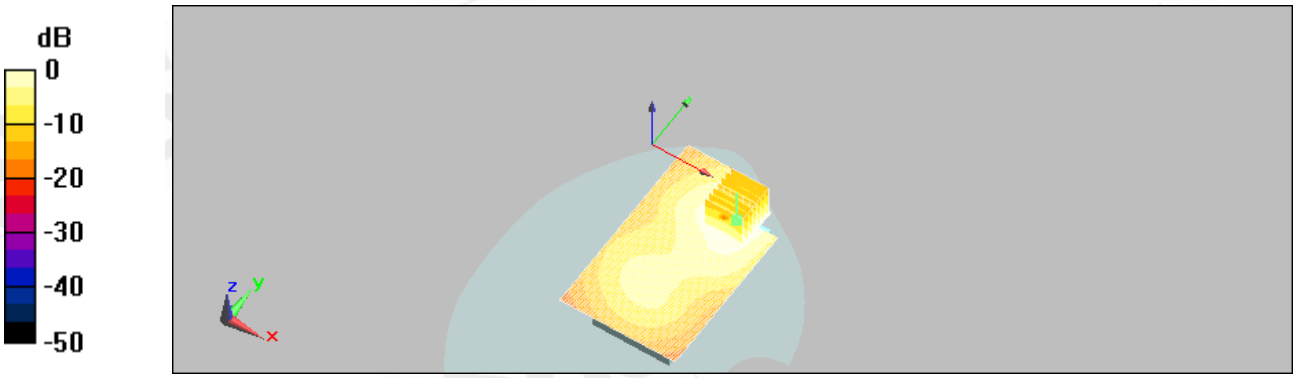
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.69, 4.69, 4.69); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.390 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.72 V/m; Power Drift = 0.201 dB
Peak SAR (extrapolated) = 0.628 W/kg

SAR(1 g) = 0.389 mW/g; SAR(10 g) = 0.232 mW/g
Maximum value of SAR (measured) = 0.404 mW/g



0 dB = 0.404mW/g

BODY_CH1312_repeated with HSDPA mode

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: Body1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.46 mho/m; ε_r = 55.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

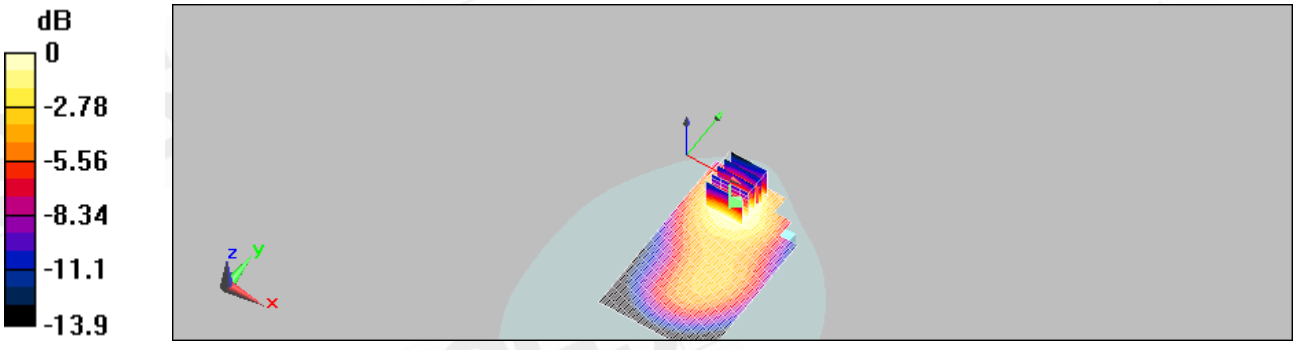
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.69, 4.69, 4.69); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.395 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.91 V/m; Power Drift = 0.033 dB
Peak SAR (extrapolated) = 0.531 W/kg

SAR(1 g) = 0.356 mW/g; SAR(10 g) = 0.232 mW/g
Maximum value of SAR (measured) = 0.377 mW/g



0 dB = 0.377mW/g

BODY_CH1412_repeated with HSDPA mode

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium: Body1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.45 mho/m; ε_r = 55.4; ρ = 1000 kg/m^3
Phantom section: Flat Section

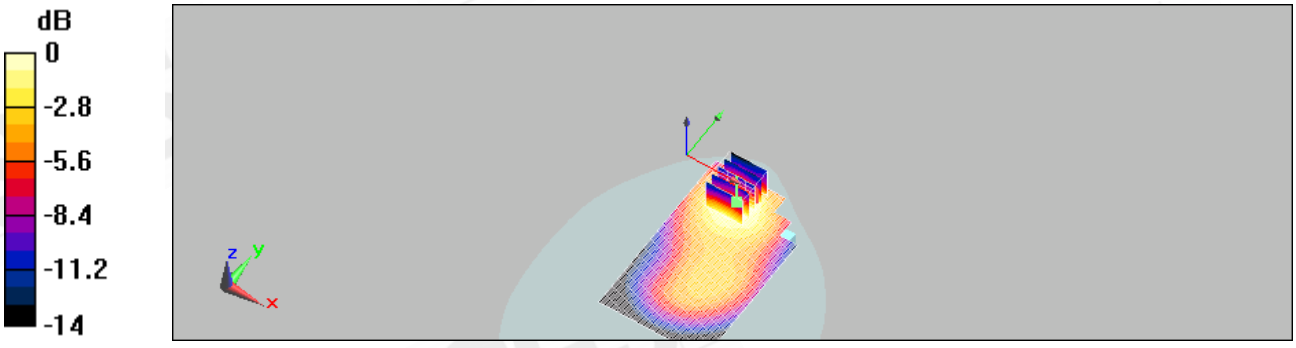
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.69, 4.69, 4.69); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.488 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.99 V/m; Power Drift = -0.062 dB
Peak SAR (extrapolated) = 0.662 W/kg

SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.284 mW/g
Maximum value of SAR (measured) = 0.471 mW/g



0 dB = 0.471mW/g

BODY_CH1513_repeated with HSDPA mode

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: Body1800 Medium parameters used: f = 1753 MHz; σ = 1.47 mho/m; ε_r = 55.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

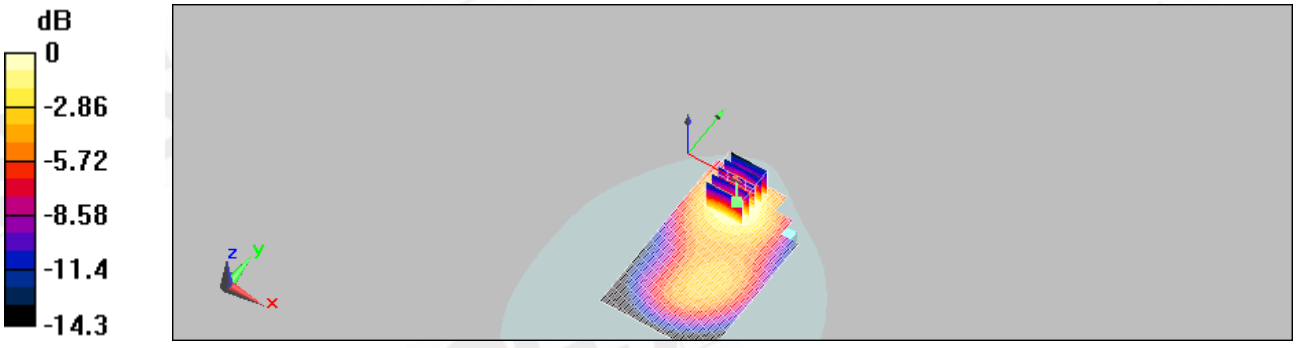
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.69, 4.69, 4.69); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.336 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.84 V/m; Power Drift = -0.028 dB
Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.197 mW/g
Maximum value of SAR (measured) = 0.333 mW/g



0 dB = 0.333mW/g

BODY_CH1312_repeated with HSUPA mode

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: Body1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.46 mho/m; ε_r = 55.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

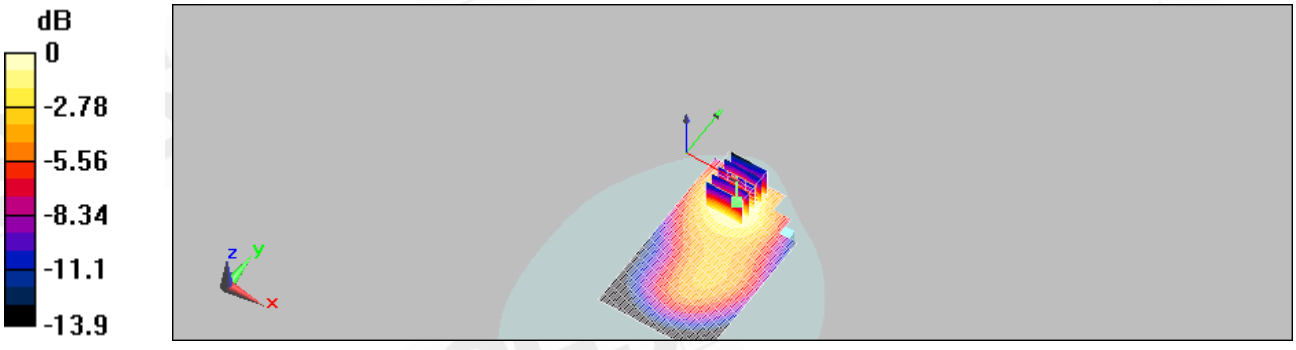
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.69, 4.69, 4.69); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.357 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.37 V/m; Power Drift = 0.105 dB
Peak SAR (extrapolated) = 0.491 W/kg

SAR(1 g) = 0.328 mW/g; SAR(10 g) = 0.214 mW/g
Maximum value of SAR (measured) = 0.351 mW/g



0 dB = 0.351mW/g

BODY_CH1412_repeated with HSUPA mode

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium: Body1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.45 mho/m; ε_r = 55.4; ρ = 1000 kg/m^3
Phantom section: Flat Section

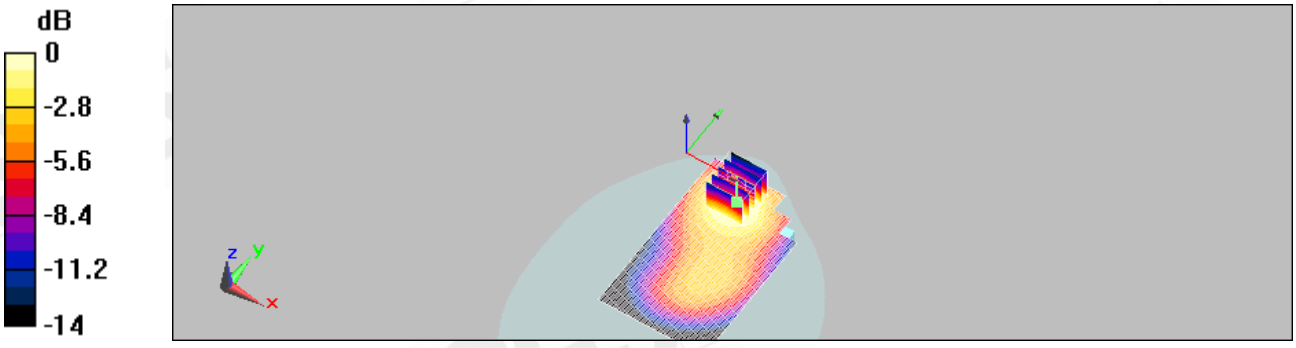
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.69, 4.69, 4.69); 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=15mm, dy=15mmMaximum value of SAR (interpolated) = 0.460 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.72 V/m; Power Drift = -0.011 dB
Peak SAR (extrapolated) = 0.630 W/kg

SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.269 mW/g
Maximum value of SAR (measured) = 0.449 mW/g



0 dB = 0.449mW/g

BODY_CH1513_repeated with HSUPA mode

DUT: PB99100;

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: Body1800 Medium parameters used: f = 1753 MHz; σ = 1.47 mho/m; ε_r = 55.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

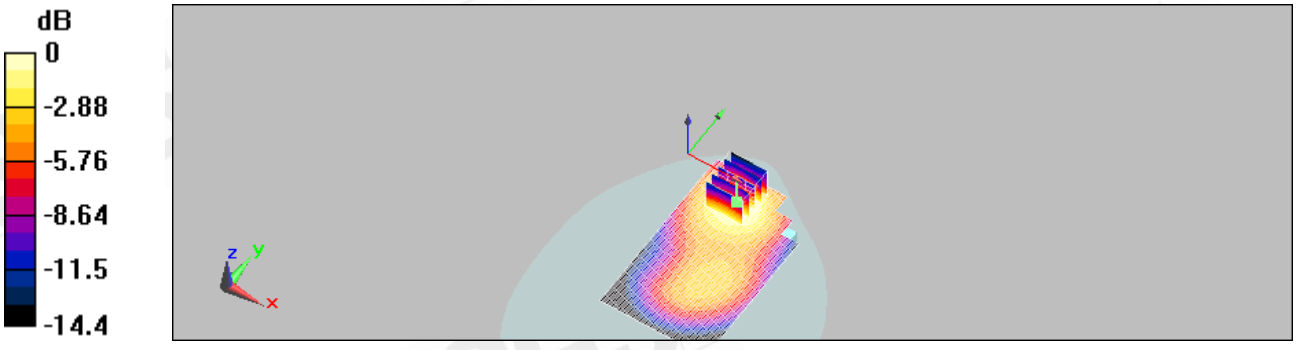
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.69, 4.69, 4.69); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.318 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.73 V/m; Power Drift = 0.036 dB
Peak SAR (extrapolated) = 0.443 W/kg

SAR(1 g) = 0.292 mW/g; SAR(10 g) = 0.187 mW/g
Maximum value of SAR (measured) = 0.316 mW/g



0 dB = 0.316mW/g

BODY_WLAN 802.11 b_CH1

DUT: PB99100;

Communication System: Wireless LAN; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: BODY2450 Medium parameters used: f = 2412 MHz; σ = 1.92 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

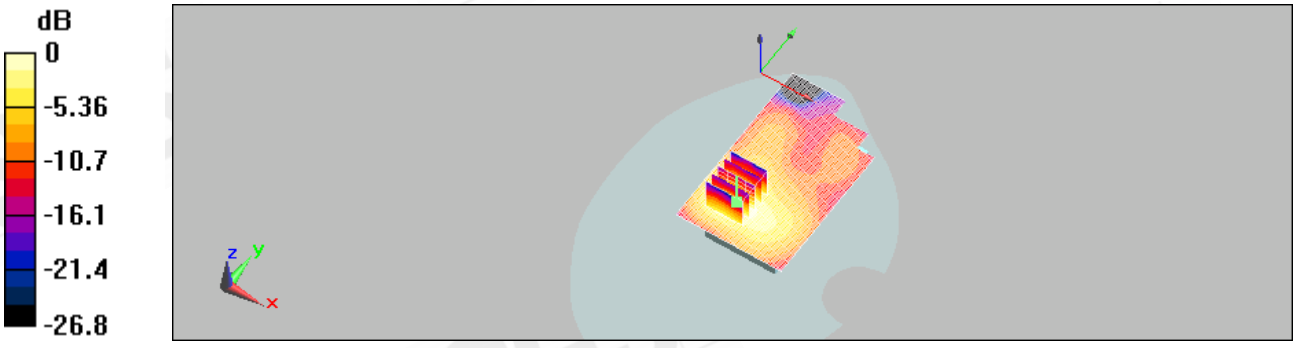
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.02, 4.02, 4.02); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.073 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.53 V/m; Power Drift = 0.152 dB
Peak SAR (extrapolated) = 0.114 W/kg

SAR(1 g) = 0.065 mW/g; SAR(10 g) = 0.036 mW/g
Maximum value of SAR (measured) = 0.071 mW/g



0 dB = 0.071mW/g

BODY_WLAN 802.11 b_CH6

DUT: PB99100;

Communication System: Wireless LAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: BODY2450 Medium parameters used: f = 2437 MHz; σ = 1.96 mho/m; ε_r = 54.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

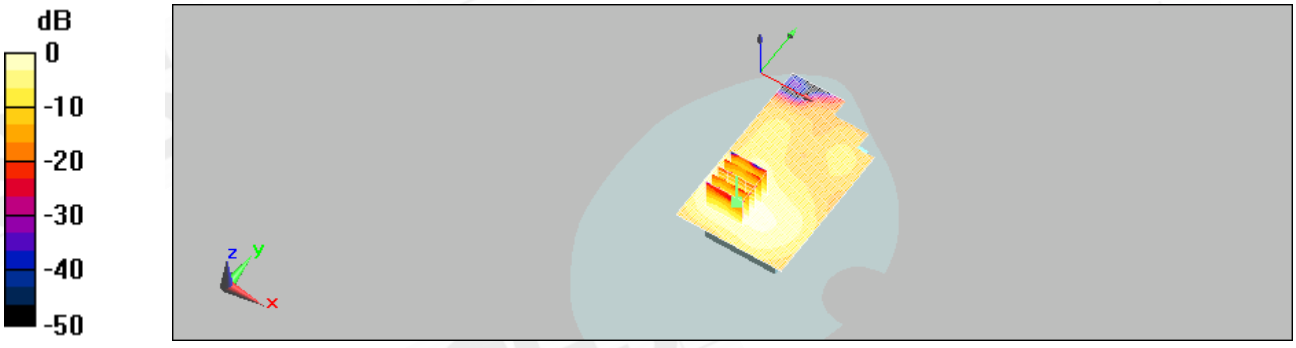
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.02, 4.02, 4.02); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.058 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.21 V/m; Power Drift = 0.106 dB
Peak SAR (extrapolated) = 0.094 W/kg

SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.028 mW/g
Maximum value of SAR (measured) = 0.057 mW/g



0 dB = 0.057mW/g

BODY_WLAN 802.11 b _CH11

DUT: PB99100;

Communication System: Wireless LAN; Frequency: 2462 MHz;Duty Cycle: 1:1
Medium: BODY2450 Medium parameters used: f = 2462 MHz; σ = 2.01 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

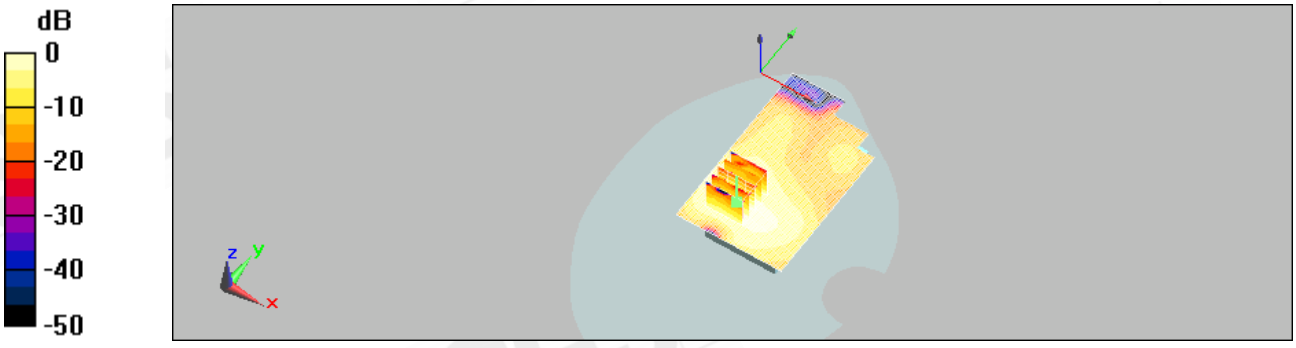
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.02, 4.02, 4.02); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.051 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3 V/m; Power Drift = 0.214 dB
Peak SAR (extrapolated) = 0.087 W/kg

SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.025 mW/g
Maximum value of SAR (measured) = 0.050 mW/g



0 dB = 0.050mW/g

BODY_WLAN 802.11 b_CH1_repeated for EUT front to phantom

DUT: PB99100;

Communication System: Wireless LAN; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: BODY2450 Medium parameters used: f = 2412 MHz; σ = 1.92 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

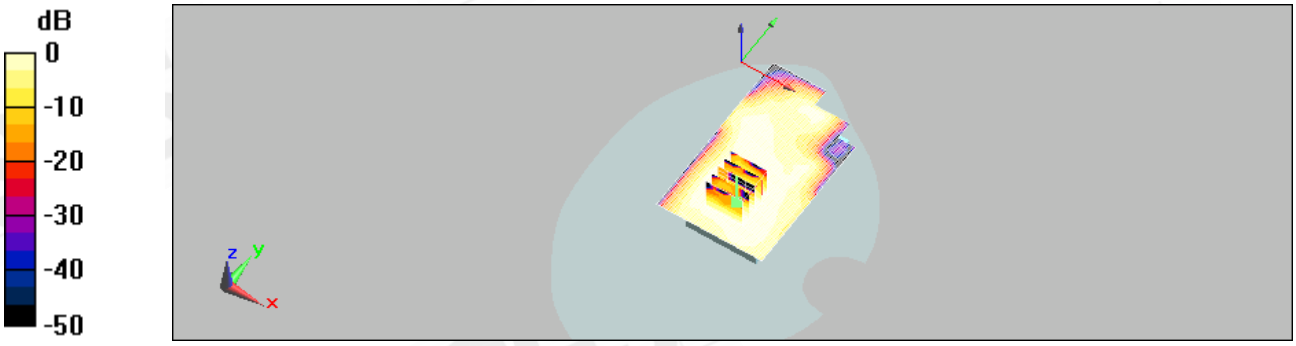
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.02, 4.02, 4.02); 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.013 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.93 V/m; Power Drift = 0.190 dB
Peak SAR (extrapolated) = 0.022 W/kg

SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00682 mW/g
Maximum value of SAR (measured) = 0.012 mW/g



0 dB = 0.012mW/g