

SAR TEST REPORT

Equipment Under Test	Smartphone
Model Name	PH06130
Mode of Operation	GSM/GPRS/EDGE/WCDMA/HSDPA/BT WLAN802.11 b/g/n(H20) band
Company Name	HTC Corporation.
Company Address	No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan
Date of Receipt	2011.04.13
Date of Test(s)	2011.05.08-05.09, 2011.05.11,2011.06.10
Date of Issue	2011.06.13

Standards:

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

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

Remarks:

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

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Tested by : Antony Wu
Sr. Engineer

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Date : 2011.06.13

Approved by : Kelly Tsai
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Kelly Tsai

Date : 2011.06.13

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Revision Version

Report Number	Revision	Date	Memo
EN/2011/40010	00	2011/06/09	Initial creation of test report.
EN/2011/40010	01	2011/06/13	Modify 1 st report

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory	
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Taipei county, Taiwan, R.O.C.	
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Internet	http://www.tw.sgs.com/

Testing Location	1F, No. 8, Alley 15, Lane 120, Sec .1, NeiHu Road NeiHu District Taipei City 114, Taiwan
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1.2 Details of Applicant

Company Name	HTC Corporation.
Company Address	No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan
Contact Person	Vivian Hsieh
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1.3 Description of EUT

EUT Name	Smartphone				
Model Name	PH06130				
IMEI Code	Main solution : 357325040010548 Second solution : 357325040017972				
FCC ID	NM8PH06130				
IC ID	4115B-PH06130				
Mode of Operation	GSM/GPRS/EDGE/WCDMA/HSDPA/BT WLAN802.11b/g/n(H20) band				
Definition	Production unit				
Duty Cycle	GSM	GPRS (Class10)	WCDMA B2	WCDMA B5	WLAN 802.11 b/g/n(H20)
	1/8	1/4	1		
TX Frequency Range (MHz)	GSM850	GSM1900	WCDMA B2	WCDMA B5	WLAN 802.11 b/g/n(H20)
	824.2- 848.8	1850.2- 1909.8	1852.4 -1907.6	826.4 -846.6	2412-2462
Channel Number (ARFCN)	GSM850	GSM1900	WCDMA B2	WCDMA B5	WLAN 802.11 b/g/n(H20)
	128-251	512- 810	9612-9888	4132-4233	1-11
Battery Type	3.7 V Lithium-Ion				
Antenna Type	Internal Antenna				
Declaration	Second solution(change Camera)				
	In addition to the Original sample shown in these test results, model PH06130 also has an option for a camera; SAR values were checked on these options using the spot check method. We found results were same or lower than Original for GSM850/GSM1900/WCDMA B2/WCDMA B5 WLAN802.11 b, but still within 20% of highest measured SAR.				

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Max. SAR Measured (1 g)	GSM850	
	Head	Body
	0.392 mW/g (At GSM 850 Left Head (Cheek Position)_ 128 Channel_ Second solution)	0.794 mW/g (At GSM 850 Body_Back side_ 128 channel)
	GSM1900	
	Head	Body
	0.606 mW/g (At GSM 1900 Left Head (Cheek Position)_ 512 channel_ Second solution)	0.822 mW/g (At GSM 1900 Body_Bottom side_ 661 channel)
	WCDMA B2	
	Head	Body
	1.04 mW/g At WCDMA B2 Left Head (Cheek Position)_ 9400 Channel_ repeated with TWS Battery_ Second solution)	1.17 mW/g (At WCDMA B2 Body_ Bottom side_ 9400 channel)
	WCDMA B5	
	Head	Body
	0.36 mW/g (At WCDMA B5 Left Head (Cheek Position)_ 4132 channel_ Second solution)	0.442 mW/g (At WCDMA B5 Body_ Left side_ 4132 channel)
	WLAN 802.11 b	
	Head	Body
	0.155 mW/g (At WLAN 802.11b Left Head (15° Tilt Position)_ 1 channel_ Second solution)	0.288 mW/g (At WLAN 802.11b Body_ Back side_ 6 channel _repeated with Merry headset)

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EUT Mode	Frequency (MHz)	CH	Avg. Power (1DN 1UP) (dBm)
GSM 850	824.2	128	33.0
	836.6	190	33.0
	848.8	251	32.9

EUT Mode	Frequency (MHz)	CH	Avg. Power (1DN 1UP) (dBm)
GSM 1900	1850.2	512	29.8
	1880.0	661	30.0
	1909.8	810	30.1

EUT Mode	Frequency (MHz)	CH	Avg. Power (1DN 1UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
GPRS 850 (Class 10)	824.2	128	33.0	32.9
	836.6	190	33.1	33.0
	848.8	251	33.0	32.9

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EUT Mode	Frequency (MHz)	CH	Avg. Power (1DN 1UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
GPRS 1900 (Class 10)	1850.2	512	29.9	29.8
	1880.0	661	30.1	30.0
	1909.8	810	30.2	30.1

EUT Mode	Frequency (MHz)	CH	Avg. Power (1DN 1UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
EDGE 850 (Class 10)	824.2	128	27.3	27.3
	836.6	190	27.3	27.3
	848.8	251	27.2	27.2

EUT Mode	Frequency (MHz)	CH	Avg. Power (1DN 1UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
EDGE 1900 (Class 10)	1850.2	512	26.1	26.0
	1880.0	661	26.3	26.2
	1909.8	810	26.4	26.3

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Mode	Subtest	WCDMA Band V Channel			WCDMA Band II Channel		
		4132	4182	4233	9262	9400	9538
Rel99	R99	22.71	22.67	22.66	22.46	22.57	22.26
Rel6 HSDPA	1	22.50	22.53	22.78	22.63	22.46	22.12
	2	22.64	22.56	22.53	22.34	22.43	22.11
	3	22.04	22.05	22.29	22.15	22.01	21.59
	4	22.09	22.09	22.35	22.22	22.02	21.71

#. WLAN802.11 b/g/n (H20) conducted power table:

	Conducted Output Power (dBm)		
	2412	2437	2462
802.11	AV	AV	AV
b	17.56	17.68	17.20
g	13.11	13.30	13.00
n(H20)	13.24	13.19	13.04

1.4 Test Environment

Ambient Temperature : 22±2° C

Tissue Simulating Liquid: 22±2° C

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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. 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.
4. Testing Head SAR at lowest, middle and highest channel for all bands with LET/LEC/RET/REC conditions.
5. Testing body-worn SAR by separating **10mm**.
 - #. The SAR testing for portable devices with wireless router capability is referred as test guidance of **KDB 941225 D06** (SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities).
 - #. The following procedures are applicable when the overall device length and width are $\geq 9 \text{ cm} \times 5 \text{ cm}$ respectively. A test separation of 10 mm is required. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25 mm from that surface or edge, for the data modes, wireless technologies and frequency bands supporting hotspot mode.

Test configurations:

- (1) Front side
- (2) Back side
- (3) Top side.(WWAN antenna to edge distance $> 25\text{mm}$ _No SAR; WLAN antenna to edge distance 1.1mm, need to test SAR)
- (4) Bottom side. (WLAN antenna to edge distance $> 25\text{mm}$ _No SAR)
- (5) Right side.(WLAN antenna to edge distance $> 25\text{mm}$ _No SAR)
- (6) Left side.

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SAR evaluation considerations for handsets with multiple transmitters:

6. When the maximum transmitter and antenna output power are $\leq 60/f(\text{GHz})$ (mW) SAR evaluation is typically not required for FCC or TCB approval
(BT power = 0.04dBm)
7. According to **KDB248227**-SAR is not required for 802.11 g/HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11b channels.
8. Using **KDB941225 D01** to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is less than 1/4 dB higher than that measured without HSPA using 12.2kbps RMC
9. For Body, The highest 1-g SAR for WLAN is 0.288 W/kg and the highest 1-g SAR for WWAN is 1.17W/kg. The sum of 1-g for simultaneous transmitting WLAN and WWAN antenna pair is $0.288+1.17 = 1.458$ W/kg.
10. For Head, The highest 1-g SAR for WLAN is 0.155 W/kg and the highest 1-g SAR for WWAN is 1.04W/kg. The sum of 1-g for simultaneous transmitting WLAN and WWAN antenna pair is $0.155+1.04 = 1.195$ W/kg.
11. Both Head & Body, **which lower than the limit 1.6W/kg**. According to **KDB648474/KDB447498** Simultaneous SAR evaluation is not required.

Additional configuration(Head):

12. For highest SAR configuration in this band repeated with external Memory card inside.
13. For highest SAR configuration in this band repeated with TWS Battery .

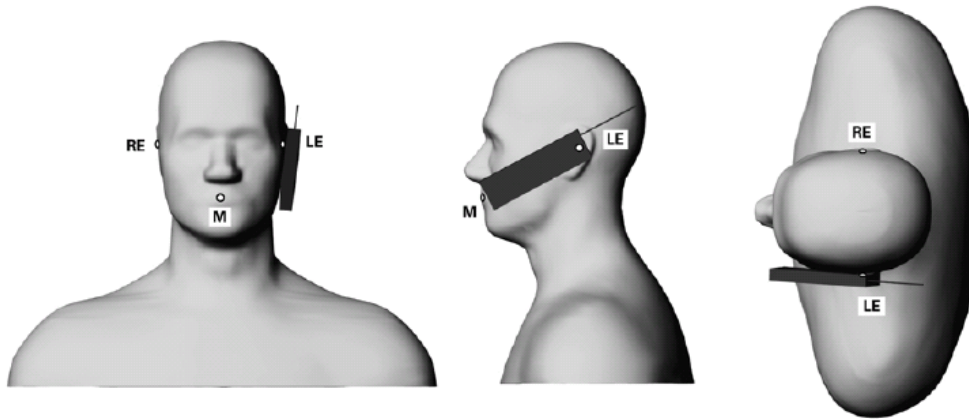
Additional configuration(Body):

14. For highest SAR configuration in this band repeated with external Memory card inside.
15. For highest SAR configuration in this band repeated with Kingstate Headset.
15. For highest SAR configuration in this band repeated with Cotron Headset.
16. For highest SAR configuration in this band repeated with Merry Headset.
17. For highest SAR configuration in this band repeated with Foster Headset.
18. For highest SAR configuration in this band repeated with TWS Battery.
19. For highest SAR configuration in this band repeated with EDGE mode.

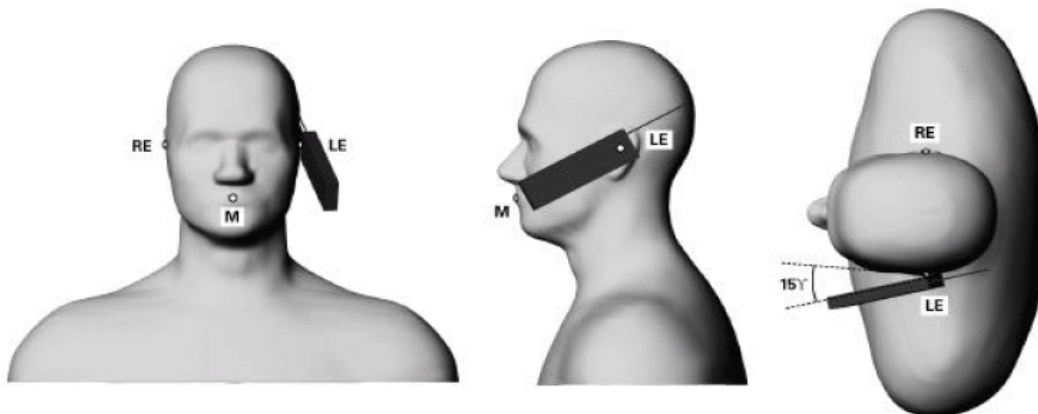
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1.6 Positioning Procedure



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



Phone position 2, “tilted position.” The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning

Cheek/Touch Position:

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

Ear/Tilt Position:

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

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1.7 Evaluation Procedures

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

1. The extraction of the measured data (grid and values) from the Zoom Scan.
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
3. The generation of a high-resolution mesh within the measured volume
4. The interpolation of all measured values from the measurement grid to the high-resolution grid
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
6. The calculation of the averaged SAR within masses of 1g and 10g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are

included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

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

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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 then 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 EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E_i|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

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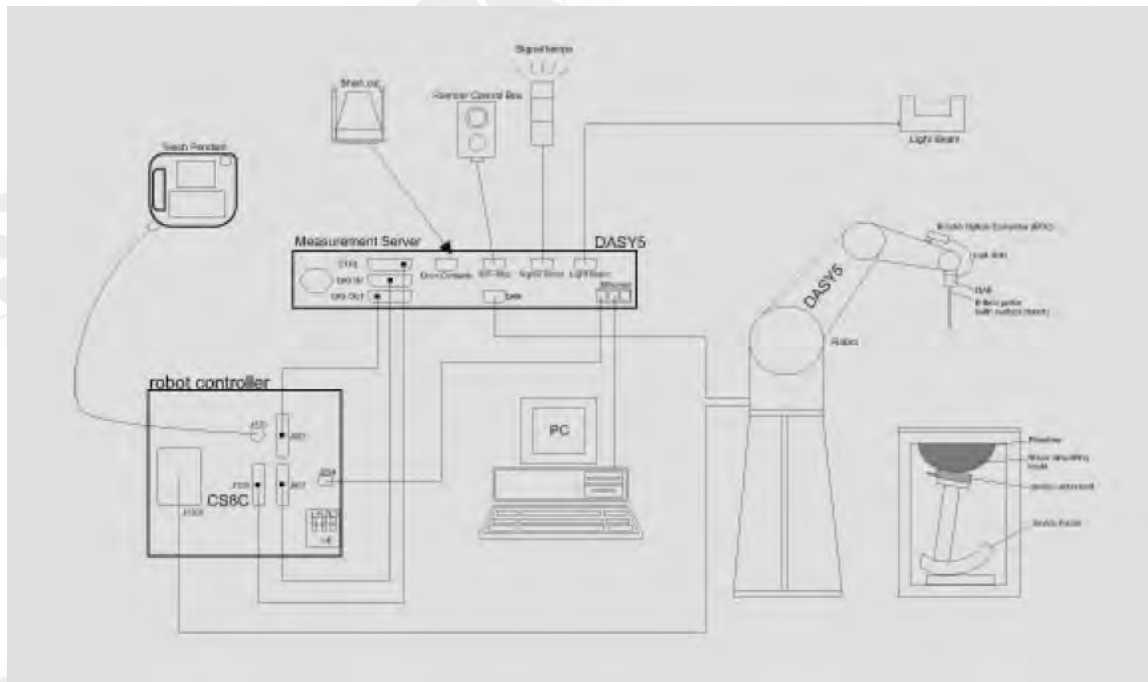


Fig.a The block diagram of SAR system

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

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.

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- 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

EX3DV4 E-Field Probe

Construction:	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	 EX3DV4 E-Field Probe
Calibration:	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL850/1900/2450MHz Additional CF for other liquids and frequencies upon request	
Frequency:	10 MHz to > 4 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)	
Directivity:	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range:	10 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions:	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	
Application:	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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SAM PHANTOM V4.0C

Construction:	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-200X, CENELEC 50361 and IEC 62209. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points with the robot.	
Shell Thickness:	2 ± 0.2 mm	
Filling Volume:	Approx. 25 liters	
Dimensions:	Height: 251 mm; Length: 1000 mm; Width: 500 mm	

DEVICE HOLDER

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

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within $\pm 5\%$ from the target SAR values.

These tests were done at 850/1900/2450 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1. During the tests, the ambient temperature of the laboratory was in the range 22.1°C , the relative humidity was in the range 62% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

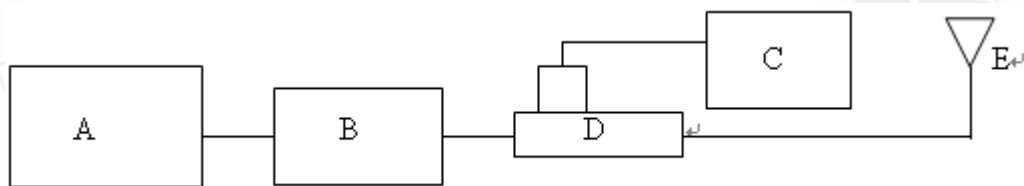
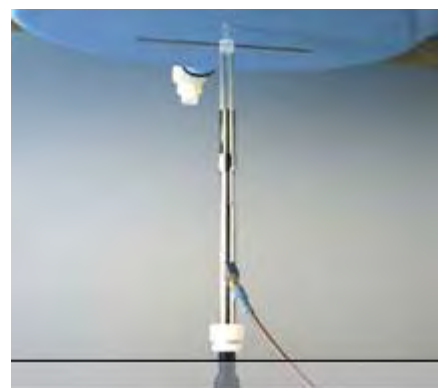


Fig.b The block diagram of system verification

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



Photograph of the dipole Antenna

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Validation Kit	Frequency (MHz)	Target SAR (1g) (Pin=250mW)	Measured SAR (1g)	Measured Date
D835V2 S/N: 4d063	835 MHz (Head)	2.4 mW/g	2.38 mW/g	2011-05-08
D835V2 S/N: 4d063	835 MHz (Body)	2.58 mW/g	2.45 mW/g	2011-05-08
D1900V2 S/N: 5d027	1900 MHz (Head)	10.1 mW/g	10.1 mW/g	2011-05-09
D1900V2 S/N: 5d027	1900 MHz (Body)	9.93 mW/g	10.3 mW/g	2011-05-09
D2450V2 S/N: 727	2450 MHz (Head)	13.7 mW/g	13.4 mW/g	2011-06-10
D2450V2 S/N: 727	2450 MHz (Body)	12.7 mW/g	13.1mW/g	2011-05-11

Table 1. System validation (follow manufacture target value)

1.11 Tissue Simulant Fluid for the Frequency Band

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

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant iin the flat section of the phantom was 15cm±5mm during all tests. (Appendix Fig .2)

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Frequency (MHz)	Tissue type	Measurement date/ Limits	Dielectric Parameters		
			ρ	σ (S/m)	Simulated Tissue Temperature(° C)
850	Head	Measured, 2011-05-08	42.514	0.88	21.7
		Recommended Limits	40.28-44.52	0.86-0.95	20-24
850	Body	Measured, 2011-05-08	53.418	0.961	21.7
		Recommended Limits	52.25-57.75	0.96-1.06	20-24
1900	Head	Measured, 2011-05-09	39.487	1.427	21.7
		Recommended Limits	37.05-40.95	1.34-1.48	20-24
1900	Body	Measured, 2011-05-09	52.619	1.529	21.7
		Recommended Limits	48.55-53.66	1.44-1.60	20-24
2450	Head	Measured, 2011-06-10	39.915	1.767	21.7
		Recommended Limits	37.81-41.79	1.69-1.87	20-24
2450	Body	Measured, 2011-05-11	52.08	1.982	21.7
		Recommended Limits	48.07-53.13	1.81-2.01	20-24

Frequency (MHz)	Tissue type	Channel	MHz	Dielectric Parameters	
				ρ	σ (S/m)
GSM 850	Head	128	824.2	43.064	0.868
		190	836.6	42.447	0.882
		251	848.8	41.714	0.901
GPRS 850	Body	128	824.2	53.273	0.969
		190	836.6	53.462	0.973
		251	848.8	53.714	0.985
GSM 1900	Head	512	1850.2	39.804	1.377
		661	1880	39.611	1.405
		810	1909.8	40.321	1.435
GPRS 1900	Body	512	1850.2	52.904	1.477
		661	1880	52.734	1.503
		810	1909.8	52.556	1.541
WCDMA B2	Head	9262	1852.4	39.963	1.382
		9400	1880	39.611	1.405
		9538	1907.6	40.039	1.432

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WCDMA B2	Body	9262	1852.4	52.885	1.479
		9400	1880	52.734	1.503
		9538	1907.6	52.573	1.538
WCDMA B5	Head	4132	826.4	42.98	0.87
		4183	836.6	42.447	0.882
		4233	846.6	41.787	0.898
WCDMA B5	Body	4132	826.4	53.269	0.963
		4183	836.6	53.462	0.973
		4233	846.6	53.685	0.983
2450	Head	1	2412	40.218	1.764
		6	2437	40.072	1.774
		11	2462	39.742	1.792
2450	Body	1	2412	52.226	1.921
		6	2437	52.16	1.964
		11	2462	52.037	1.998

Table 2. Dielectric Parameters of Tissue Simulant Fluid

The composition of the brain tissue simulating liquid:

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

Table 3. Recipes for tissue simulating liquid

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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.

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(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.

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2. Summary of Results

Main solution

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	33.0dBm	0.334	22.1	21.7
	190	836.6	33.0dBm	0.297	22.1	21.7
	251	848.8	32.9dBm	0.252	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	33.0dBm	0.368	22.1	21.7
	190	836.6	33.0dBm	0.316	22.1	21.7
	251	848.8	32.9dBm	0.266	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	33.0dBm	0.277	22.1	21.7
	190	836.6	33.0dBm	0.247	22.1	21.7
	251	848.8	32.9dBm	0.218	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	33.0dBm	0.268	22.1	21.7
	190	836.6	33.0dBm	0.241	22.1	21.7
	251	848.8	32.9dBm	0.207	22.1	21.7

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Body worn_Back side (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	32.9dBm	0.794	22.1	21.7
	190	836.6	33.0dBm	0.725	22.1	21.7
	251	848.8	32.9dBm	0.609	22.1	21.7
Body worn_Front side (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	32.9dBm	0.618	22.1	21.7
	190	836.6	33.0dBm	0.549	22.1	21.7
	251	848.8	32.9dBm	0.412	22.1	21.7
Body worn_Left side (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	32.9dBm	0.203	22.1	21.7
	190	836.6	33.0dBm	0.105	22.1	21.7
	251	848.8	32.9dBm	0.110	22.1	21.7
Body worn_Right side (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	32.9dBm	0.193	22.1	21.7
	190	836.6	33.0dBm	0.139	22.1	21.7
	251	848.8	32.9dBm	0.171	22.1	21.7
Body worn_Bottom side (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	32.9dBm	0.136	22.1	21.7
	190	836.6	33.0dBm	0.134	22.1	21.7
	251	848.8	32.9dBm	0.126	22.1	21.7

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PCS 1900 MHZ

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.8dBm	0.440	22.1	21.7
	661	1880	30.0dBm	0.348	22.1	21.7
	810	1909.8	30.1dBm	0.272	22.1	21.7
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.8dBm	0.582	22.1	21.7
	661	1880	30.0dBm	0.467	22.1	21.7
	810	1909.8	30.1dBm	0.377	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.8dBm	0.229	22.1	21.7
	661	1880	30.0dBm	0.192	22.1	21.7
	810	1909.8	30.1dBm	0.161	22.1	21.7
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.8dBm	0.199	22.1	21.7
	661	1880	30.0dBm	0.164	22.1	21.7
	810	1909.8	30.1dBm	0.130	22.1	21.7

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Body worn_Back side (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	29.8dBm	0.727	22.1	21.7
	661	1880	30.0dBm	0.618	22.1	21.7
	810	1909.8	30.1dBm	0.553	22.1	21.7
Body worn_Front side (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	29.8dBm	0.694	22.1	21.7
	661	1880	30.0dBm	0.580	22.1	21.7
	810	1909.8	30.1dBm	0.506	22.1	21.7
Body worn_Left side (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	29.8dBm	0.162	22.1	21.7
	661	1880	30.0dBm	0.143	22.1	21.7
	810	1909.8	30.1dBm	0.131	22.1	21.7
Body worn_Right side (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	29.8dBm	0.145	22.1	21.7
	661	1880	30.0dBm	0.127	22.1	21.7
	810	1909.8	30.1dBm	0.114	22.1	21.7
Body worn_Bottom side (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	29.8dBm	0.820	22.1	21.7
	661	1880	30.0dBm	0.822	22.1	21.7
	810	1909.8	30.1dBm	0.773	22.1	21.7

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Body worn_Bottom side (testing in EDGE mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
1900 MHz	661	1880	30.0dBm	0.237	22.1	21.7

WCDMA B2

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9262	1852.4	22.46dBm	0.616	22.1	21.7
	9400	1880	22.57dBm	0.717	22.1	21.7
	9538	1907.6	22.26dBm	0.651	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 B2	9262	1852.4	22.46dBm	0.844	22.1	21.7
	9400	1880	22.57dBm	0.944	22.1	21.7
	9538	1907.6	22.26dBm	0.926	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 B2	9400	1880	22.57dBm	0.982	22.1	21.7

Left Head (Cheek Position)_repeated with TWS Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9400	1880	22.57dBm	1.04	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 B2	9262	1852.4	22.46dBm	0.381	22.1	21.7
	9400	1880	22.57dBm	0.391	22.1	21.7
	9538	1907.6	22.26dBm	0.390	22.1	21.7

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Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9262	1852.4	22.46dBm	0.296	22.1	21.7
	9400	1880	22.57dBm	0.348	22.1	21.7
	9538	1907.6	22.26dBm	0.324	22.1	21.7
Body worn_Back side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9262	1852.4	22.46dBm	0.584	22.1	21.7
	9400	1880	22.57dBm	0.642	22.1	21.7
	9538	1907.6	22.26dBm	0.611	22.1	21.7
Body worn_Front side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9262	1852.4	22.46dBm	0.562	22.1	21.7
	9400	1880	22.57dBm	0.638	22.1	21.7
	9538	1907.6	22.26dBm	0.597	22.1	21.7
Body worn_Left side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9262	1852.4	22.46dBm	0.167	22.1	21.7
	9400	1880	22.57dBm	0.186	22.1	21.7
	9538	1907.6	22.26dBm	0.172	22.1	21.7
Body worn_Right side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9262	1852.4	22.46dBm	0.130	22.1	21.7
	9400	1880	22.57dBm	0.139	22.1	21.7
	9538	1907.6	22.26dBm	0.130	22.1	21.7

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Body worn_Bottom side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9262	1852.4	22.46dBm	1.12	22.1	21.7
	9400	1880	22.57dBm	1.17	22.1	21.7
	9538	1907.6	22.26dBm	1.09	22.1	21.7
Body worn_Back side_repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9400	1880	22.57dBm	0.758	22.1	21.7
Body worn_Back side_repeated with Kingstate headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9400	1880	22.57dBm	0.784	22.1	21.7
Body worn_Back side_repeated with Cotron headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9400	1880	22.57dBm	0.824	22.1	21.7
Body worn_Back side_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9400	1880	22.57dBm	0.796	22.1	21.7
Body worn_Back side_repeated with Foster headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9400	1880	22.57dBm	0.724	22.1	21.7
Body worn_Back side_repeated with TWS Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
WCDMA B2	9400	1880	22.57dBm	0.726	22.1	21.7

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WCDMA B5

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.71dBm	0.280	22.1	21.7
	4183	836.6	22.67dBm	0.210	22.1	21.7
	4233	846.6	22.66dBm	0.298	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 B5	4132	826.4	22.71dBm	0.315	22.1	21.7
	4183	836.6	22.67dBm	0.233	22.1	21.7
	4233	846.6	22.66dBm	0.313	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.71dBm	0.223	22.1	21.7
	4183	836.6	22.67dBm	0.175	22.1	21.7
	4233	846.6	22.66dBm	0.233	22.1	21.7
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.71dBm	0.232	22.1	21.7
	4183	836.6	22.67dBm	0.188	22.1	21.7
	4233	846.6	22.66dBm	0.242	22.1	21.7
Body worn_Back side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.71dBm	0.371	22.1	21.7
	4183	836.6	22.67dBm	0.269	22.1	21.7
	4233	846.6	22.66dBm	0.296	22.1	21.7

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Body worn_Front side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.71dBm	0.273	22.1	21.7
	4183	836.6	22.67dBm	0.194	22.1	21.7
	4233	846.6	22.66dBm	0.225	22.1	21.7
Body worn_Left side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.71dBm	0.442	22.1	21.7
	4183	836.6	22.67dBm	0.334	22.1	21.7
	4233	846.6	22.66dBm	0.395	22.1	21.7
Body worn_Right side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.71dBm	0.339	22.1	21.7
	4183	836.6	22.67dBm	0.258	22.1	21.7
	4233	846.6	22.66dBm	0.283	22.1	21.7
Body worn_Bottom side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.71dBm	0.075	22.1	21.7
	4183	836.6	22.67dBm	0.066	22.1	21.7
	4233	846.6	22.66dBm	0.080	22.1	21.7

WLAN802.11 b

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	1	2412	17.56dBm	0.084	22.1	21.7
	6	2437	17.68dBm	0.087	22.1	21.7
	11	2462	17.20dBm	0.058	22.1	21.7

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Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450 MHz	1	2412	17.56dBm	0.077	22.1	21.7
	6	2437	17.68dBm	0.081	22.1	21.7
	11	2462	17.20dBm	0.052	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]
2450 MHz	1	2412	17.56dBm	0.124	22.1	21.7
	6	2437	17.68dBm	0.131	22.1	21.7
	11	2462	17.20dBm	0.084	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]
2450 MHz	1	2412	17.56dBm	0.150	22.1	21.7
	6	2437	17.68dBm	0.145	22.1	21.7
	11	2462	17.20dBm	0.096	22.1	21.7
Left Head (15° Tilt Position)_repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450 MHz	1	2412	17.56dBm	0.148	22.1	21.7
Left Head(15° Tilt Position)_repeated with TWS Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450 MHz	1	2412	17.56dBm	0.141	22.1	21.7
Body worn_Back side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450 MHz	1	2412	17.56dBm	0.196	22.1	21.7
	6	2437	17.68dBm	0.206	22.1	21.7
	11	2462	17.20dBm	0.148	22.1	21.7

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Body worn_Back side_repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	17.68dBm	0.247	22.1	21.7
Body worn_Back side_repeated with Kingstate headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	17.68dBm	0.263	22.1	21.7
Body worn_Back side_repeated with Cotron headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	17.68dBm	0.249	22.1	21.7
Body worn_Back side_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	17.68dBm	0.288	22.1	21.7
Body worn_Back side_repeated with Foster headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	17.68dBm	0.276	22.1	21.7
Body worn_Back side_repeated with TWS Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	17.68dBm	0.232	22.1	21.7
Body worn_Front side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	1	2412	17.56dBm	0.015	22.1	21.7
	6	2437	17.68dBm	0.019	22.1	21.7
	11	2462	17.20dBm	0.011	22.1	21.7
Body worn_Top side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	1	2412	17.56dBm	0.178	22.1	21.7
	6	2437	17.68dBm	0.165	22.1	21.7
	11	2462	17.20dBm	0.114	22.1	21.7

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Body worn_Left side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450 MHz	1	2412	17.56dBm	0.030	22.1	21.7
	6	2437	17.68dBm	0.033	22.1	21.7
	11	2462	17.20dBm	0.015	22.1	21.7

Second solution

GSM 850 MHZ

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	33.0dBm	0.392	22.1	21.7
Body worn_Back side (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	32.9dBm	0.734	22.1	21.7

PCS 1900 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
1900 MHz	512	1850.2	29.8dBm	0.606	22.1	21.7
Body worn_Bottom side (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
1900 MHz	661	1880	30.0dBm	0.601	22.1	21.7

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WCDMA B2

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 B2	9400	1880	22.57dBm	0.991	22.1	21.7
Body worn_Bottom side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.57dBm	0.673	22.1	21.7

WCDMA B5

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.71dBm	0.360	22.1	21.7
Body worn_Left side						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.71dBm	0.147	22.1	21.7

WLAN802.11 b

Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	1	2412	17.56dBm	0.155	22.1	21.7
Body worn_Back side_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	17.68dBm	0.144	22.1	21.7

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3. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	EX3DV4	3703	Jan.24.2011
Schmid & Partner Engineering AG	850 /1900 /2450 MHz System Validation Dipole	D835V2	4d082	Jul.20.2010
		D1900V2	5d027	Apr.19.2011
		D2450V2	727	Apr.19.2011
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	679	Jun.18.2010
Schmid & Partner Engineering AG	Software	DASY 5 V5.0 Build 125	N/A	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required
HP	Network Analyzer	8753D	3410A05662	Mar.16.2011
HP	Dielectric Probe Kit	85070D	US01440168	Calibration not required
Agilent	Dual-directional coupler	778D	50313	Aug.25.2010
		777D	50114	Aug.25.2010
Agilent	RF Signal Generator	8648D	3847M00432	Jun.04.2010
Agilent	Power Sensor	U2001B	MY48100169	Apr.28.2011
Agilent	Radio Communication Test	E5515C	GB44051912	Jul.27.2010

Because the Power Sensor used USB cable to connect Computer, We don't used Power meter to test SAR.

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4. Measurements

Date: 08/05/2011

RE Cheek_CH128

DUT: PH06130

Communication System: Generic GSM; Frequency: 824.2 MHz

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.868$ mho/m; $\epsilon_r = 43.064$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Cheek/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.354 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

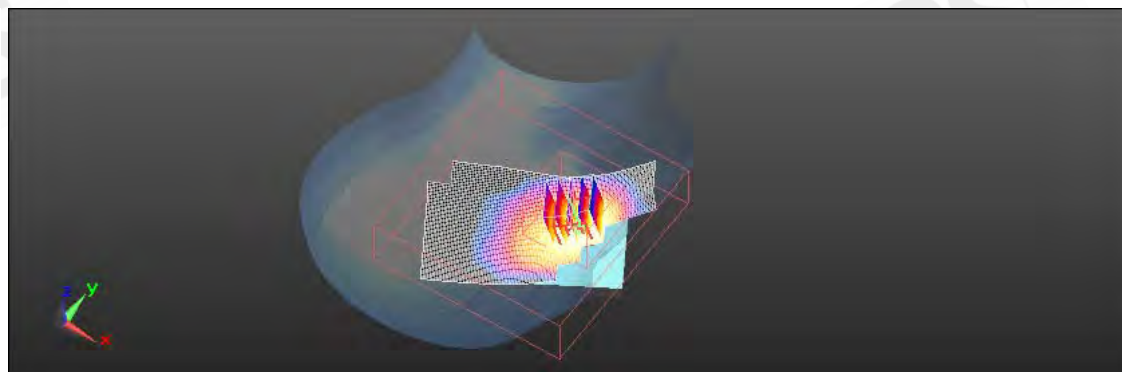
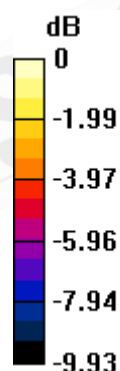
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.060 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.408 W/kg

SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.254 mW/g

Maximum value of SAR (measured) = 0.347 mW/g



0 dB = 0.350mW/g

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Date: 08/05/2011

RE Cheek_CH190

DUT: PH06130

Communication System: Generic GSM; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.882$ mho/m; $\epsilon_r = 42.447$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Cheek/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.317 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

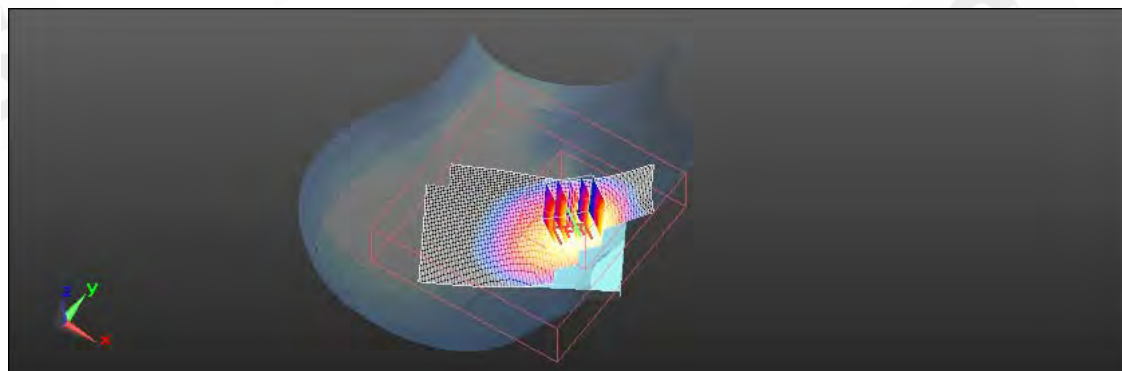
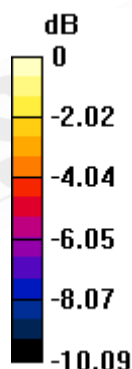
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.826 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.362 W/kg

SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.224 mW/g

Maximum value of SAR (measured) = 0.307 mW/g



0 dB = 0.310mW/g

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Date: 08/05/2011

RE Cheek_CH251

DUT: PH06130

Communication System: Generic GSM; Frequency: 848.6 MHz

Medium parameters used: $f = 849$ MHz; $\sigma = 0.901$ mho/m; $\epsilon_r = 41.714$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Cheek/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.272 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

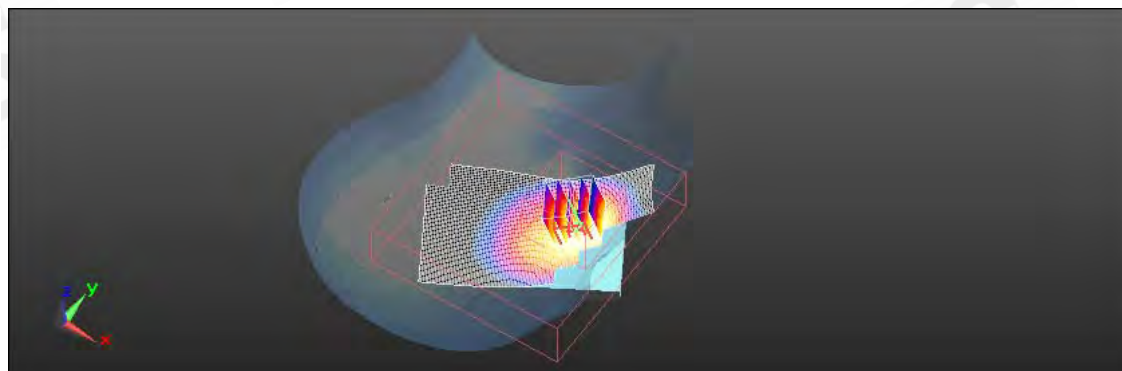
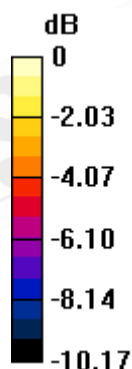
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.403 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.312 W/kg

SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.189 mW/g

Maximum value of SAR (measured) = 0.262 mW/g



0 dB = 0.260mW/g

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Date: 08/05/2011

LE Cheek_CH128**DUT: PH06130**

Communication System: Generic GSM; Frequency: 824.2 MHz

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.868$ mho/m; $\epsilon_r = 43.064$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.376 mW/g

Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

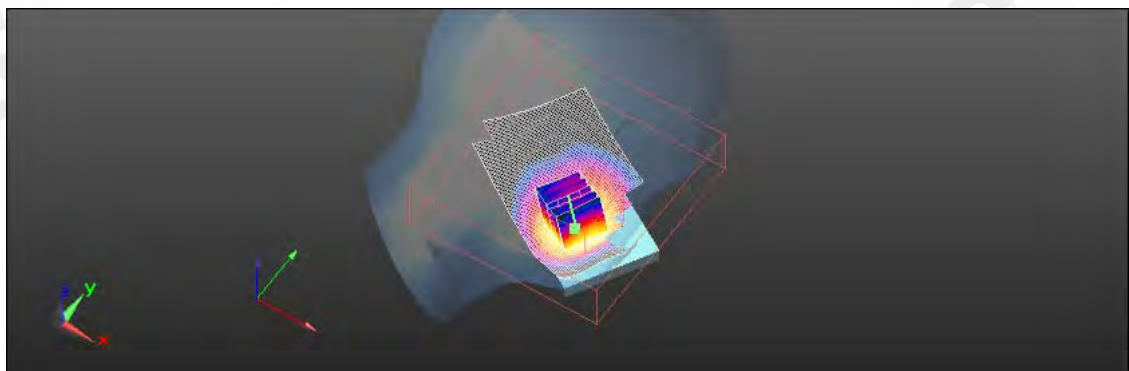
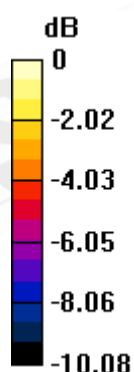
dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.519 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.507 W/kg

SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.263 mW/g

Maximum value of SAR (measured) = 0.386 mW/g



0 dB = 0.390mW/g

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Date: 08/05/2011

LE Cheek_CH190

DUT: PH06130

Communication System: Generic GSM; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.882$ mho/m; $\epsilon_r = 42.447$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.337 mW/g

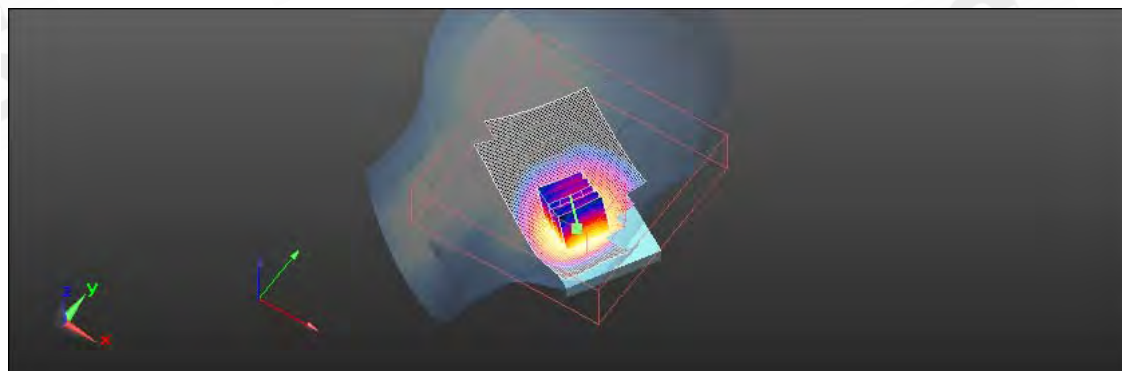
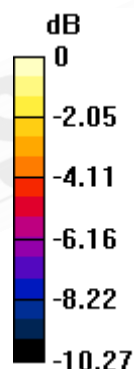
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.600 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.439 W/kg

SAR(1 g) = 0.316 mW/g; SAR(10 g) = 0.227 mW/g

Maximum value of SAR (measured) = 0.331 mW/g



0 dB = 0.330mW/g

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Date: 08/05/2011

LE Cheek_CH251**DUT: PH06130**

Communication System: Generic GSM; Frequency: 848.6 MHz

Medium parameters used: $f = 849$ MHz; $\sigma = 0.901$ mho/m; $\epsilon_r = 41.714$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

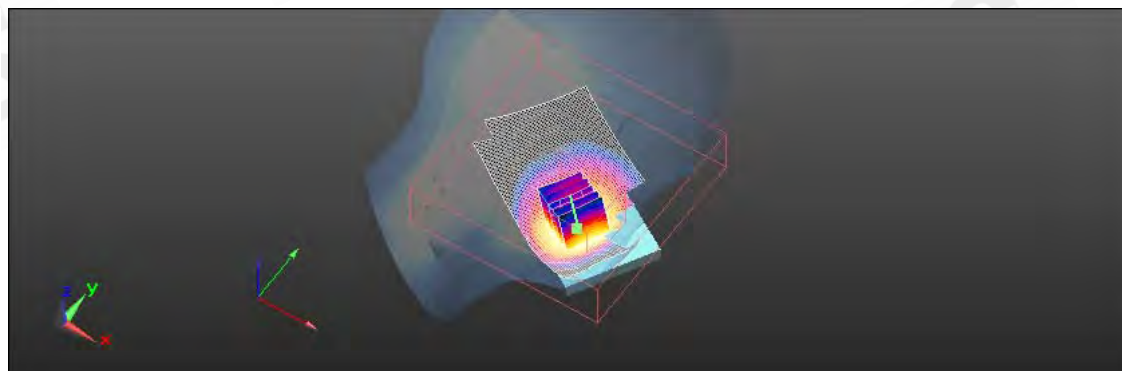
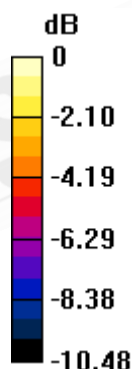
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.145 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.359 W/kg

SAR(1 g) = 0.266 mW/g; SAR(10 g) = 0.191 mW/g

Maximum value of SAR (measured) = 0.279 mW/g



0 dB = 0.280mW/g

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Date: 08/05/2011

RE Tilt_CH128**DUT: PH06130**

Communication System: Generic GSM; Frequency: 824.2 MHz

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.868$ mho/m; $\epsilon_r = 43.064$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.292 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

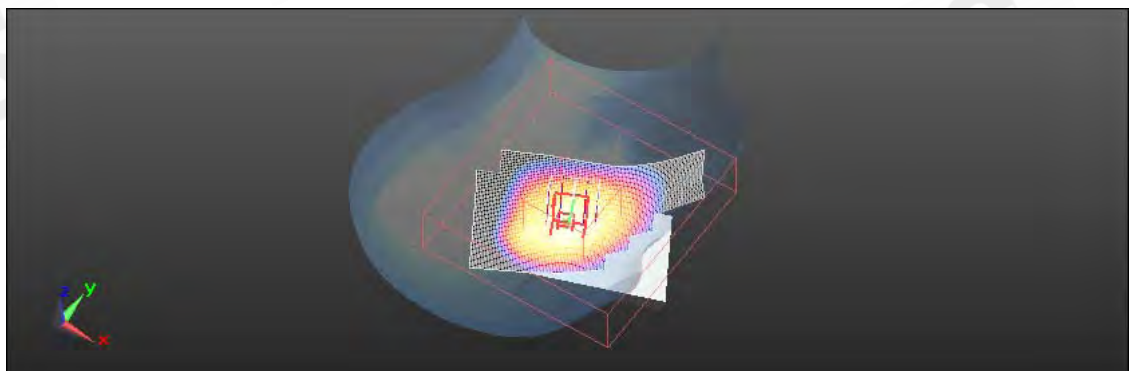
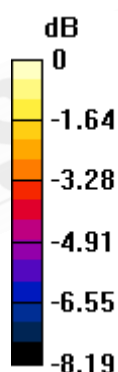
dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.104 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.341 W/kg

SAR(1 g) = 0.277 mW/g; SAR(10 g) = 0.216 mW/g

Maximum value of SAR (measured) = 0.287 mW/g



0 dB = 0.290mW/g

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Date: 08/05/2011

RE Tilt_CH190**DUT: PH06130**

Communication System: Generic GSM; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.882$ mho/m; $\epsilon_r = 42.447$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.260 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

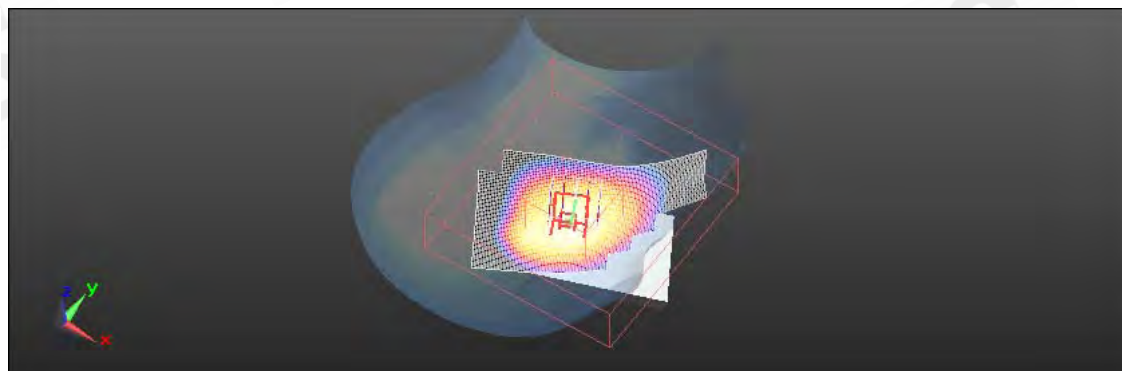
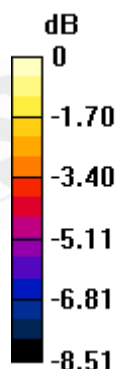
dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.305 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.304 W/kg

SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.192 mW/g

Maximum value of SAR (measured) = 0.258 mW/g



0 dB = 0.260mW/g

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Date: 08/05/2011

RE Tilt_CH251**DUT: PH06130**

Communication System: Generic GSM; Frequency: 848.6 MHz

Medium parameters used: $f = 849$ MHz; $\sigma = 0.901$ mho/m; $\epsilon_r = 41.714$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.228 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

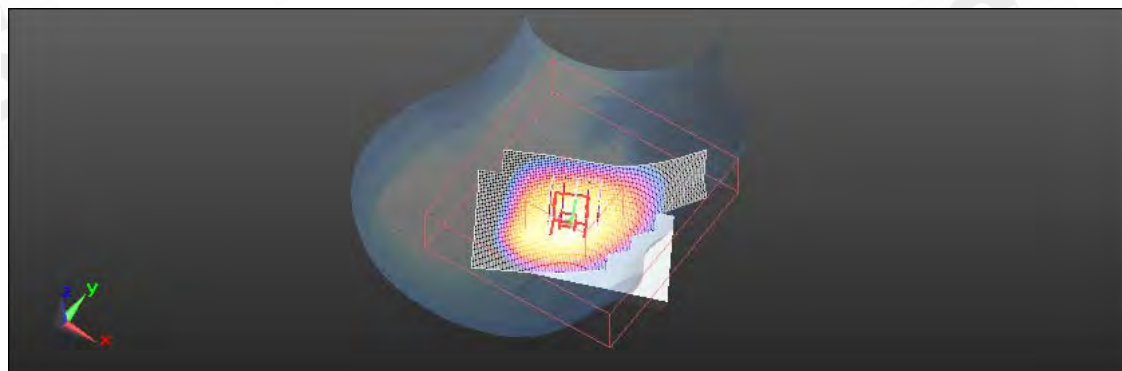
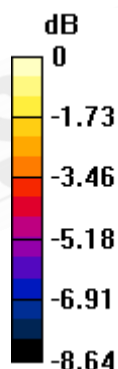
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.348 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.270 W/kg

SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.168 mW/g

Maximum value of SAR (measured) = 0.226 mW/g



0 dB = 0.230mW/g

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Date: 08/05/2011

LE Tilt_CH128**DUT: PH06130**

Communication System: Generic GSM; Frequency: 824.2 MHz

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.868$ mho/m; $\epsilon_r = 43.064$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.282 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

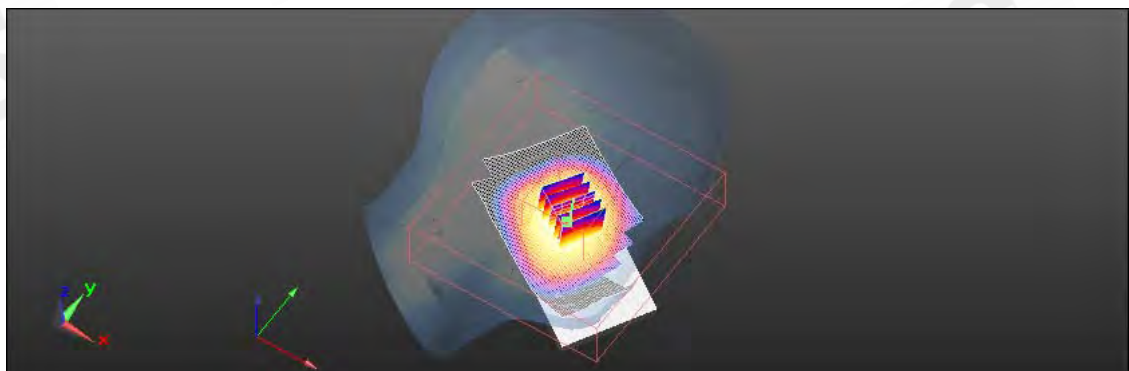
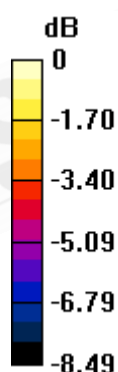
dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.782 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.268 mW/g; SAR(10 g) = 0.209 mW/g

Maximum value of SAR (measured) = 0.279 mW/g



0 dB = 0.280mW/g

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Date: 08/05/2011

LE Tilt_CH190

DUT: PH06130

Communication System: Generic GSM; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.882$ mho/m; $\epsilon_r = 42.447$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.253 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

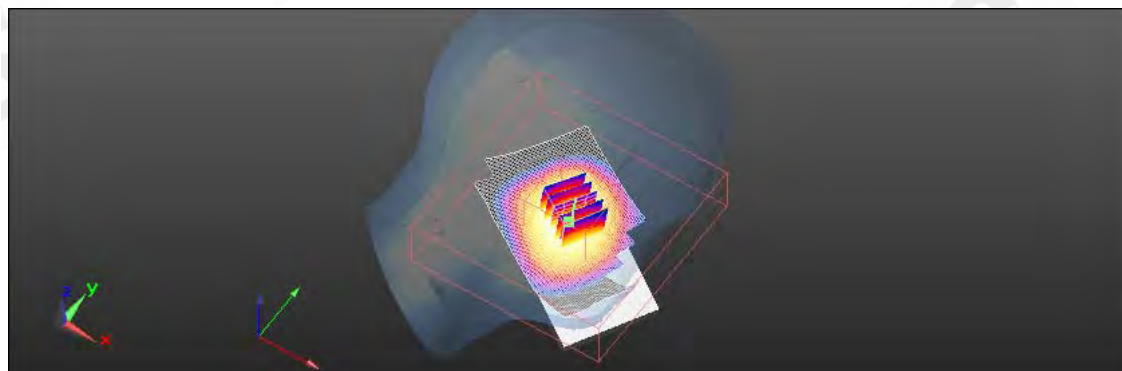
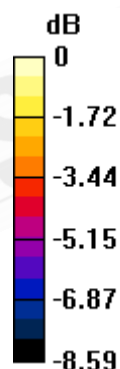
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.992 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.187 mW/g

Maximum value of SAR (measured) = 0.250 mW/g



0 dB = 0.250mW/g

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Date: 08/05/2011

LE Tilt_CH251**DUT: PH06130**

Communication System: Generic GSM; Frequency: 848.6 MHz

Medium parameters used: $f = 849$ MHz; $\sigma = 0.901$ mho/m; $\epsilon_r = 41.714$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.217 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

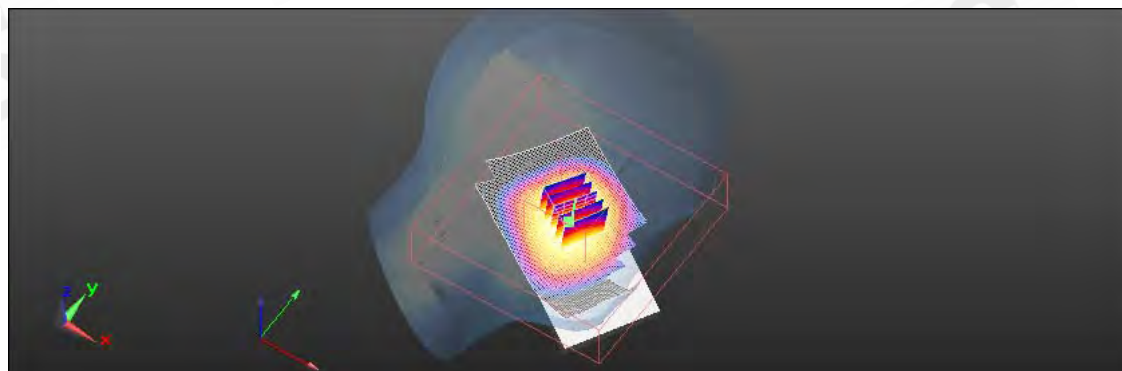
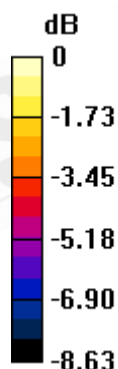
dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.920 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.260 W/kg

SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.160 mW/g

Maximum value of SAR (measured) = 0.215 mW/g



0 dB = 0.220mW/g

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Date: 08/05/2011

BODY_Back side_CH128**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 824.2 MHz

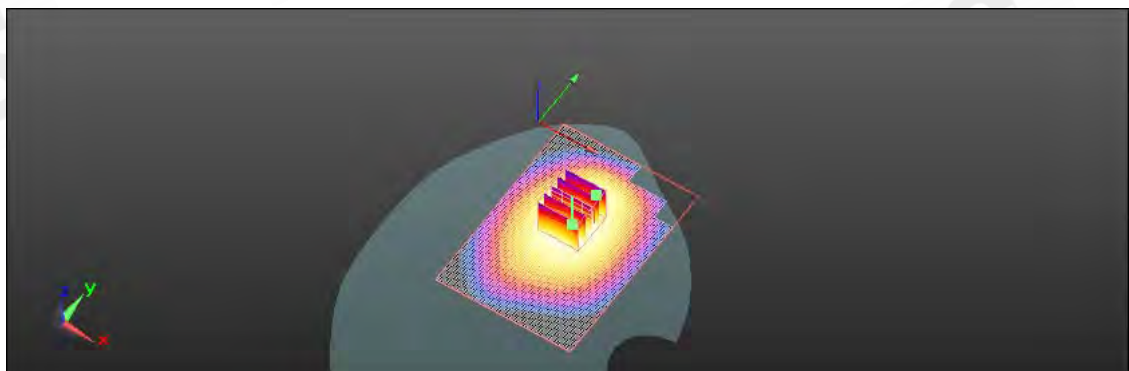
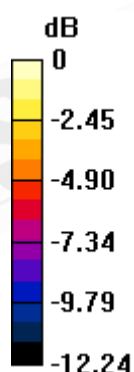
Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 53.273$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.845 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 13.172 V/m ; Power Drift = -0.10 dB Peak SAR (extrapolated) = 1.023 W/kg **SAR(1 g) = 0.794 mW/g ; SAR(10 g) = 0.590 mW/g** Maximum value of SAR (measured) = 0.832 mW/g 0 dB = 0.830 mW/g

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Date: 08/05/2011

BODY_Back side_CH190**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.973$ mho/m; $\epsilon_r = 53.462$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.759 mW/g

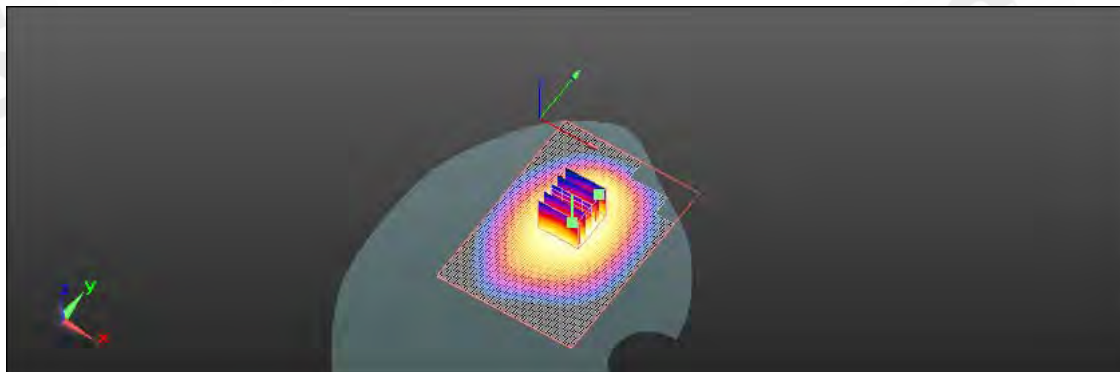
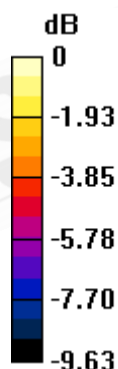
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.502 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 0.931 W/kg

SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.540 mW/g

Maximum value of SAR (measured) = 0.758 mW/g



0 dB = 0.760mW/g

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Date: 08/05/2011

BODY_Back side_CH251**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 848.8 MHz

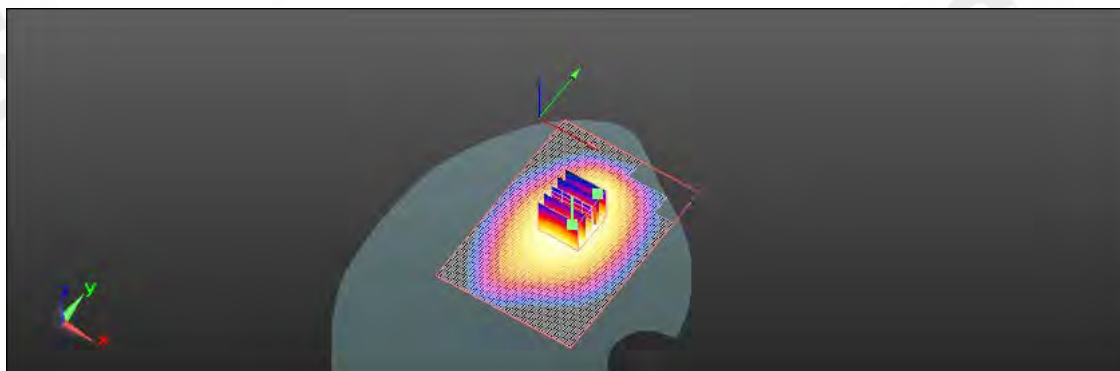
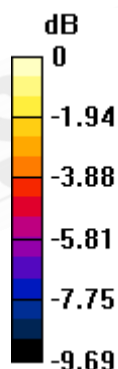
Medium parameters used: $f = 849 \text{ MHz}$; $\sigma = 0.985 \text{ mho/m}$; $\epsilon_r = 53.714$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.643 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 14.055 V/m ; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.767 W/kg **SAR(1 g) = 0.609 mW/g ; SAR(10 g) = 0.455 mW/g** Maximum value of SAR (measured) = 0.636 mW/g 0 dB = 0.640mW/g

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Date: 08/05/2011

BODY_Front side_CH128**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 824.2 MHz

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.969$ mho/m; $\epsilon_r = 53.273$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.656 mW/g

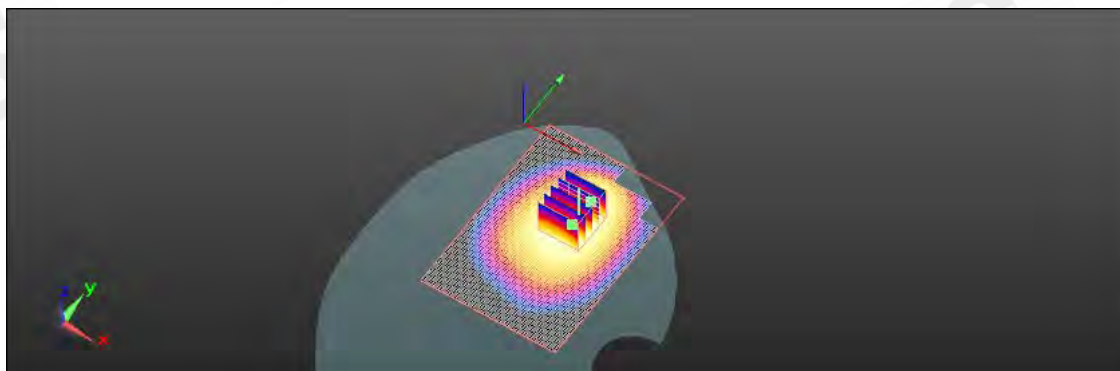
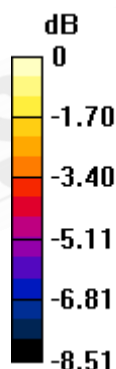
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.211 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.766 W/kg

SAR(1 g) = 0.618 mW/g; SAR(10 g) = 0.471 mW/g

Maximum value of SAR (measured) = 0.652 mW/g



0 dB = 0.650mW/g

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Date: 08/05/2011

BODY_Front side_CH190

DUT: PH06130

Communication System: GPRS(Class 10); Frequency: 836.6 MHz

Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.973 \text{ mho/m}$; $\epsilon_r = 53.462$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.581 mW/g

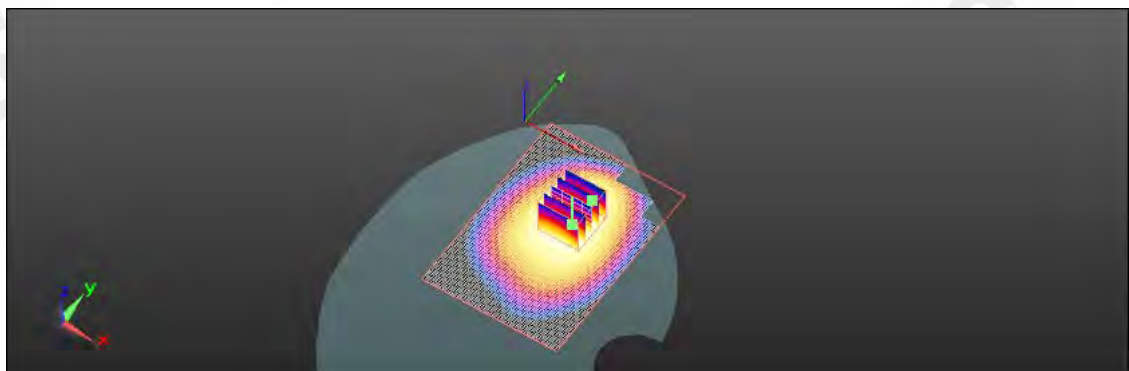
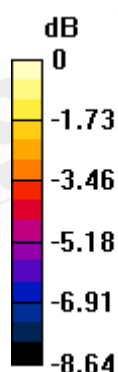
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.649 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.686 W/kg

SAR(1 g) = 0.549 mW/g; SAR(10 g) = 0.419 mW/g

Maximum value of SAR (measured) = 0.574 mW/g



0 dB = 0.570mW/g

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Date: 08/05/2011

BODY_Front side_CH251**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 848.8 MHz

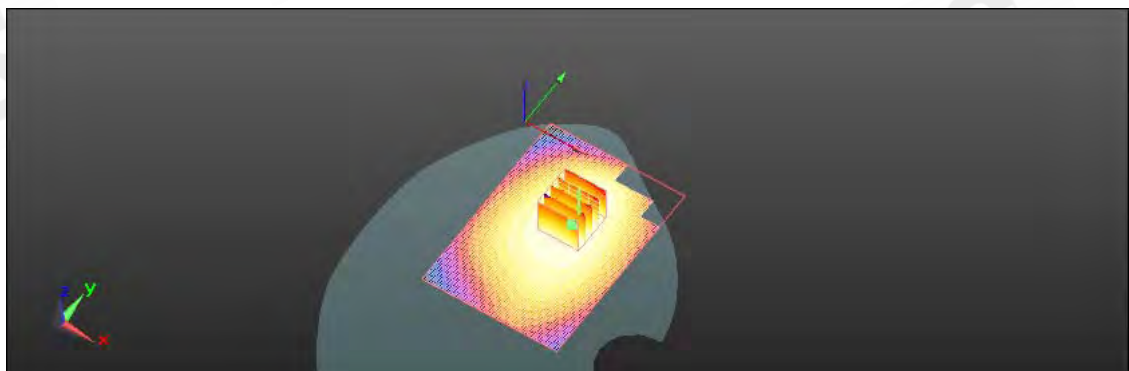
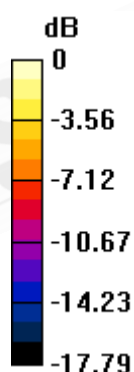
Medium parameters used: $f = 849 \text{ MHz}$; $\sigma = 0.985 \text{ mho/m}$; $\epsilon_r = 53.714$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.436 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 11.558 V/m ; Power Drift = -0.10 dB Peak SAR (extrapolated) = 0.522 W/kg **SAR(1 g) = 0.412 mW/g ; SAR(10 g) = 0.313 mW/g** Maximum value of SAR (measured) = 0.432 mW/g 0 dB = 0.430mW/g

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Date: 08/05/2011

BODY_Left side_CH128**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 824.2 MHz

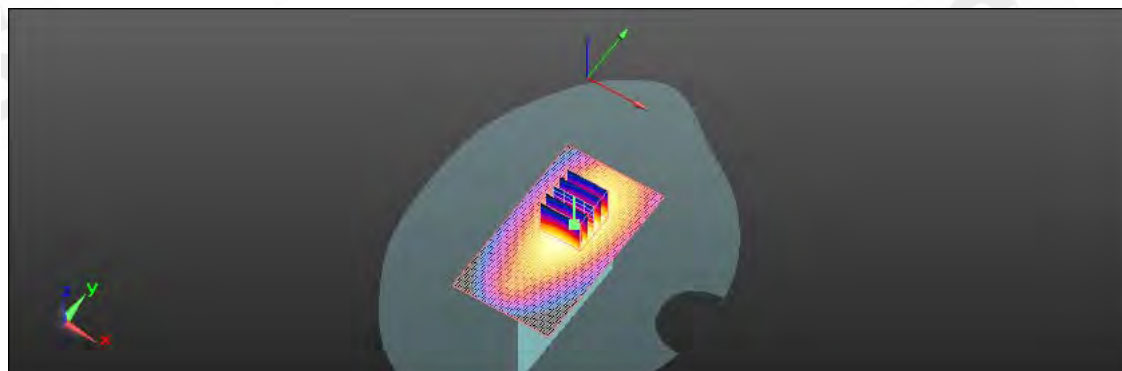
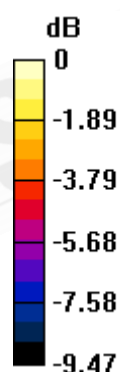
Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 53.273$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.217 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 13.886 V/m ; Power Drift = -0.16 dB Peak SAR (extrapolated) = 0.282 W/kg **SAR(1 g) = 0.203 mW/g ; SAR(10 g) = 0.142 mW/g** Maximum value of SAR (measured) = 0.216 mW/g 0 dB = 0.220mW/g

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Date: 08/05/2011

BODY_Left side_CH190**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 836.6 MHz

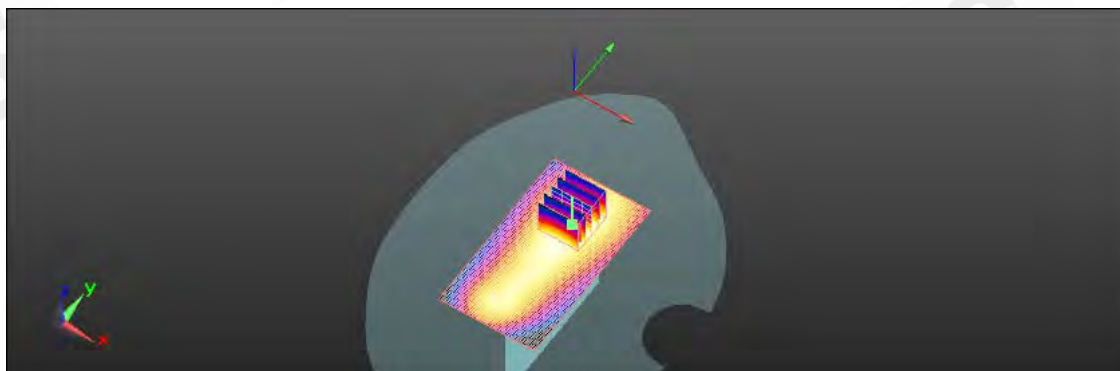
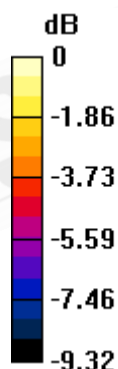
Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.973 \text{ mho/m}$; $\epsilon_r = 53.462$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.124 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.645 V/m ; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.143 W/kg **SAR(1 g) = 0.105 mW/g ; SAR(10 g) = 0.074 mW/g** Maximum value of SAR (measured) = 0.111 mW/g 0 dB = 0.110mW/g

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Date: 08/05/2011

BODY_Left side_CH251**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 848.8 MHz

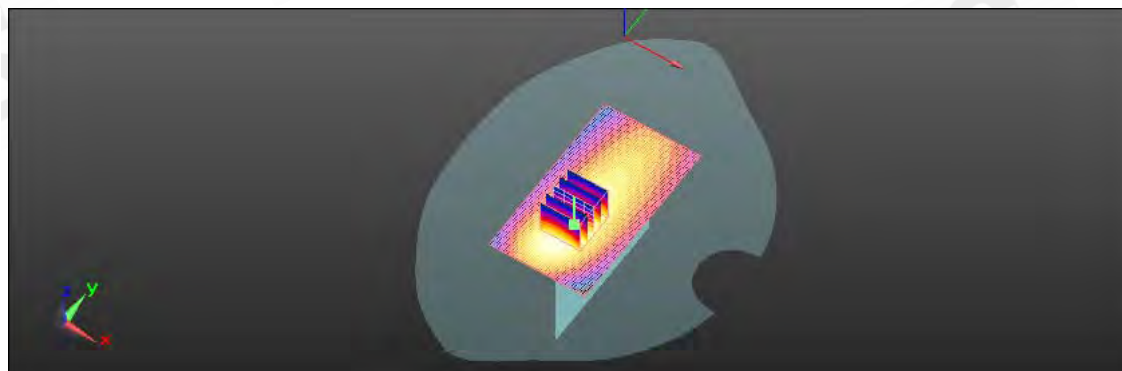
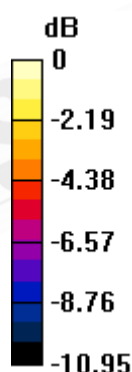
Medium parameters used: $f = 849 \text{ MHz}$; $\sigma = 0.985 \text{ mho/m}$; $\epsilon_r = 53.714$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.117 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.965 V/m ; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.157 W/kg **SAR(1 g) = 0.110 mW/g ; SAR(10 g) = 0.074 mW/g** Maximum value of SAR (measured) = 0.118 mW/g 0 dB = 0.120mW/g

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Date: 08/05/2011

BODY_Right side_CH128

DUT: PH06130

Communication System: GPRS(Class 10); Frequency: 824.2 MHz

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.969$ mho/m; $\epsilon_r = 53.273$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.213 mW/g

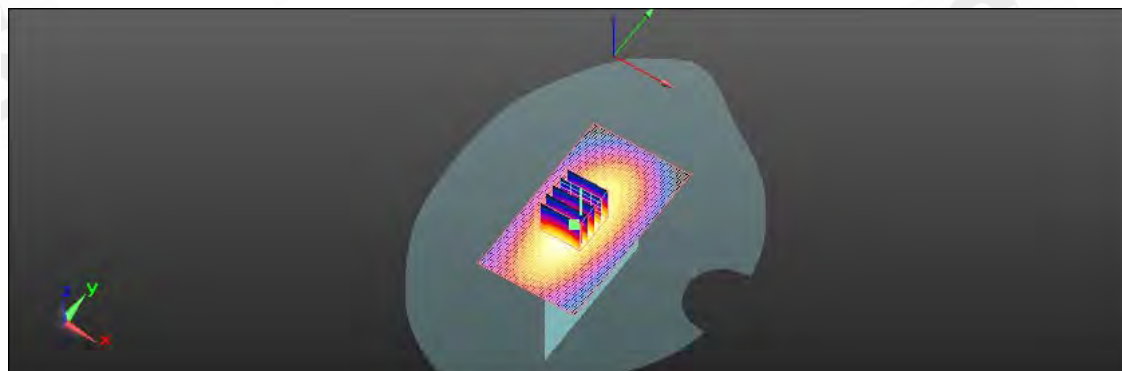
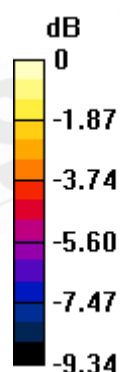
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.079 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.265 W/kg

SAR(1 g) = 0.193 mW/g; SAR(10 g) = 0.135 mW/g

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



0 dB = 0.210mW/g

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Date: 08/05/2011

BODY_Right side_CH190**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 836.6 MHz

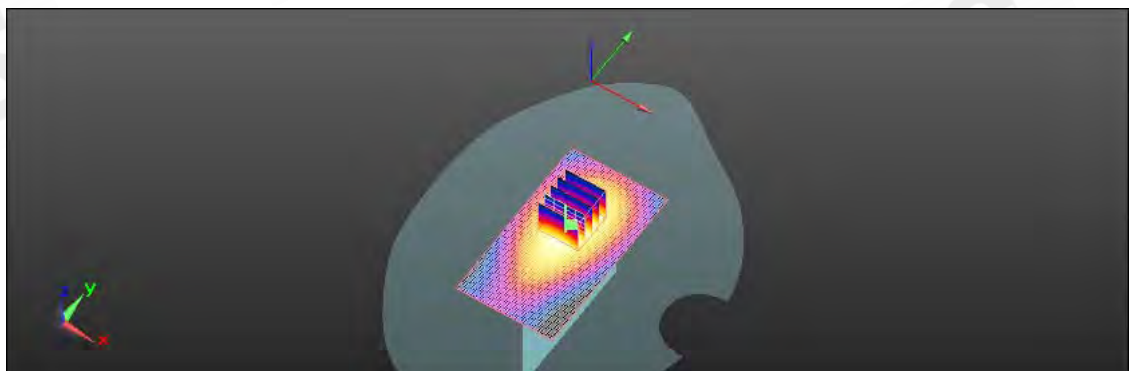
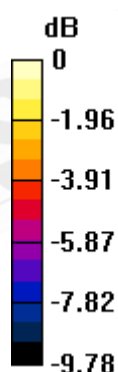
Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.973 \text{ mho/m}$; $\epsilon_r = 53.462$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.147 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 10.688 V/m ; Power Drift = -0.08 dB Peak SAR (extrapolated) = 0.192 W/kg **SAR(1 g) = 0.139 mW/g ; SAR(10 g) = 0.097 mW/g** Maximum value of SAR (measured) = 0.147 mW/g 0 dB = 0.150mW/g

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Date: 08/05/2011

BODY_Right side_CH251**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 848.8 MHz

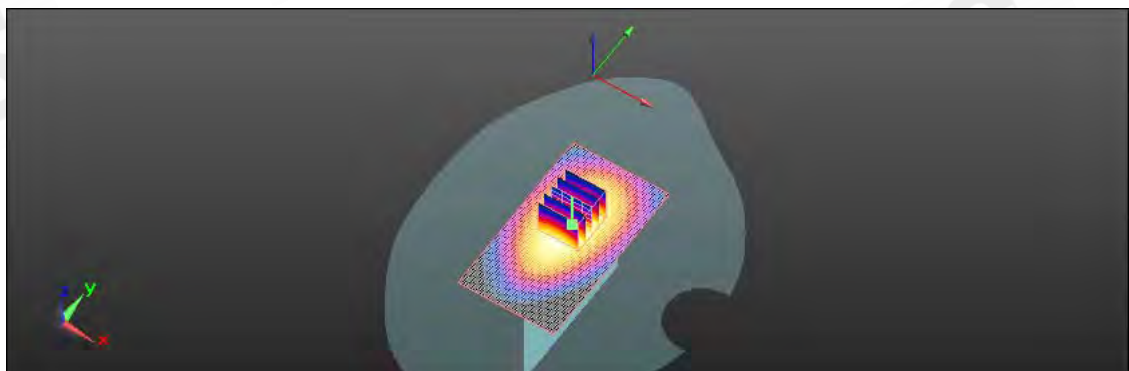
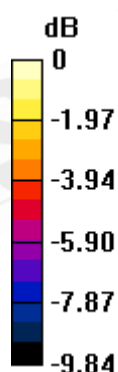
Medium parameters used: $f = 849 \text{ MHz}$; $\sigma = 0.985 \text{ mho/m}$; $\epsilon_r = 53.714$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/20/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.184 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 12.058 V/m ; Power Drift = -0.06 dB Peak SAR (extrapolated) = 0.237 W/kg **SAR(1 g) = 0.171 mW/g ; SAR(10 g) = 0.119 mW/g** Maximum value of SAR (measured) = 0.183 mW/g 0 dB = 0.180mW/g

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Date: 08/05/2011

BODY_Bottom side_ CH128**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 824.2 MHz

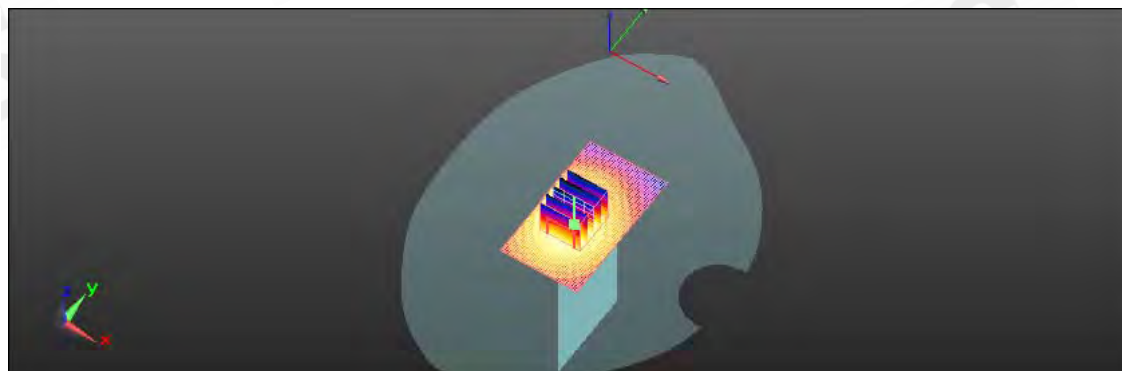
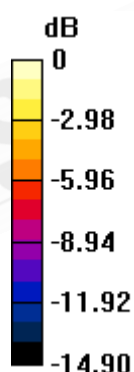
Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 53.273$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.148 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 11.095 V/m ; Power Drift = -0.11 dB Peak SAR (extrapolated) = 0.252 W/kg **SAR(1 g) = 0.136 mW/g ; SAR(10 g) = 0.080 mW/g** Maximum value of SAR (measured) = 0.148 mW/g 0 dB = 0.150mW/g

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Date: 08/05/2011

BODY_Bottom side_CH190**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.973$ mho/m; $\epsilon_r = 53.462$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.146 mW/g

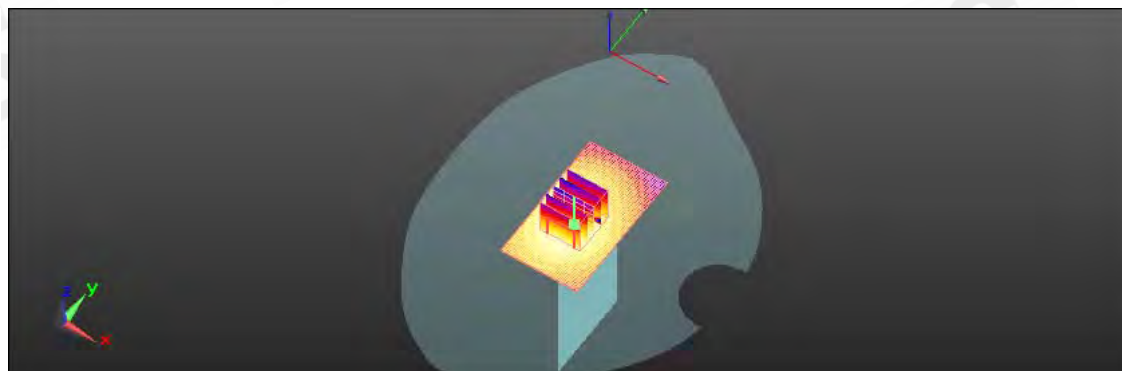
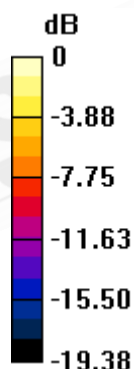
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.712 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.227 W/kg

SAR(1 g) = 0.134 mW/g; SAR(10 g) = 0.080 mW/g

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



0 dB = 0.150mW/g

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Date: 08/05/2011

BODY_Bottom side_CH251**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 848.8 MHz

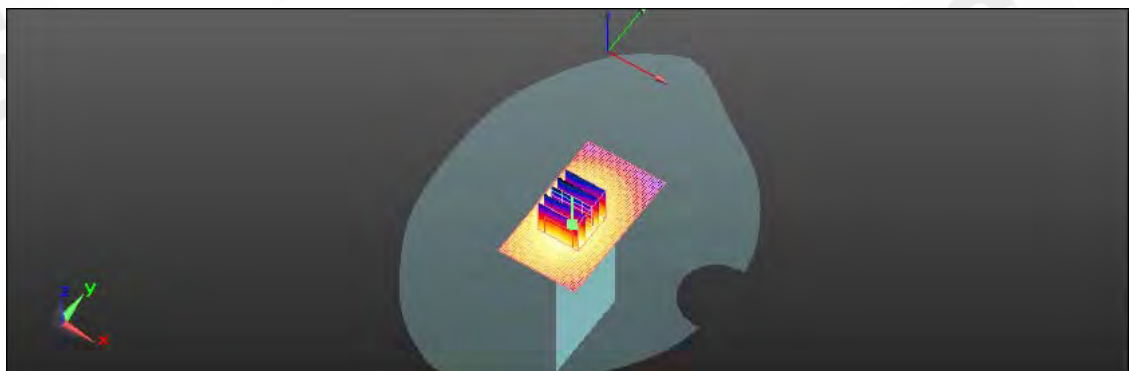
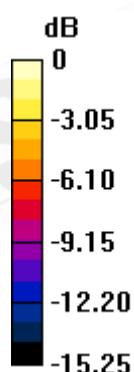
Medium parameters used: $f = 849 \text{ MHz}$; $\sigma = 0.985 \text{ mho/m}$; $\epsilon_r = 53.714$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.133 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 10.424 V/m ; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.235 W/kg **SAR(1 g) = 0.126 mW/g ; SAR(10 g) = 0.075 mW/g** Maximum value of SAR (measured) = 0.139 mW/g 0 dB = 0.140mW/g

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Date: 09/05/2011

RE Cheek_CH512

DUT: PH06130

Communication System: Generic GSM; Frequency: 1850.2 MHz

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.377$ mho/m; $\epsilon_r = 39.804$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Cheek/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.498 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

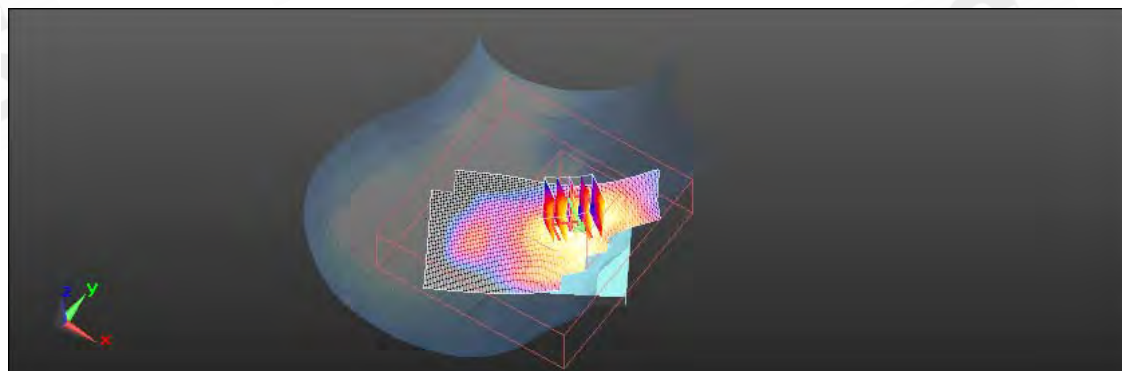
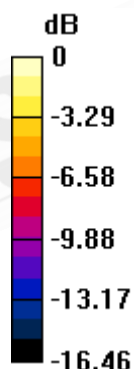
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.623 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.570 W/kg

SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.294 mW/g

Maximum value of SAR (measured) = 0.461 mW/g



0 dB = 0.460mW/g

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Date: 09/05/2011

RE Cheek_CH661

DUT: PH06130

Communication System: Generic GSM; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 39.611$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Cheek/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.386 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

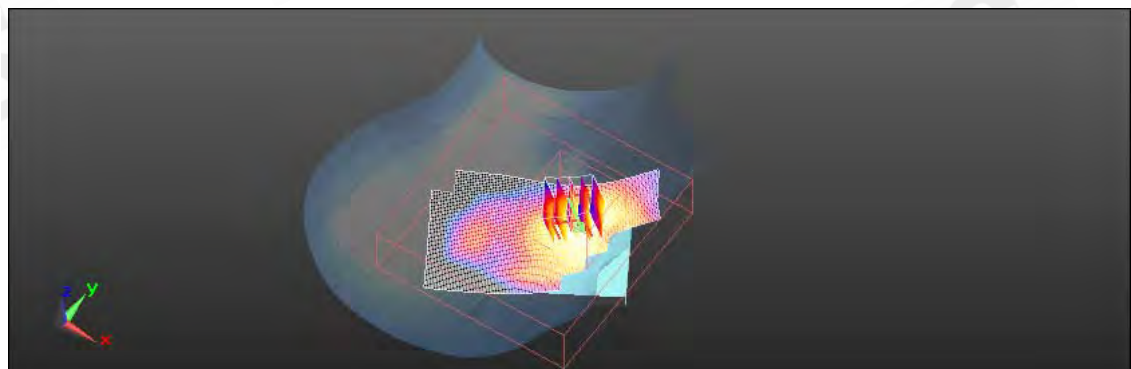
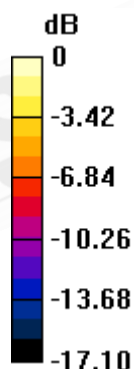
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.015 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.463 W/kg

SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.230 mW/g

Maximum value of SAR (measured) = 0.361 mW/g



0 dB = 0.360mW/g

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Date: 09/05/2011

RE Cheek_CH810

DUT: PH06130

Communication System: Generic GSM; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.435$ mho/m; $\epsilon_r = 40.321$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Cheek/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.300 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

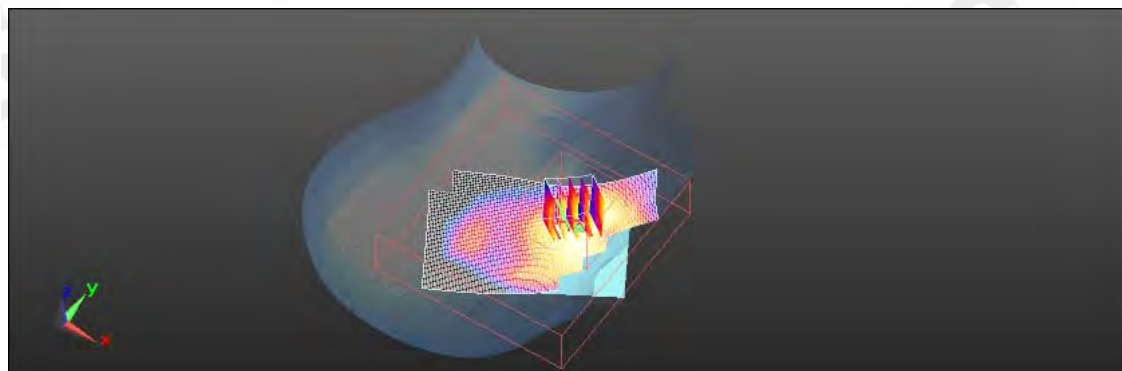
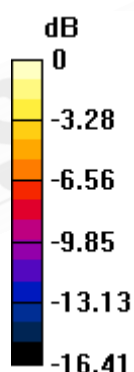
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.380 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.373 W/kg

SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.180 mW/g

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



0 dB = 0.280mW/g

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Date: 09/05/2011

LE Cheek_CH512**DUT: PH06130**

Communication System: Generic GSM; Frequency: 1850.2 MHz

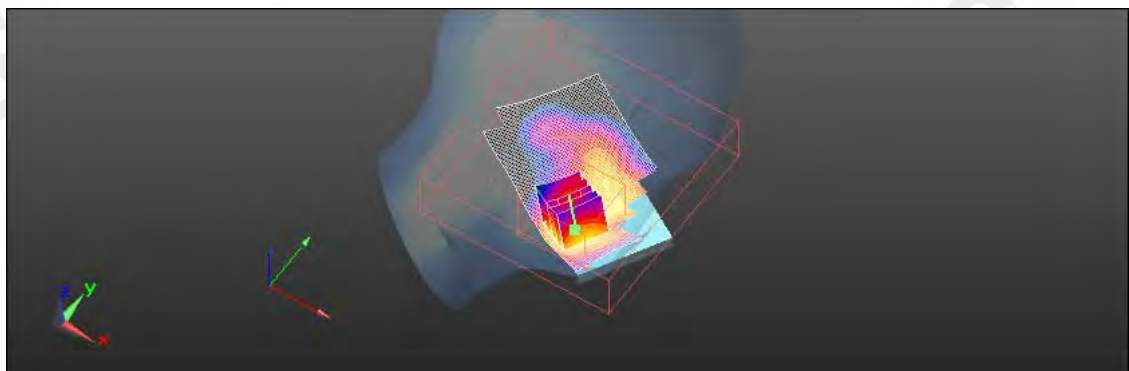
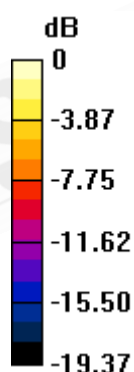
Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.377 \text{ mho/m}$; $\epsilon_r = 39.804$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.618 mW/g **Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.320 V/m ; Power Drift = 0.16 dB Peak SAR (extrapolated) = 0.841 W/kg **SAR(1 g) = 0.582 mW/g ; SAR(10 g) = 0.345 mW/g** Maximum value of SAR (measured) = 0.630 mW/g 0 dB = 0.630mW/g

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Date: 09/05/2011

LE Cheek_CH661**DUT: PH06130**

Communication System: Generic GSM; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 39.611$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.505 mW/g

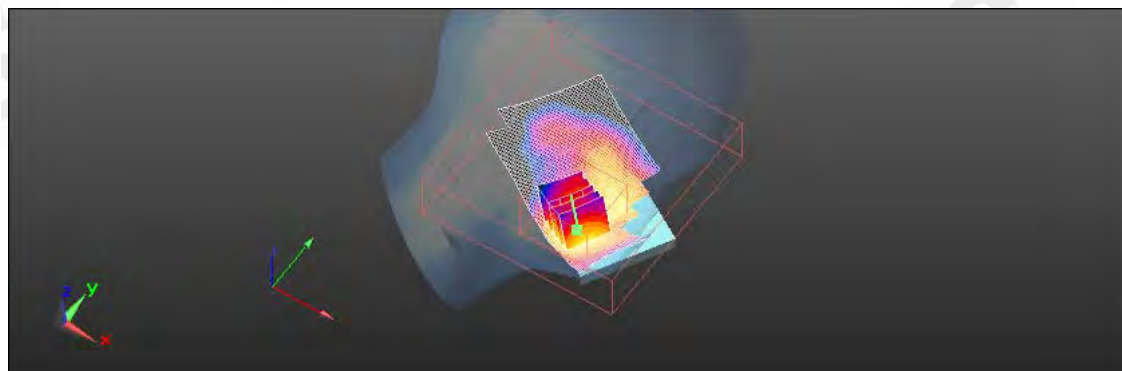
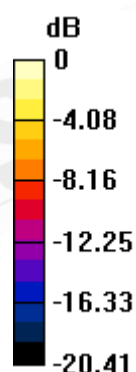
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.999 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.684 W/kg

SAR(1 g) = 0.467 mW/g; SAR(10 g) = 0.278 mW/g

Maximum value of SAR (measured) = 0.507 mW/g



0 dB = 0.510mW/g

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Date: 09/05/2011

LE Cheek_CH810

DUT: PH06130

Communication System: Generic GSM; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.435$ mho/m; $\epsilon_r = 40.321$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.408 mW/g

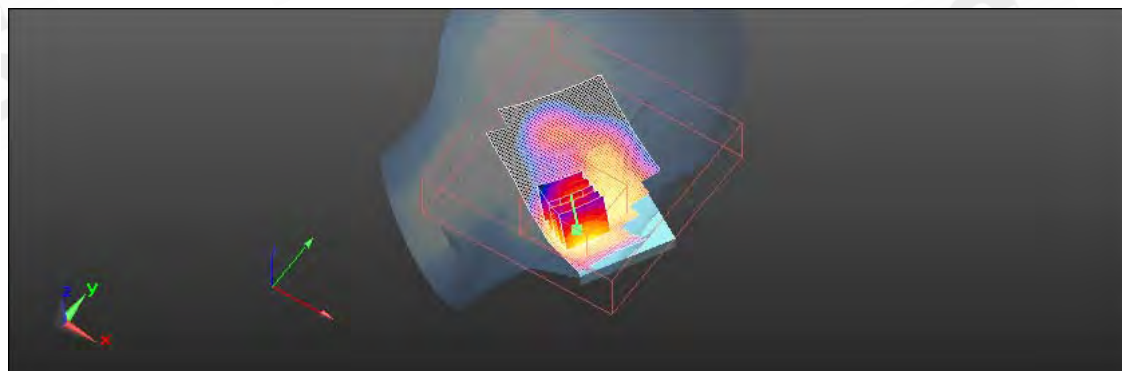
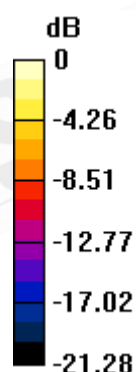
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.597 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.559 W/kg

SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.224 mW/g

Maximum value of SAR (measured) = 0.409 mW/g



0 dB = 0.410mW/g

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Date: 09/05/2011

RE Tilt_CH512**DUT: PH06130**

Communication System: Generic GSM; Frequency: 1850.2 MHz

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.377$ mho/m; $\epsilon_r = 39.804$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.251 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

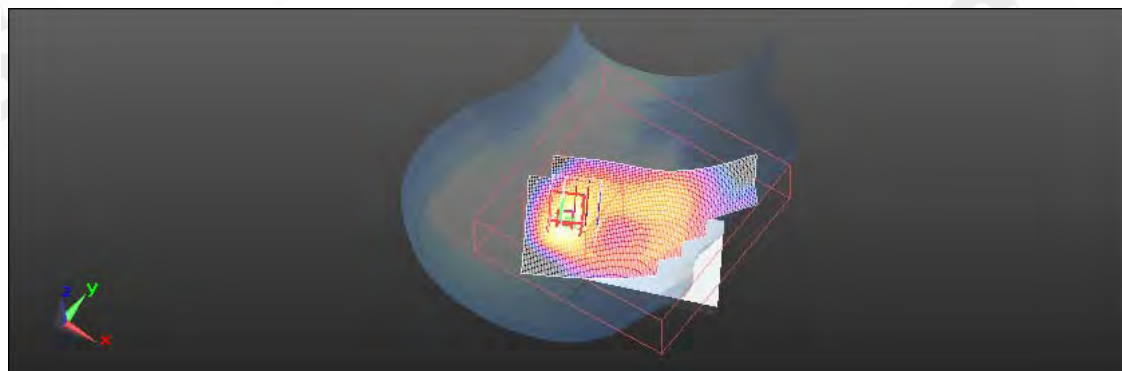
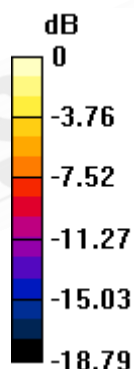
dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.437 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.364 W/kg

SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.125 mW/g

Maximum value of SAR (measured) = 0.243 mW/g



0 dB = 0.240mW/g

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Date: 09/05/2011

RE Tilt_CH661

DUT: PH06130

Communication System: Generic GSM; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 39.611$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.210 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

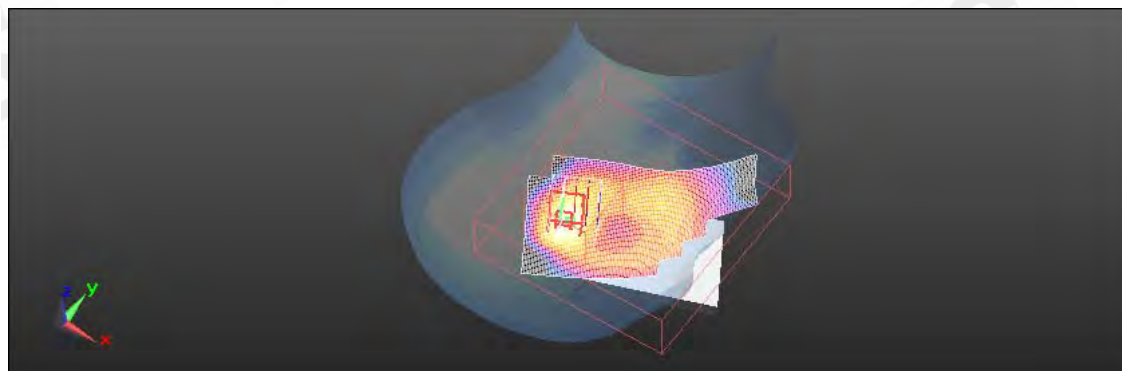
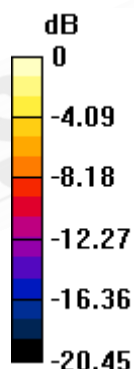
dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.022 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.103 mW/g

Maximum value of SAR (measured) = 0.203 mW/g



0 dB = 0.200mW/g

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Date: 09/05/2011

RE Tilt_CH810**DUT: PH06130**

Communication System: Generic GSM; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.435$ mho/m; $\epsilon_r = 40.321$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.197 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

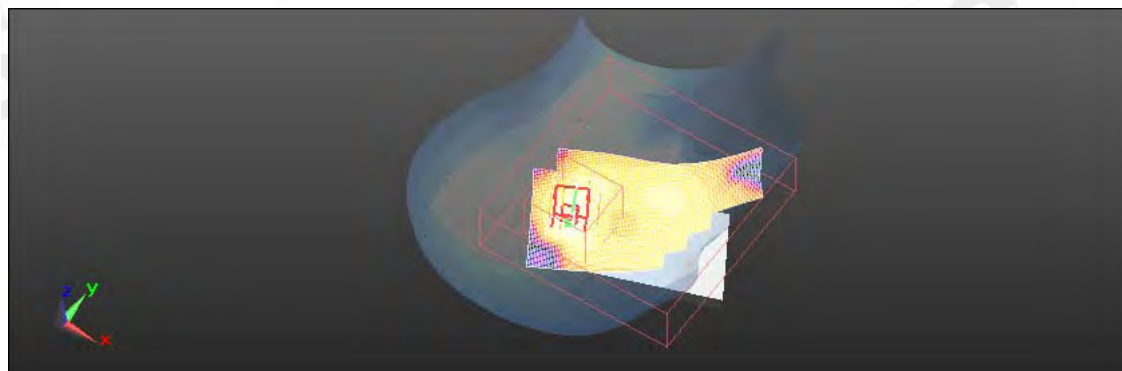
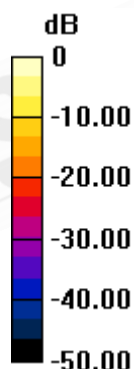
dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.892 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.268 W/kg

SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.085 mW/g

Maximum value of SAR (measured) = 0.175 mW/g



0 dB = 0.170mW/g

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Date: 09/05/2011

LE Tilt_CH512**DUT: PH06130**

Communication System: Generic GSM; Frequency: 1850.2 MHz

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.377$ mho/m; $\epsilon_r = 39.804$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.227 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

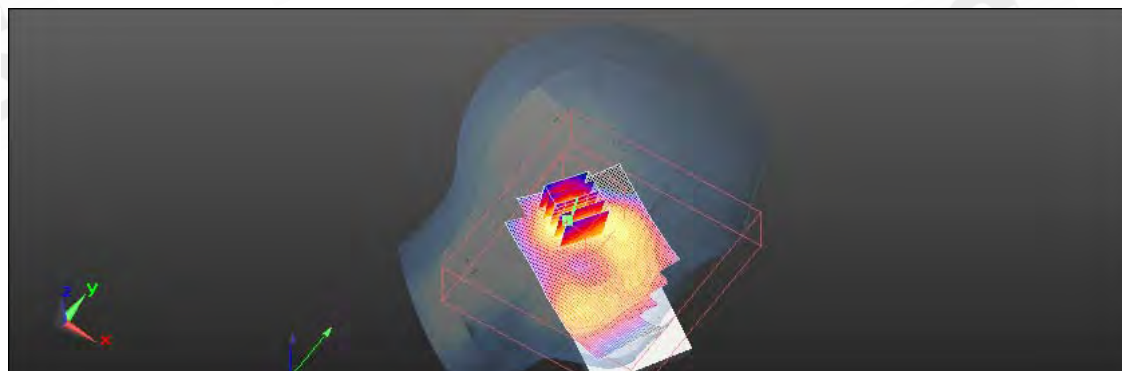
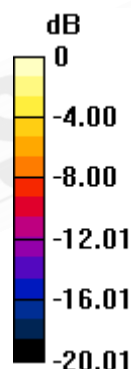
dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.147 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.111 mW/g

Maximum value of SAR (measured) = 0.222 mW/g



0 dB = 0.220mW/g

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Date: 09/05/2011

LE Tilt_CH661**DUT: PH06130**

Communication System: Generic GSM; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 39.611$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.182 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

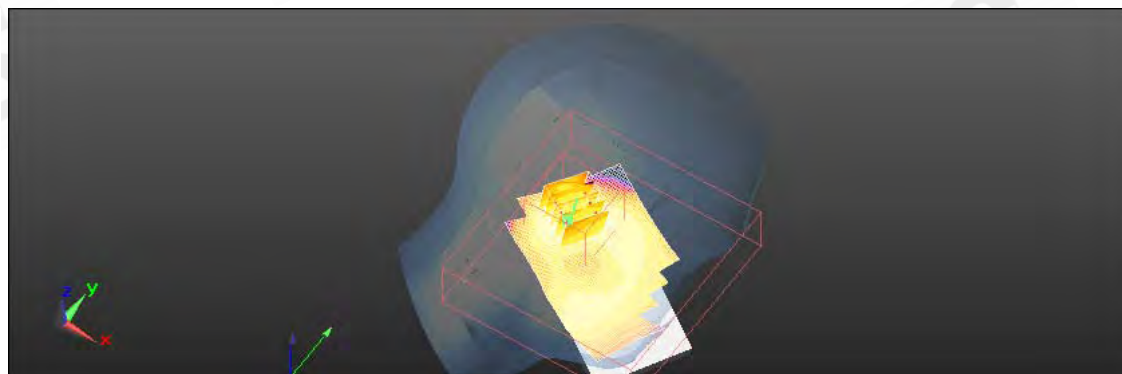
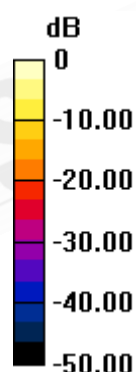
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.066 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.273 W/kg

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.091 mW/g

Maximum value of SAR (measured) = 0.183 mW/g



0 dB = 0.180mW/g

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Date: 09/05/2011

LE Tilt_CH810**DUT: PH06130**

Communication System: Generic GSM; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.435$ mho/m; $\epsilon_r = 40.321$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.152 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

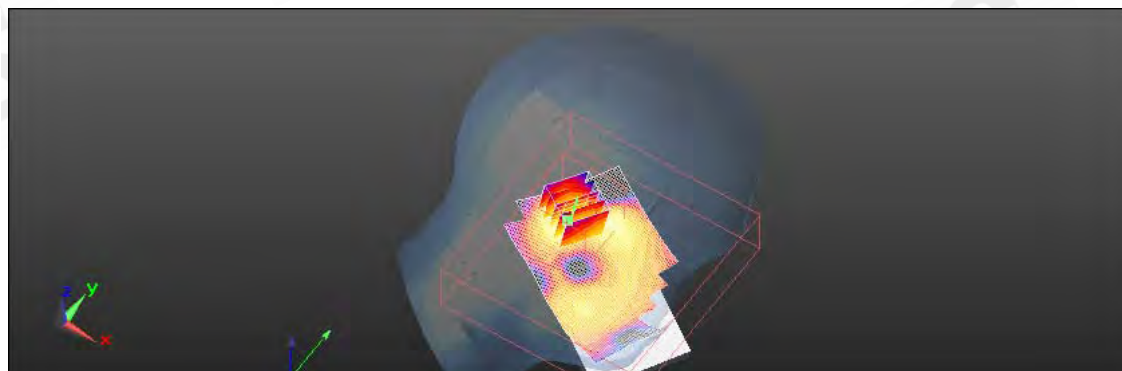
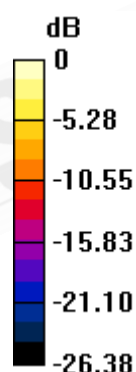
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.809 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.215 W/kg

SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.070 mW/g

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



0 dB = 0.150mW/g

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Date: 09/05/2011

BODY_Back side_CH512

DUT: PH06130

Communication System: GPRS(Class 10); Frequency: 1850.2 MHz

Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.477 \text{ mho/m}$; $\epsilon_r = 52.904$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.794 mW/g

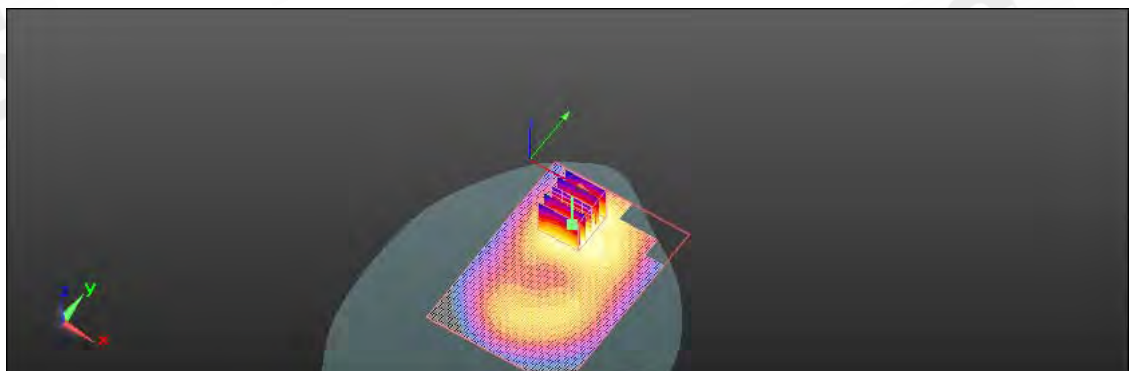
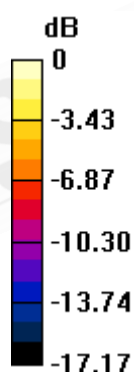
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.646 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.140 W/kg

SAR(1 g) = 0.727 mW/g; SAR(10 g) = 0.448 mW/g

Maximum value of SAR (measured) = 0.782 mW/g



0 dB = 0.780mW/g

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Date: 09/05/2011

BODY_Back side_CH661

DUT: PH06130

Communication System: GPRS(Class 10); Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ mho/m; $\epsilon_r = 52.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

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

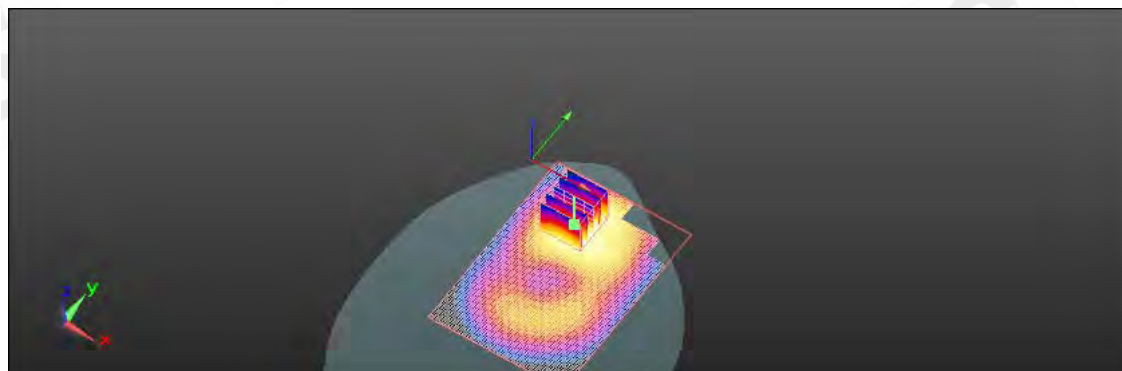
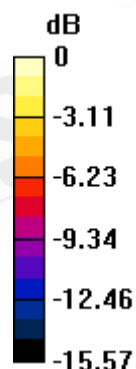
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.878 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.962 W/kg

SAR(1 g) = 0.618 mW/g; SAR(10 g) = 0.380 mW/g

Maximum value of SAR (measured) = 0.665 mW/g



0 dB = 0.660mW/g

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Date: 09/05/2011

BODY_Back side_CH810**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.541$ mho/m; $\epsilon_r = 52.556$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.603 mW/g

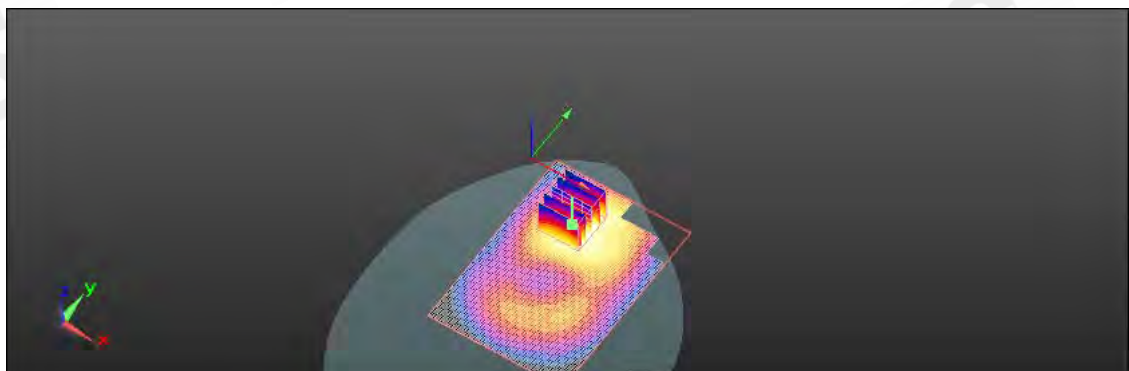
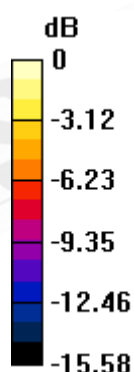
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.497 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.881 W/kg

SAR(1 g) = 0.553 mW/g; SAR(10 g) = 0.340 mW/g

Maximum value of SAR (measured) = 0.590 mW/g



0 dB = 0.590mW/g

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Date: 09/05/2011

BODY_Front side_CH512**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 1850.2 MHz

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.477$ mho/m; $\epsilon_r = 52.904$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.767 mW/g

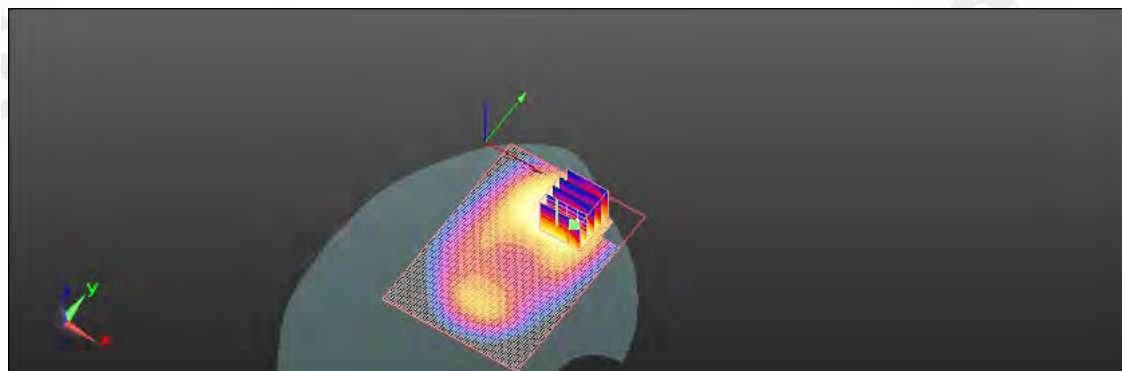
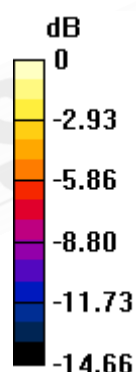
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.067 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.107 W/kg

SAR(1 g) = 0.694 mW/g; SAR(10 g) = 0.432 mW/g

Maximum value of SAR (measured) = 0.733 mW/g



0 dB = 0.730mW/g

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Date: 09/05/2011

BODY_Front side_CH661

DUT: PH06130

Communication System: GPRS(Class 10); Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ mho/m; $\epsilon_r = 52.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.631 mW/g

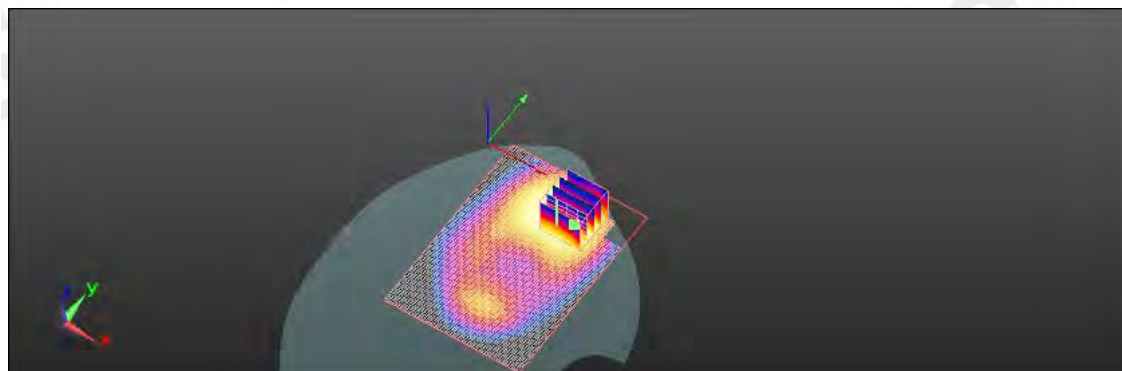
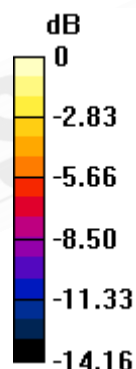
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.662 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.927 W/kg

SAR(1 g) = 0.580 mW/g; SAR(10 g) = 0.361 mW/g

Maximum value of SAR (measured) = 0.620 mW/g



0 dB = 0.620mW/g

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Date: 09/05/2011

BODY_Front side CH810

DUT: PH06130

Communication System: GPRS(Class 10); Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.541$ mho/m; $\epsilon_r = 52.556$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

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

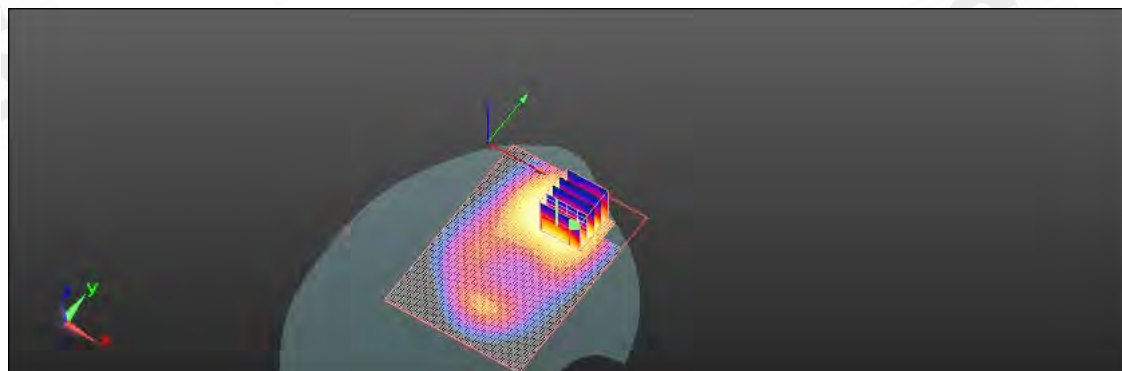
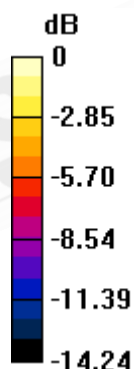
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.029 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.824 W/kg

SAR(1 g) = 0.506 mW/g; SAR(10 g) = 0.313 mW/g

Maximum value of SAR (measured) = 0.542 mW/g



0 dB = 0.540mW/g

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Date: 09/05/2011

BODY_Left side_CH512**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 1850.2 MHz

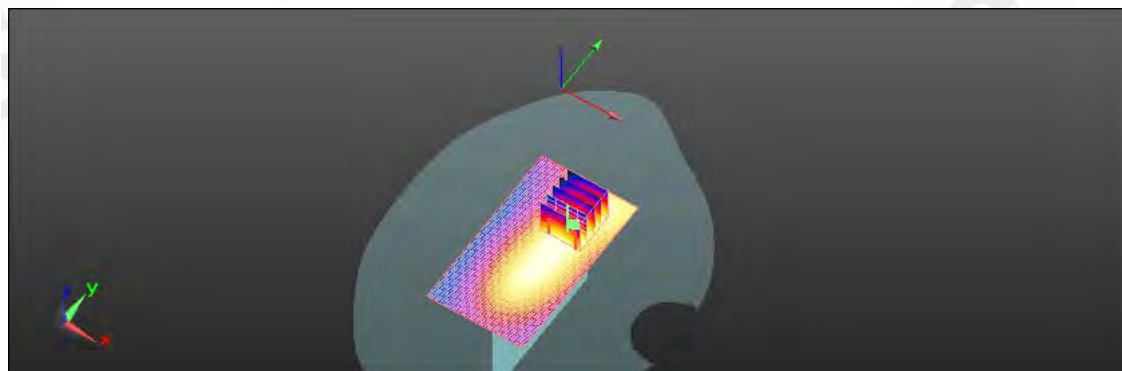
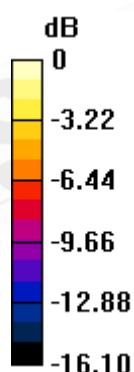
Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.477 \text{ mho/m}$; $\epsilon_r = 52.904$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.183 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 10.884 V/m ; Power Drift = -0.17 dB Peak SAR (extrapolated) = 0.253 W/kg **SAR(1 g) = 0.162 mW/g ; SAR(10 g) = 0.099 mW/g** Maximum value of SAR (measured) = 0.177 mW/g 0 dB = 0.180mW/g

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Date: 09/05/2011

BODY_Left side_CH661**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 1880 MHz

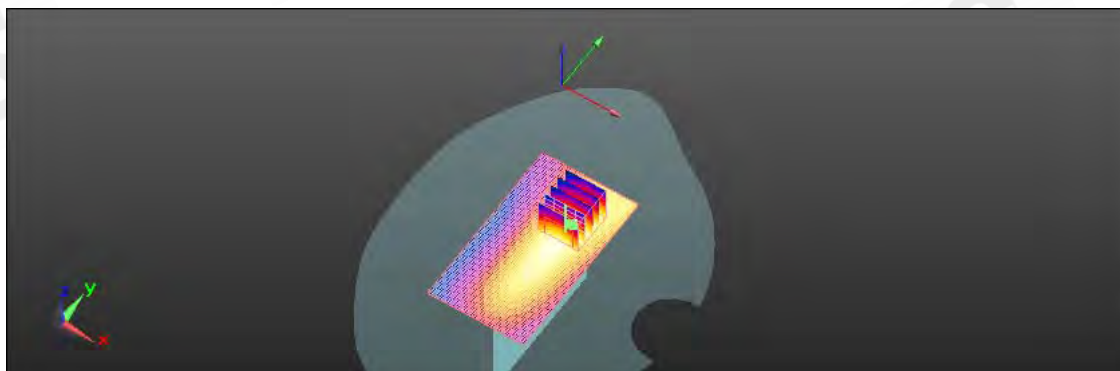
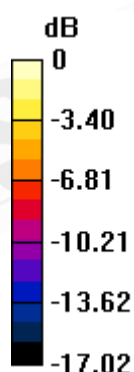
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.503 \text{ mho/m}$; $\epsilon_r = 52.734$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.159 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.129 V/m ; Power Drift = -0.17 dB Peak SAR (extrapolated) = 0.223 W/kg **SAR(1 g) = 0.143 mW/g ; SAR(10 g) = 0.086 mW/g** Maximum value of SAR (measured) = 0.156 mW/g 0 dB = 0.160mW/g

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Date: 09/05/2011

BODY_Left side_CH810**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.541$ mho/m; $\epsilon_r = 52.556$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.146 mW/g

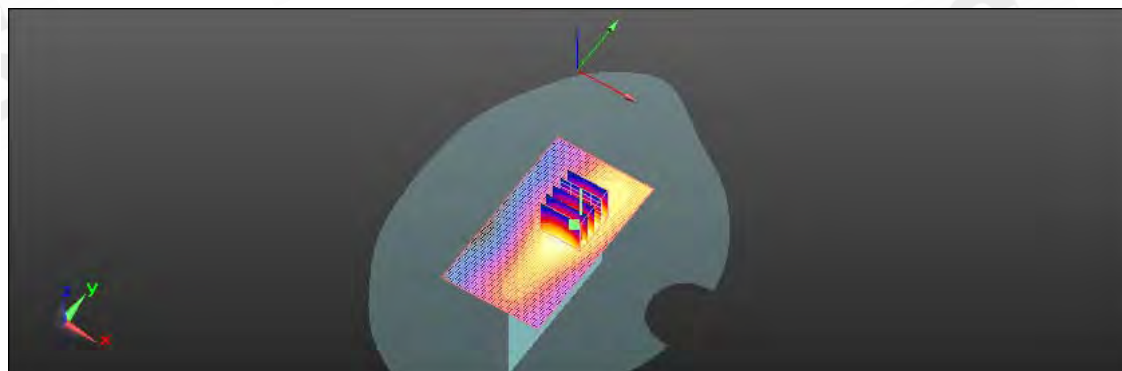
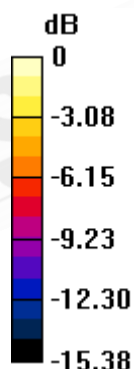
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.670 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.079 mW/g

Maximum value of SAR (measured) = 0.143 mW/g



0 dB = 0.140mW/g

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Date: 09/05/2011

BODY_Right side_CH512

DUT: PH06130

Communication System: GPRS(Class 10); Frequency: 1850.2 MHz

Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.477 \text{ mho/m}$; $\epsilon_r = 52.904$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.167 mW/g

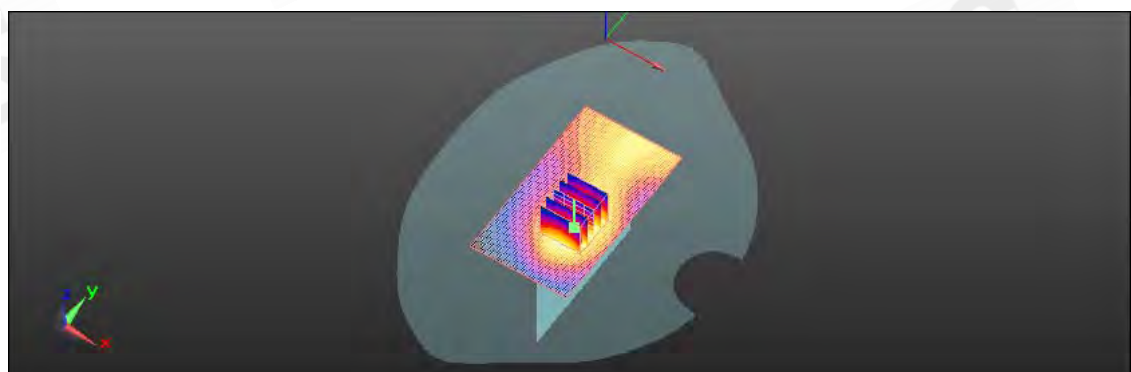
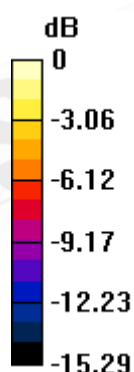
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.631 V/m ; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.145 mW/g ; SAR(10 g) = 0.090 mW/g

Maximum value of SAR (measured) = 0.156 mW/g



0 dB = 0.160mW/g

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Date: 09/05/2011

BODY_Right side_CH661

DUT: PH06130

Communication System: GPRS(Class 10); Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.503 \text{ mho/m}$; $\epsilon_r = 52.734$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.147 mW/g

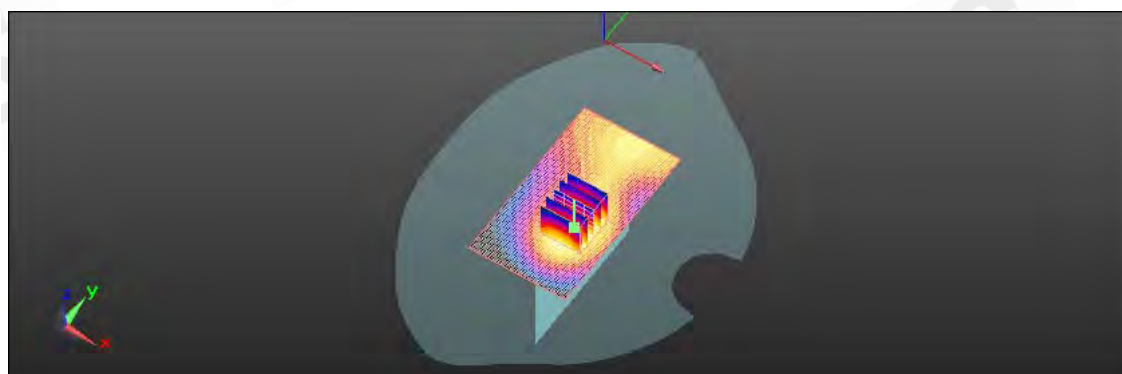
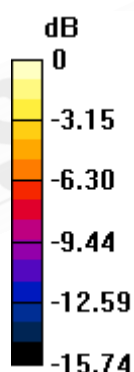
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.913 V/m ; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.195 W/kg

SAR(1 g) = 0.127 mW/g ; SAR(10 g) = 0.078 mW/g

Maximum value of SAR (measured) = 0.139 mW/g



0 dB = 0.140mW/g

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Date: 09/05/2011

BODY_Right side_CH810**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.541$ mho/m; $\epsilon_r = 52.556$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.127 mW/g

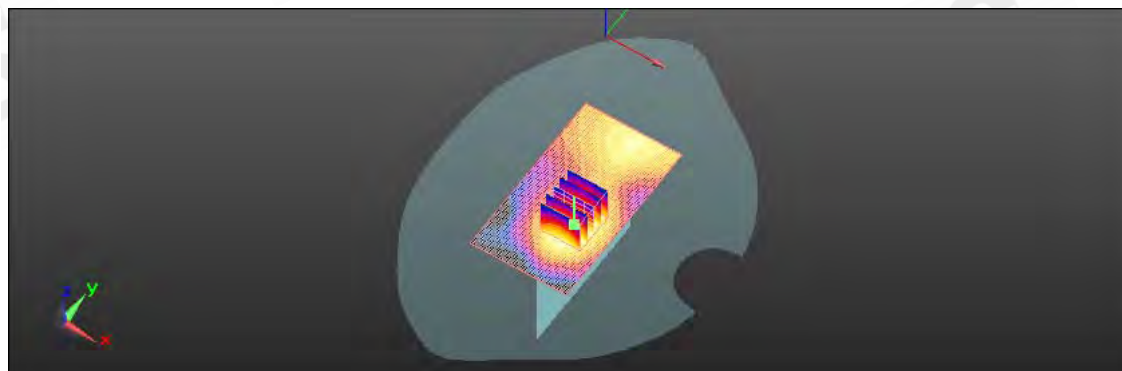
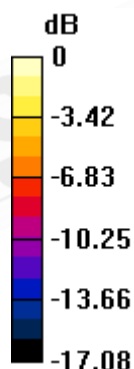
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.788 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.178 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.124 mW/g



0 dB = 0.120mW/g

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Date: 09/05/2011

BODY_Bottom side_CH512**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 1850.2 MHz

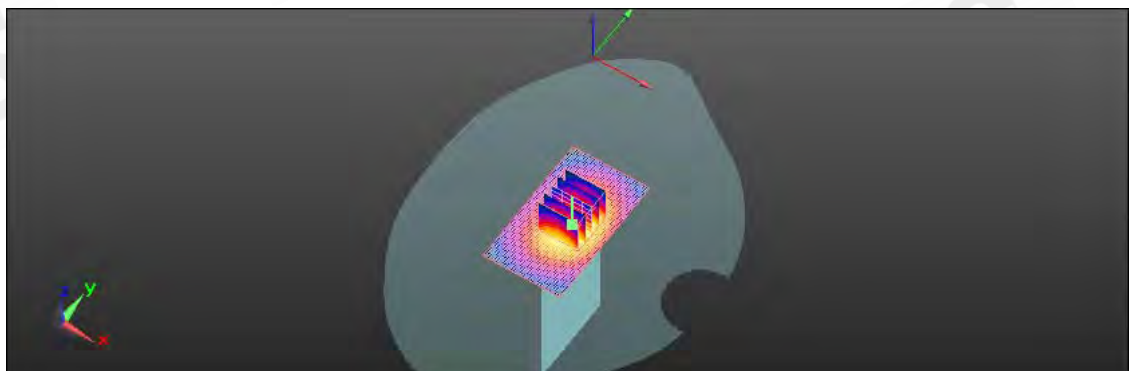
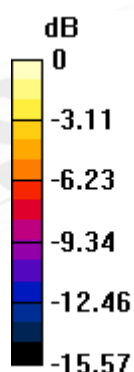
Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.477 \text{ mho/m}$; $\epsilon_r = 52.904$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.884 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 24.840 V/m ; Power Drift = -0.10 dB Peak SAR (extrapolated) = 1.285 W/kg **SAR(1 g) = 0.820 mW/g ; SAR(10 g) = 0.465 mW/g** Maximum value of SAR (measured) = 0.909 mW/g 0 dB = 0.910mW/g

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Date: 09/05/2011

BODY_Bottom side_CH661

DUT: PH06130

Communication System: GPRS(Class 10); Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ mho/m; $\epsilon_r = 52.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.889 mW/g

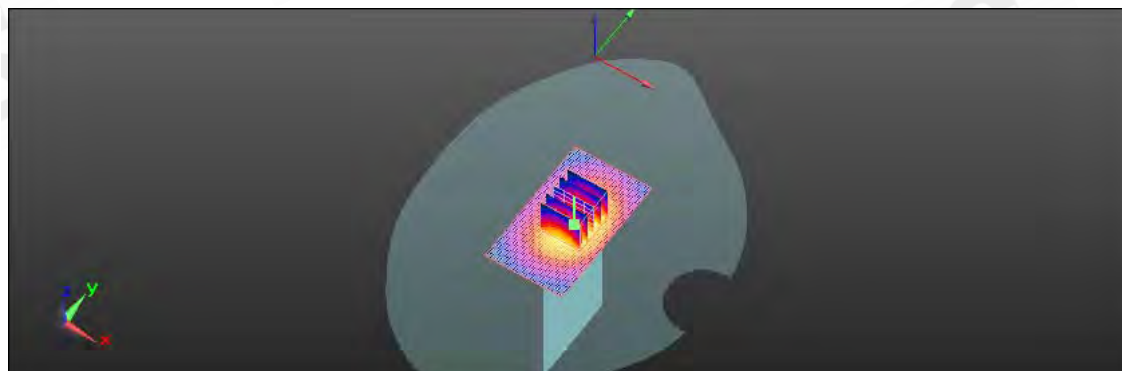
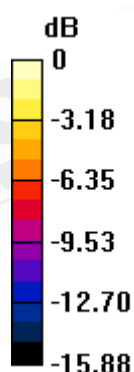
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.682 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.317 W/kg

SAR(1 g) = 0.822 mW/g; SAR(10 g) = 0.461 mW/g

Maximum value of SAR (measured) = 0.916 mW/g



0 dB = 0.920mW/g

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Date: 09/05/2011

BODY_Bottom side_CH810**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.541$ mho/m; $\epsilon_r = 52.556$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.838 mW/g

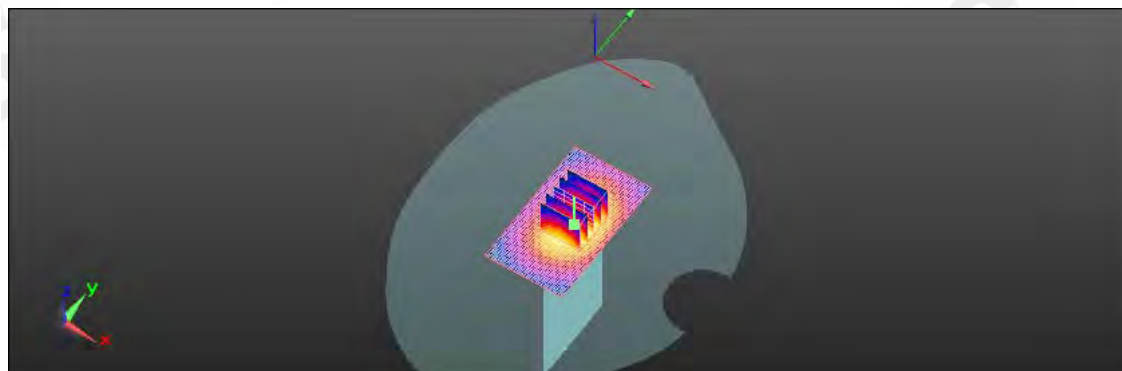
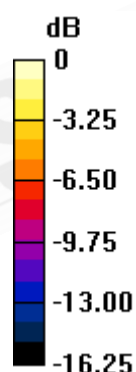
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.701 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.262 W/kg

SAR(1 g) = 0.773 mW/g; SAR(10 g) = 0.430 mW/g

Maximum value of SAR (measured) = 0.863 mW/g



0 dB = 0.860mW/g

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Date: 09/05/2011

BODY_Bottom side_CH661_repeated with EDGE mode**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 1880 MHz

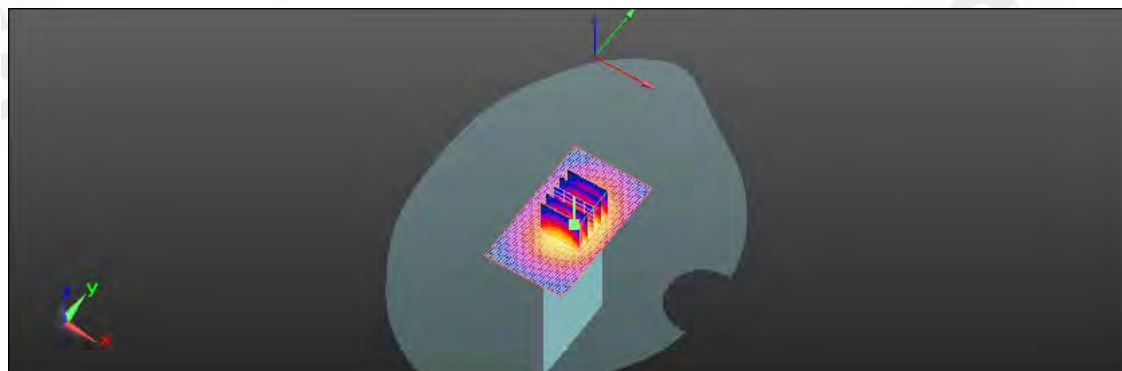
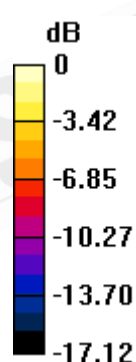
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.503 \text{ mho/m}$; $\epsilon_r = 52.734$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.472 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 15.467 V/m ; Power Drift = -0.19 dB Peak SAR (extrapolated) = 0.517 W/kg **SAR(1 g) = 0.237 mW/g ; SAR(10 g) = 0.076 mW/g** Maximum value of SAR (measured) = 0.096 mW/g 0 dB = 0.100mW/g

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Date: 09/05/2011

RE Cheek_CH9262

DUT: PH06130

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.382$ mho/m; $\epsilon_r = 39.963$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Cheek/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.703 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

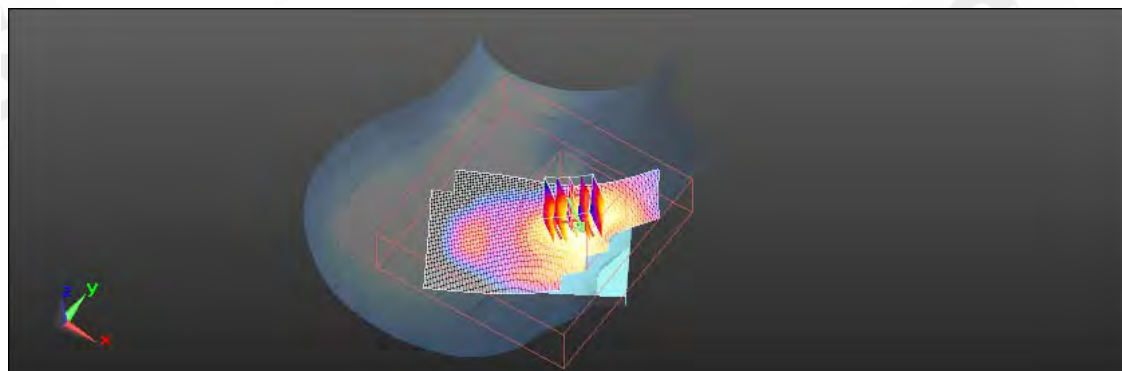
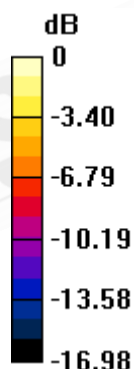
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.026 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.817 W/kg

SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.405 mW/g

Maximum value of SAR (measured) = 0.645 mW/g



0 dB = 0.640mW/g

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Date: 09/05/2011

RE Cheek_CH9400

DUT: PH06130

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 39.611$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Cheek/Area Scan (61x101x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.802 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

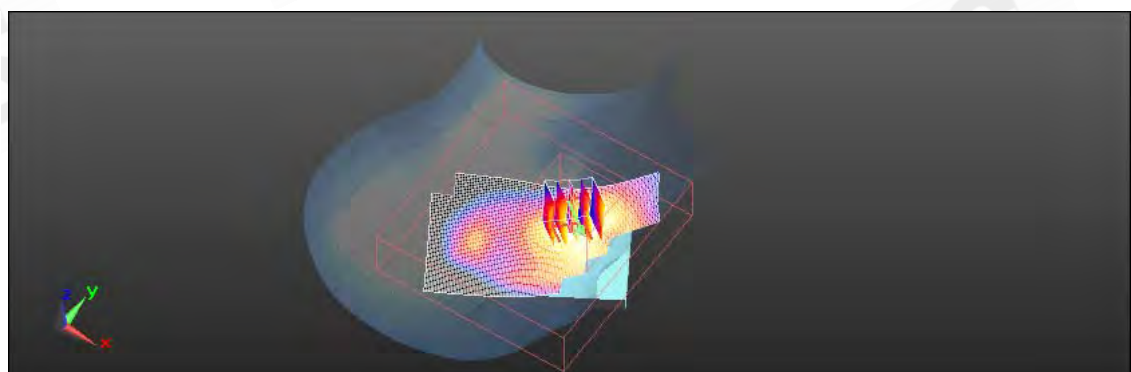
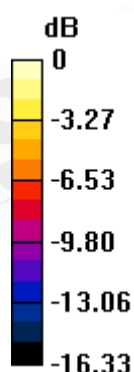
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.181 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.941 W/kg

SAR(1 g) = 0.717 mW/g; SAR(10 g) = 0.471 mW/g

Maximum value of SAR (measured) = 0.746 mW/g



0 dB = 0.750mW/g

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Date: 09/05/2011

RE Cheek_CH9538

DUT: PH06130

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.432$ mho/m; $\epsilon_r = 40.039$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Cheek/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.723 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

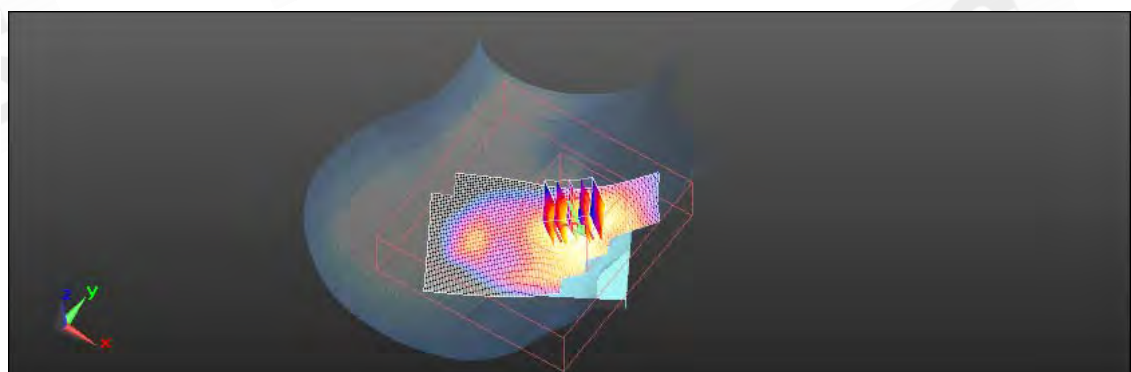
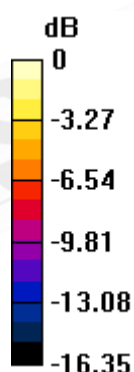
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.860 V/m; Power Drift = 0.0027 dB

Peak SAR (extrapolated) = 0.862 W/kg

SAR(1 g) = 0.651 mW/g; SAR(10 g) = 0.425 mW/g

Maximum value of SAR (measured) = 0.675 mW/g



0 dB = 0.680mW/g

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Date: 09/05/2011

LE Cheek_CH9262**DUT: PH06130**

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.382$ mho/m; $\epsilon_r = 39.963$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.901 mW/g

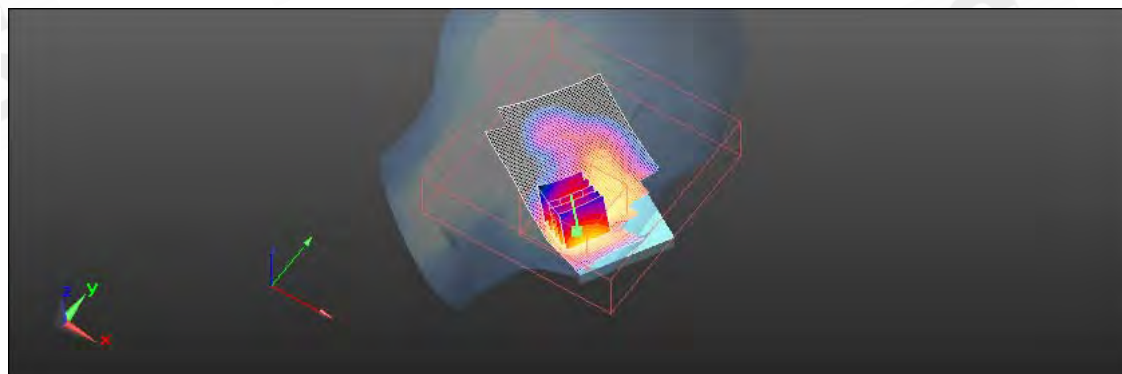
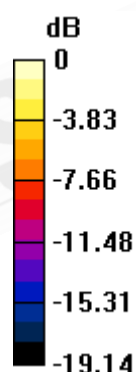
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.554 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.232 W/kg

SAR(1 g) = 0.844 mW/g; SAR(10 g) = 0.493 mW/g

Maximum value of SAR (measured) = 0.916 mW/g



0 dB = 0.920mW/g

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Date: 09/05/2011

LE Cheek_CH9400

DUT: PH06130

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 39.611$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.028 mW/g

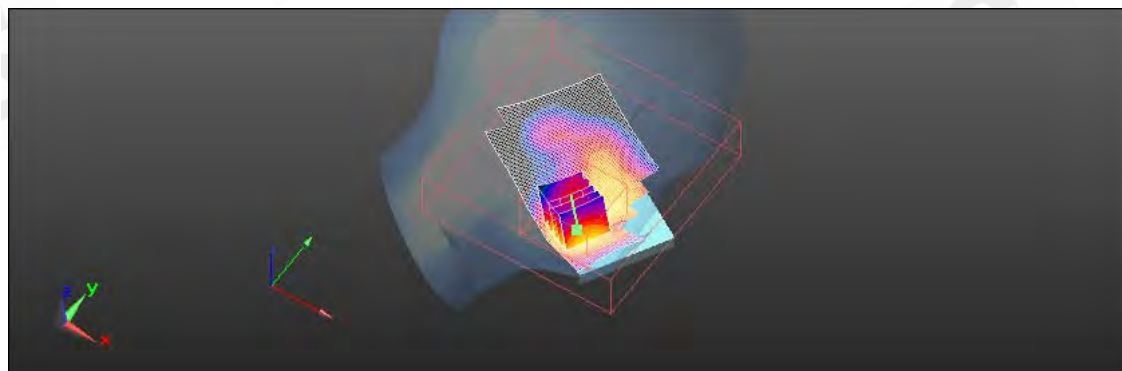
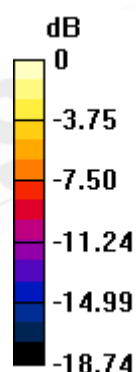
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.448 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.396 W/kg

SAR(1 g) = 0.944 mW/g; SAR(10 g) = 0.554 mW/g

Maximum value of SAR (measured) = 1.022 mW/g



0 dB = 1.020mW/g

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Date: 09/05/2011

LE Cheek_CH9538

DUT: PH06130

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.432$ mho/m; $\epsilon_r = 40.039$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.989 mW/g

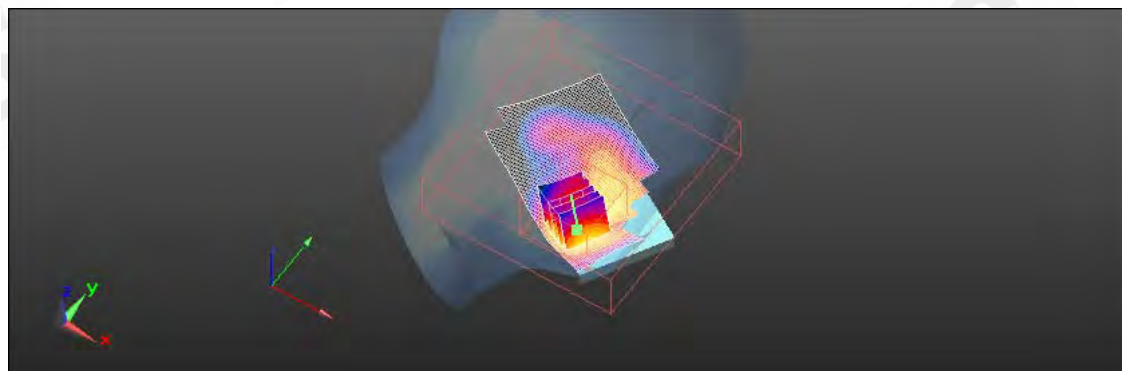
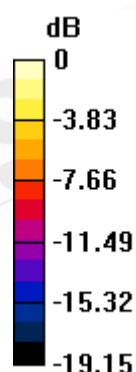
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.564 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.390 W/kg

SAR(1 g) = 0.926 mW/g; SAR(10 g) = 0.540 mW/g

Maximum value of SAR (measured) = 1.004 mW/g



0 dB = 1.000mW/g

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Date: 09/05/2011

LE Cheek_CH9400_repeated with Memory card

DUT: PH06130

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 39.611$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.026 mW/g

Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

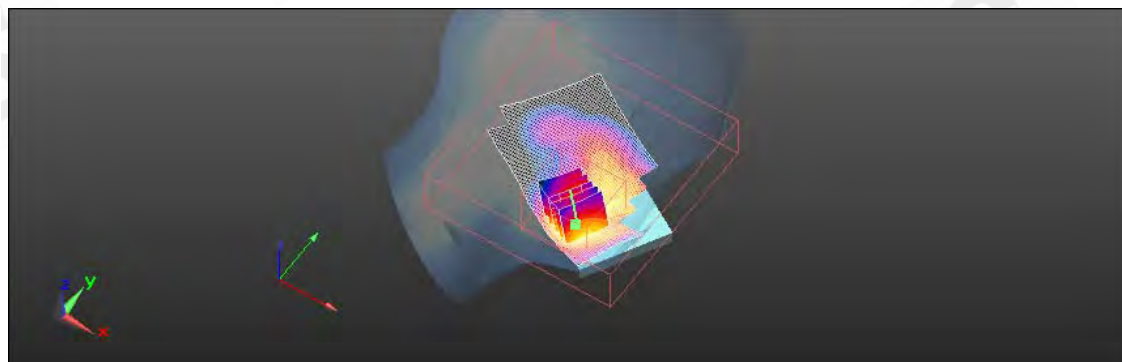
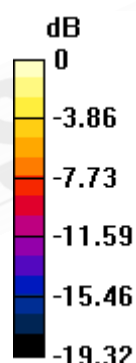
dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.670 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.478 W/kg

SAR(1 g) = 0.982 mW/g; SAR(10 g) = 0.571 mW/g

Maximum value of SAR (measured) = 1.068 mW/g



0 dB = 1.070mW/g

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Date: 09/05/2011

LE Cheek_CH9400_repeated with TWS Battery**DUT: PH06130**

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 39.611$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.150 mW/g

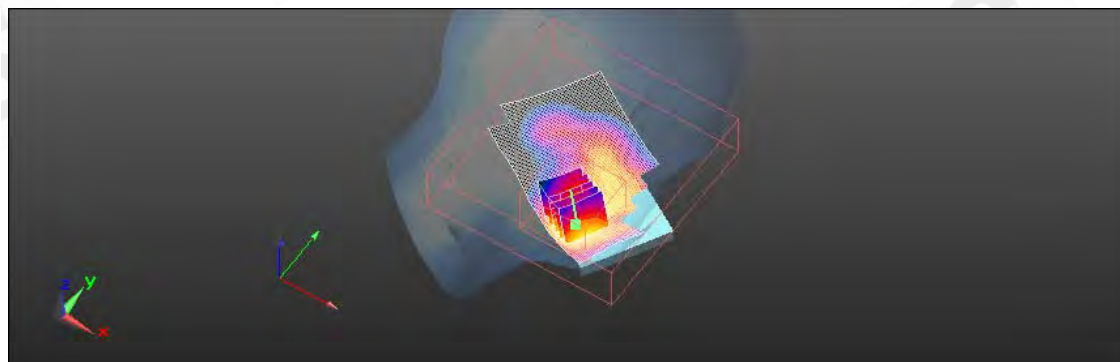
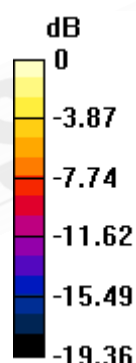
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.567 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.550 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.602 mW/g

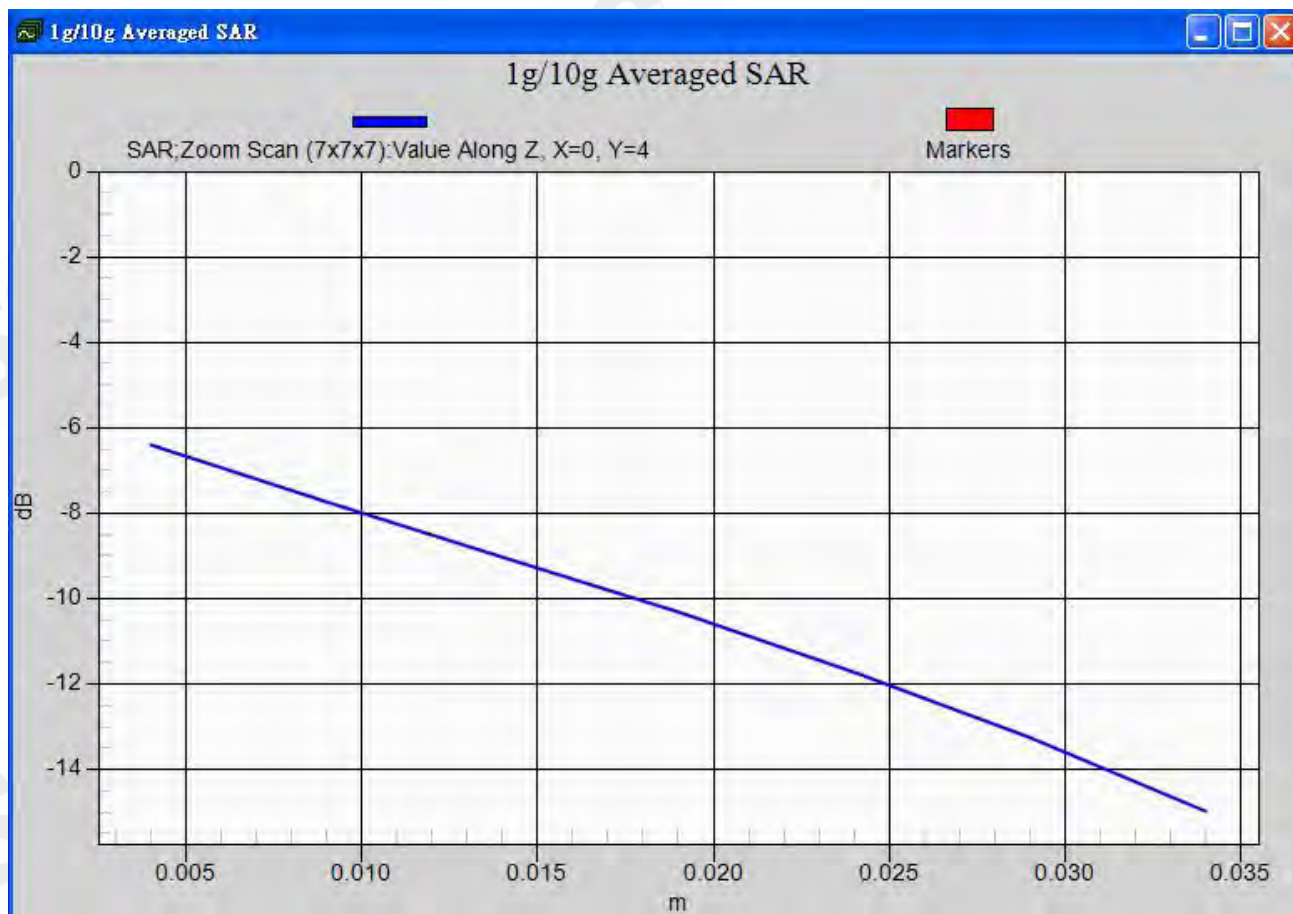
Maximum value of SAR (measured) = 1.134 mW/g



0 dB = 1.130mW/g

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Date: 09/05/2011

RE Tilt_CH9262**DUT: PH06130**

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.382$ mho/m; $\epsilon_r = 39.963$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.428 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

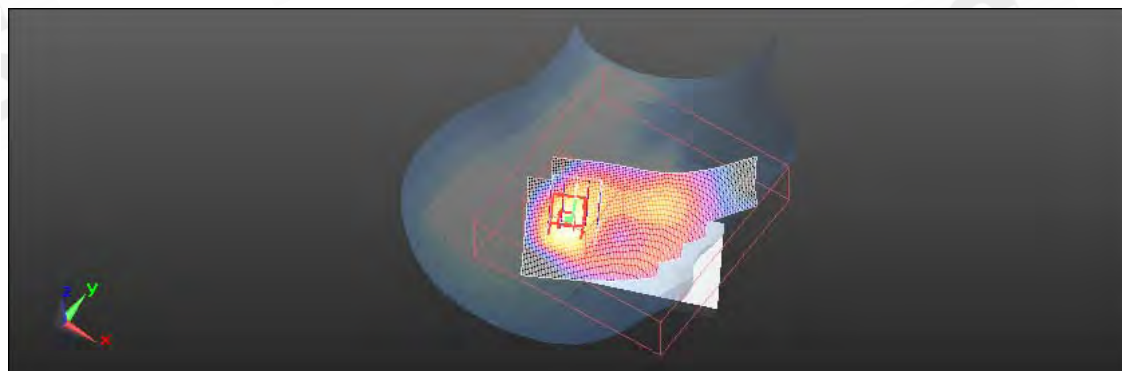
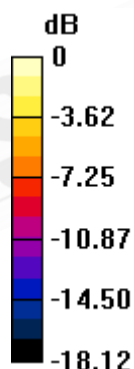
dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.409 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.619 W/kg

SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.205 mW/g

Maximum value of SAR (measured) = 0.392 mW/g



0 dB = 0.390mW/g

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Date: 09/05/2011

RE Tilt_CH9400

DUT: PH06130

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 39.611$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.433 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

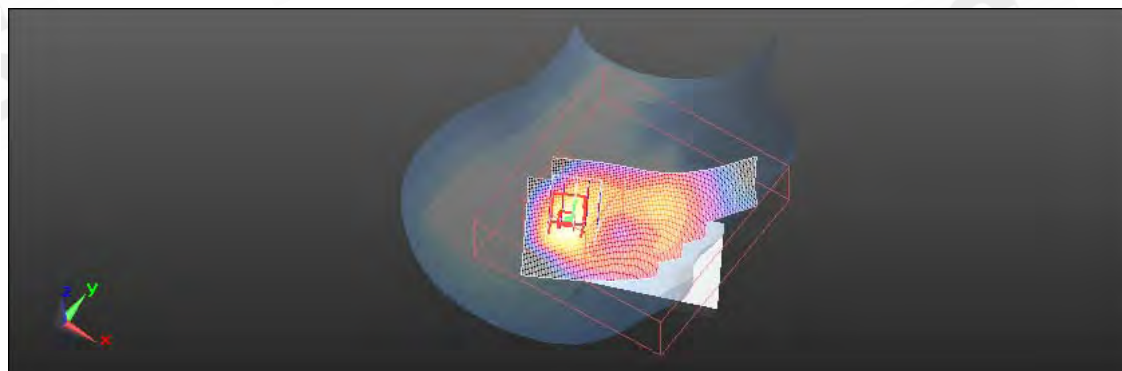
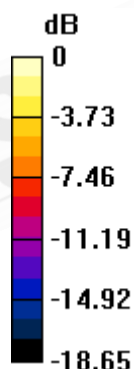
dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.390 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.640 W/kg

SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.209 mW/g

Maximum value of SAR (measured) = 0.399 mW/g



0 dB = 0.400mW/g

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Date: 09/05/2011

RE Tilt_CH9538**DUT: PH06130**

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.432$ mho/m; $\epsilon_r = 40.039$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.435 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

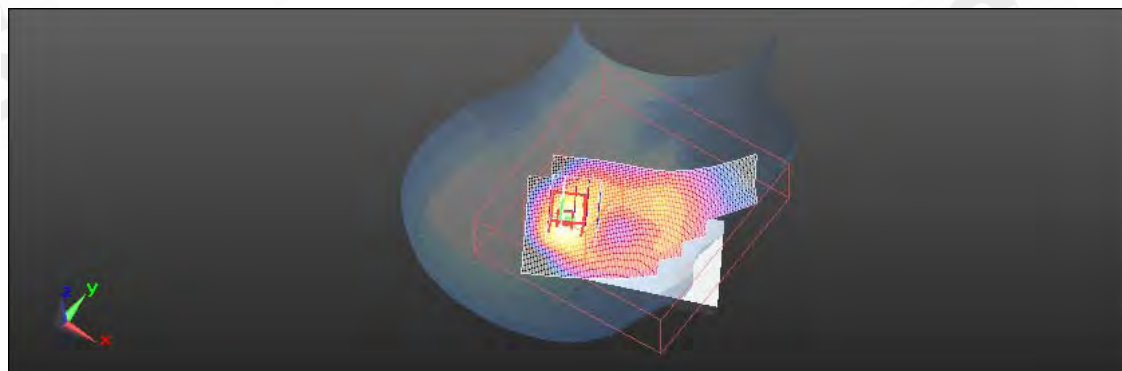
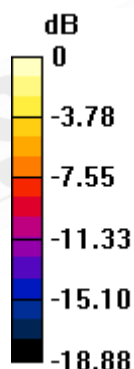
dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.146 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.647 W/kg

SAR(1 g) = 0.390 mW/g; SAR(10 g) = 0.207 mW/g

Maximum value of SAR (measured) = 0.402 mW/g



0 dB = 0.400mW/g

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Date: 09/05/2011

LE Tilt_CH9262**DUT: PH06130**

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.382$ mho/m; $\epsilon_r = 39.963$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.335 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

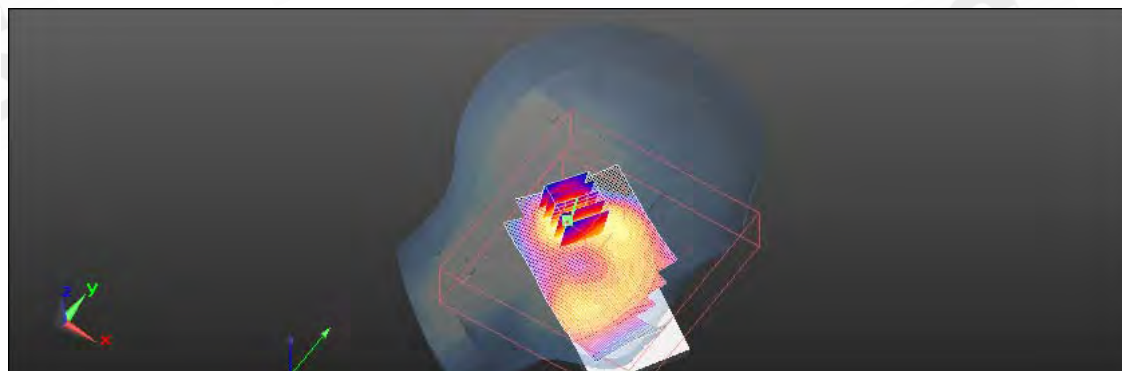
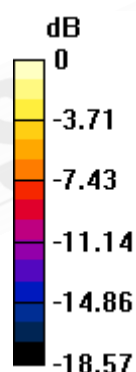
dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.298 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.483 W/kg

SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.164 mW/g

Maximum value of SAR (measured) = 0.331 mW/g



0 dB = 0.330mW/g

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Date: 09/05/2011

LE Tilt_CH9400**DUT: PH06130**

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 39.611$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.383 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

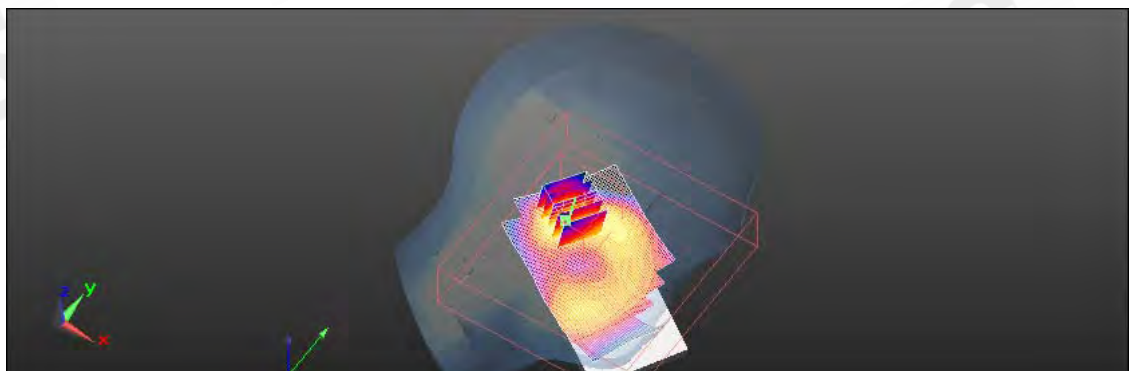
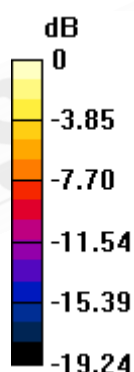
dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.042 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.562 W/kg

SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.193 mW/g

Maximum value of SAR (measured) = 0.393 mW/g



0 dB = 0.390mW/g

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Date: 09/05/2011

LE Tilt_CH9538**DUT: PH06130**

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.432$ mho/m; $\epsilon_r = 40.039$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.365 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

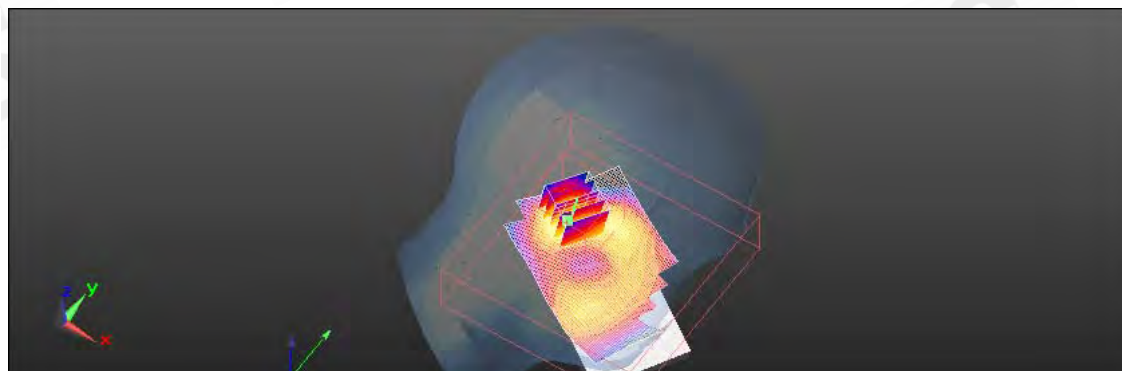
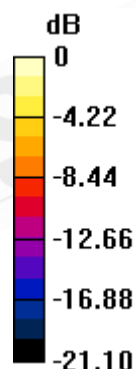
dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.473 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.530 W/kg

SAR(1 g) = 0.324 mW/g; SAR(10 g) = 0.176 mW/g

Maximum value of SAR (measured) = 0.365 mW/g



0 dB = 0.360mW/g

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Date: 09/05/2011

BODY_Back side_CH9262**DUT: PH06130**

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.479$ mho/m; $\epsilon_r = 52.885$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.653 mW/g

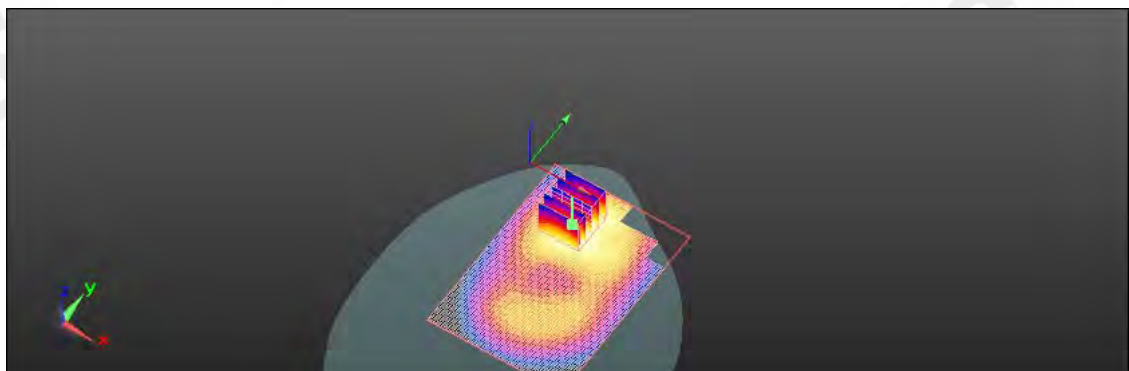
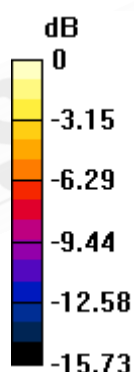
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.866 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.918 W/kg

SAR(1 g) = 0.584 mW/g; SAR(10 g) = 0.358 mW/g

Maximum value of SAR (measured) = 0.629 mW/g



0 dB = 0.630mW/g

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Date: 09/05/2011

BODY_Back side_CH9400**DUT: PH06130**

Communication System: WCDMA; Frequency: 1880 MHz

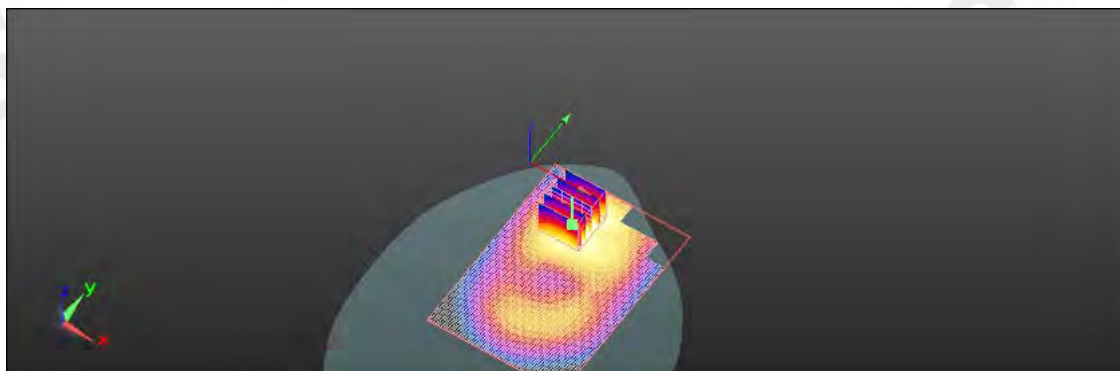
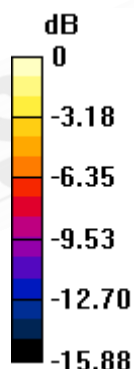
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.503 \text{ mho/m}$; $\epsilon_r = 52.734$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.699 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.818 V/m ; Power Drift = -0.01 dB Peak SAR (extrapolated) = 1.013 W/kg **SAR(1 g) = 0.642 mW/g ; SAR(10 g) = 0.393 mW/g** Maximum value of SAR (measured) = 0.685 mW/g 0 dB = 0.680mW/g

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Date: 09/05/2011

BODY_Back side_CH9538**DUT: PH06130**

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.538$ mho/m; $\epsilon_r = 52.573$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.674 mW/g

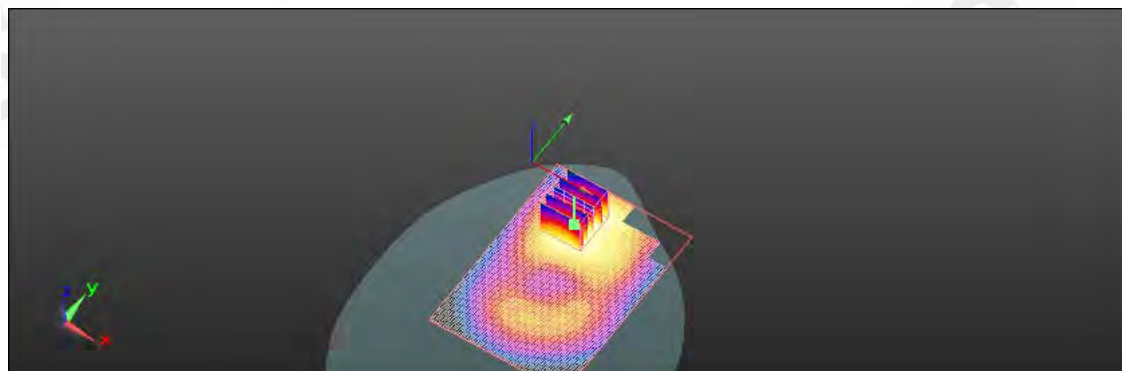
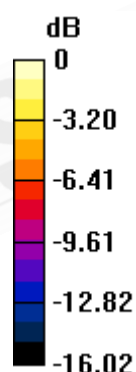
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.910 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.971 W/kg

SAR(1 g) = 0.611 mW/g; SAR(10 g) = 0.373 mW/g

Maximum value of SAR (measured) = 0.650 mW/g



0 dB = 0.650mW/g

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Date: 09/05/2011

BODY_Front side_CH9262**DUT: PH06130**

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.479$ mho/m; $\epsilon_r = 52.885$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.599 mW/g

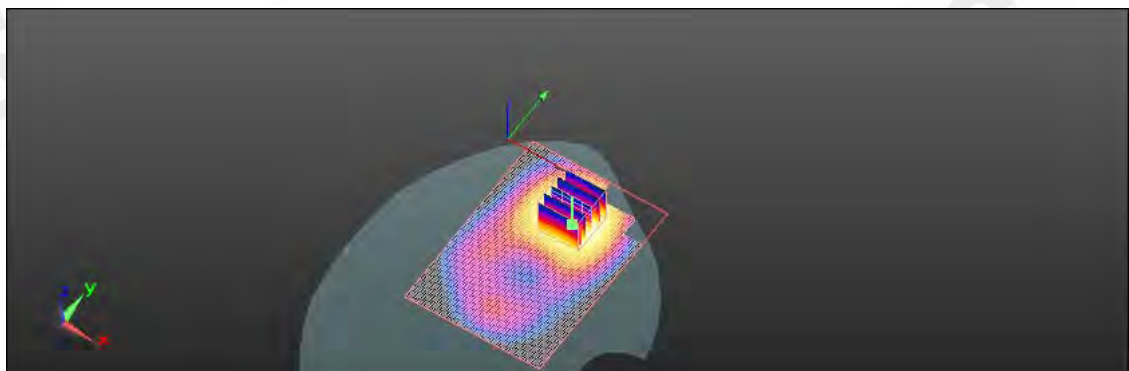
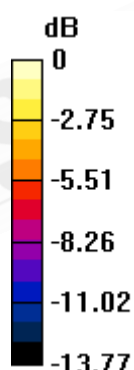
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.456 V/m; Power Drift = -0.0079 dB

Peak SAR (extrapolated) = 0.905 W/kg

SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.347 mW/g

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



0 dB = 0.620mW/g

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Date: 09/05/2011

BODY_Front side_CH9400**DUT: PH06130**

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ mho/m; $\epsilon_r = 52.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.685 mW/g

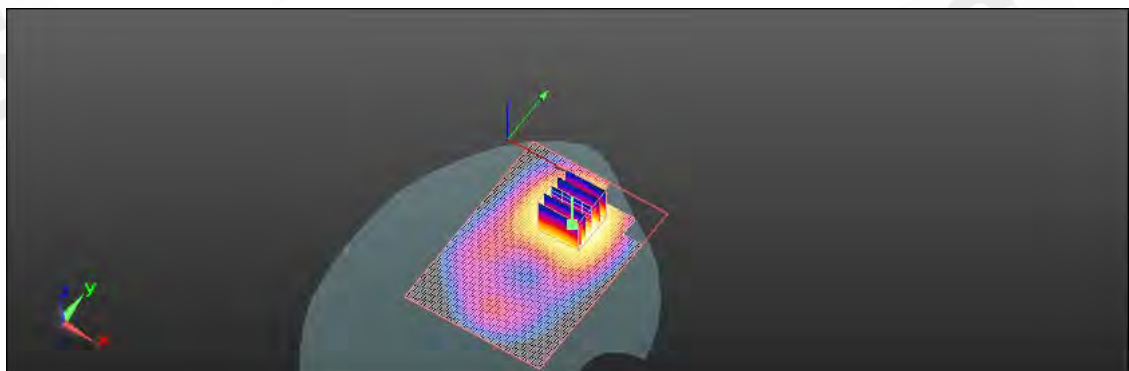
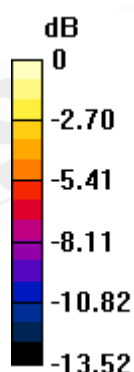
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.849 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.041 W/kg

SAR(1 g) = 0.638 mW/g; SAR(10 g) = 0.395 mW/g

Maximum value of SAR (measured) = 0.699 mW/g



0 dB = 0.700mW/g

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Date: 09/05/2011

BODY_Front side_CH9538

DUT: PH06130

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.538$ mho/m; $\epsilon_r = 52.573$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.660 mW/g

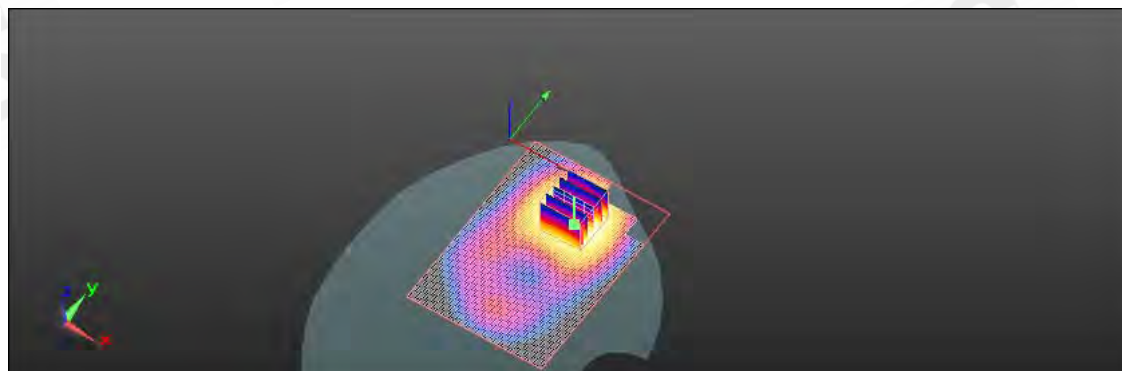
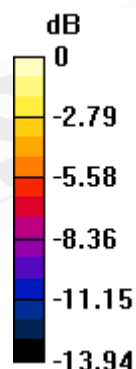
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.538 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.957 W/kg

SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.370 mW/g

Maximum value of SAR (measured) = 0.637 mW/g



0 dB = 0.640mW/g

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Date: 09/05/2011

BODY_Left side_CH9262**DUT: PH06130**

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.479$ mho/m; $\epsilon_r = 52.885$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.189 mW/g

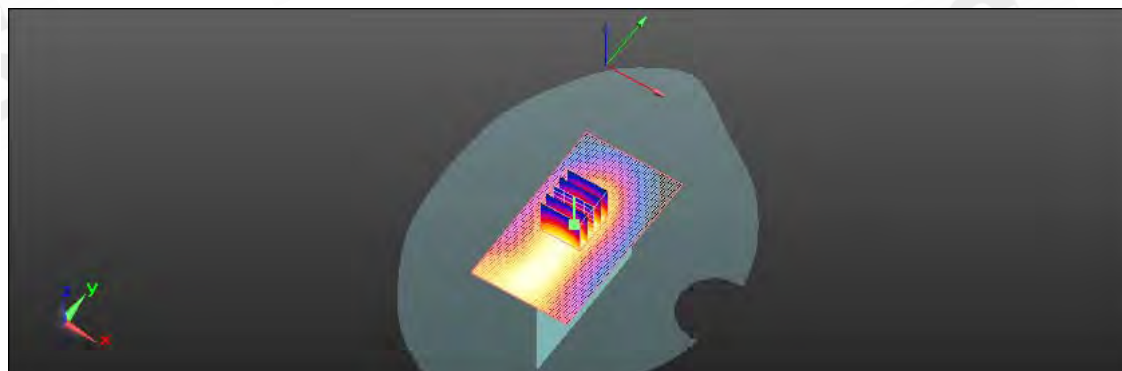
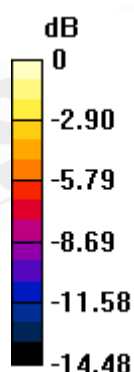
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.182 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 0.258 W/kg

SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.102 mW/g

Maximum value of SAR (measured) = 0.182 mW/g



0 dB = 0.180mW/g

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Date: 09/05/2011

BODY_Left side_CH9400**DUT: PH06130**

Communication System: WCDMA; Frequency: 1880 MHz

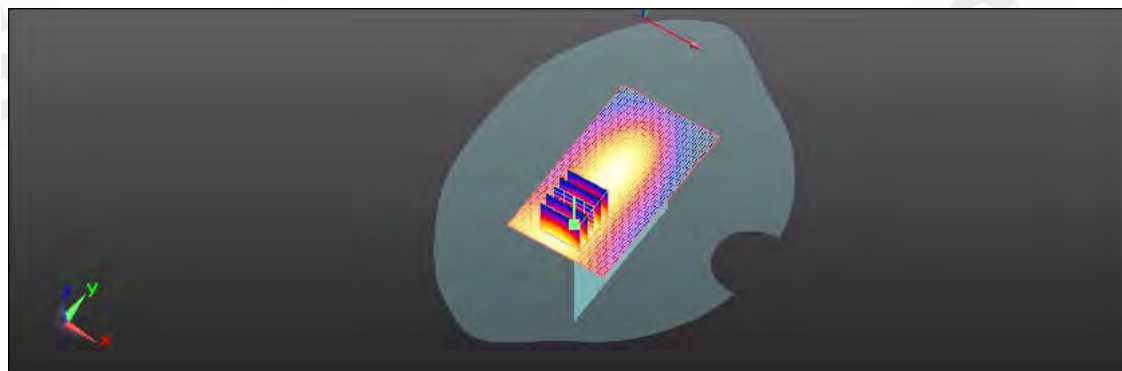
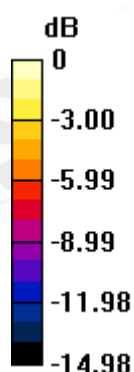
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.503 \text{ mho/m}$; $\epsilon_r = 52.734$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.203 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.268 V/m ; Power Drift = 0.0049 dB Peak SAR (extrapolated) = 0.300 W/kg **SAR(1 g) = 0.186 mW/g ; SAR(10 g) = 0.111 mW/g** Maximum value of SAR (measured) = 0.203 mW/g  $0 \text{ dB} = 0.200\text{mW/g}$

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Date: 09/05/2011

BODY_Left side_CH9538**DUT: PH06130**

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.538$ mho/m; $\epsilon_r = 52.573$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.193 mW/g

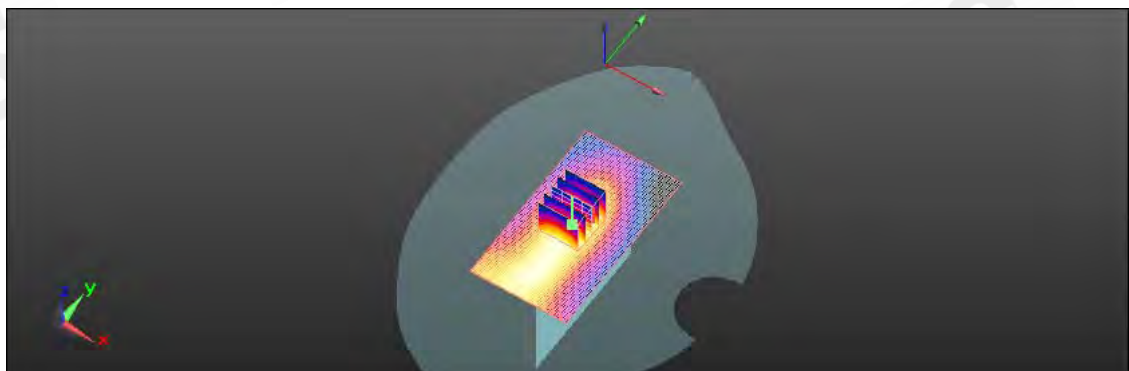
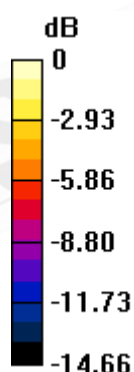
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.074 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.268 W/kg

SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.104 mW/g

Maximum value of SAR (measured) = 0.187 mW/g



0 dB = 0.190mW/g

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Date: 09/05/2011

BODY_Right side_CH9262**DUT: PH06130**

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.479$ mho/m; $\epsilon_r = 52.885$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.153 mW/g

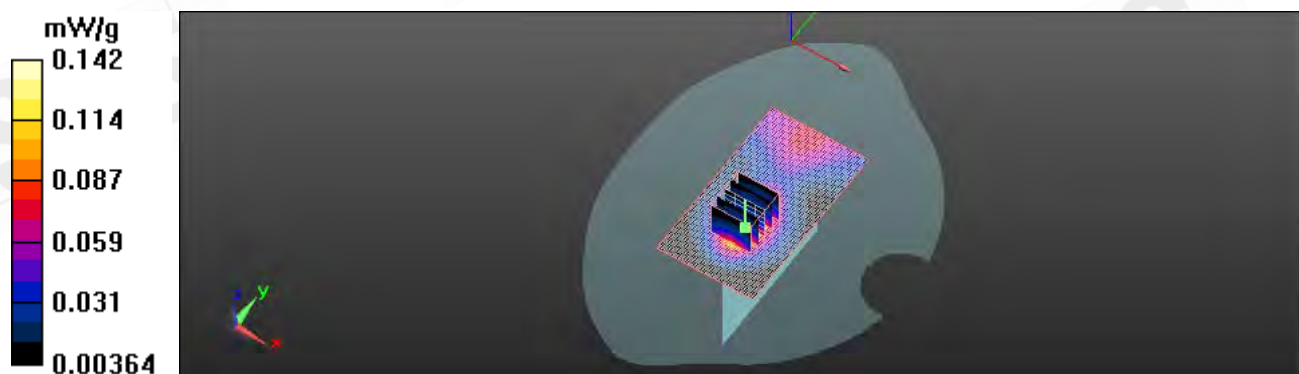
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.838 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.198 W/kg

SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.079 mW/g

Maximum value of SAR (measured) = 0.142 mW/g



0 dB = 0.140mW/g

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Date: 09/05/2011

BODY_Right side_CH9400**DUT: PH06130**

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ mho/m; $\epsilon_r = 52.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.154 mW/g

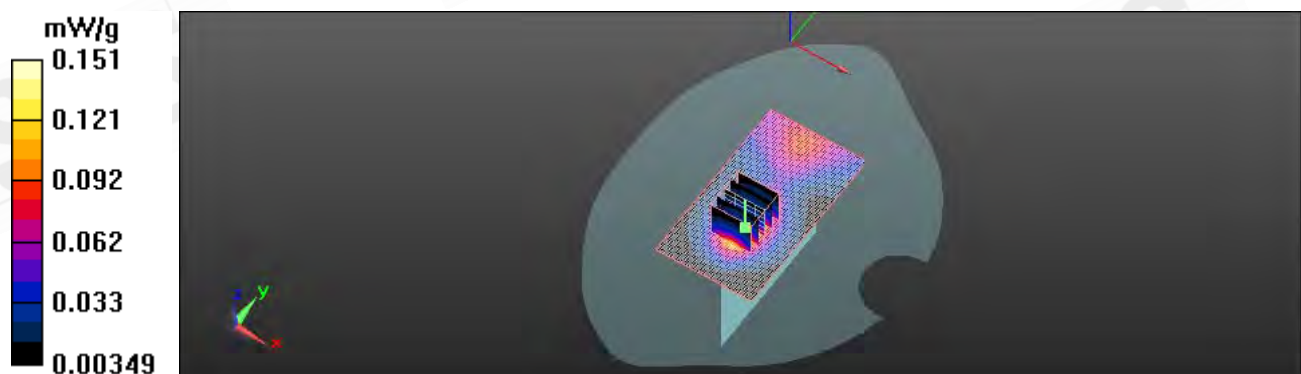
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.729 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.218 W/kg

SAR(1 g) = 0.139 mW/g; SAR(10 g) = 0.083 mW/g

Maximum value of SAR (measured) = 0.151 mW/g



0 dB = 0.150mW/g

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Date: 09/05/2011

BODY_Right side_CH9538**DUT: PH06130**

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.538$ mho/m; $\epsilon_r = 52.573$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.144 mW/g

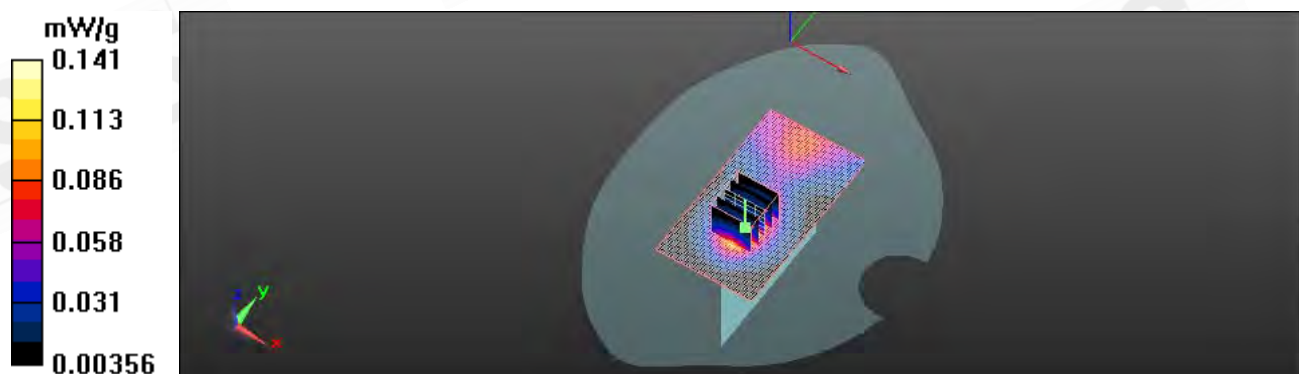
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.322 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.206 W/kg

SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.141 mW/g



0 dB = 0.140mW/g

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Date: 09/05/2011

BODY_Bottom side_CH9262**DUT: PH06130**

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.479$ mho/m; $\epsilon_r = 52.885$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.192 mW/g

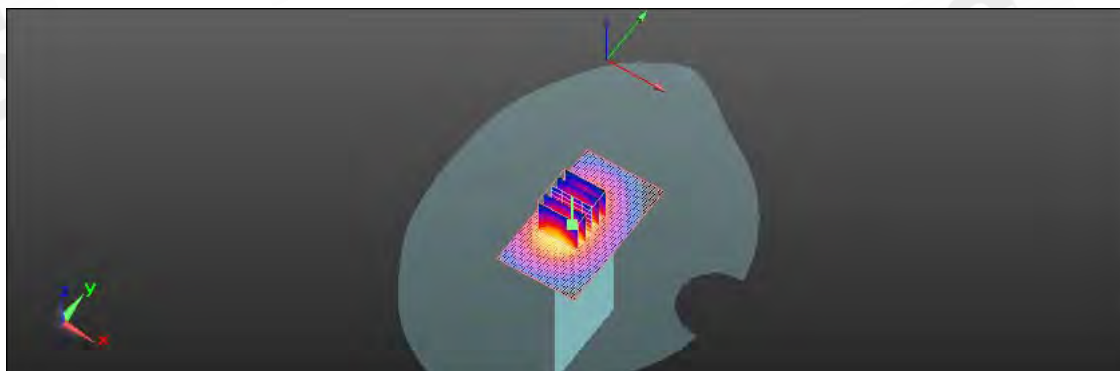
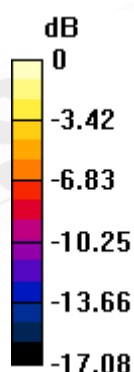
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.036 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.886 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.586 mW/g

Maximum value of SAR (measured) = 1.301 mW/g



0 dB = 1.300mW/g

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Date: 09/05/2011

BODY_Bottom side_CH9400**DUT: PH06130**

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ mho/m; $\epsilon_r = 52.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.197 mW/g

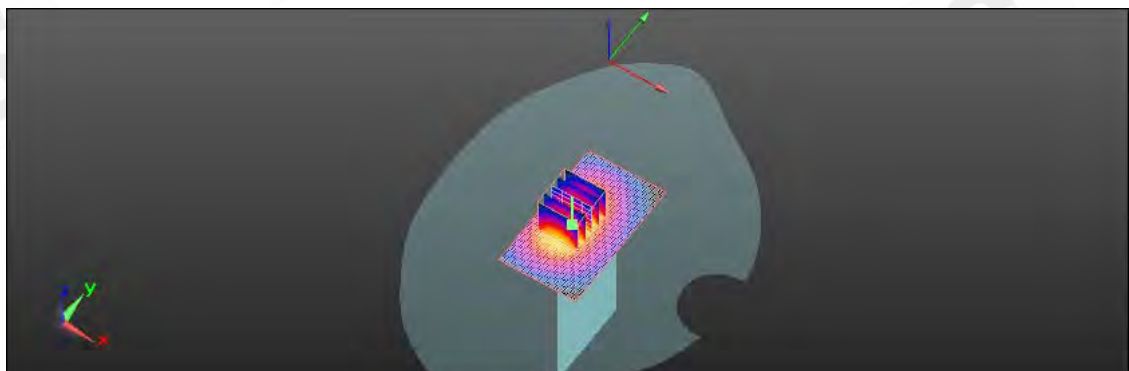
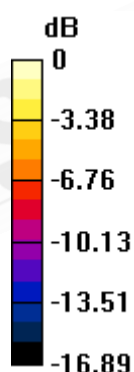
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.521 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.977 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.610 mW/g

Maximum value of SAR (measured) = 1.344 mW/g



0 dB = 1.340mW/g

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Date: 09/05/2011

BODY_Bottom side_CH9538**DUT: PH06130**

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.538$ mho/m; $\epsilon_r = 52.573$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.149 mW/g

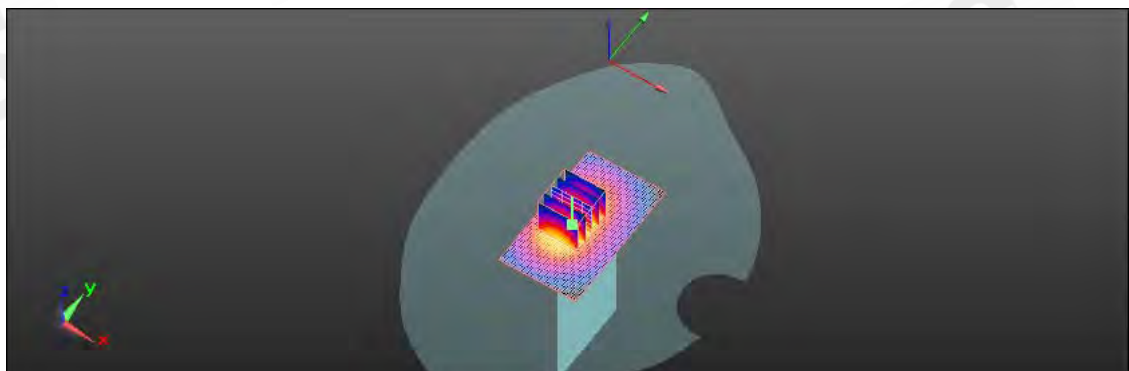
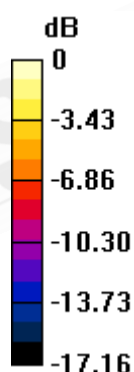
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.605 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.852 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.567 mW/g

Maximum value of SAR (measured) = 1.257 mW/g



0 dB = 1.260mW/g

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Date: 09/05/2011

BODY_Bottom side_CH9400 _repeated with Memory card

DUT: PH06130

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.503 \text{ mho/m}$; $\epsilon_r = 52.734$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.862 mW/g

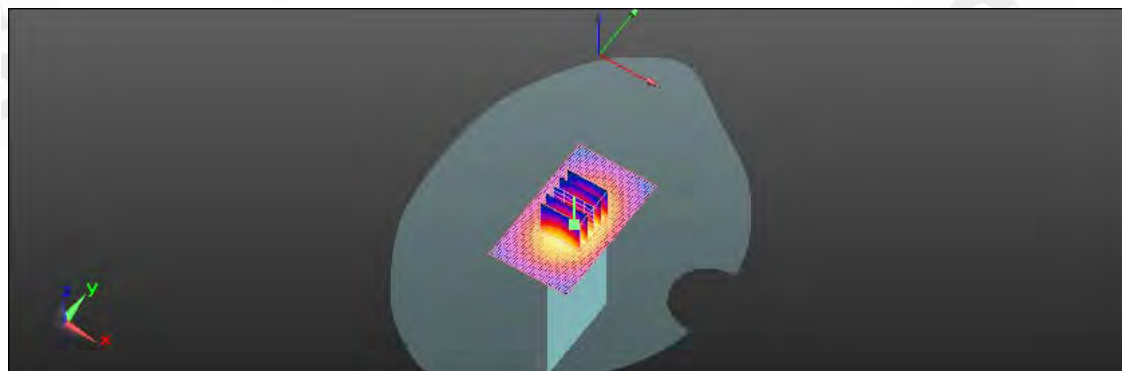
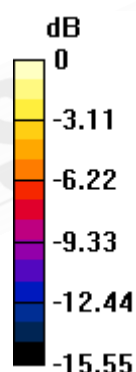
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.515 V/m ; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.219 W/kg

SAR(1 g) = 0.758 mW/g ; SAR(10 g) = 0.427 mW/g

Maximum value of SAR (measured) = 0.843 mW/g



0 dB = 0.840mW/g

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Date: 09/05/2011

BODY_Bottom side_CH9400 _repeated with Kingstate headset**DUT: PH06130**

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ mho/m; $\epsilon_r = 52.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.919 mW/g

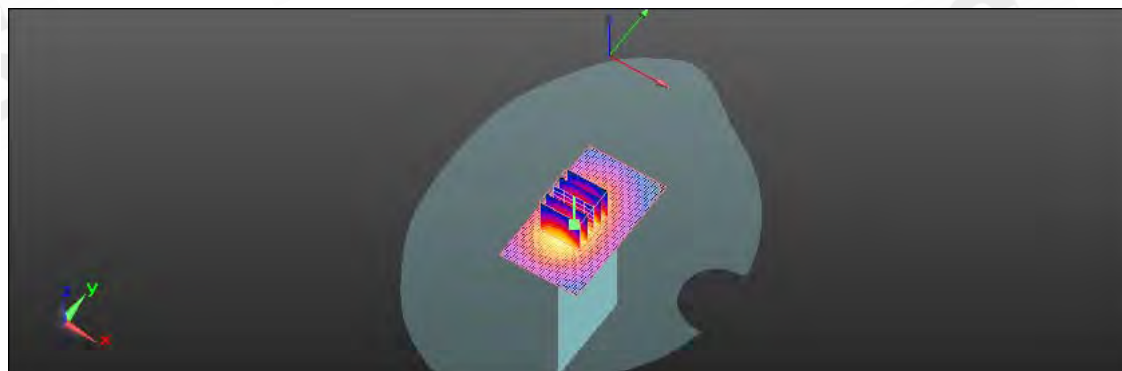
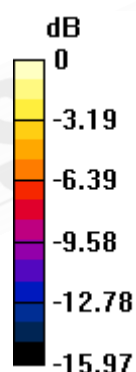
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.462 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.267 W/kg

SAR(1 g) = 0.784 mW/g; SAR(10 g) = 0.423 mW/g

Maximum value of SAR (measured) = 0.889 mW/g



0 dB = 0.890mW/g

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Date: 09/05/2011

BODY_Bottom side_CH9400 _repeated with Cotron headset

DUT: PH06130

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ mho/m; $\epsilon_r = 52.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.926 mW/g

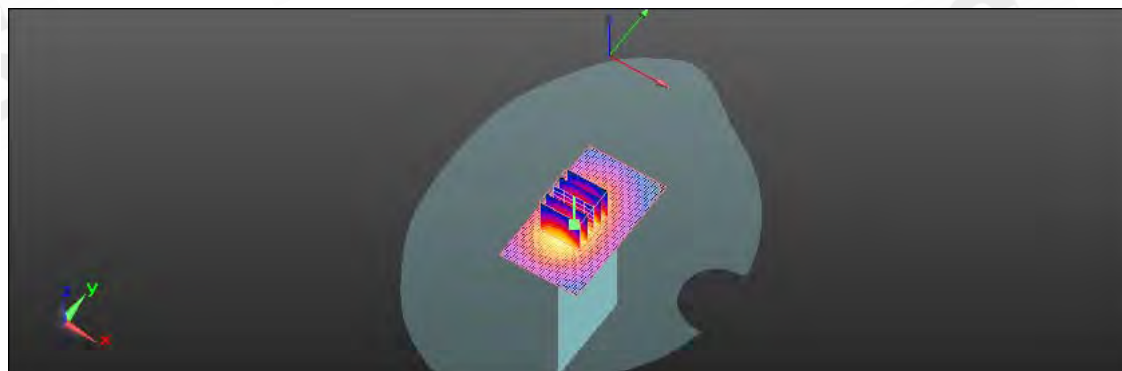
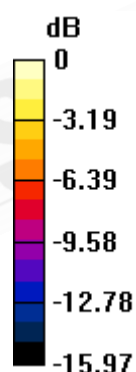
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.192 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.327 W/kg

SAR(1 g) = 0.824 mW/g; SAR(10 g) = 0.460 mW/g

Maximum value of SAR (measured) = 0.929 mW/g



0 dB = 0.930mW/g

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Date: 09/05/2011

BODY_Bottom side_CH9400 _repeated with Merry headset

DUT: PH06130

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ mho/m; $\epsilon_r = 52.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.932 mW/g

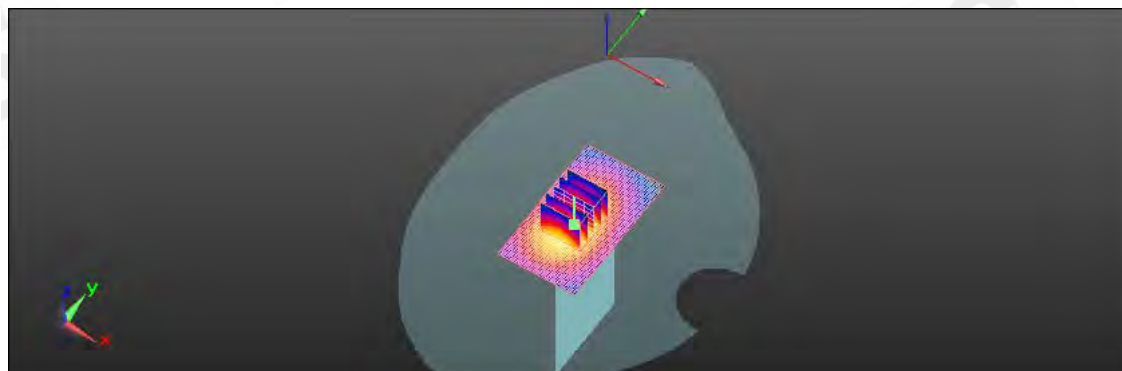
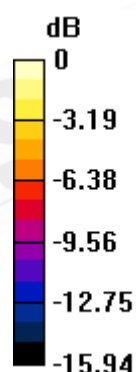
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.276 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.278 W/kg

SAR(1 g) = 0.796 mW/g; SAR(10 g) = 0.445 mW/g

Maximum value of SAR (measured) = 0.899 mW/g



0 dB = 0.900mW/g

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Date: 09/05/2011

BODY_Bottom side_CH9400 _repeated with Foster headset**DUT: PH06130**

Communication System: WCDMA; Frequency: 1880 MHz

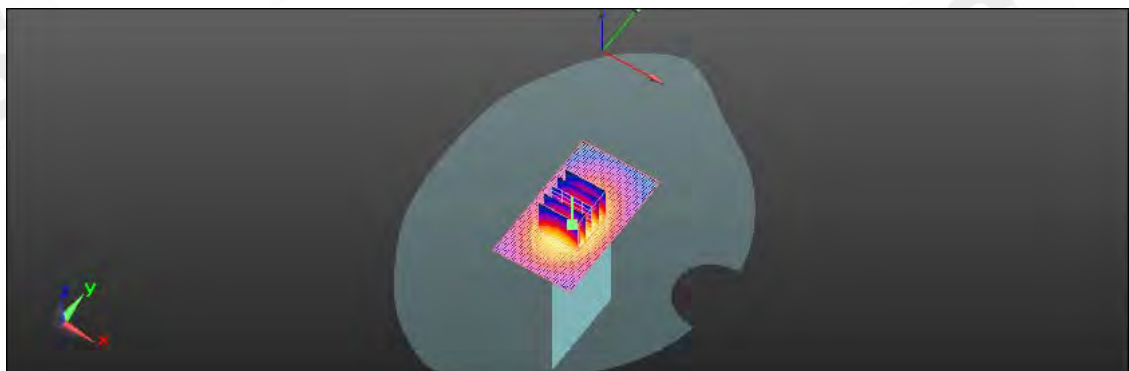
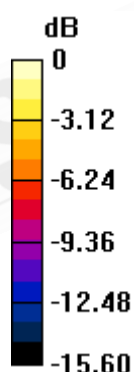
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.503 \text{ mho/m}$; $\epsilon_r = 52.734$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.796 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 22.464 V/m ; Power Drift = -0.05 dB Peak SAR (extrapolated) = 1.142 W/kg **SAR(1 g) = 0.724 mW/g ; SAR(10 g) = 0.411 mW/g** Maximum value of SAR (measured) = 0.793 mW/g 0 dB = 0.790mW/g

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Date: 09/05/2011

BODY_Bottom side_CH9400 _repeated with TWS battery**DUT: PH06130**

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ mho/m; $\epsilon_r = 52.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.829 mW/g

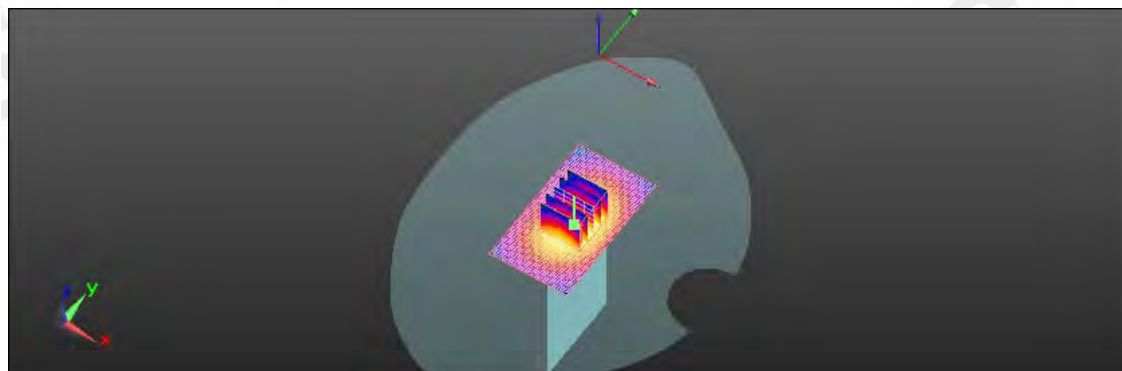
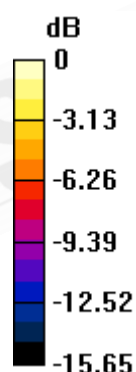
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.059 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.148 W/kg

SAR(1 g) = 0.726 mW/g; SAR(10 g) = 0.413 mW/g

Maximum value of SAR (measured) = 0.796 mW/g



0 dB = 0.800mW/g

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Date: 08/05/2011

RE Cheek_CH4132**DUT: PH06130**

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used: $f = 826.4 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42.98$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Cheek/Area Scan (61x101x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.294 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

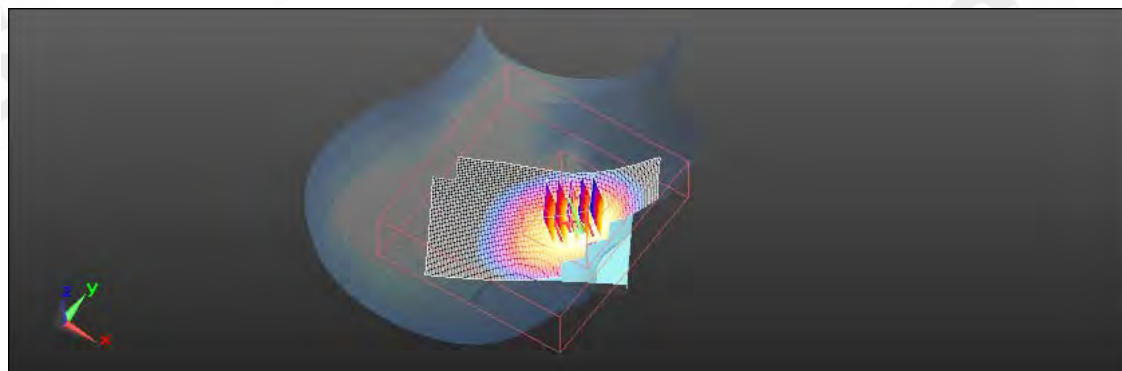
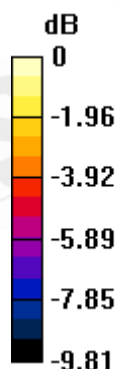
dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.060 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.345 W/kg

SAR(1 g) = 0.280 mW/g; SAR(10 g) = 0.212 mW/g

Maximum value of SAR (measured) = 0.290 mW/g



0 dB = 0.290mW/g

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Date: 08/05/2011

RE Cheek_CH4183

DUT: PH06130

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.882$ mho/m; $\epsilon_r = 42.447$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Cheek/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.223 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

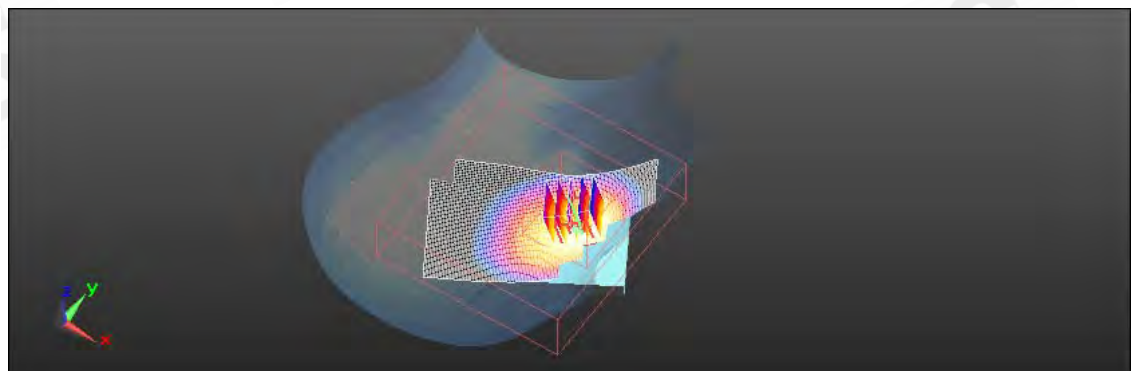
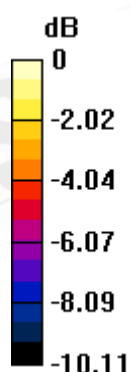
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.270 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.260 W/kg

SAR(1 g) = 0.210 mW/g; SAR(10 g) = 0.160 mW/g

Maximum value of SAR (measured) = 0.218 mW/g



0 dB = 0.220mW/g

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Date: 08/05/2011

RE Cheek_CH4233**DUT: PH06130**

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: $f = 847$ MHz; $\sigma = 0.898$ mho/m; $\epsilon_r = 41.787$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Cheek/Area Scan (61x101x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.319 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

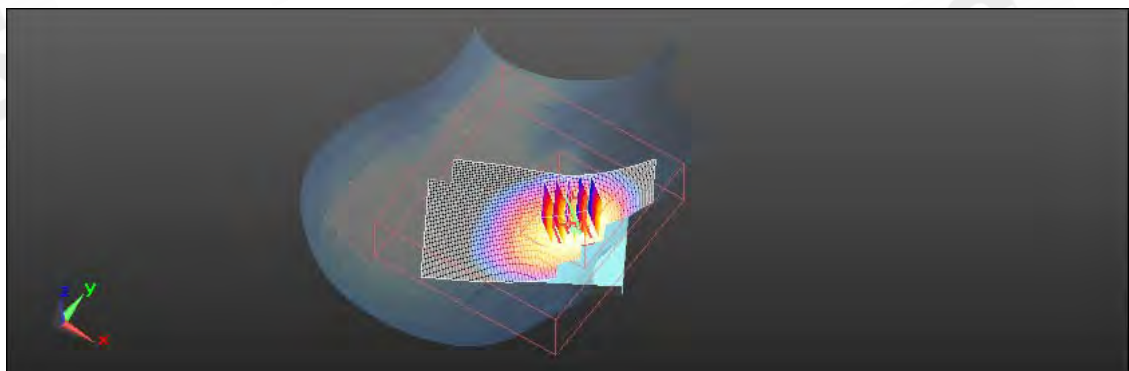
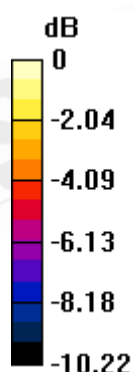
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.932 V/m; Power Drift = -0.0034 dB

Peak SAR (extrapolated) = 0.368 W/kg

SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.224 mW/g

Maximum value of SAR (measured) = 0.310 mW/g



0 dB = 0.310mW/g

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Date: 08/05/2011

LE Cheek_CH4132**DUT: PH06130**

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used: $f = 826.4 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42.98$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.335 mW/g

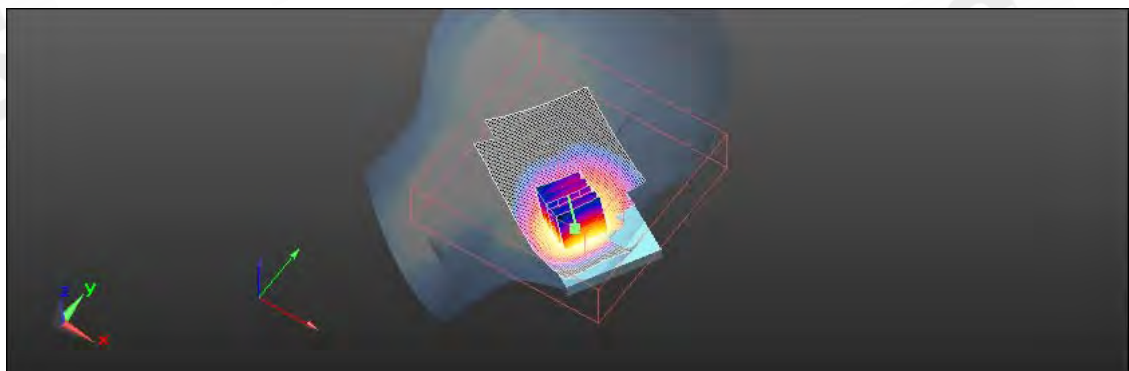
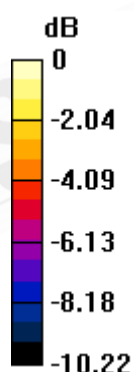
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.576 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.433 W/kg

SAR(1 g) = 0.315 mW/g; SAR(10 g) = 0.226 mW/g

Maximum value of SAR (measured) = 0.331 mW/g



0 dB = 0.330mW/g

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Date: 08/05/2011

LE Cheek_CH4183**DUT: PH06130**

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.882$ mho/m; $\epsilon_r = 42.447$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.246 mW/g

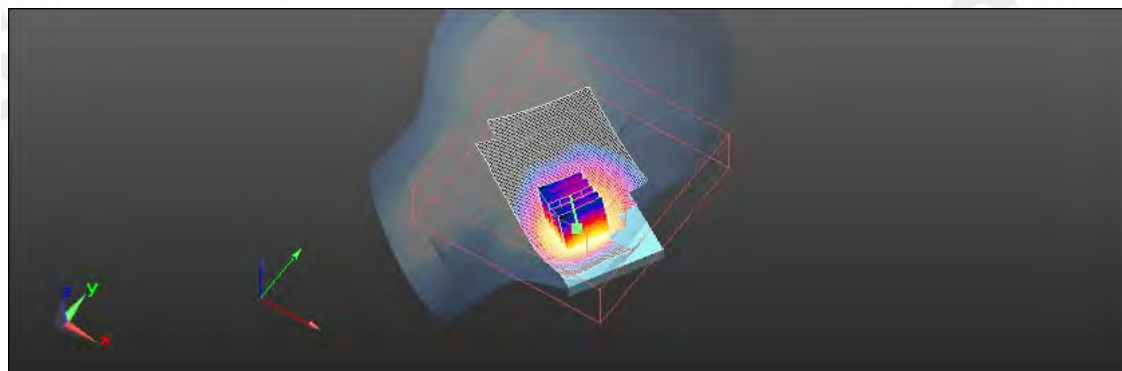
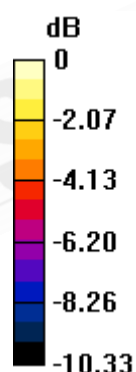
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.815 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.320 W/kg

SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.167 mW/g

Maximum value of SAR (measured) = 0.246 mW/g



0 dB = 0.250mW/g

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Date: 08/05/2011

LE Cheek_CH4233**DUT: PH06130**

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: $f = 847$ MHz; $\sigma = 0.898$ mho/m; $\epsilon_r = 41.787$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.331 mW/g

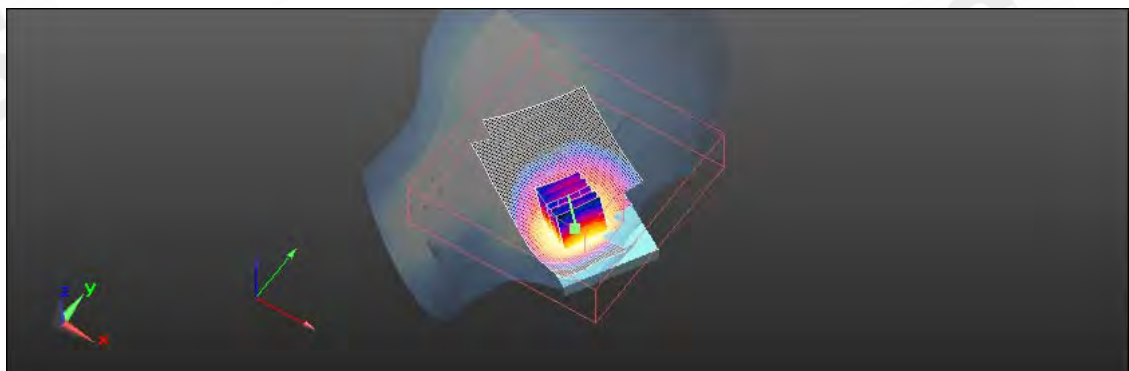
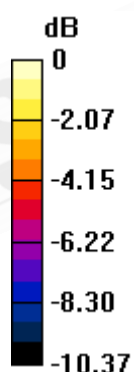
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.588 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.428 W/kg

SAR(1 g) = 0.313 mW/g; SAR(10 g) = 0.224 mW/g

Maximum value of SAR (measured) = 0.327 mW/g



0 dB = 0.330mW/g

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Date: 08/05/2011

RE Tilt_CH4132**DUT: PH06130**

Communication System: WCDMA; Frequency: 826.4 MHz

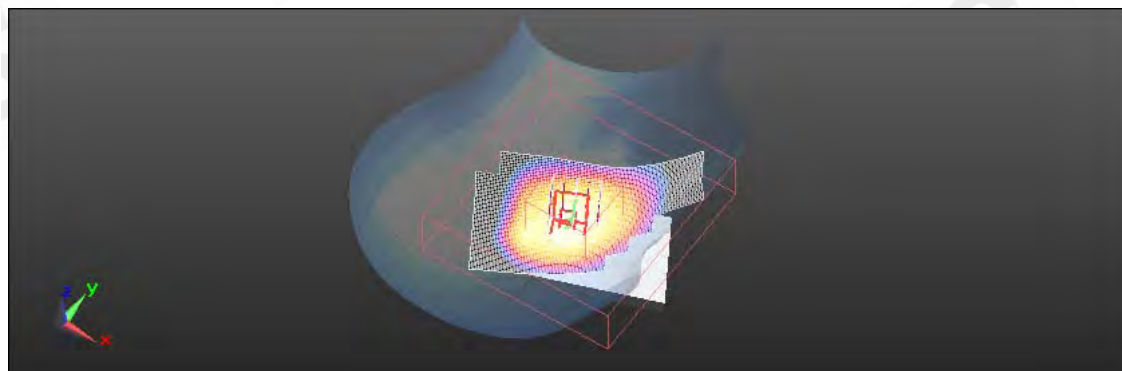
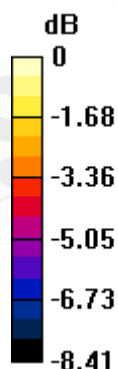
Medium parameters used: $f = 826.4 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42.98$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.236 mW/g **Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 11.913 V/m ; Power Drift = -0.03 dB Peak SAR (extrapolated) = 0.275 W/kg **SAR(1 g) = 0.223 mW/g ; SAR(10 g) = 0.174 mW/g** Maximum value of SAR (measured) = 0.231 mW/g 0 dB = 0.230mW/g

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Date: 08/05/2011

RE Tilt_CH4183

DUT: PH06130

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.882$ mho/m; $\epsilon_r = 42.447$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.184 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

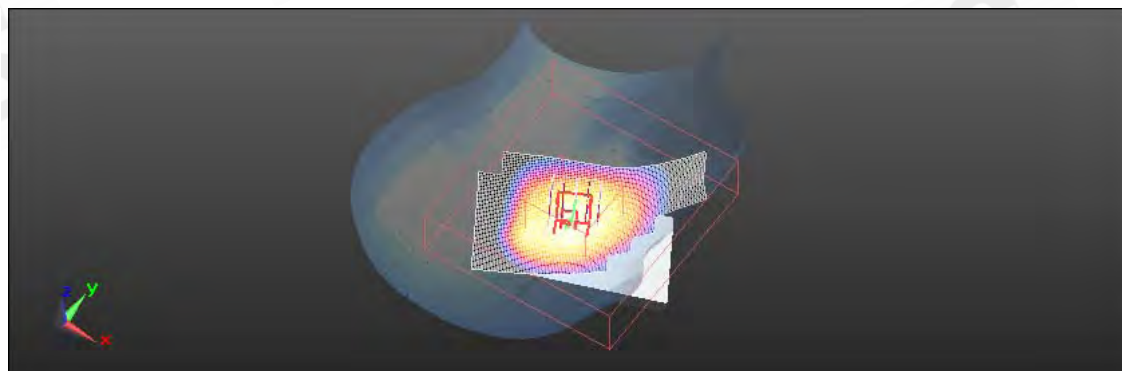
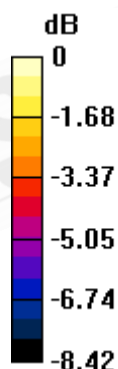
dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.449 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.216 W/kg

SAR(1 g) = 0.175 mW/g; SAR(10 g) = 0.136 mW/g

Maximum value of SAR (measured) = 0.183 mW/g



0 dB = 0.180mW/g

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Date: 08/05/2011

RE Tilt_CH4233

DUT: PH06130

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: $f = 847$ MHz; $\sigma = 0.898$ mho/m; $\epsilon_r = 41.787$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.250 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

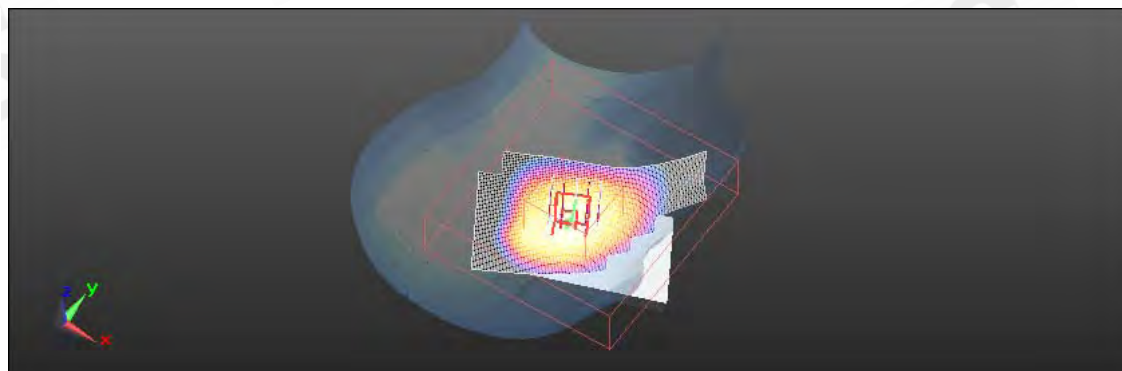
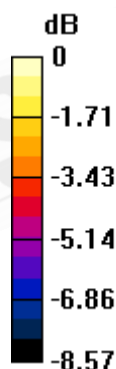
dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.191 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.285 W/kg

SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.180 mW/g

Maximum value of SAR (measured) = 0.243 mW/g



0 dB = 0.240mW/g

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Date: 08/05/2011

LE Tilt_CH4132**DUT: PH06130**

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used: $f = 826.4 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42.98$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.244 mW/g

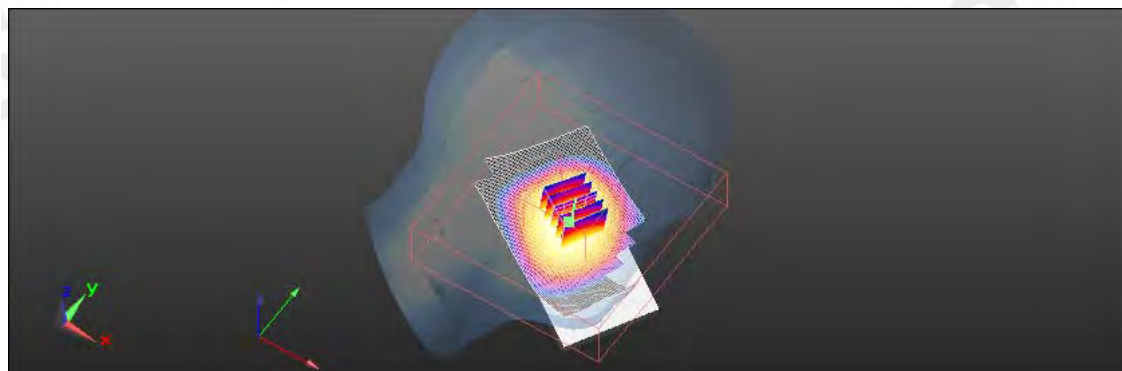
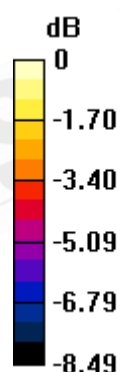
Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.610 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.287 W/kg

SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.180 mW/g

Maximum value of SAR (measured) = 0.243 mW/g



0 dB = 0.240mW/g

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Date: 08/05/2011

LE Tilt_CH4183**DUT: PH06130**

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.882$ mho/m; $\epsilon_r = 42.447$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.196 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

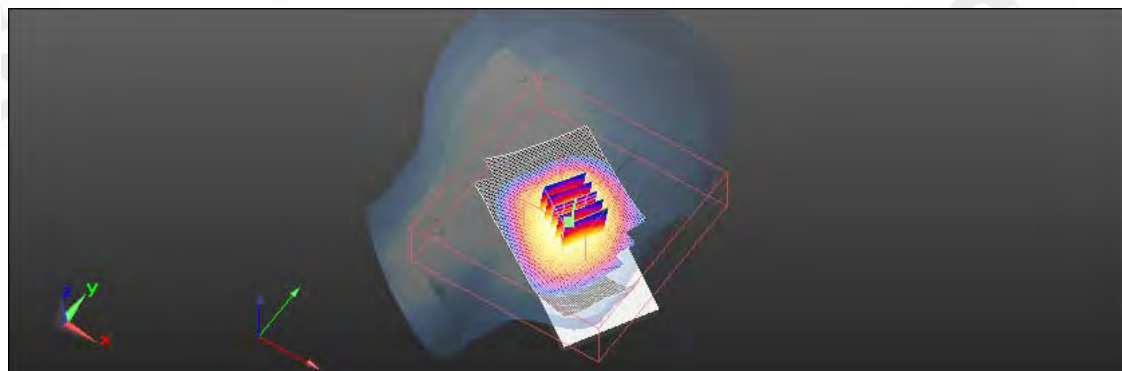
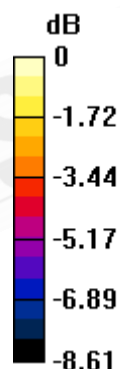
dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.350 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.232 W/kg

SAR(1 g) = 0.188 mW/g; SAR(10 g) = 0.145 mW/g

Maximum value of SAR (measured) = 0.195 mW/g



0 dB = 0.200mW/g

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Date: 08/05/2011

LE Tilt_CH4233**DUT: PH06130**

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: $f = 847$ MHz; $\sigma = 0.898$ mho/m; $\epsilon_r = 41.787$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.243 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

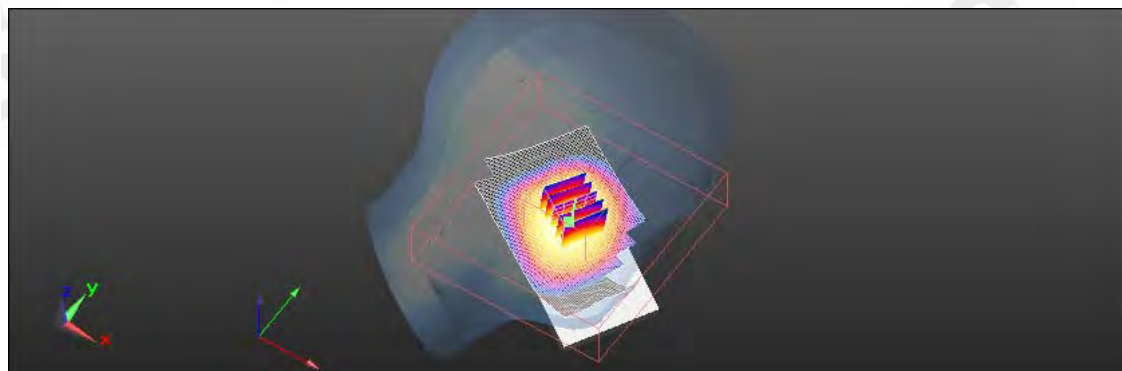
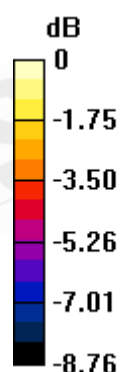
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.414 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.303 W/kg

SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.187 mW/g

Maximum value of SAR (measured) = 0.251 mW/g



0 dB = 0.250mW/g

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Date: 08/05/2011

BODY_Back side_CH4132**DUT: PH06130**

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.963$ mho/m; $\epsilon_r = 53.269$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.386 mW/g

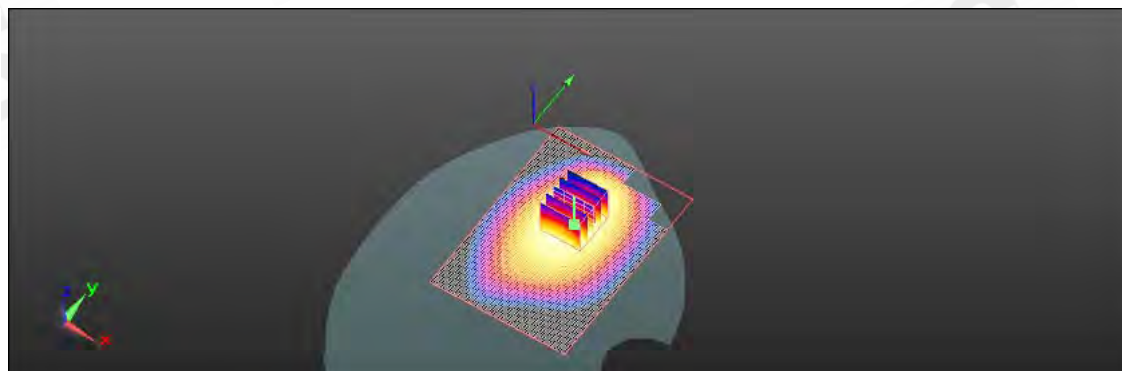
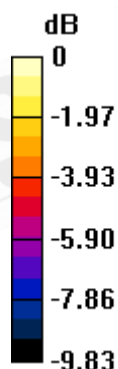
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.431 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.481 W/kg

SAR(1 g) = 0.371 mW/g; SAR(10 g) = 0.275 mW/g

Maximum value of SAR (measured) = 0.390 mW/g



0 dB = 0.390mW/g

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Date: 08/05/2011

BODY_Back side_CH4183**DUT: PH06130**

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.973$ mho/m; $\epsilon_r = 53.462$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

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

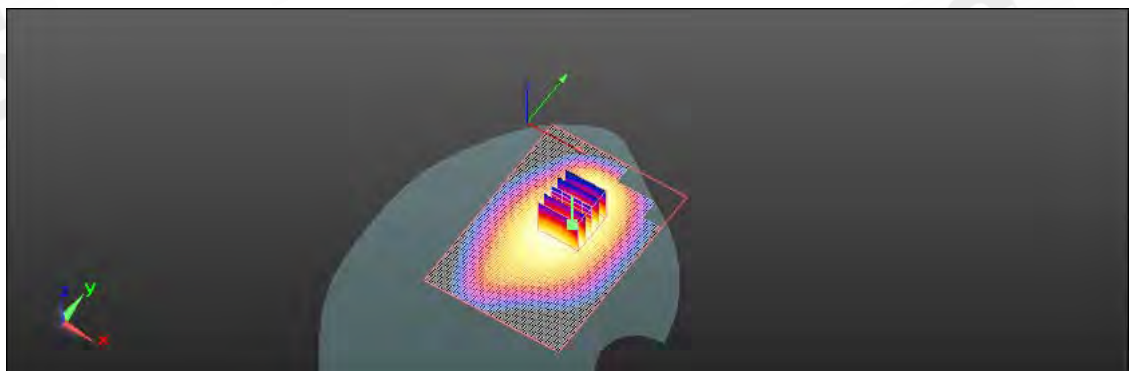
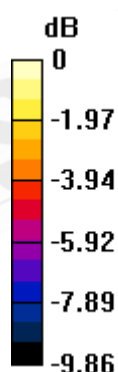
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.157 V/m; Power Drift = 0.0028 dB

Peak SAR (extrapolated) = 0.346 W/kg

SAR(1 g) = 0.269 mW/g; SAR(10 g) = 0.199 mW/g

Maximum value of SAR (measured) = 0.282 mW/g



0 dB = 0.280mW/g

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Date: 08/05/2011

BODY_Back side CH4233**DUT: PH06130**

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: $f = 847$ MHz; $\sigma = 0.983$ mho/m; $\epsilon_r = 53.685$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.326 mW/g

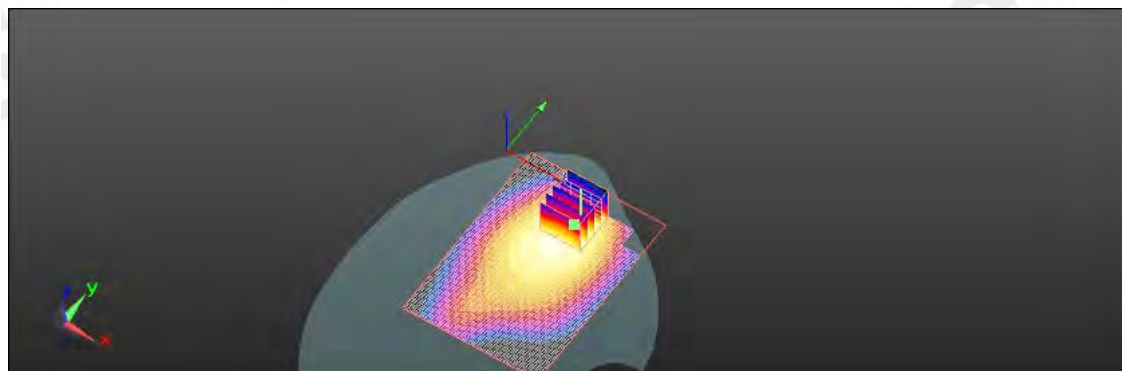
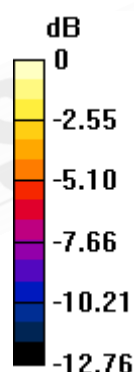
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.428 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.189 mW/g

Maximum value of SAR (measured) = 0.317 mW/g



0 dB = 0.320mW/g

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Date: 08/05/2011

BODY_Front side_CH4132**DUT: PH06130**

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.963$ mho/m; $\epsilon_r = 53.269$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.288 mW/g

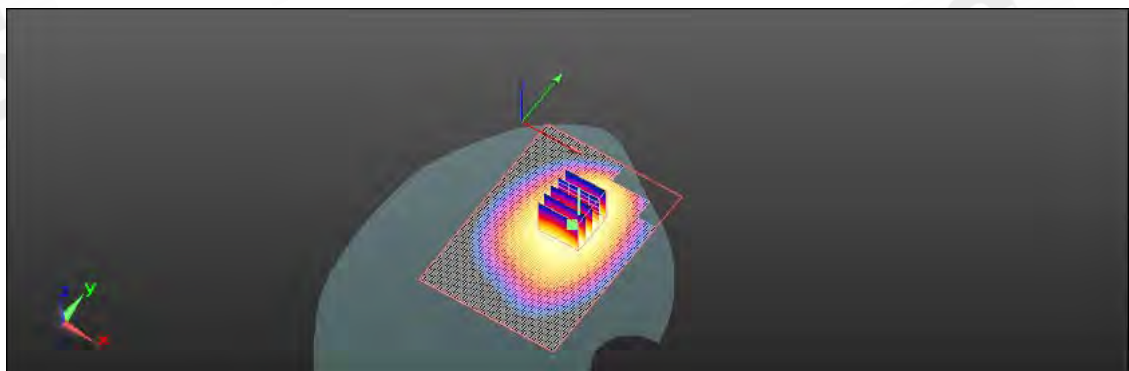
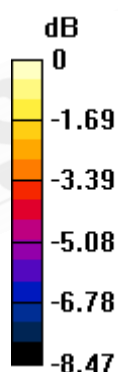
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.239 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.342 W/kg

SAR(1 g) = 0.273 mW/g; SAR(10 g) = 0.208 mW/g

Maximum value of SAR (measured) = 0.287 mW/g



0 dB = 0.290mW/g

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Date: 08/05/2011

BODY_Front side_CH4183**DUT: PH06130**

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.973$ mho/m; $\epsilon_r = 53.462$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

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

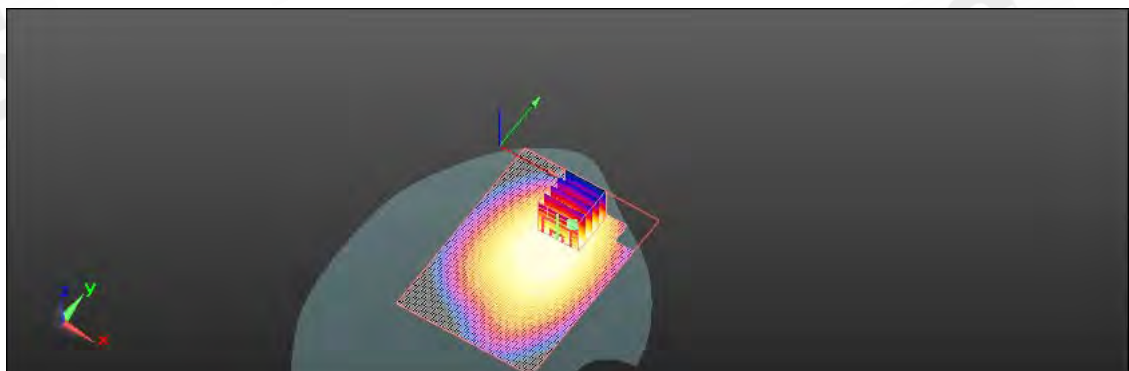
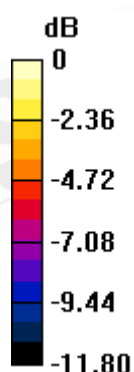
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.774 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.245 W/kg

SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.142 mW/g

Maximum value of SAR (measured) = 0.204 mW/g



0 dB = 0.200mW/g

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Date: 08/05/2011

BODY_Front side_CH4233**DUT: PH06130**

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: $f = 847$ MHz; $\sigma = 0.983$ mho/m; $\epsilon_r = 53.685$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.253 mW/g

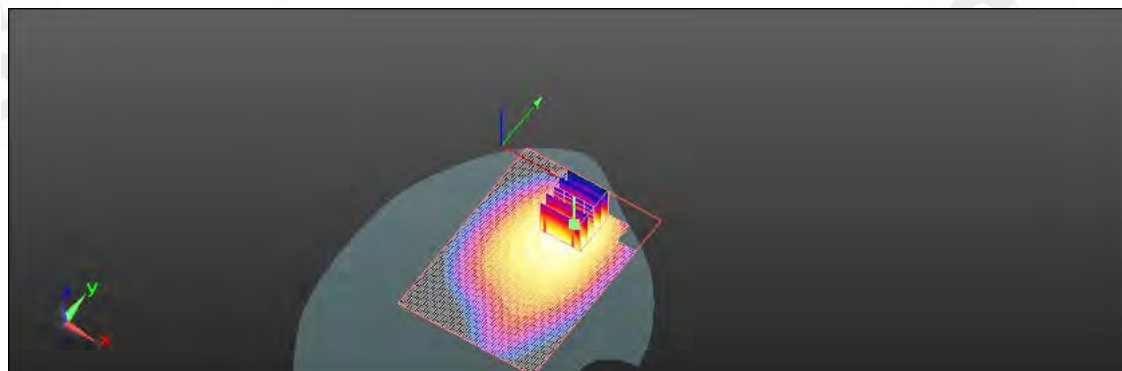
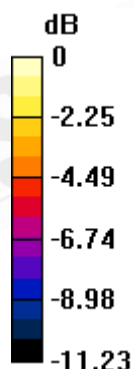
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.446 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.305 W/kg

SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.164 mW/g

Maximum value of SAR (measured) = 0.238 mW/g



0 dB = 0.240mW/g

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Date: 08/05/2011

BODY_Left side_CH4132**DUT: PH06130**

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.963$ mho/m; $\epsilon_r = 53.269$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

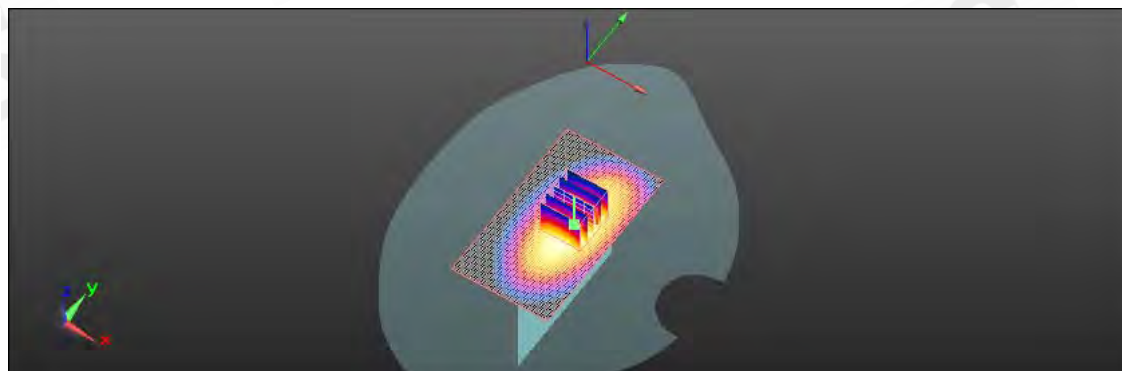
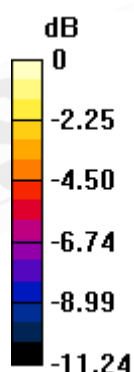
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.027 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.660 W/kg

SAR(1 g) = 0.442 mW/g; SAR(10 g) = 0.289 mW/g

Maximum value of SAR (measured) = 0.472 mW/g



0 dB = 0.470mW/g

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Date: 08/05/2011

BODY_Left side_CH4183**DUT: PH06130**

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.973$ mho/m; $\epsilon_r = 53.462$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.364 mW/g

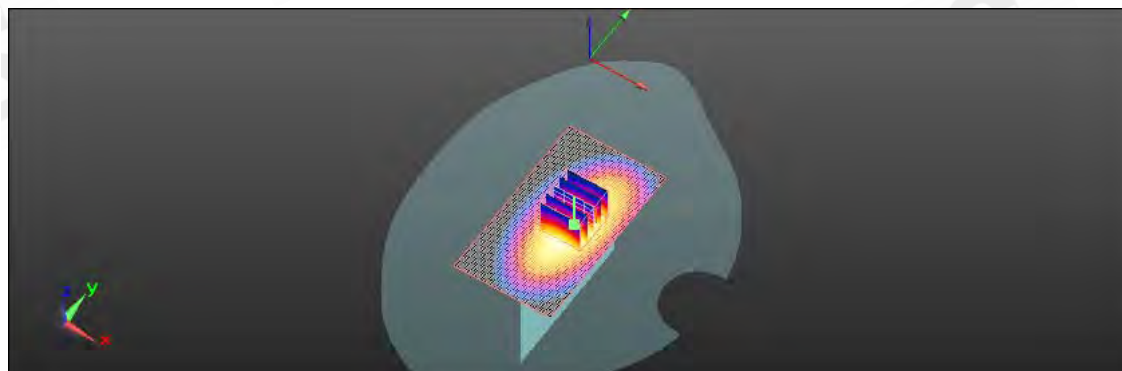
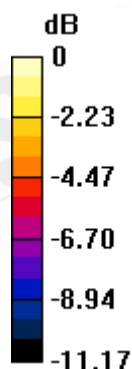
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.206 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.499 W/kg

SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.217 mW/g

Maximum value of SAR (measured) = 0.358 mW/g



0 dB = 0.360mW/g

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Date: 08/05/2011

BODY_Left side_CH4233**DUT: PH06130**

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: $f = 847$ MHz; $\sigma = 0.983$ mho/m; $\epsilon_r = 53.685$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.430 mW/g

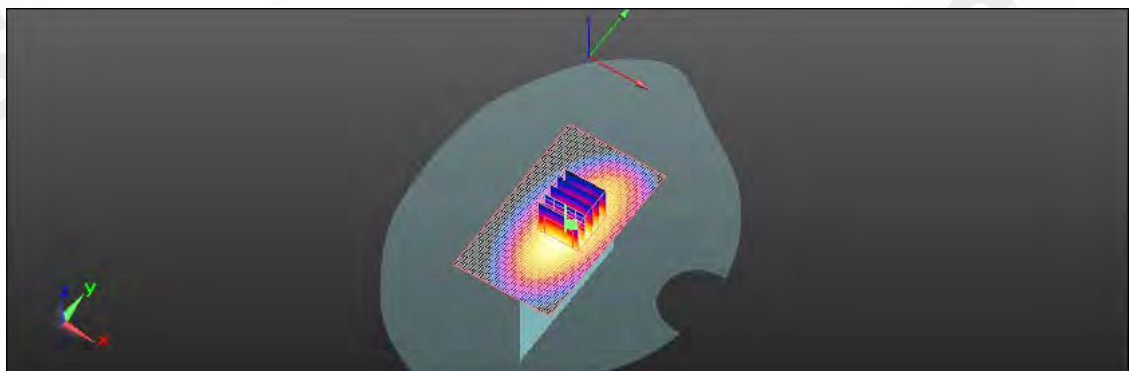
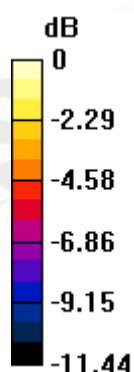
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.090 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.592 W/kg

SAR(1 g) = 0.395 mW/g; SAR(10 g) = 0.257 mW/g

Maximum value of SAR (measured) = 0.426 mW/g



0 dB = 0.430mW/g

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Date: 08/05/2011

BODY_Right side_CH4132**DUT: PH06130**

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.963$ mho/m; $\epsilon_r = 53.269$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.371 mW/g

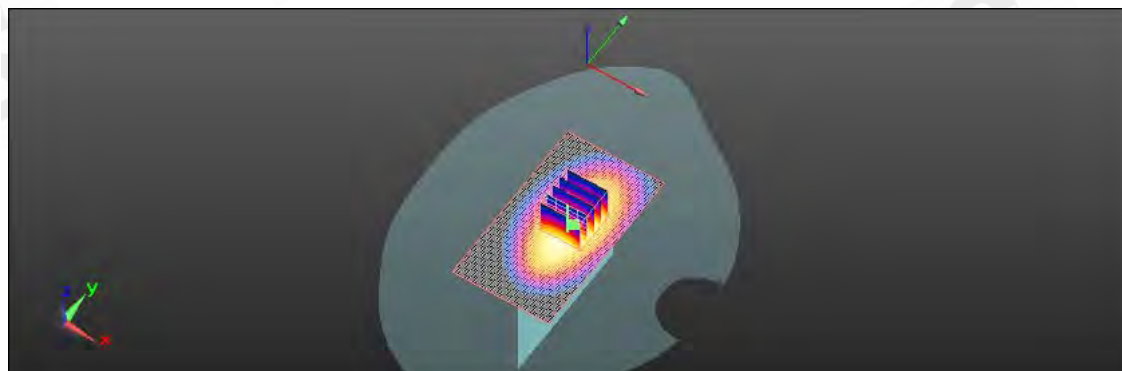
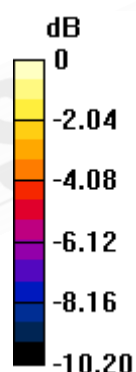
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.375 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.498 W/kg

SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.226 mW/g

Maximum value of SAR (measured) = 0.363 mW/g



0 dB = 0.360mW/g

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Date: 08/05/2011

BODY_Right side_CH4183**DUT: PH06130**

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.973$ mho/m; $\epsilon_r = 53.462$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

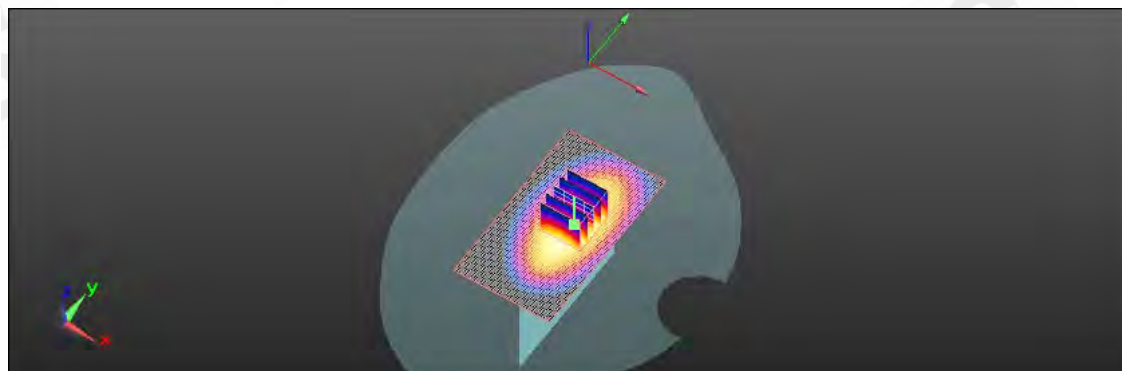
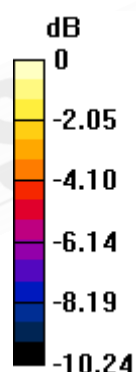
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.807 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.378 W/kg

SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.171 mW/g

Maximum value of SAR (measured) = 0.277 mW/g



0 dB = 0.280mW/g

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Date: 08/05/2011

BODY_Right side_CH4233**DUT: PH06130**

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: $f = 847$ MHz; $\sigma = 0.983$ mho/m; $\epsilon_r = 53.685$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.328 mW/g

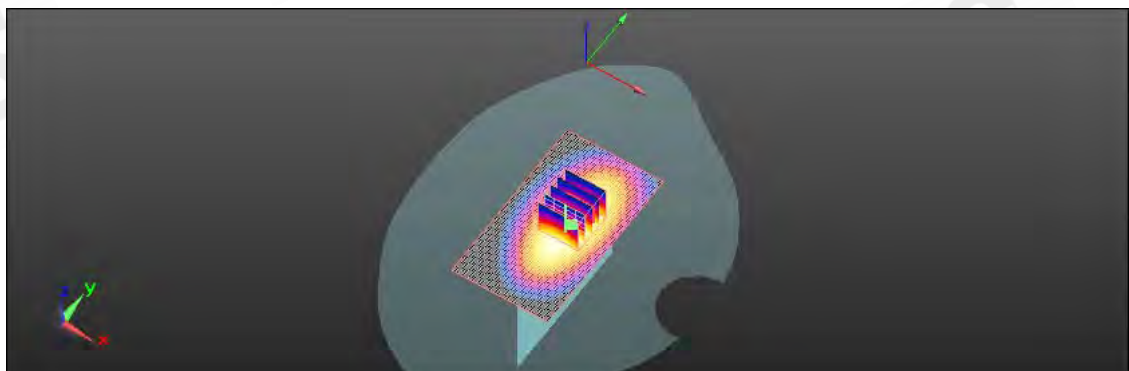
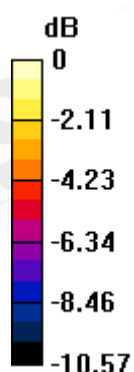
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.074 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.415 W/kg

SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.188 mW/g

Maximum value of SAR (measured) = 0.303 mW/g



0 dB = 0.300mW/g

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Date: 08/05/2011

BODY_Bottom side_CH4132**DUT: PH06130**

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.963$ mho/m; $\epsilon_r = 53.269$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.085 mW/g

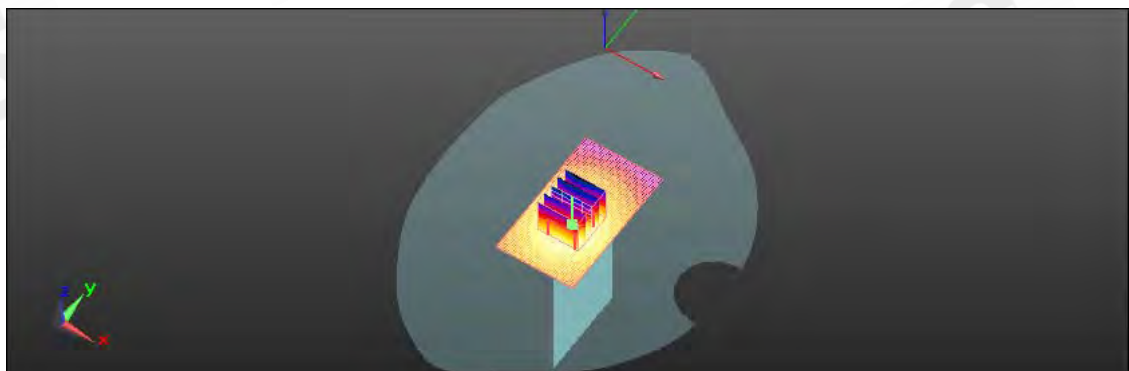
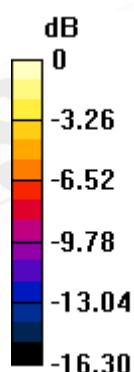
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.705 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.139 W/kg

SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.045 mW/g

Maximum value of SAR (measured) = 0.082 mW/g



0 dB = 0.080mW/g

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Date: 08/05/2011

BODY_Bottom side_CH4183**DUT: PH06130**

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.973$ mho/m; $\epsilon_r = 53.462$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.074 mW/g

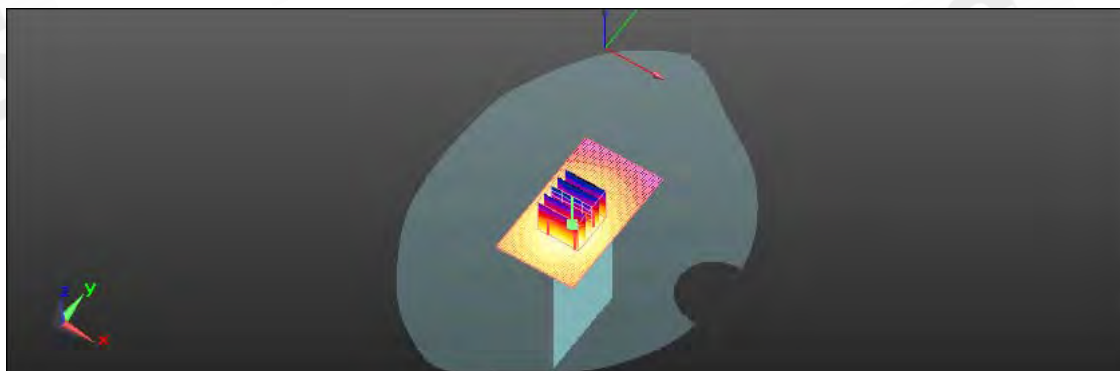
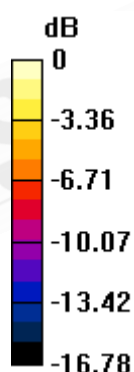
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.020 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.121 W/kg

SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.039 mW/g

Maximum value of SAR (measured) = 0.071 mW/g



0 dB = 0.070mW/g

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Date: 08/05/2011

BODY_Bottom side_CH4233**DUT: PH06130**

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: $f = 847$ MHz; $\sigma = 0.983$ mho/m; $\epsilon_r = 53.685$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.088 mW/g

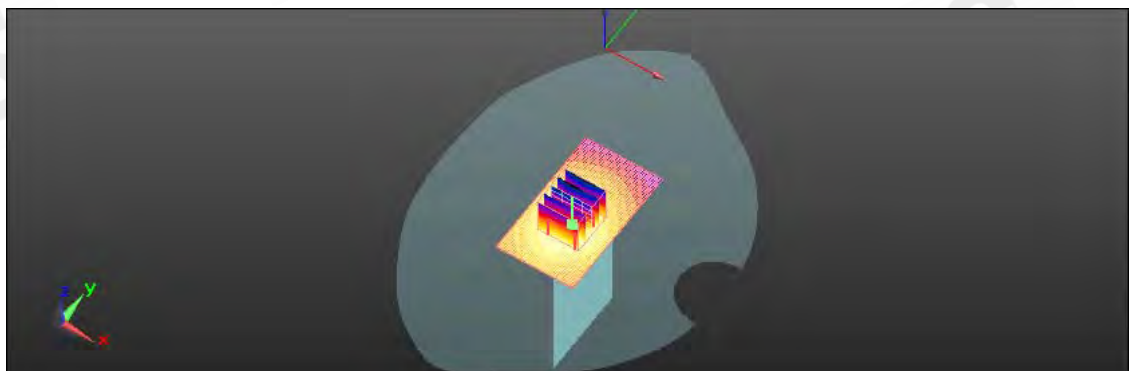
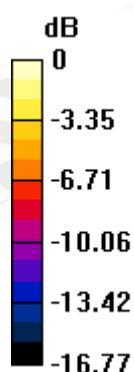
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.734 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.148 W/kg

SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.086 mW/g



0 dB = 0.090mW/g

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Date: 10/06/2011

RE Cheek_WLAN802.11b_CH1**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.764$ mho/m; $\epsilon_r = 40.218$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/RE Cheek/Area Scan (71x101x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.085 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

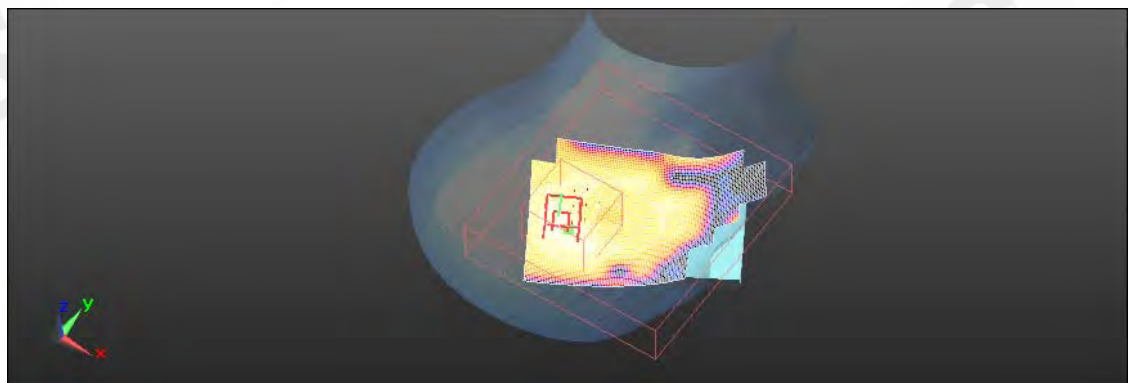
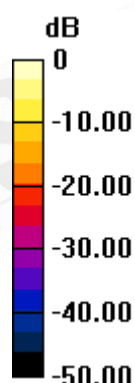
dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.185 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.178 W/kg

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.039 mW/g

Maximum value of SAR (measured) = 0.087 mW/g



0 dB = 0.090mW/g

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Date: 10/06/2011

RE Cheek_WLAN802.11b_CH6**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.774$ mho/m; $\epsilon_r = 40.072$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/RE Cheek/Area Scan (71x101x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.086 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

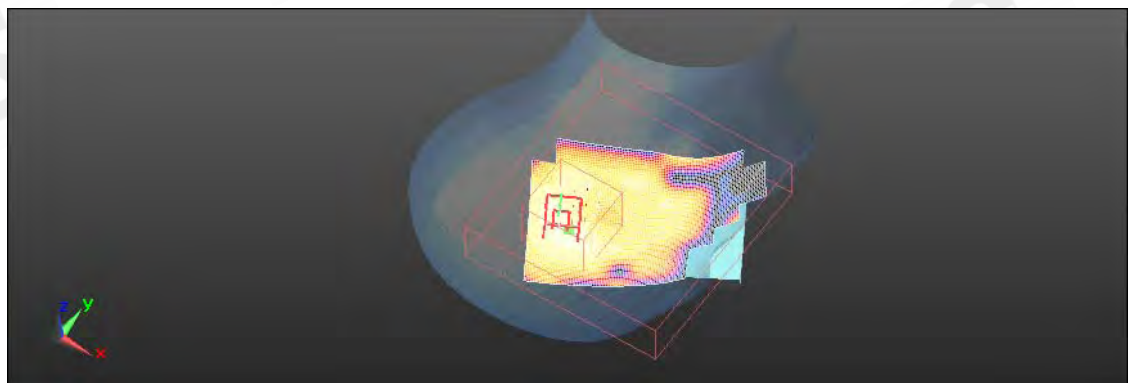
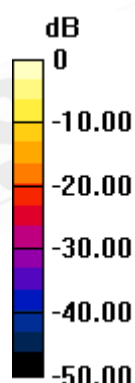
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.861 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.183 W/kg

SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.040 mW/g

Maximum value of SAR (measured) = 0.091 mW/g



0 dB = 0.090mW/g

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Date: 10/06/2011

RE Cheek_WLAN802.11b_CH11

DUT: PH06130

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2462 MHz

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.792$ mho/m; $\epsilon_r = 39.742$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/RE Cheek/Area Scan (71x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.080 mW/g

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

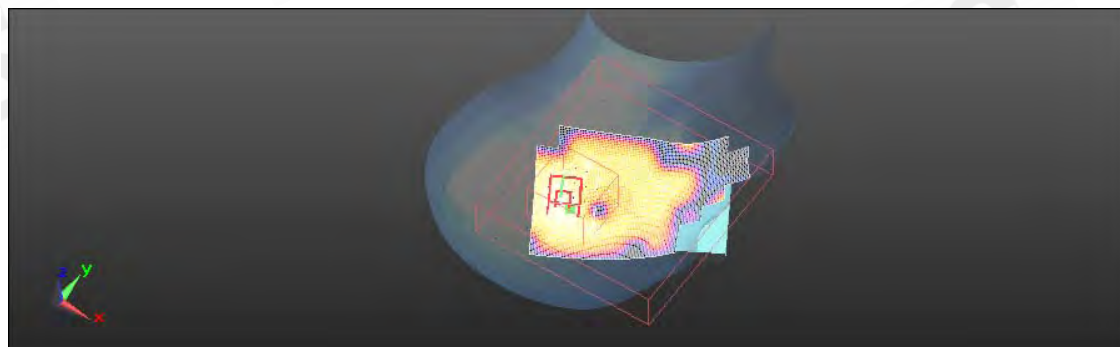
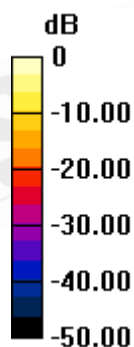
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.921 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.117 W/kg

SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.026 mW/g

Maximum value of SAR (measured) = 0.062 mW/g



0 dB = 0.060mW/g

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Date: 10/06/2011

LE Cheek_WLAN802.11b_CH1**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.764$ mho/m; $\epsilon_r = 40.218$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/LE Cheek/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.077 mW/g

Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

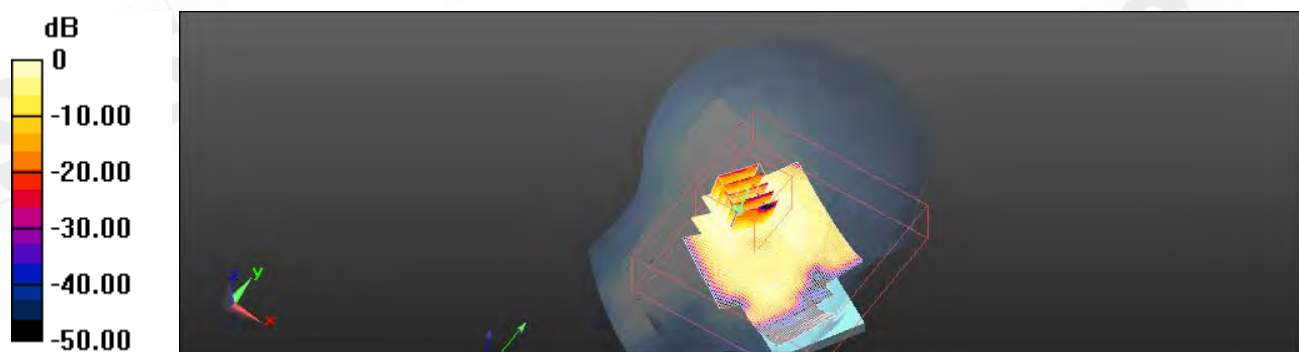
dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.478 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.157 W/kg

SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.037 mW/g

Maximum value of SAR (measured) = 0.087 mW/g



0 dB = 0.090mW/g

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Date: 10/06/2011

LE Cheek_WLAN802.11b_CH6**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.774$ mho/m; $\epsilon_r = 40.072$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/LE Cheek/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.080 mW/g

Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

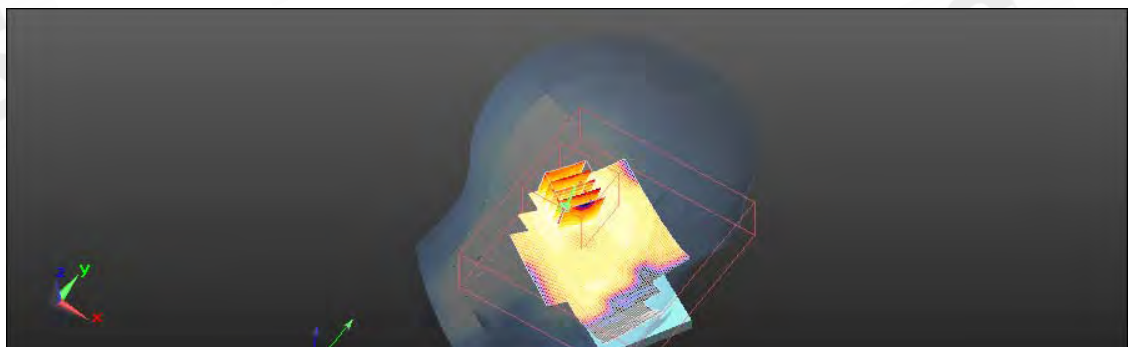
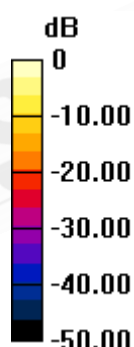
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.400 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.165 W/kg

SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.039 mW/g

Maximum value of SAR (measured) = 0.091 mW/g



0 dB = 0.090mW/g

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Date: 10/06/2011

LE Cheek_WLAN802.11b_CH11**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2462 MHz

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.792$ mho/m; $\epsilon_r = 39.742$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/LE Cheek/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.066 mW/g

Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

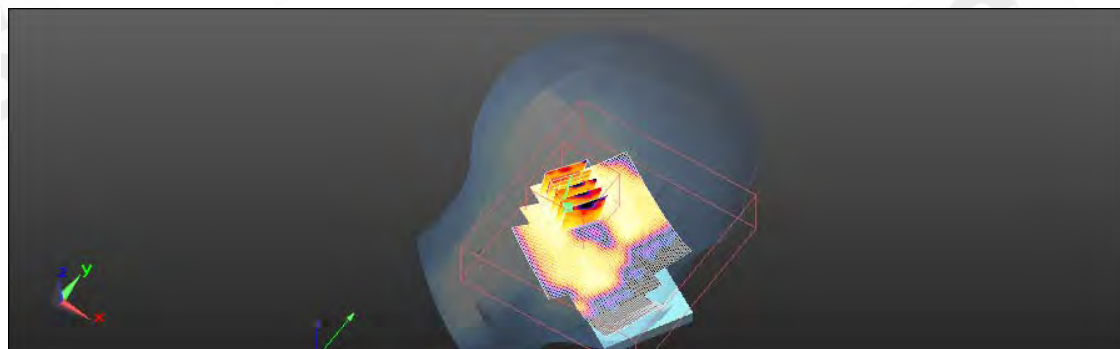
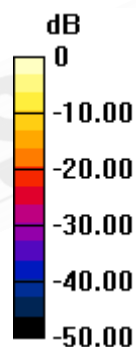
dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.537 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.187 W/kg

SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.055 mW/g



0 dB = 0.050mW/g

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Date: 10/06/2011

RE Tilt_WLAN802.11b_CH1**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.764$ mho/m; $\epsilon_r = 40.218$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/RE Tilt/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.127 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

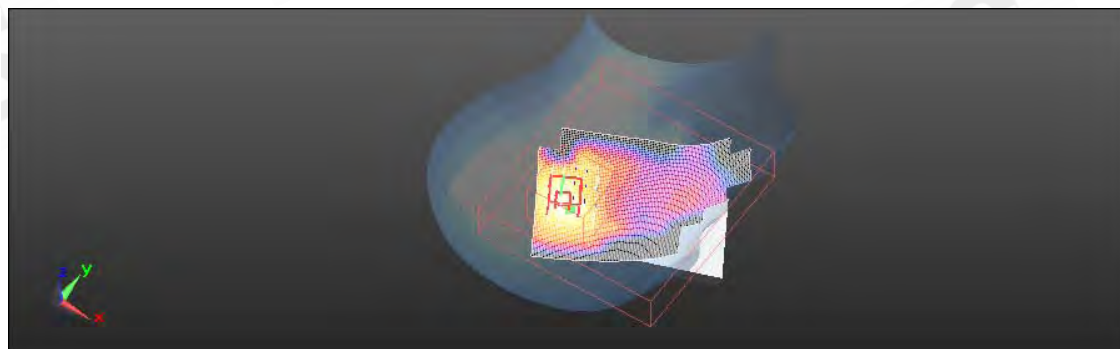
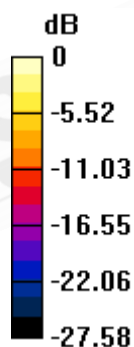
dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.565 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.261 W/kg

SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.057 mW/g

Maximum value of SAR (measured) = 0.130 mW/g



0 dB = 0.130mW/g

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Date: 10/06/2011

RE Tilt_WLAN802.11b_CH6**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.774$ mho/m; $\epsilon_r = 40.072$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/RE Tilt/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.137 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

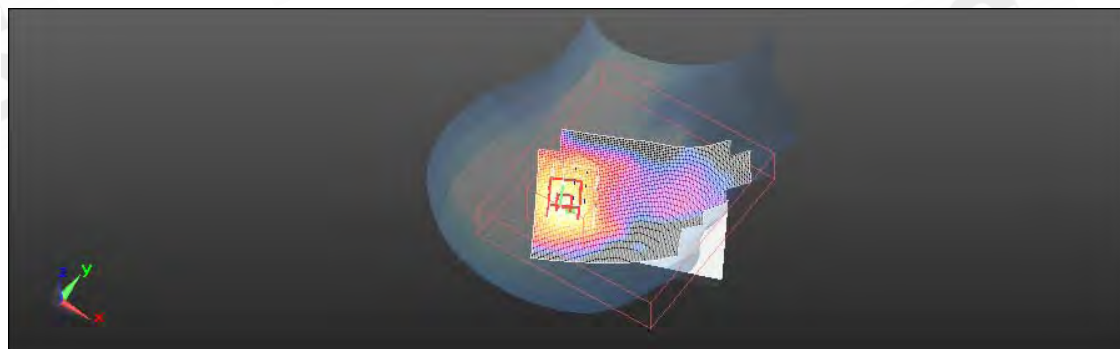
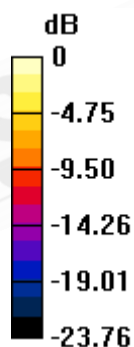
dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.911 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.280 W/kg

SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.059 mW/g

Maximum value of SAR (measured) = 0.138 mW/g



0 dB = 0.140mW/g

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Date: 10/06/2011

RE Tilt_WLAN802.11b_CH11**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2462 MHz

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.792$ mho/m; $\epsilon_r = 39.742$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/RE Tilt/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.089 mW/g

Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

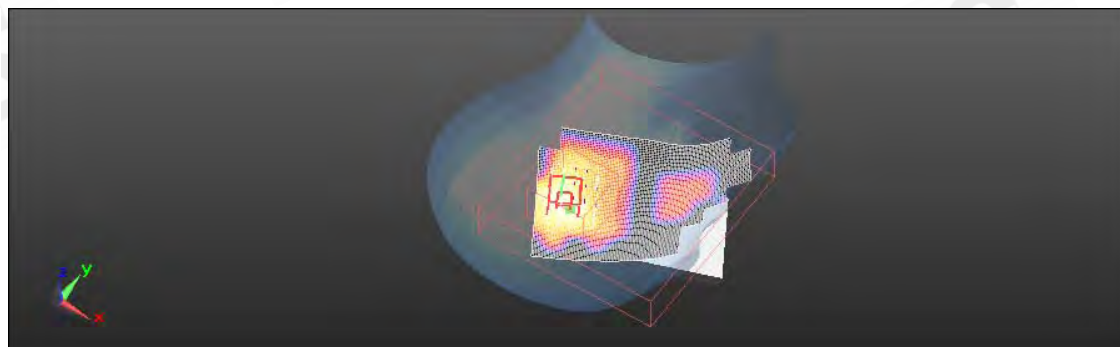
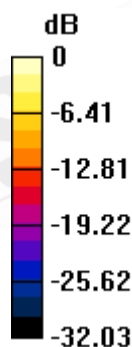
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.794 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.178 W/kg

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.038 mW/g

Maximum value of SAR (measured) = 0.088 mW/g



0 dB = 0.090mW/g

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Date: 10/06/2011

LE Tilt_WLAN802.11b_CH1**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.764$ mho/m; $\epsilon_r = 40.218$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/LE Tilt/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.156 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

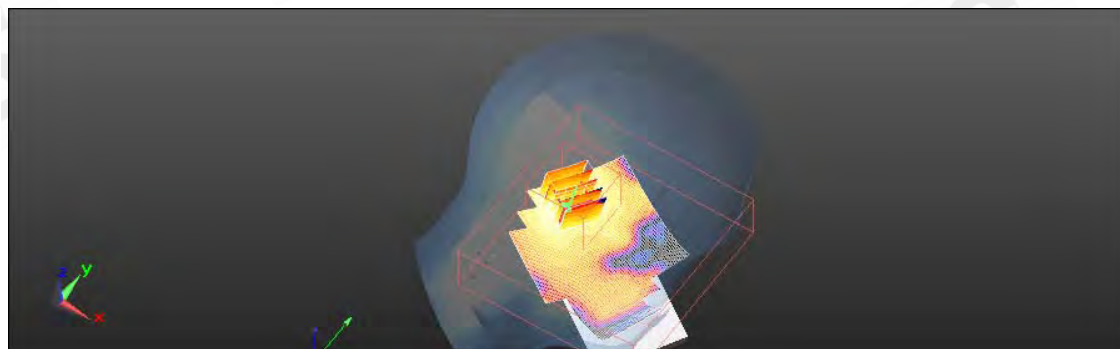
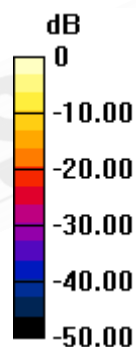
dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.898 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.072 mW/g

Maximum value of SAR (measured) = 0.169 mW/g



0 dB = 0.170mW/g

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Date: 10/06/2011

LE Tilt_WLAN802.11b_CH6**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.774$ mho/m; $\epsilon_r = 40.072$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/LE Tilt/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.152 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

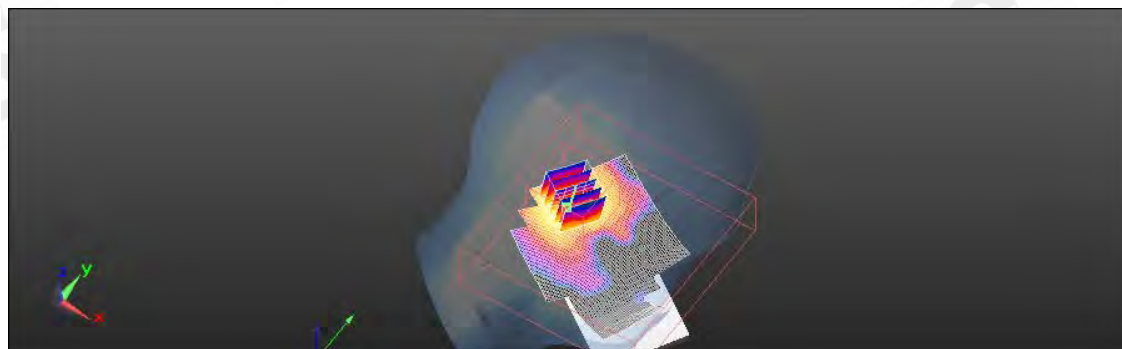
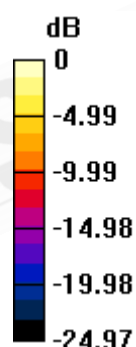
dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.151 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.295 W/kg

SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.070 mW/g

Maximum value of SAR (measured) = 0.161 mW/g



0 dB = 0.160mW/g

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Date: 10/06/2011

LE Tilt_WLAN802.11b_CH11**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2462 MHz

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.792$ mho/m; $\epsilon_r = 39.742$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/LE Tilt/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.083 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

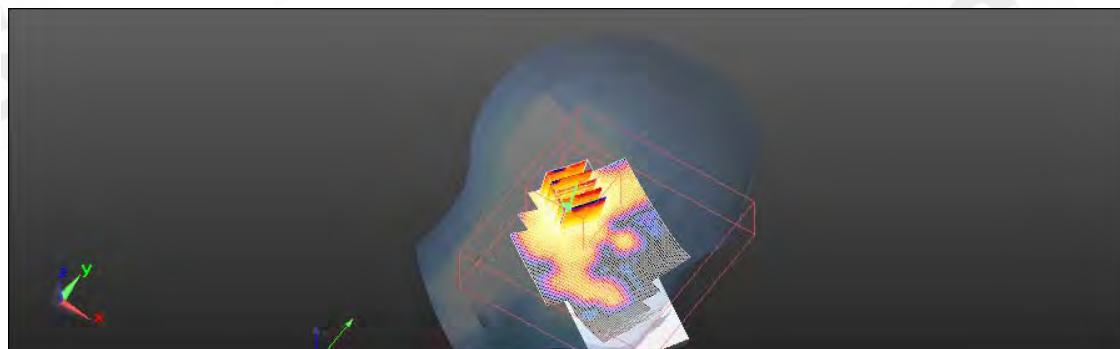
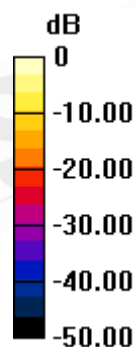
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.671 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.199 W/kg

SAR(1 g) = 0.096 mW/g; SAR(10 g) = 0.045 mW/g

Maximum value of SAR (measured) = 0.108 mW/g



0 dB = 0.110mW/g

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Date: 10/06/2011

LE Tilt_WLAN802.11b_CH1_repeated with Memory card**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.764$ mho/m; $\epsilon_r = 40.218$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/LE Tilt/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.152 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

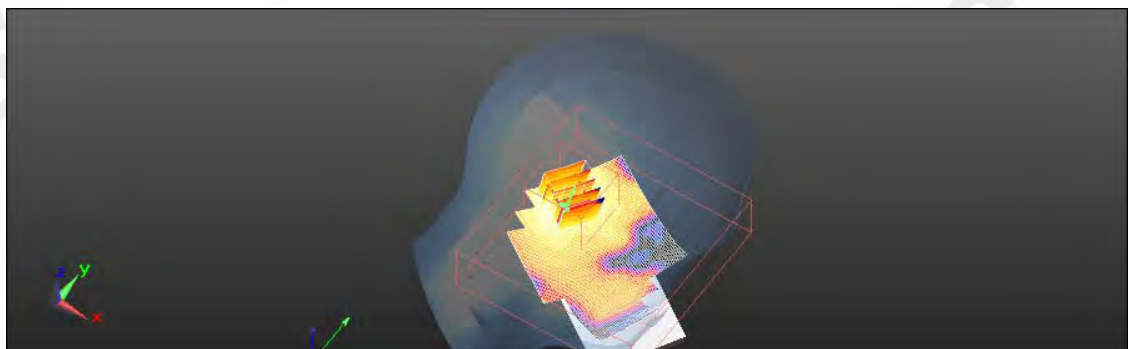
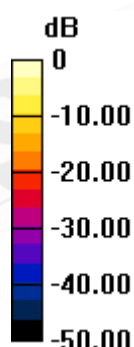
dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.785 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.065 mW/g

Maximum value of SAR (measured) = 0.165 mW/g



0 dB = 0.170mW/g

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Date: 10/06/2011

LE Tilt_WLAN802.11b_CH1_repeated with TWS Battery**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.764$ mho/m; $\epsilon_r = 40.218$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/LE Tilt/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.147 mW/g

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

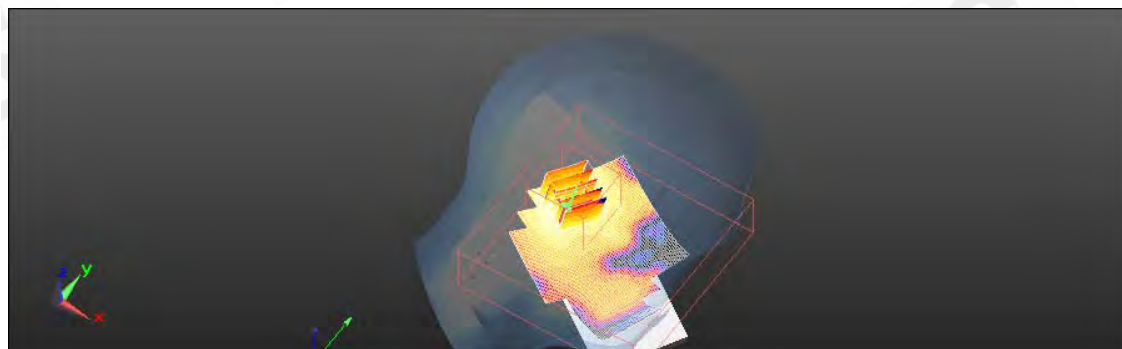
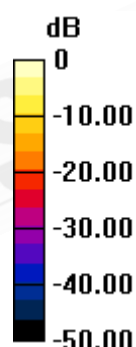
dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.794 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.057 mW/g

Maximum value of SAR (measured) = 0.162 mW/g



0 dB = 0.160mW/g

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Date: 11/05/2011

BODY_Back side_WLAN802.11b_CH1**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.921$ mho/m; $\epsilon_r = 52.226$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.204 mW/g

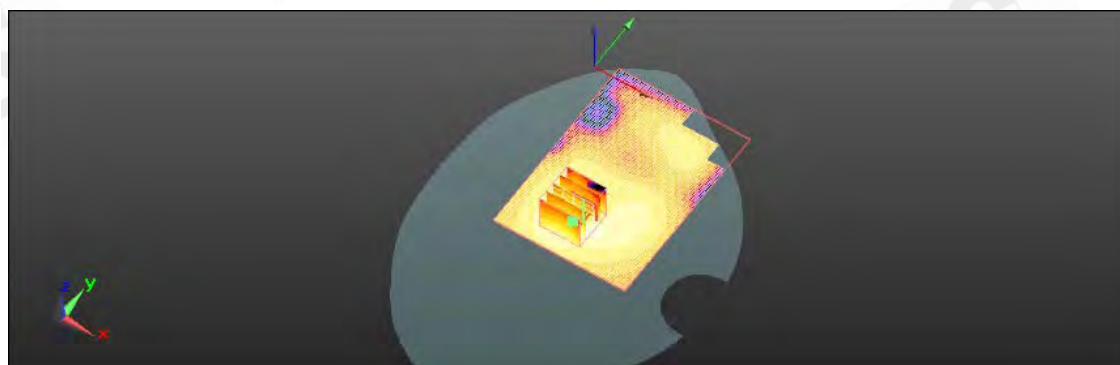
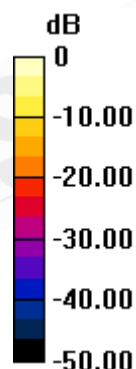
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.096 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.372 W/kg

SAR(1 g) = 0.196 mW/g; SAR(10 g) = 0.096 mW/g

Maximum value of SAR (measured) = 0.202 mW/g



0 dB = 0.200mW/g

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Date: 11/05/2011

BODY_Back side_WLAN802.11b_CH6**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.964$ mho/m; $\epsilon_r = 52.16$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

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

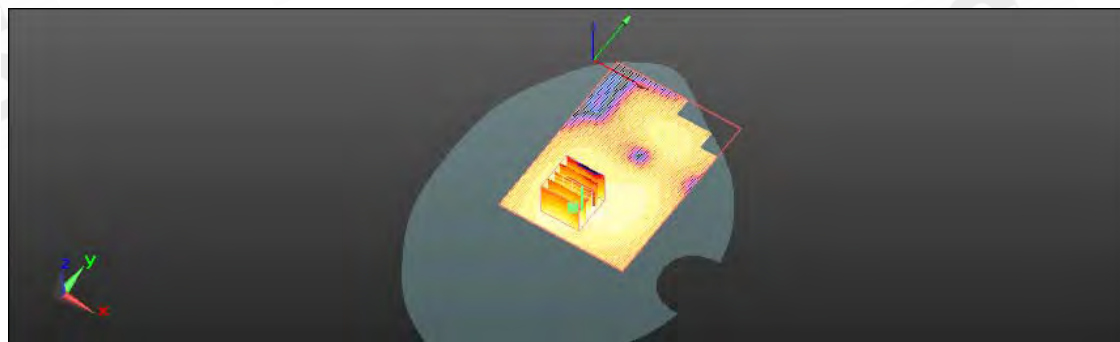
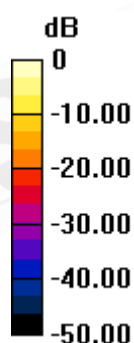
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.875 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.395 W/kg

SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.099 mW/g

Maximum value of SAR (measured) = 0.221 mW/g



0 dB = 0.220mW/g

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Date: 11/05/2011

BODY_Back side_WLAN802.11b_CH11

DUT: PH06130

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2462 MHz

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.998 \text{ mho/m}$; $\epsilon_r = 52.037$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

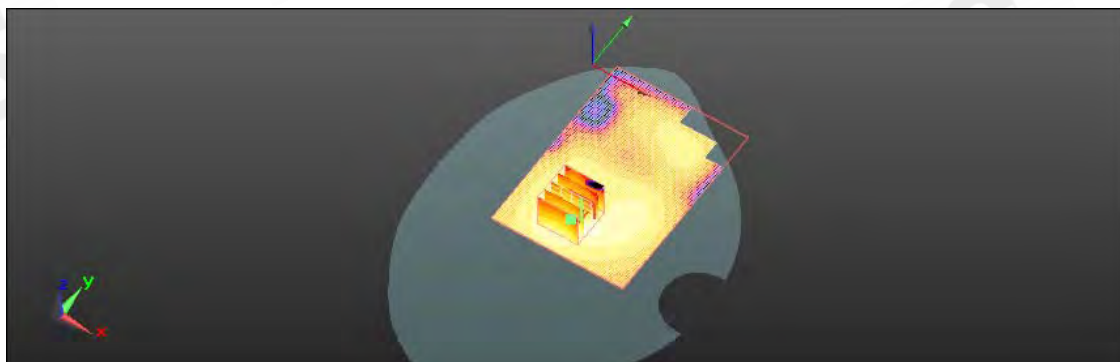
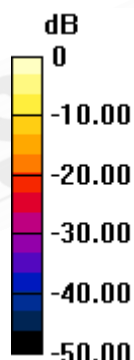
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.000 V/m ; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.284 W/kg

SAR(1 g) = 0.148 mW/g ; SAR(10 g) = 0.072 mW/g

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



0 dB = 0.160mW/g

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Date: 11/05/2011

BODY_Back side_WLAN802.11b_CH6_repeated with Memory card**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.964$ mho/m; $\epsilon_r = 52.16$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.237 mW/g

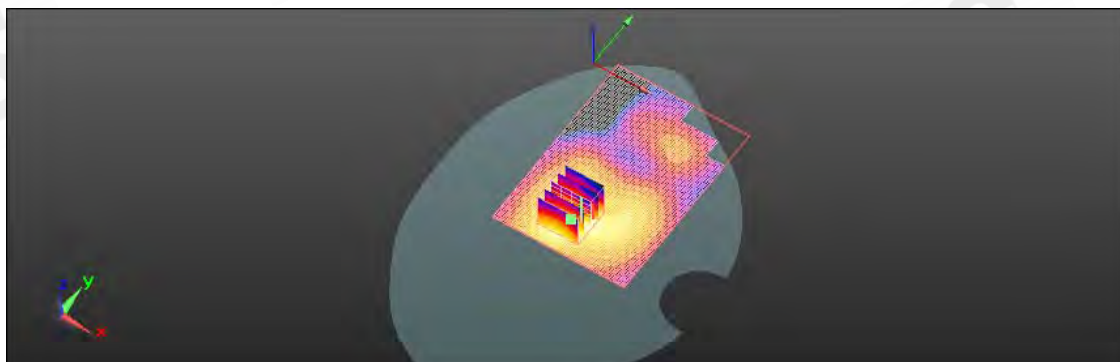
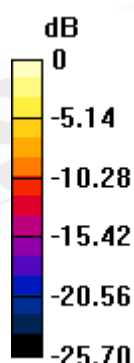
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.299 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.119 mW/g

Maximum value of SAR (measured) = 0.254 mW/g



0 dB = 0.250mW/g

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Date: 11/05/2011

BODY_Back side_WLAN802.11b_CH6_repeated with Kingstate Headset**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz

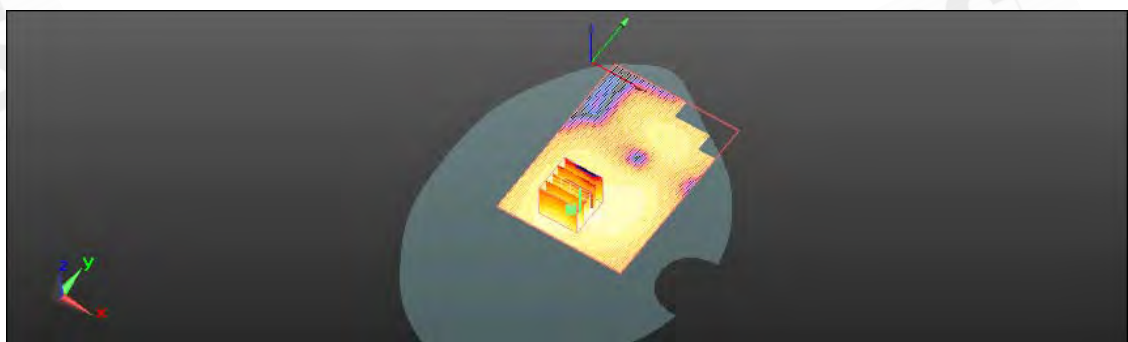
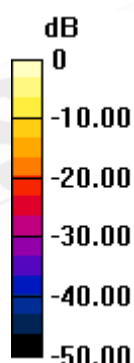
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.964 \text{ mho/m}$; $\epsilon_r = 52.16$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.271 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 11.462 V/m ; Power Drift = 0.12 dB Peak SAR (extrapolated) = 0.496 W/kg **SAR(1 g) = 0.263 mW/g ; SAR(10 g) = 0.129 mW/g** Maximum value of SAR (measured) = 0.294 mW/g  $0 \text{ dB} = 0.294 \text{ mW/g}$

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Date: 11/05/2011

BODY_Back side_WLAN802.11b_CH6_repeated with Catron Headset**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.964$ mho/m; $\epsilon_r = 52.16$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.255 mW/g

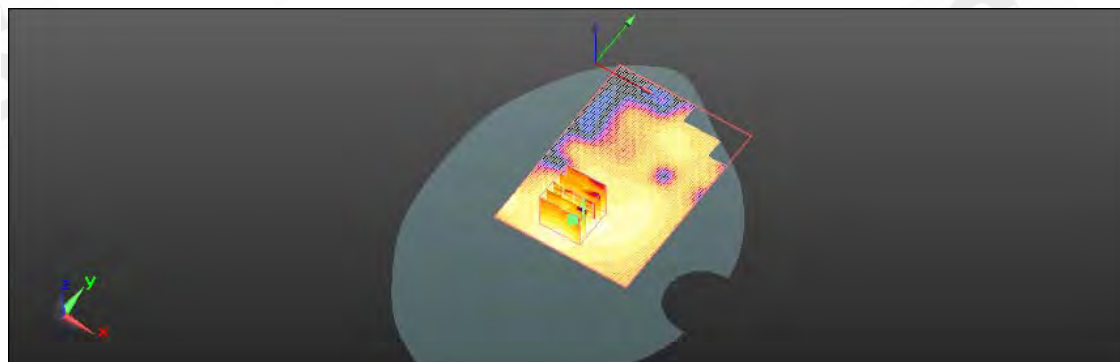
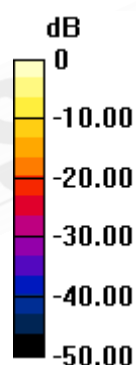
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.050 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.112 mW/g

Maximum value of SAR (measured) = 0.281 mW/g



0 dB = 0.280mW/g

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Date: 11/05/2011

BODY_Back side_WLAN802.11b_CH6_repeated with Merry Headset**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.964$ mho/m; $\epsilon_r = 52.16$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.298 mW/g

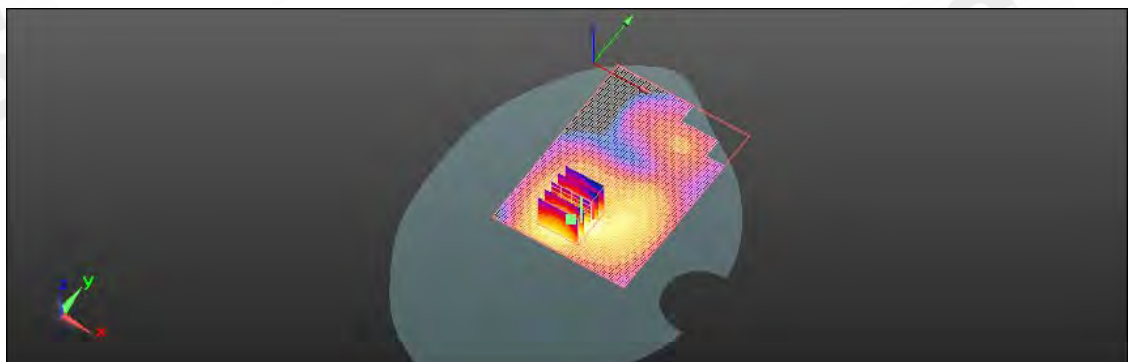
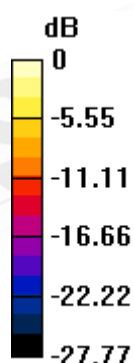
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.592 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.553 W/kg

SAR(1 g) = 0.288 mW/g; SAR(10 g) = 0.139 mW/g

Maximum value of SAR (measured) = 0.311 mW/g



0 dB = 0.310mW/g

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Date: 11/05/2011

BODY_Back side WLAN802.11b_CH6_repeated with Foster Headset

DUT: PH06130

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.964 \text{ mho/m}$; $\epsilon_r = 52.16$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.281 mW/g

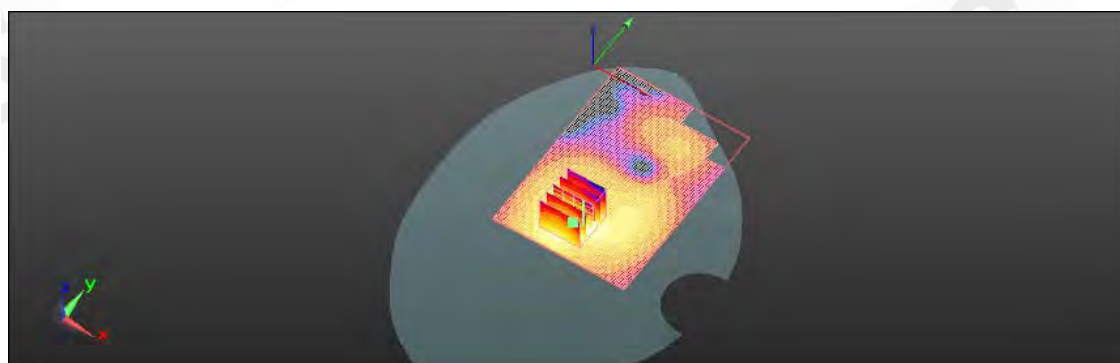
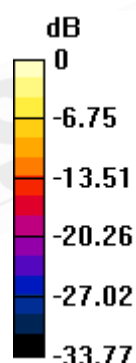
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.517 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.526 W/kg

SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.133 mW/g

Maximum value of SAR (measured) = 0.297 mW/g



0 dB = 0.300mW/g

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Date: 11/05/2011

BODY_Back side_WLAN802.11b_CH6_repeated with TWS Battery**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz

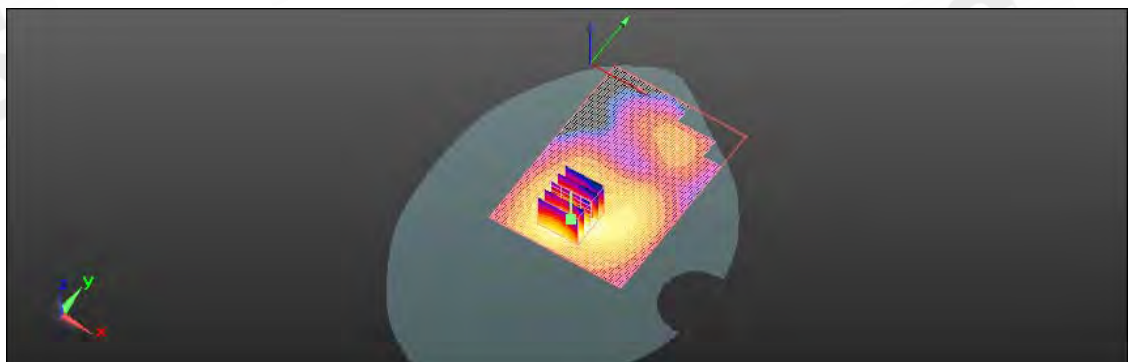
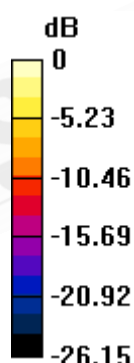
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.964 \text{ mho/m}$; $\epsilon_r = 52.16$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.243 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 10.347 V/m ; Power Drift = -0.11 dB Peak SAR (extrapolated) = 0.448 W/kg **SAR(1 g) = 0.232 mW/g ; SAR(10 g) = 0.113 mW/g** Maximum value of SAR (measured) = 0.241 mW/g  $0 \text{ dB} = 0.240 \text{ mW/g}$

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Date: 11/05/2011

BODY_Front side_WLAN802.11b_CH1

DUT: PH06130

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.921$ mho/m; $\epsilon_r = 52.226$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.023 mW/g

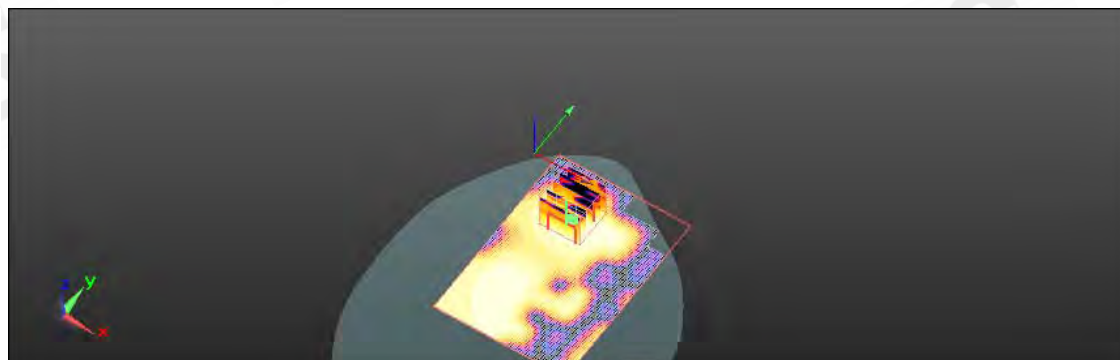
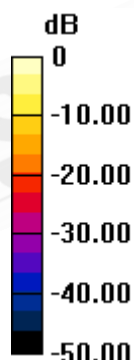
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.268 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.037 W/kg

SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00683 mW/g

Maximum value of SAR (measured) = 0.017 mW/g



0 dB = 0.020mW/g

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Date: 11/05/2011

BODY_Front side_WLAN802.11b_CH6**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.964$ mho/m; $\epsilon_r = 52.16$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.035 mW/g

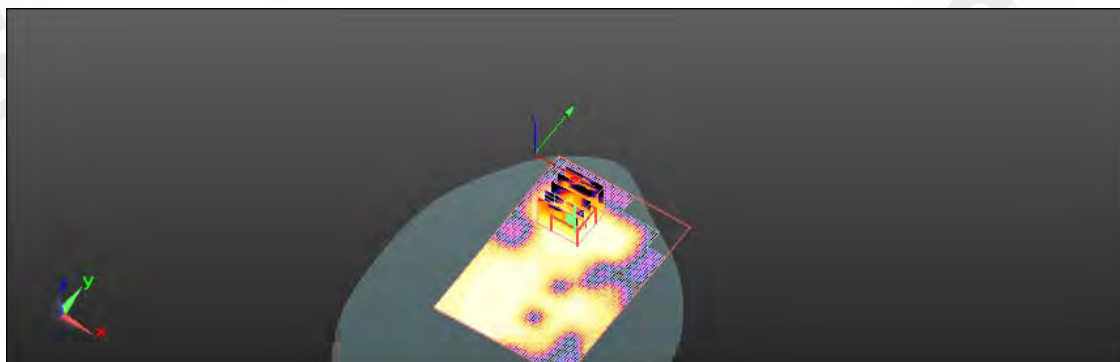
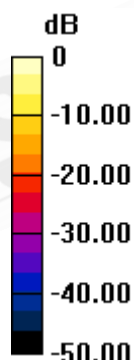
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.451 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.030 W/kg

SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.010 mW/g

Maximum value of SAR (measured) = 0.022 mW/g



0 dB = 0.020mW/g

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Date: 11/05/2011

BODY_Front side_WLAN802.11b_CH11**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2462 MHz

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.998$ mho/m; $\epsilon_r = 52.037$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.036 mW/g

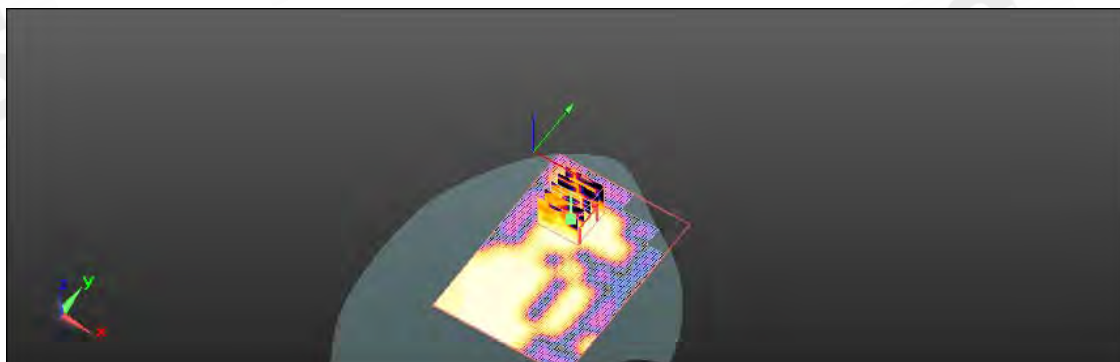
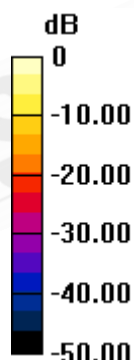
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.070 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.016 W/kg

SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00496 mW/g

Maximum value of SAR (measured) = 0.013 mW/g



0 dB = 0.010mW/g

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Date: 11/05/2011

BODY_Top side_WLAN802.11b_CH1**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.921$ mho/m; $\epsilon_r = 52.226$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.197 mW/g

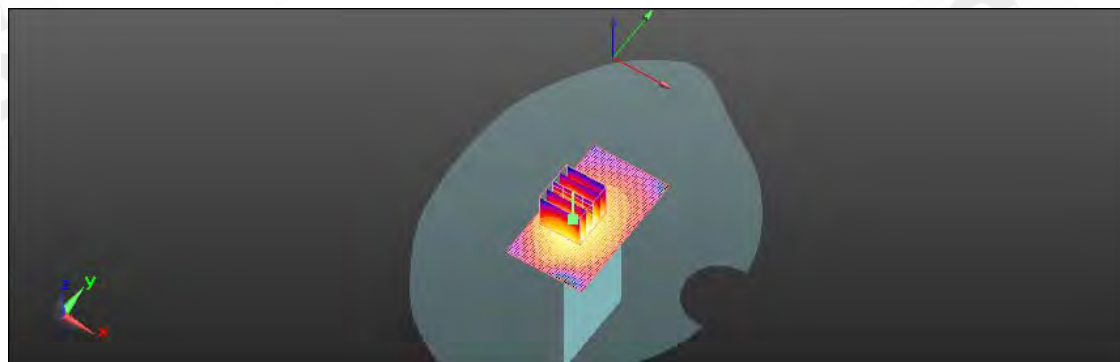
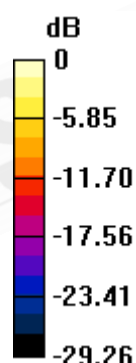
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.050 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.087 mW/g

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



0 dB = 0.200mW/g

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Date: 11/05/2011

BODY_Top side_WLAN802.11b_CH6**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.964$ mho/m; $\epsilon_r = 52.16$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.267 mW/g

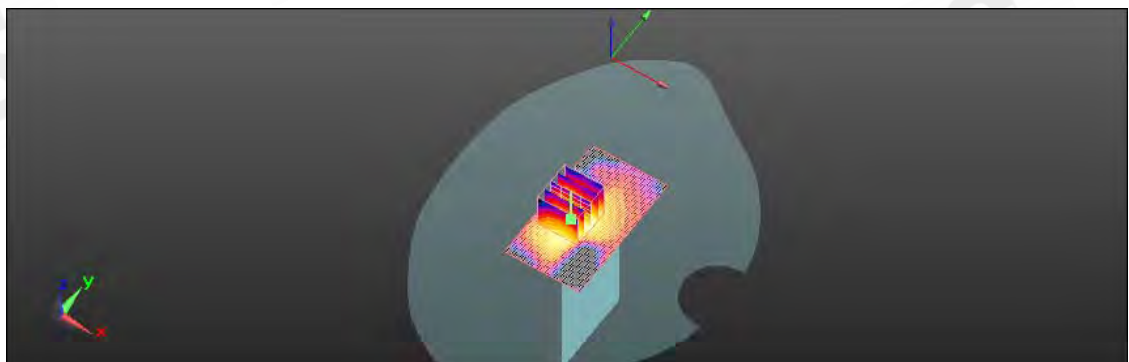
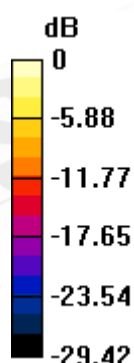
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.499 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.312 W/kg

SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.081 mW/g

Maximum value of SAR (measured) = 0.189 mW/g



0 dB = 0.190mW/g

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Date: 11/05/2011

BODY_Top side_WLAN802.11b_CH11

DUT: PH06130

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2462 MHz

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.998$ mho/m; $\epsilon_r = 52.037$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.127 mW/g

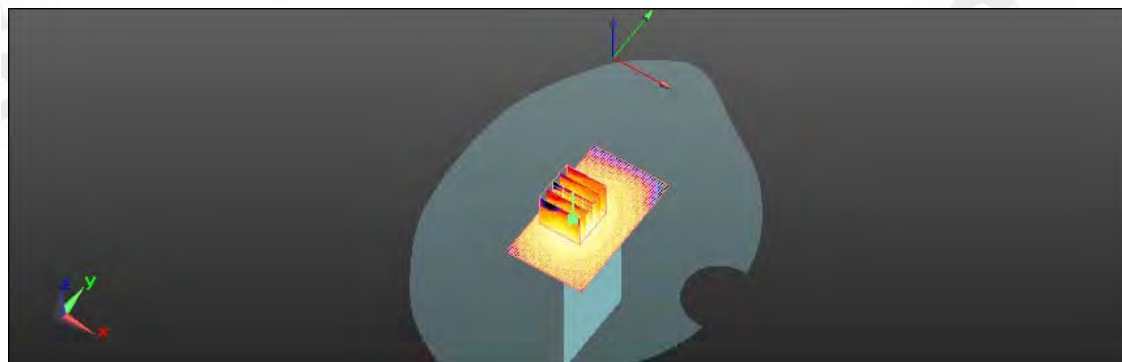
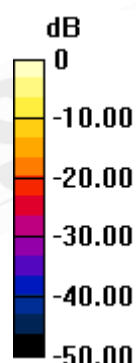
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.359 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.221 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.055 mW/g

Maximum value of SAR (measured) = 0.131 mW/g



0 dB = 0.130mW/g

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Date: 11/05/2011

BODY_Left side_WLAN802.11b_CH1**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.921$ mho/m; $\epsilon_r = 52.226$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.032 mW/g

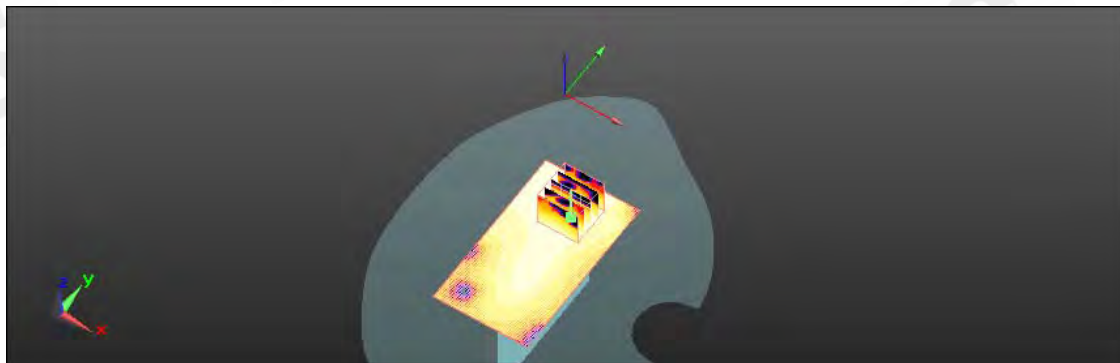
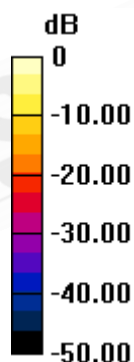
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.231 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.052 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.016 mW/g

Maximum value of SAR (measured) = 0.034 mW/g



0 dB = 0.030mW/g

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Date: 11/05/2011

BODY_Left side_WLAN802.11b_CH6**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.964$ mho/m; $\epsilon_r = 52.16$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.039 mW/g

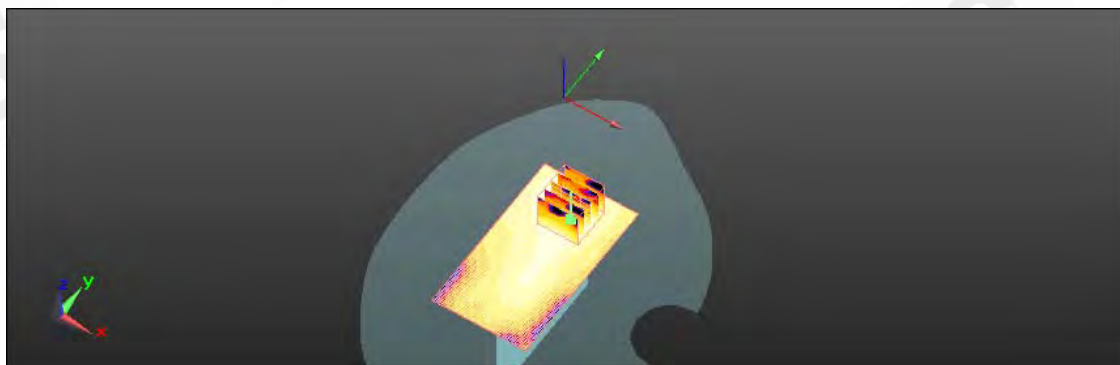
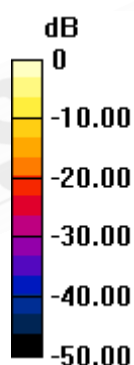
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.418 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.056 W/kg

SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.018 mW/g

Maximum value of SAR (measured) = 0.037 mW/g



0 dB = 0.040mW/g

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Date: 11/05/2011

BODY_Left side_WLAN802.11b_CH11

DUT: PH06130

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2462 MHz

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.998$ mho/m; $\epsilon_r = 52.037$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.018 mW/g

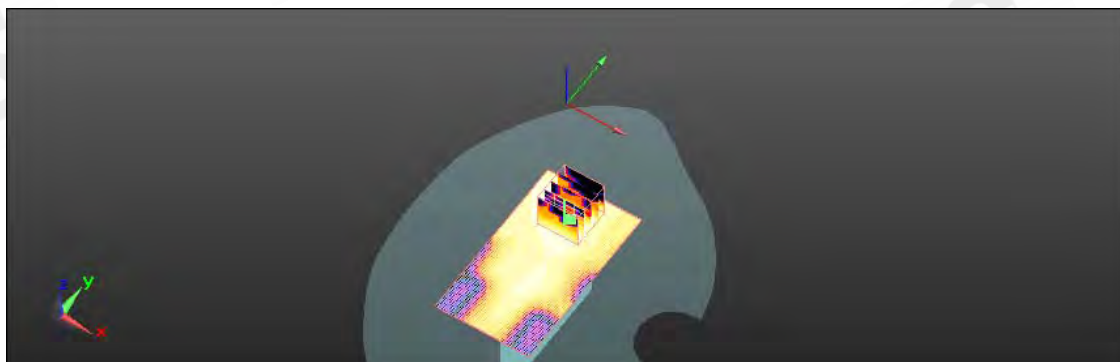
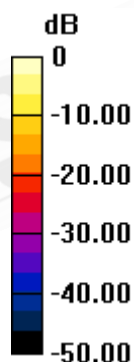
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.496 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.023 W/kg

SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00709 mW/g

Maximum value of SAR (measured) = 0.018 mW/g



0 dB = 0.020mW/g

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Date: 08/05/2011

LE Cheek_CH128_Second solution**DUT: PH06130**

Communication System: Generic GSM; Frequency: 824.2 MHz

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.868$ mho/m; $\epsilon_r = 43.064$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

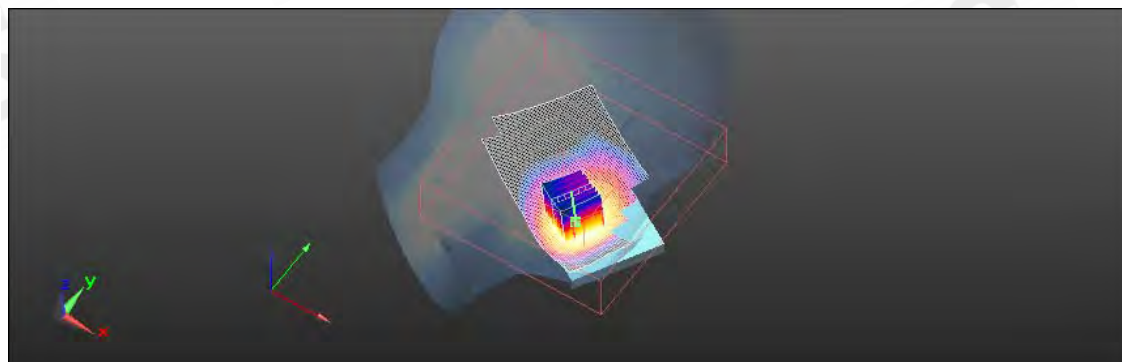
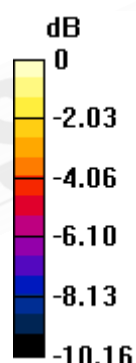
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.462 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.538 W/kg

SAR(1 g) = 0.392 mW/g; SAR(10 g) = 0.279 mW/g

Maximum value of SAR (measured) = 0.415 mW/g



0 dB = 0.420mW/g

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Date: 08/05/2011

BODY_Back side_CH128_Second solution**DUT: PH06130**

Communication System: GPRS(Class 10); Frequency: 824.2 MHz

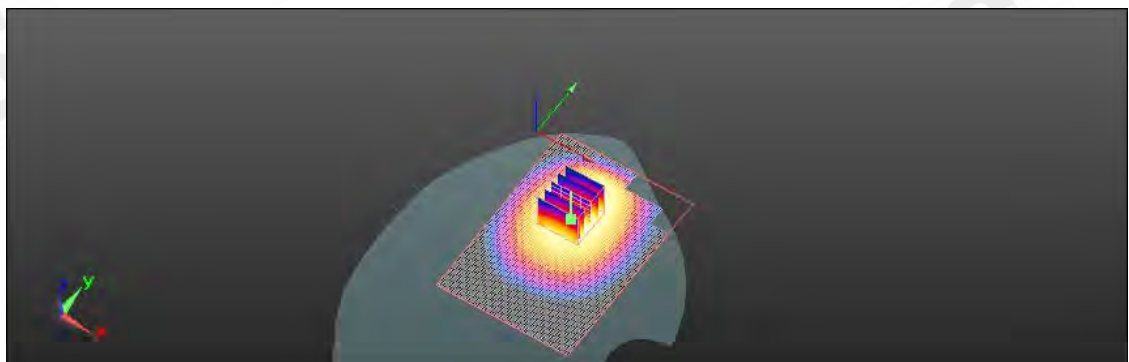
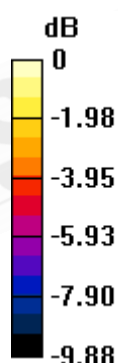
Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 53.273$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.779 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 7.318 V/m ; Power Drift = 0.18 dB Peak SAR (extrapolated) = 0.973 W/kg **SAR(1 g) = 0.734 mW/g ; SAR(10 g) = 0.537 mW/g** Maximum value of SAR (measured) = 0.776 mW/g 0 dB = 0.780mW/g

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Date: 09/05/2011

LE Cheek_CH512_Second solution**DUT: PH06130**

Communication System: Generic GSM; Frequency: 1850.2 MHz

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.377$ mho/m; $\epsilon_r = 39.804$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.67, 7.67, 7.67); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.628 mW/g

Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

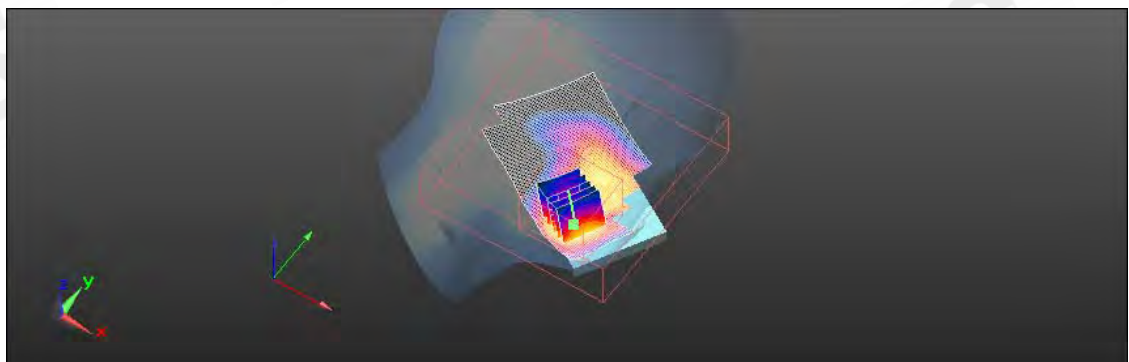
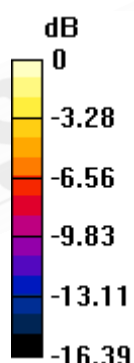
dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.713 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.952 W/kg

SAR(1 g) = 0.606 mW/g; SAR(10 g) = 0.336 mW/g

Maximum value of SAR (measured) = 0.661 mW/g



0 dB = 0.660mW/g

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Date: 09/05/2011

BODY_Bottom side_CH661_bottom_Second solution

DUT: PH06130

Communication System: GPRS(Class 10); Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ mho/m; $\epsilon_r = 52.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.667 mW/g

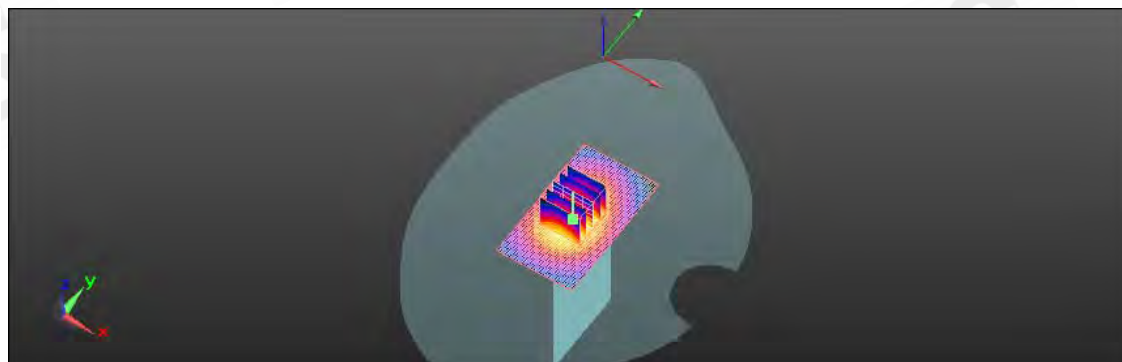
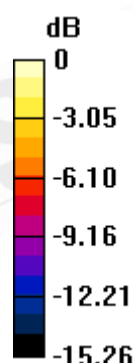
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.399 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.969 W/kg

SAR(1 g) = 0.601 mW/g; SAR(10 g) = 0.342 mW/g

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



0 dB = 0.670mW/g

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Date: 09/05/2011

LE Cheek_CH9400_repeated with TWS battery_ Second solution**DUT: PH06130**

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 39.611$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.67, 7.67, 7.67); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.034 mW/g

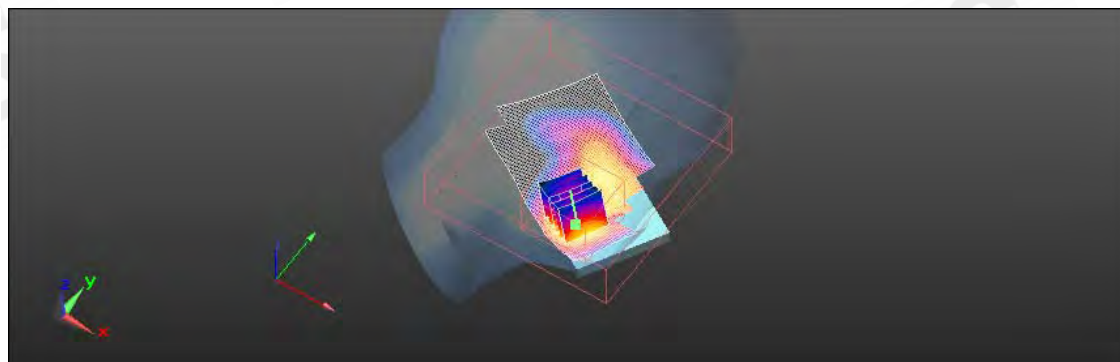
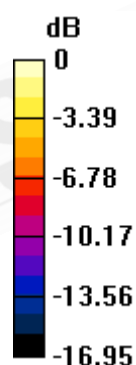
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.027 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.577 W/kg

SAR(1 g) = 0.991 mW/g; SAR(10 g) = 0.549 mW/g

Maximum value of SAR (measured) = 1.084 mW/g



0 dB = 1.080mW/g

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Date: 09/05/2011

BODY_Bottom side_CH9400_Second solution**DUT: PH06130**

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ mho/m; $\epsilon_r = 52.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7.04, 7.04, 7.04); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.717 mW/g

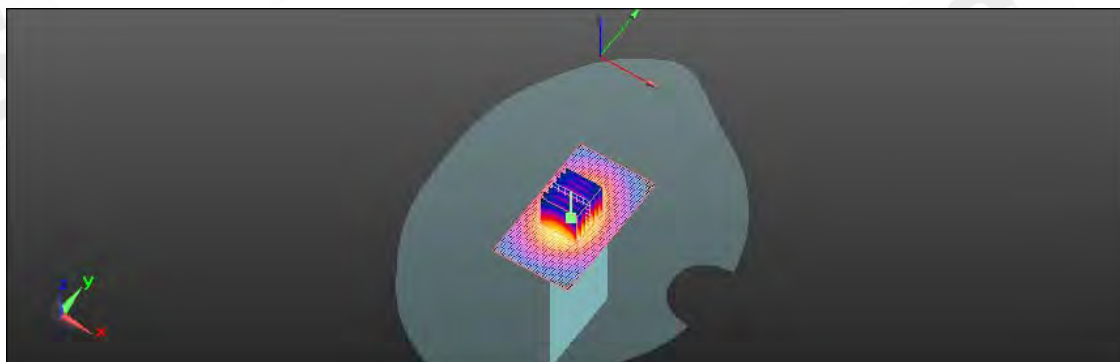
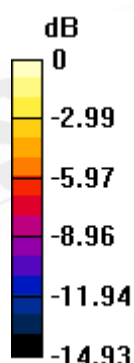
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.000 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.092 W/kg

SAR(1 g) = 0.673 mW/g; SAR(10 g) = 0.382 mW/g

Maximum value of SAR (measured) = 0.748 mW/g



0 dB = 0.750mW/g

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Date: 08/05/2011

LE Cheek_CH4132_Second solution**DUT: PH06130**

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used: $f = 826.4 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42.98$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.83, 8.83, 8.83); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.384 mW/g

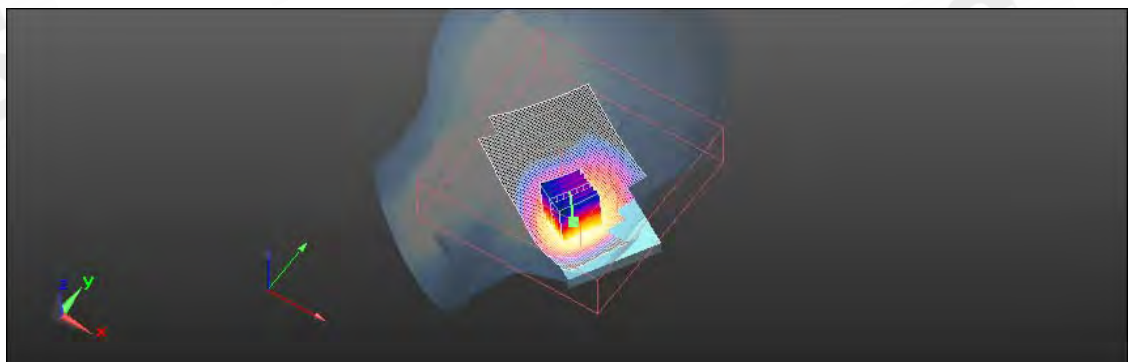
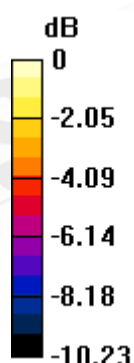
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.026 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.503 W/kg

SAR(1 g) = 0.360 mW/g; SAR(10 g) = 0.255 mW/g

Maximum value of SAR (measured) = 0.384 mW/g



0 dB = 0.380mW/g

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Date: 08/05/2011

BODY_Left side_CH4132_Second solution**DUT: PH06130**

Communication System: WCDMA; Frequency: 826.4 MHz

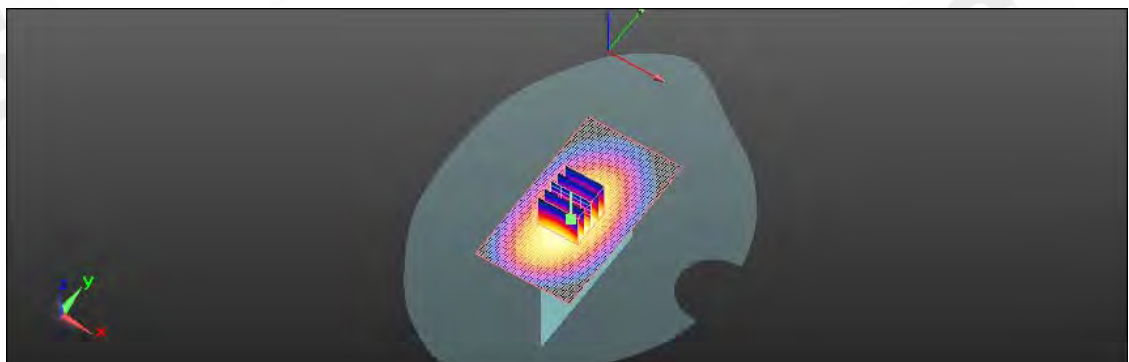
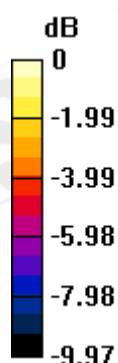
Medium parameters used: $f = 826.4 \text{ MHz}$; $\sigma = 0.963 \text{ mho/m}$; $\epsilon_r = 53.269$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(8.85, 8.85, 8.85); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.156 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 12.125 V/m ; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.208 W/kg **SAR(1 g) = 0.147 mW/g ; SAR(10 g) = 0.101 mW/g** Maximum value of SAR (measured) = 0.157 mW/g  $0 \text{ dB} = 0.160 \text{ mW/g}$

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Date: 10/06/2011

LE Tilt_WLAN802.11b_CH1_Second solution

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz
Medium parameters used: $f = 2412$ MHz; $\sigma = 1.794$ mho/m; $\epsilon_r = 40.218$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(7, 7, 7); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/18/2011
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration/LE Tilt/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.161 mW/g

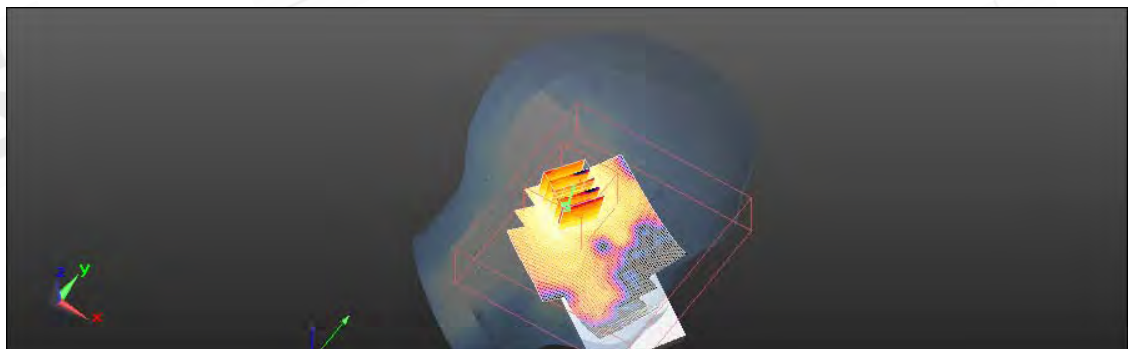
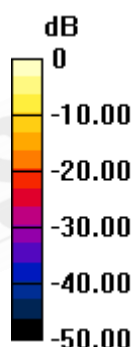
Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.860 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.321 W/kg

SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.075 mW/g

Maximum value of SAR (measured) = 0.176 mW/g



0 dB = 0.180mW/g

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Date: 11/05/2011

BODY_Back side_WLAN802.11b_CH6_repeated with Merry Headset_Second solution**DUT: PH06130**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz

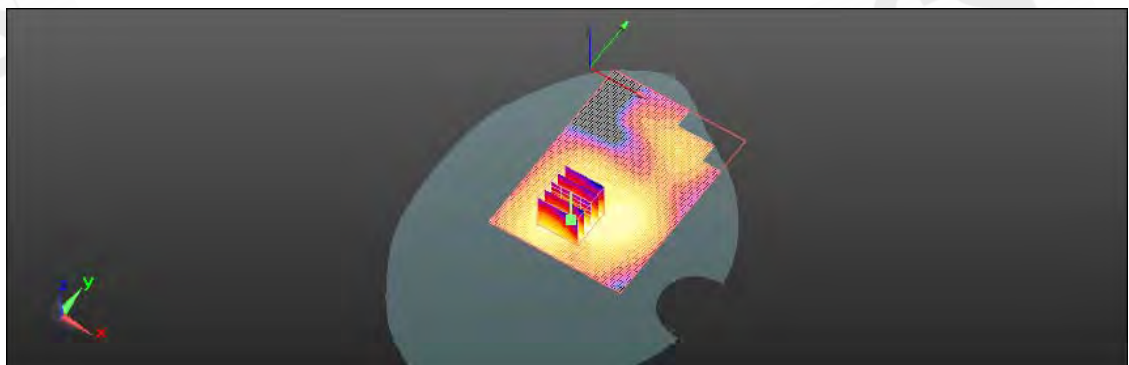
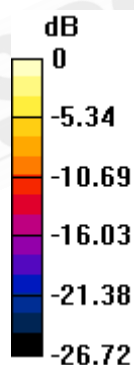
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.964 \text{ mho/m}$; $\epsilon_r = 52.16$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.82, 6.82, 6.82); Calibrated: 1/24/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/Body/Area Scan (71x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.166 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.267 V/m ; Power Drift = -0.0001 dB Peak SAR (extrapolated) = 0.270 W/kg **SAR(1 g) = 0.144 mW/g ; SAR(10 g) = 0.073 mW/g** Maximum value of SAR (measured) = 0.155 mW/g 0 dB = 0.160mW/g

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5. System Verification

Date: 08/05/2011

DUT: Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 42.514$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3753; ConvF(9.06, 9.06, 9.06); Calibrated: 12/13/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration /d=15mm, Pin=250mW, dist=4mm : Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.563 mW/g

Configuration /d=15mm, Pin=250mW, dist=4mm : Measurement grid:

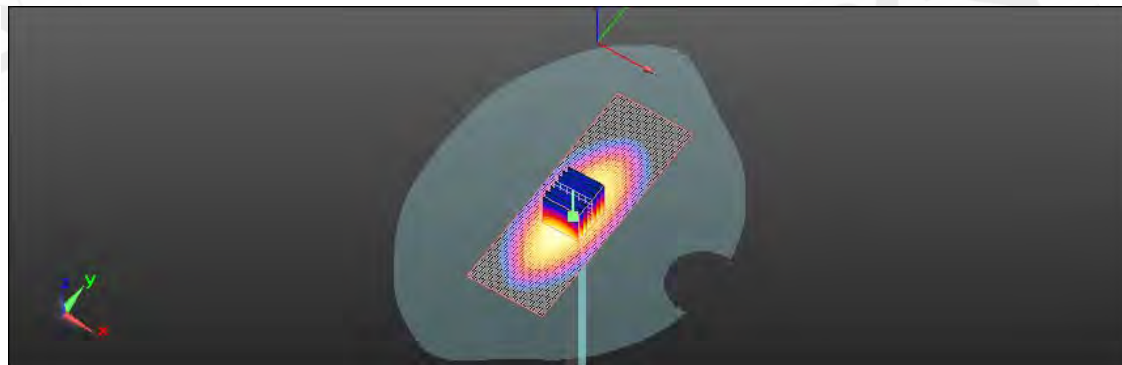
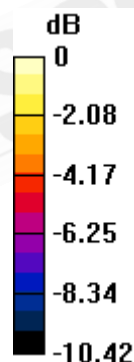
dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.713 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.607 W/kg

SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.55 mW/g

Maximum value of SAR (measured) = 2.578 mW/g



0 dB = 2.580mW/g

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Date: 08/05/2011

DUT: Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.961 \text{ mho/m}$; $\epsilon_r = 53.418$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 12/13/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration / d=15mm, Pin=250mW, dist=4mm : Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.629 mW/g

Configuration / d=15mm, Pin=250mW, dist=4mm : Measurement grid:

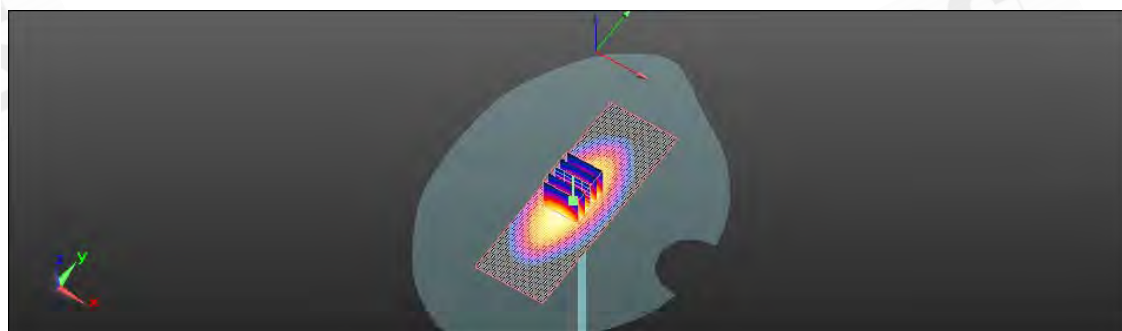
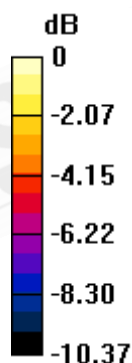
dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.092 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.679 W/kg

SAR(1 g) = 2.45 mW/g; SAR(10 g) = 1.6 mW/g

Maximum value of SAR (measured) = 2.649 mW/g



0 dB = 2.650mW/g

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Date: 09/05/2011

DUT: Dipole 1900 MHz

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.427$ mho/m; $\epsilon_r = 39.487$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection), Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration /d=10mm, Pin=250mW, dist=4mm: Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.028 mW/g

Configuration /d=10mm, Pin=250mW, dist=4mm: Measurement grid:

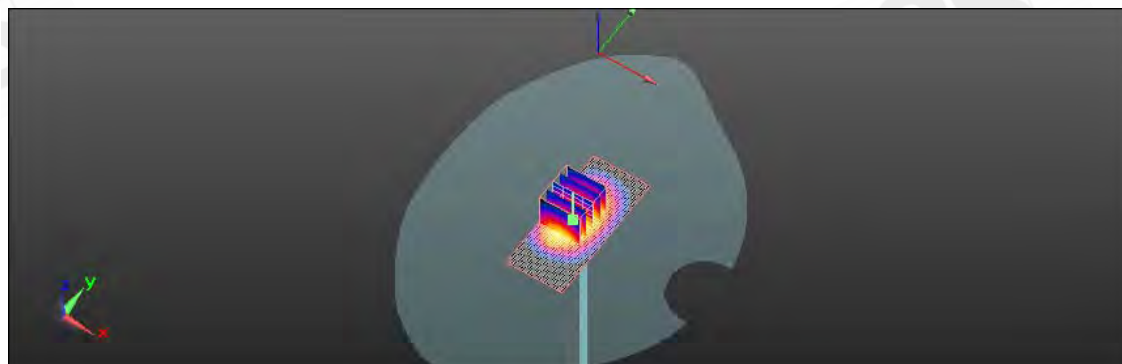
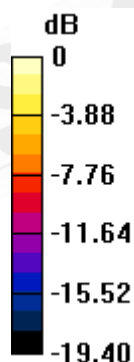
dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.154 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 19.554 W/kg

SAR(1 g) = 10.1 mW/g; SAR(10 g) = 4.98 mW/g

Maximum value of SAR (measured) = 12.318 mW/g



0 dB = 12.320mW/g

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Date: 09/05/2011

DUT: Dipole 1900 MHz

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.529$ mho/m; $\epsilon_r = 52.619$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 5/27/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration / d=10mm, Pin=250mW, dist=4mm: Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.799 mW/g

Configuration / d=10mm, Pin=250mW, dist=4mm: Measurement grid:

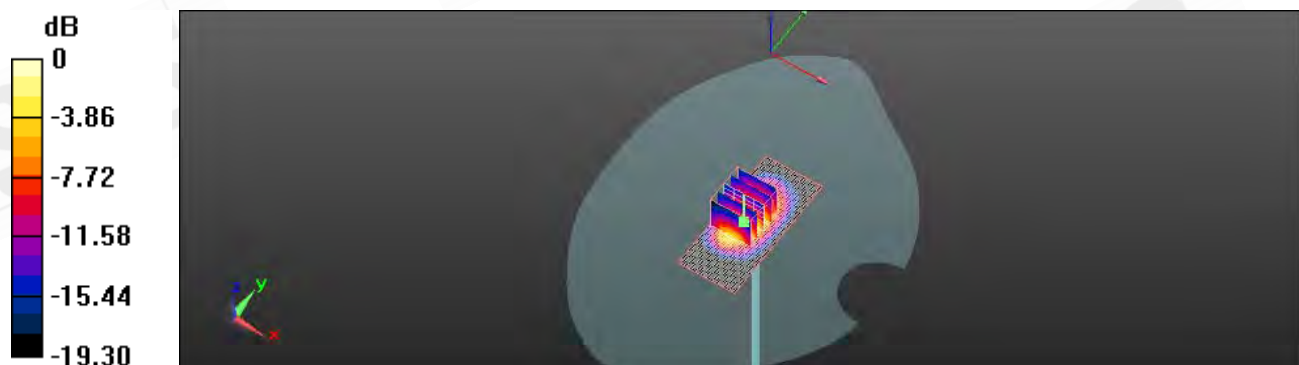
dx=8mm, dy=8mm, dz=5mm

Reference Value = 94.098 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 20.133 W/kg

SAR(1 g) = 10.3 mW/g; SAR(10 g) = 4.96 mW/g

Maximum value of SAR (measured) = 12.591 mW/g



0 dB = 12.590mW/g

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Date: 10/06/2011

DUT: Dipole 2450 MHz

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.767$ mho/m; $\epsilon_r = 39.915$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.38, 4.38, 4.38); Calibrated: 6/23/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Configuration /d=15mm, Pin=250mW, dist=3.4mm : Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 21.281 mW/g

Configuration /d=15mm, Pin=250mW, dist=3.4mm : Measurement grid:

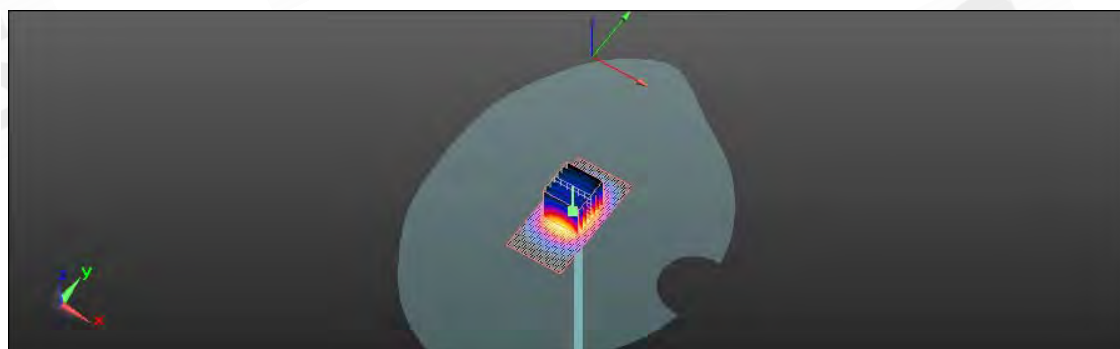
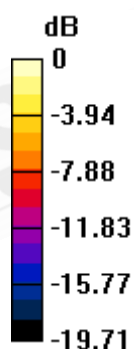
dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.319 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 28.692 W/kg

SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.04 mW/g

Maximum value of SAR (measured) = 16.791 mW/g



0 dB = 16.790mW/g

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Date: 11/05/2011

DUT: Dipole 2450 MHz

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.982$ mho/m; $\epsilon_r = 52.08$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.11, 4.11, 4.11); Calibrated: 5/21/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 6/18/2010
- Phantom: SAM with CRP Right; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration / d=10mm, Pin=250mW, dist=3mm : Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 15.387 mW/g

Configuration / d=10mm, Pin=250mW, dist=3mm : Measurement grid:

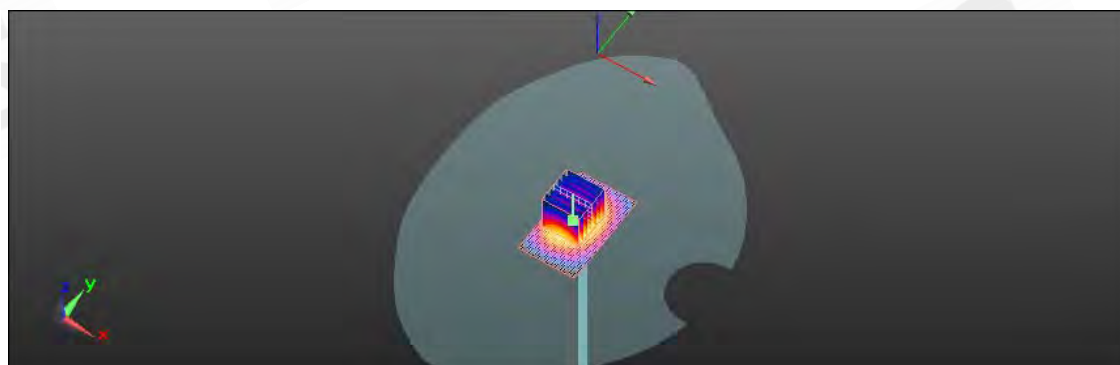
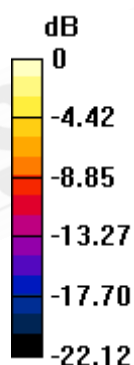
dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.877 V/m; Power Drift = 0.0043 dB

Peak SAR (extrapolated) = 29.267 W/kg

SAR(1 g) = 13.1 mW/g; SAR(10 g) = 5.94 mW/g

Maximum value of SAR (measured) = 13.387 mW/g



0 dB = 13.390mW/g

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6. DAE & Probe Calibration certificate

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Auden**

Certificate No: **DAE4-679_Jun10**

CALIBRATION CERTIFICATE

Object **DAE4 - SD 000 D04 BJ - SN: 679**

Calibration procedure(s) **QA CAL-06.v21
Calibration procedure for the data acquisition electronics (DAE)**

Calibration date: **June 18, 2010**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	1-Oct-09 (No: 9055)	Oct-10
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Calibrator Box V1.1	SE UMS 006 AB 1004	07-Jun-10 (in house check)	In house check: Jun-11

Calibrated by:	Name Dominique Steffen	Function Technician	Signature
Approved by:	Fin Bomholt	R&D Director	

Issued: June 18, 2010

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: DAE4-679_Jun10

Page 1 of 5

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Glossary

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- **DC Voltage Measurement:** Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- **Connector angle:** The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - **DC Voltage Measurement Linearity:** Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - **Common mode sensitivity:** Influence of a positive or negative common mode voltage on the differential measurement.
 - **Channel separation:** Influence of a voltage on the neighbor channels not subject to an input voltage.
 - **AD Converter Values with inputs shorted:** Values on the internal AD converter corresponding to zero input voltage
 - **Input Offset Measurement:** Output voltage and statistical results over a large number of zero voltage measurements.
 - **Input Offset Current:** Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - **Input resistance:** DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - **Low Battery Alarm Voltage:** Typical value for information. Below this voltage, a battery alarm signal is generated.
 - **Power consumption:** Typical value for information. Supply currents in various operating modes.

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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 μ V, full range = -100...+300 mV

Low Range: 1LSB = 61nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	404.456 $\pm$ 0.1% (k=2)	404.894 $\pm$ 0.1% (k=2)	405.047 $\pm$ 0.1% (k=2)
Low Range	3.98219 $\pm$ 0.7% (k=2)	3.96047 $\pm$ 0.7% (k=2)	3.98651 $\pm$ 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	317.5 $^{\circ}$ $\pm$ 1 $^{\circ}$
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Appendix

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	200008.9	-0.51	-0.00
Channel X + Input	20002.15	2.45	0.01
Channel X - Input	-19997.00	3.30	-0.02
Channel Y + Input	200005.4	-2.82	-0.00
Channel Y + Input	19998.66	-0.84	-0.00
Channel Y - Input	-20000.93	-0.63	0.00
Channel Z + Input	199994.0	-3.34	-0.00
Channel Z + Input	19996.77	-2.73	-0.01
Channel Z - Input	-20000.56	-0.46	0.00

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	1999.8	-0.33	-0.02
Channel X + Input	200.33	0.53	0.26
Channel X - Input	-198.90	1.00	-0.50
Channel Y + Input	2002.2	2.33	0.12
Channel Y + Input	199.54	-0.56	-0.28
Channel Y - Input	-201.11	-1.41	0.71
Channel Z + Input	1999.3	-0.62	-0.03
Channel Z + Input	198.98	-1.02	-0.51
Channel Z - Input	-201.03	-0.93	0.46

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	4.59	2.90
	- 200	-1.80	-3.12
Channel Y	200	4.83	4.13
	- 200	-5.43	-5.98
Channel Z	200	-5.94	-5.40
	- 200	4.21	4.14

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	1.61	0.02
Channel Y	200	2.28	-	3.02
Channel Z	200	1.25	0.43	-

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16144	15969
Channel Y	15469	15645
Channel Z	16045	16110

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10M Ω

	Average (μ V)	min. Offset (μ V)	max. Offset (μ V)	Std. Deviation (μ V)
Channel X	0.37	-2.86	2.95	0.66
Channel Y	-0.77	-2.80	1.56	0.72
Channel Z	-0.21	-1.78	1.76	0.59

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance

	Zeroing (MOhm)	Measuring (MOhm)
Channel X	0.2000	201.1
Channel Y	0.2000	199.5
Channel Z	0.1999	198.3

8. Low Battery Alarm Voltage (verified during pre test)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (verified during pre test)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.0	+6	+14
Supply (- Vcc)	-0.01	-8	-9

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Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS-TW (Auden)**

Certificate No: **EX3-3703_Jan11**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3703**

Calibration procedure(s) **QA CAL-01.v7, QA CAL-14.v3, QA CAL-23.v4 and QA CAL-25.v3
Calibration procedure for dosimetric E-field probes**

Calibration date: **January 24, 2011**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	1-Apr-10 (No. 217-01136)	Apr-11
Power sensor E4412A	MY41495277	1-Apr-10 (No. 217-01136)	Apr-11
Power sensor E4412A	MY41498087	1-Apr-10 (No. 217-01136)	Apr-11
Reference 3 dB Attenuator	SN: S5054 (3c)	30-Mar-10 (No. 217-01159)	Mar-11
Reference 20 dB Attenuator	SN: S5086 (20b)	30-Mar-10 (No. 217-01161)	Mar-11
Reference 30 dB Attenuator	SN: S5129 (30b)	30-Mar-10 (No. 217-01160)	Mar-11
Reference Probe ES3DV2	SN: 3013	29-Dec-10 (No. ES3-3013_Dec10)	Dec-11
DAE4	SN: 660	20-Apr-10 (No. DAE4-660_Apr10)	Apr-11

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-10)	In house check: Oct-11

	Name	Function	Signature
Calibrated by:	Katja Pokovic	Technical Manager	
Approved by:	Fin Bornholt	R&D Director	

Issued: January 25, 2011

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Certificate No: **EX3-3703_Jan11**

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Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C	modulation dependent linearization parameters
Polarization ϕ	ϕ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not effect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; VR_{x,y,z}**: A, B, C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

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EX3DV4 SN:3703

January 24, 2011

Probe EX3DV4

SN:3703

Manufactured:	July 21, 2009
Last calibrated:	December 30, 2009
Recalibrated:	January 24, 2011

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3703_Jan11

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EX3DV4 SN:3703

January 24, 2011

DASY/EASY - Parameters of Probe: EX3DV4 SN:3703**Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.52	0.52	0.54	± 10.1%
DCP (mV) ^B	98.8	94.8	99.6	

Modulation Calibration Parameters

UID	Communication System Name	PAR		A dB	B dBuV	C	VR mV	Unc ^E (k=2)
10000	CW	0.00	X	0.00	0.00	1.00	154.8	± 3.1 %
			Y	0.00	0.00	1.00	118.0	
			Z	0.00	0.00	1.00	156.4	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter; uncertainty not required.

^E Uncertainty is determined using the maximum deviation from linear response applying recatangular distribution and is expressed for the square of the field value.

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EX3DV4 SN:3703

January 24, 2011

DASY/EASY - Parameters of Probe: EX3DV4 SN:3703

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz]	Validity [MHz] ^C	Permittivity	Conductivity	ConvF X	ConvF Y	ConvF Z	Alpha	Depth Unc (k=2)
750	± 50 / ± 100	41.9 ± 5%	0.89 ± 5%	9.21	9.21	9.21	0.73	0.65 ± 11.0%
835	± 50 / ± 100	41.5 ± 5%	0.90 ± 5%	8.83	8.83	8.83	0.79	0.61 ± 11.0%
900	± 50 / ± 100	41.5 ± 5%	0.97 ± 5%	8.78	8.78	8.78	0.73	0.63 ± 11.0%
1750	± 50 / ± 100	40.1 ± 5%	1.37 ± 5%	8.02	8.02	8.02	0.50	0.71 ± 11.0%
1900	± 50 / ± 100	40.0 ± 5%	1.40 ± 5%	7.67	7.67	7.67	0.39	0.82 ± 11.0%
2000	± 50 / ± 100	40.0 ± 5%	1.40 ± 5%	7.63	7.63	7.63	0.35	0.86 ± 11.0%
2450	± 50 / ± 100	39.2 ± 5%	1.80 ± 5%	7.00	7.00	7.00	0.32	0.91 ± 11.0%
2600	± 50 / ± 100	39.0 ± 5%	1.96 ± 5%	6.75	6.75	6.75	0.30	1.02 ± 11.0%

^C The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

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EX3DV4 SN:3703

January 24, 2011

DASY/EASY - Parameters of Probe: EX3DV4 SN:3703

Calibration Parameter Determined in Body Tissue Simulating Media

f [MHz]	Validity [MHz] ^C	Permittivity	Conductivity	ConvF X	ConvF Y	ConvF Z	Alpha	Depth Unc (k=2)
750	± 50 / ± 100	55.5 ± 5%	0.96 ± 5%	9.06	9.06	9.06	0.57	0.73 ± 11.0%
835	± 50 / ± 100	55.2 ± 5%	0.97 ± 5%	8.85	8.85	8.85	0.46	0.83 ± 11.0%
900	± 50 / ± 100	55.0 ± 5%	1.05 ± 5%	8.74	8.74	8.74	0.45	0.83 ± 11.0%
1750	± 50 / ± 100	53.4 ± 5%	1.49 ± 5%	7.26	7.26	7.26	0.58	0.70 ± 11.0%
1900	± 50 / ± 100	53.3 ± 5%	1.52 ± 5%	7.04	7.04	7.04	0.44	0.82 ± 11.0%
2000	± 50 / ± 100	53.3 ± 5%	1.52 ± 5%	7.13	7.13	7.13	0.61	0.70 ± 11.0%
2450	± 50 / ± 100	52.7 ± 5%	1.95 ± 5%	6.82	6.82	6.82	0.41	0.82 ± 11.0%
2600	± 50 / ± 100	52.5 ± 5%	2.16 ± 5%	6.78	6.78	6.78	0.33	0.89 ± 11.0%
5200	± 50 / ± 100	49.0 ± 5%	5.30 ± 5%	4.00	4.00	4.00	0.50	1.95 ± 13.1%
5300	± 50 / ± 100	48.9 ± 5%	5.42 ± 5%	3.73	3.73	3.73	0.55	1.95 ± 13.1%
5600	± 50 / ± 100	48.5 ± 5%	5.77 ± 5%	3.42	3.42	3.42	0.65	1.95 ± 13.1%
5800	± 50 / ± 100	48.2 ± 5%	6.00 ± 5%	3.67	3.67	3.67	0.65	1.95 ± 13.1%

^C The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

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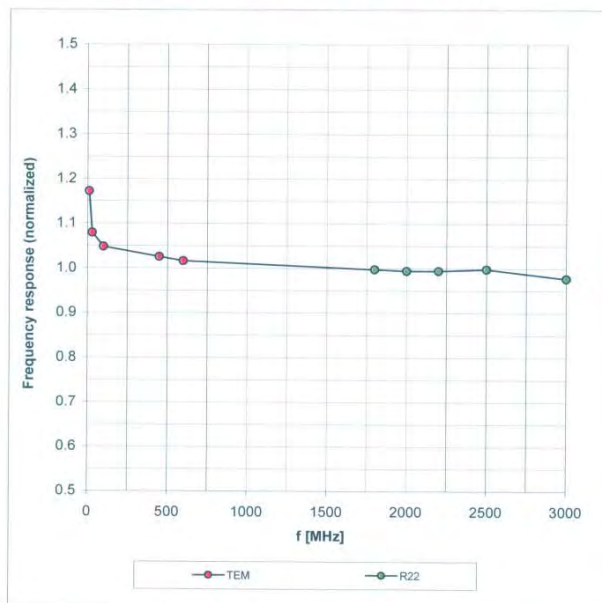
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January 24, 2011

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)

Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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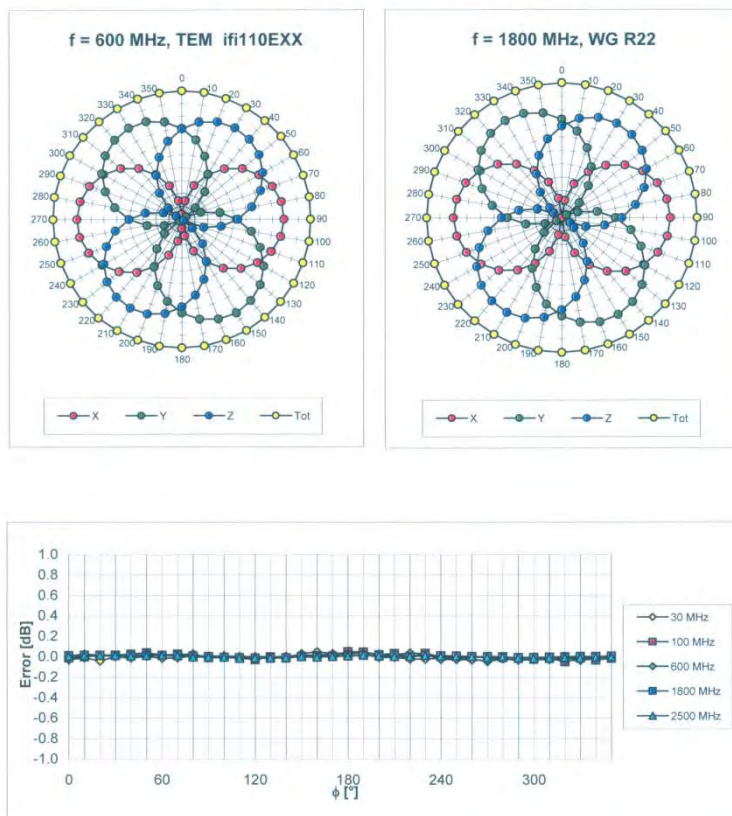
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January 24, 2011

Receiving Pattern (ϕ), $\vartheta = 0^\circ$



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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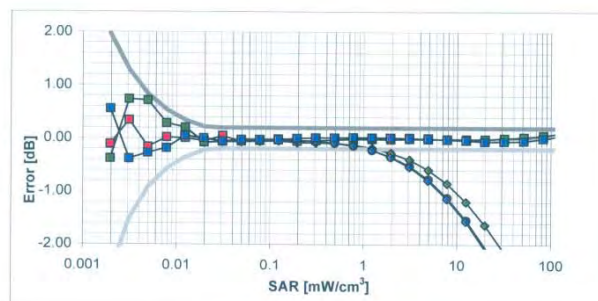
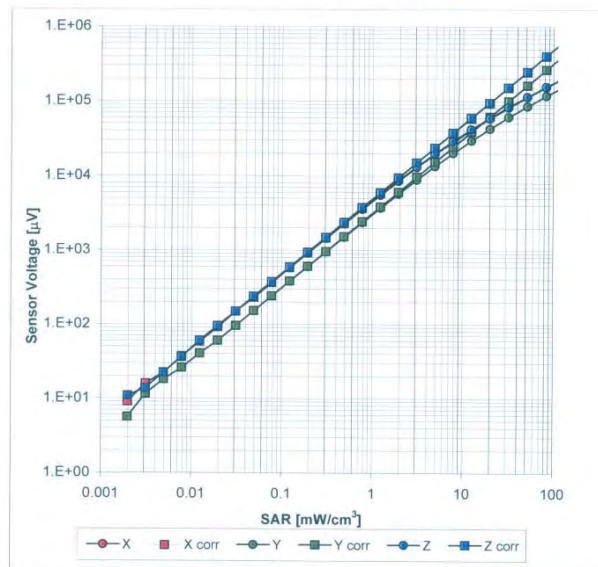
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January 24, 2011

Dynamic Range f(SAR_{head}) (TEM cell, f = 900 MHz)



Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

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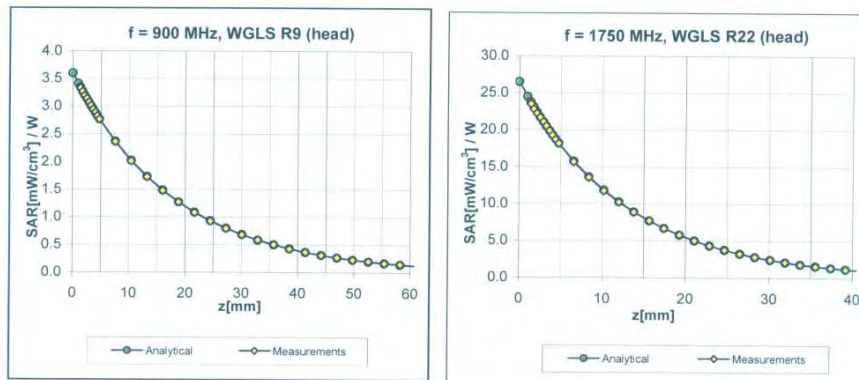
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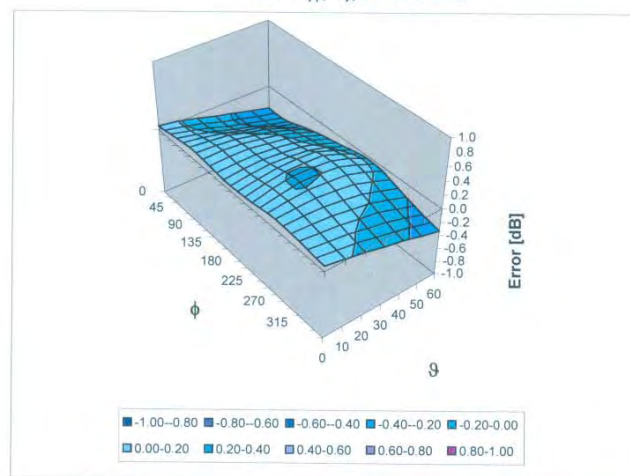
EX3DV4 SN:3703

January 24, 2011

Conversion Factor Assessment



Deviation from Isotropy in HSL

Error (ϕ , θ), $f = 900 \text{ MHz}$ Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)

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January 24, 2011

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	Not applicable
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	2 mm

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7. Uncertainty Budget

DASY5 Uncertainty Budget
According to IEEE 1528 [1]

Error Description	Uncertainty value	Prob. Dist.	Div.	(c_1) 1g	(c_1) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(c_2) v_{eff}
Measurement System								
Probe Calibration	±5.9%	N	1	1	1	±5.9%	±5.9%	∞
Axial Isotropy	±4.7%	R	√3	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical Isotropy	±9.6%	R	√3	0.7	0.7	±3.9%	±3.9%	∞
Boundary Effects	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Readout Electronics	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response Time	±0.8%	R	√3	1	1	±0.5%	±0.5%	∞
Integration Time	±2.6%	R	√3	1	1	±1.5%	±1.5%	∞
RF Ambient Noise	±3.0%	R	√3	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±3.0%	R	√3	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.4%	R	√3	1	1	±0.2%	±0.2%	∞
Probe Positioning	±2.9%	R	√3	1	1	±1.7%	±1.7%	∞
Max. SAR Eval.	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Test Sample Related								
Device Positioning	±2.9%	N	1	1	1	±2.9%	±2.9%	145
Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%	5
Power Drift	±5.0%	R	√3	1	1	±2.9%	±2.9%	∞
Phantom and Setup								
Phantom Uncertainty	±4.0%	R	√3	1	1	±2.3%	±2.3%	∞
Liquid Conductivity (target)	±5.0%	R	√3	0.64	0.43	±1.8%	±1.2%	∞
Liquid Conductivity (meas.)	±2.5%	N	1	0.64	0.43	±1.6%	±1.1%	∞
Liquid Permittivity (target)	±5.0%	R	√3	0.6	0.49	±1.7%	±1.4%	∞
Liquid Permittivity (meas.)	±2.5%	N	1	0.6	0.49	±1.5%	±1.2%	∞
Combined Std. Uncertainty						±10.9%	±10.7%	387
Expanded STD Uncertainty						±21.0%	±21.4%	

Table 19.6: Worst-Case uncertainty budget for DASY5 assessed according to IEEE 1528 [1]. The budget is valid for the frequency range 300 MHz - 3 GHz and represents a worst-case analysis. For specific tests and configurations, the uncertainty could be considerable smaller.

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8. Phantom description

Schmid & Partner Engineering AG

s p e a g

Zeughausstrasse 43, 8004 Zurich, Switzerland
Phone +41 1 245 9700, Fax +41 1 245 9779
info@speag.com, http://www.speag.com

Certificate of Conformity / First Article Inspection

Item	SAM Twin Phantom V4.0
Type No	QD 000 P40 C
Series No	TP-1150 and higher
Manufacturer	SPEAG Zeughausstrasse 43 CH-8004 Zurich Switzerland

Tests

The series production process used allows the limitation to test of first articles.

Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series items (called samples) or are tested at each item.

Test	Requirement	Details	Units tested
Dimensions	Compliant with the geometry according to the CAD model.	IT'S CAD File (*)	First article, Samples
Material thickness of shell	Compliant with the requirements according to the standards	2mm +/- 0.2mm in flat and specific areas of head section	First article, Samples, TP-1314 ff.
Material thickness at ERP	Compliant with the requirements according to the standards	6mm +/- 0.2mm at ERP	First article, All items
Material parameters	Dielectric parameters for required frequencies	300 MHz – 6 GHz: Relative permittivity < 5, Loss tangent < 0.05	Material samples
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards if handled and cleaned according to the instructions. Observe technical Note for material compatibility.	DEGMBE based simulating liquids	Pre-series, First article, Material samples
Sagging	Compliant with the requirements according to the standards. Sagging of the flat section when filled with tissue simulating liquid.	< 1% typical < 0.8% if filled with 155mm of HSL900 and without DUT below	Prototypes, Sample testing

Standards

[1] CENELEC EN 50381

[2] IEEE Std 1528-2003

[3] IEC 62209 Part I

[4] FCC OET Bulletin 65, Supplement C, Edition 01-01

(*) The IT'S CAD file is derived from [2] and is also within the tolerance requirements of the shapes of the other documents.

Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standards [1] to [4].

Date

07.07.2005

Signature / Stamp

s p e a g

Schmid & Partner Engineering AG
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info@speag.com, http://www.speag.com

Doc No 881 – QD 000 P40 C – F

Page (1)

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9. System Validation from Original equipment supplier

**Calibration Laboratory of
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The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **ATL (Auden)**

Certificate No: **D835V2-4d082_Jul10**

CALIBRATION CERTIFICATE																																															
Object	D835V2 - SN: 4d082																																														
Calibration procedure(s)	QA CAL-05.v7 Calibration procedure for dipole validation kits																																														
Calibration date:	July 20, 2010																																														
This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) <table border="1"> <thead> <tr> <th>Primary Standards</th> <th>ID #</th> <th>Cal Date (Certificate No.)</th> <th>Scheduled Calibration</th> </tr> </thead> <tbody> <tr> <td>Power meter EPM-442A</td> <td>GB37480704</td> <td>06-Oct-09 (No. 217-01086)</td> <td>Oct-10</td> </tr> <tr> <td>Power sensor HP 8481A</td> <td>US37292783</td> <td>06-Oct-09 (No. 217-01086)</td> <td>Oct-10</td> </tr> <tr> <td>Reference 20 dB Attenuator</td> <td>SN: 5086 (20g)</td> <td>30-Mar-10 (No. 217-01158)</td> <td>Mar-11</td> </tr> <tr> <td>Type-N mismatch combination</td> <td>SN: 5047.2 / 06327</td> <td>30-Mar-10 (No. 217-01162)</td> <td>Mar-11</td> </tr> <tr> <td>Reference Probe ES3DV3</td> <td>SN: 3205</td> <td>30-Apr-10 (No. ES3-3205_Apr10)</td> <td>Apr-11</td> </tr> <tr> <td>DAE4</td> <td>SN: 601</td> <td>10-Jun-10 (No. DAE4-601_Jun10)</td> <td>Jun-11</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Secondary Standards</th> <th>ID #</th> <th>Check Date (in house)</th> <th>Scheduled Check</th> </tr> </thead> <tbody> <tr> <td>Power sensor HP 8481A</td> <td>MY41092317</td> <td>18-Oct-02 (in house check Oct-09)</td> <td>In house check: Oct-11</td> </tr> <tr> <td>RF generator R&S SMT-06</td> <td>100005</td> <td>4-Aug-99 (in house check Oct-09)</td> <td>In house check: Oct-11</td> </tr> <tr> <td>Network Analyzer HP 8753E</td> <td>US37390585 S4206</td> <td>18-Oct-01 (in house check Oct-09)</td> <td>In house check: Oct-10</td> </tr> </tbody> </table>				Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration	Power meter EPM-442A	GB37480704	06-Oct-09 (No. 217-01086)	Oct-10	Power sensor HP 8481A	US37292783	06-Oct-09 (No. 217-01086)	Oct-10	Reference 20 dB Attenuator	SN: 5086 (20g)	30-Mar-10 (No. 217-01158)	Mar-11	Type-N mismatch combination	SN: 5047.2 / 06327	30-Mar-10 (No. 217-01162)	Mar-11	Reference Probe ES3DV3	SN: 3205	30-Apr-10 (No. ES3-3205_Apr10)	Apr-11	DAE4	SN: 601	10-Jun-10 (No. DAE4-601_Jun10)	Jun-11	Secondary Standards	ID #	Check Date (in house)	Scheduled Check	Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-09)	In house check: Oct-11	RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-09)	In house check: Oct-11	Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-09)	In house check: Oct-10
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Calibrated by:	Name Dimce Iliev	Function Laboratory Technician	Signature 																																												
Approved by:	Katja Pokovic	Technical Manager																																													
This calibration certificate shall not be reproduced except in full without written approval of the laboratory. Issued: July 20, 2010																																															

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C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

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Accreditation No.: **SCS 108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

Certificate No: D835V2-4d082_Jul10

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.2
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V4.9	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	42.0 $\pm$ 6 %	0.90 mho/m $\pm$ 6 %
Head TSL temperature during test	(23.1 $\pm$ 0.2) °C	----	-----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.40 mW / g
SAR normalized	normalized to 1W	9.60 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	9.65 mW / g $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.56 mW / g
SAR normalized	normalized to 1W	6.24 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	6.26 mW / g $\pm$ 16.5 % (k=2)

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Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.0 ± 6 %	1.01 mho/m ± 6 %
Body TSL temperature during test	(22.0 ± 0.2) °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL		
	Condition	
SAR measured	250 mW input power	2.58 mW / g
SAR normalized	normalized to 1W	10.3 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	10.0 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL		
	condition	
SAR measured	250 mW input power	1.69 mW / g
SAR normalized	normalized to 1W	6.76 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	6.60 mW / g ± 16.5 % (k=2)

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Appendix**Antenna Parameters with Head TSL**

Impedance, transformed to feed point	51.7 Ω - 3.2 j Ω
Return Loss	- 29.0 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.3 Ω - 4.6 j Ω
Return Loss	- 26.0 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.389ns
----------------------------------	---------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	October 17, 2008

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DASY5 Validation Report for Head TSL

Date/Time: 20.07.2010 15:48:57

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d082

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL900

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.03, 6.03, 6.03); Calibrated: 30.04.2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 10.06.2010
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- Measurement SW: DASY52, V52.2 Build 0, Version 52.2.0 (163)
- Postprocessing SW: SEMCAD X, V14.2 Build 2, Version 14.2.2 (1685)

Pin=250 mW /d=15mm, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) /Cube 0: Measurement

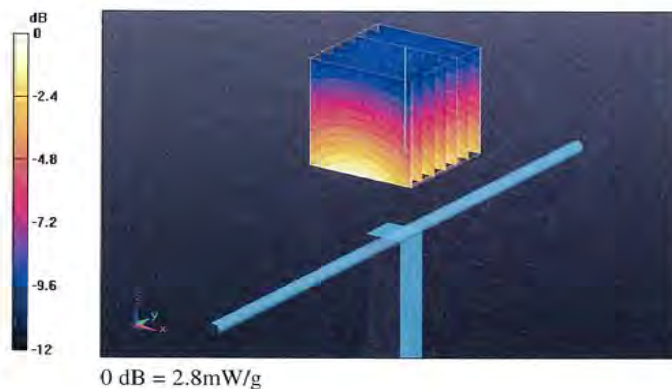
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.1 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 2.4 mW/g; SAR(10 g) = 1.56 mW/g

Maximum value of SAR (measured) = 2.8 mW/g

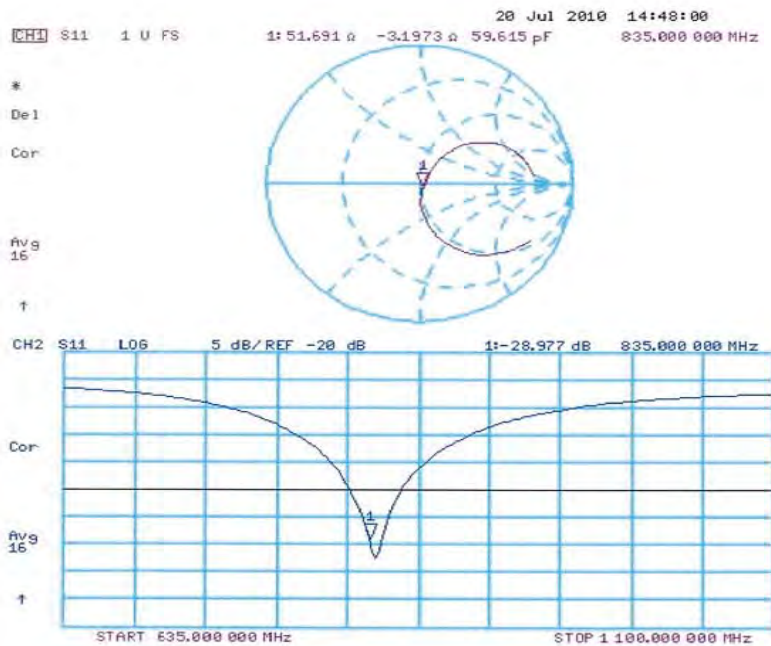


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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body

Date/Time: 20.07.2010 12:03:13

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d082

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL900

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(5.86, 5.86, 5.86); Calibrated: 30.04.2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 10.06.2010
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- Measurement SW: DASY52, V52.2 Build 0, Version 52.2.0 (163)
- Postprocessing SW: SEMCAD X, V14.2 Build 2, Version 14.2.2 (1685)

Pin=250 mW /d=15mm, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) /Cube 0: Measurement

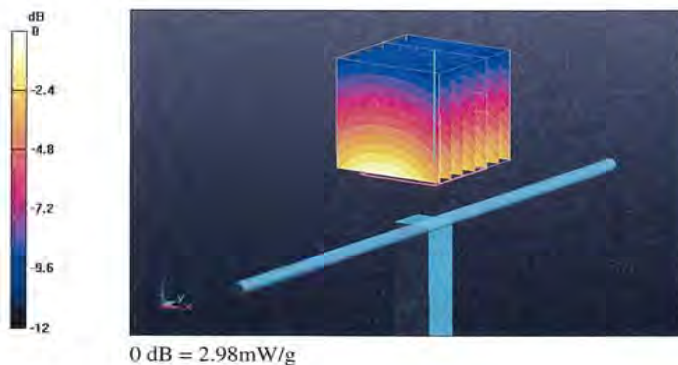
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.1 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 3.81 W/kg

SAR(1 g) = 2.58 mW/g; SAR(10 g) = 1.69 mW/g

Maximum value of SAR (measured) = 2.98 mW/g



Certificate No: D835V2-4d082_Jul10

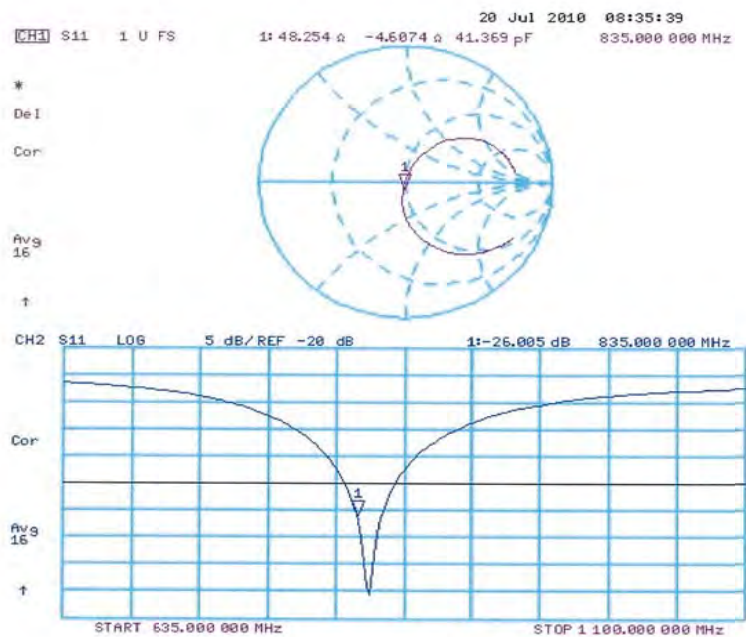
Page 8 of 9

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Impedance Measurement Plot for Body TSL



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Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Client SGS TW (Auden)

Certificate No: D1900V2-5d027_Apr11

CALIBRATION CERTIFICATE

Object D1900V2 - SN: 5d027

Calibration procedure(s) QA CAL-05.v8
Calibration procedure for dipole validation kits

Calibration date: April 19, 2011

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	06-Oct-10 (No. 217-01266)	Oct-11
Power sensor HP 8481A	US37292783	06-Oct-10 (No. 217-01266)	Oct-11
Reference 20 dB Attenuator	SN: 5086 (20g)	29-Mar-11 (No. 217-01368)	Apr-12
Type-N mismatch combination	SN: 5047.2 / 06327	29-Mar-11 (No. 217-01371)	Apr-12
Reference Probe ES3DV3	SN: 3205	30-Apr-10 (No. ES3-3205_Apr10)	Apr-11
DAE4	SN: 601	10-Jun-10 (No. DAE4-601_Jun10)	Jun-11
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-09)	In house check: Oct-11
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-10)	In house check: Oct-11

Calibrated by: Name Claudio Leubler Function Laboratory Technician

Approved by: Katja Pokovic Technical Manager

Issued: April 19, 2011

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D1900V2-5d027_Apr11

Page 1 of 9

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.6.2
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	38.9 $\pm$ 6 %	1.41 mho/m $\pm$ 6 %
Head TSL temperature during test	(21.0 $\pm$ 0.2) °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	10.1 mW / g
SAR normalized	normalized to 1W	40.4 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	40.1 mW / g $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.26 mW / g
SAR normalized	normalized to 1W	21.0 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	20.9 mW / g $\pm$ 16.5 % (k=2)

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Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.1 ± 6 %	1.52 mho/m ± 6 %
Body TSL temperature during test	(21.8 ± 0.2) °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.93 mW / g
SAR normalized	normalized to 1W	39.7 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	39.4 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.18 mW / g
SAR normalized	normalized to 1W	20.7 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	20.6 mW / g ± 16.5 % (k=2)

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Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$51.8 \Omega + 6.4 j\Omega$
Return Loss	- 23.7 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	$48.1 \Omega + 6.6 j\Omega$
Return Loss	- 23.1 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.194 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	December 17, 2002

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DASY5 Validation Report for Head TSL

Date/Time: 18.04.2011 15:27:22

Test Laboratory: SPEAG, Zurich, Switzerland

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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL U12 BB

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(5.09, 5.09, 5.09); Calibrated: 30.04.2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 10.06.2010
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- Measurement SW: DASY52, V52.6.2 Build (424)
- Postprocessing SW: SEMCAD X, V14.4.2 Build (2829)

Pin=250 mW, Cube 0:

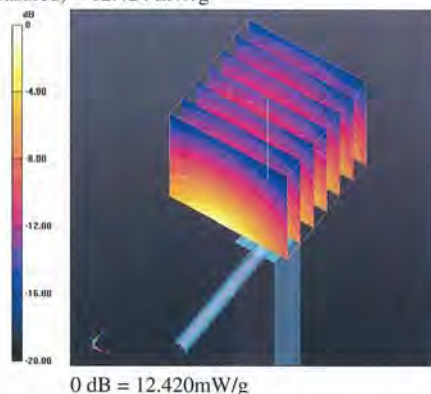
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 97.235 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 18.650 W/kg

SAR(1 g) = 10.1 mW/g; SAR(10 g) = 5.26 mW/g

Maximum value of SAR (measured) = 12.424 mW/g

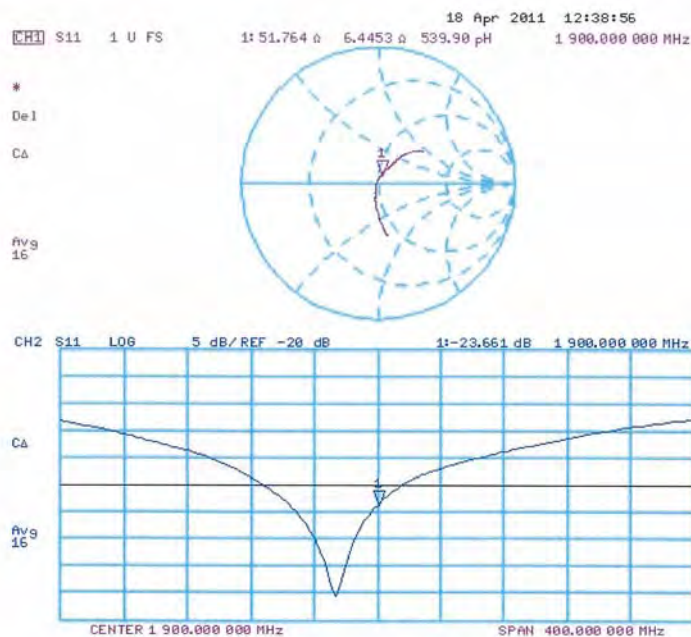


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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date/Time: 19.04.2011 12:53:51

Test Laboratory: SPEAG, Zurich, Switzerland

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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL U12 BB

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.59, 4.59, 4.59); Calibrated: 30.04.2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 10.06.2010
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- Measurement SW: DASY52, V52.6.2 Build (424)
- Postprocessing SW: SEMCAD X, V14.4.2 Build (2829)

Pin=250 mW, Cube 0:

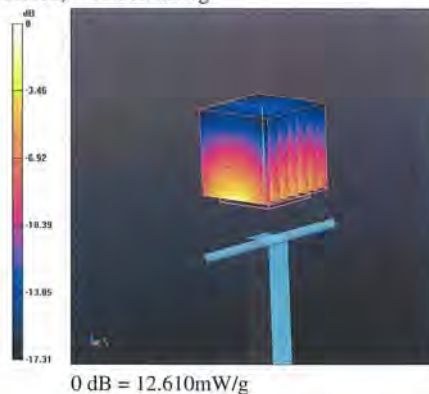
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.170 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.156 W/kg

SAR(1 g) = 9.93 mW/g; SAR(10 g) = 5.18 mW/g

Maximum value of SAR (measured) = 12.615 mW/g

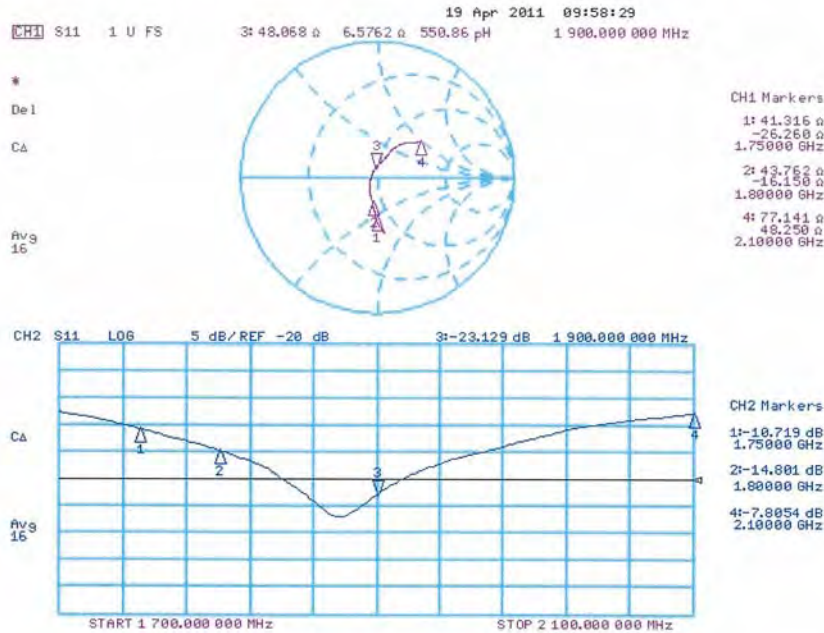


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Impedance Measurement Plot for Body TSL



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Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



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The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS TW (Auden)**

Certificate No: **D2450V2- 727_Apr11**

CALIBRATION CERTIFICATE

Object **D2450V2 - SN: 727**

Calibration procedure(s) **QA CAL-05.v8**
Calibration procedure for dipole validation kits

Calibration date: **April 19, 2011**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	06-Oct-10 (No. 217-01266)	Oct-11
Power sensor HP 8481A	US37292783	06-Oct-10 (No. 217-01266)	Oct-11
Reference 20 dB Attenuator	SN: 5086 (20g)	29-Mar-11 (No. 217-01368)	Apr-12
Type-N mismatch combination	SN: 5047.2 / 06327	29-Mar-11 (No. 217-01371)	Apr-12
Reference Probe ES3DV3	SN: 3205	30-Apr-10 (No. ES3-3205_Apr10)	Apr-11
DAE4	SN: 601	10-Jun-10 (No. DAE4-601_Jun10)	Jun-11
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-09)	In house check: Oct-11
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-10)	In house check: Oct-11

Calibrated by: **Claudio Leubler** **Laboratory Technician**

Approved by: **Katja Pokovic** **Technical Manager**

Issued: April 19, 2011

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D2450V2-727_Apr11

Page 1 of 9

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Accreditation No.: SCS 108

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.6.2
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	38.7 $\pm$ 6 %	1.72 mho/m $\pm$ 6 %
Head TSL temperature during test	(21.0 $\pm$ 0.2) °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.7 mW / g
SAR normalized	normalized to 1W	54.8 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	55.8 mW / g $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.39 mW / g
SAR normalized	normalized to 1W	25.6 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	25.7 mW / g $\pm$ 16.5 % (k=2)

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Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	50.6 ± 6 %	1.91 mho/m ± 6 %
Body TSL temperature during test	(21.5 ± 0.2) °C	---	---

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.7 mW / g
SAR normalized	normalized to 1W	50.8 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	50.8 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.84 mW / g
SAR normalized	normalized to 1W	23.4 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	23.3 mW / g ± 16.5 % (k=2)

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Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$54.3 \Omega + 2.0 j\Omega$
Return Loss	- 26.9 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	$49.9 \Omega + 3.7 j\Omega$
Return Loss	- 28.6 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.149 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	January 9, 2003

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DASY5 Validation Report for Head TSL

Date/Time: 18.04.2011 16:55:19

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL U12 BB

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.74$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.53, 4.53, 4.53); Calibrated: 30.04.2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 10.06.2010
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- Measurement SW: DASY52, V52.6.2 Build (424)
- Postprocessing SW: SEMCAD X, V14.4.2 Build (2829)

Pin=250 mW, Cube 0:

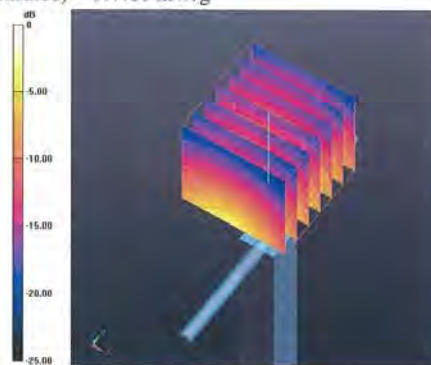
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.6 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 27.919 W/kg

SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.39 mW/g

Maximum value of SAR (measured) = 17.401 mW/g

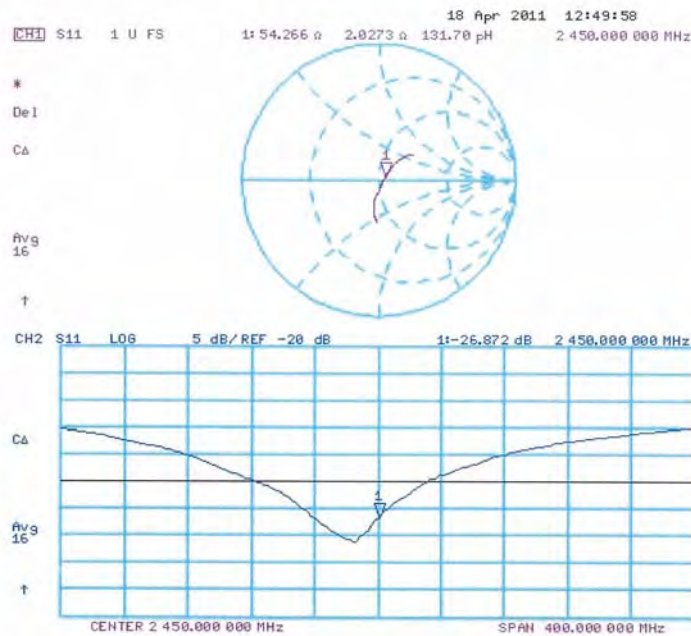


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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date/Time: 19.04.2011 14:37:11

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL U12 BB

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.91 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.31, 4.31, 4.31); Calibrated: 30.04.2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 10.06.2010
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- Measurement SW: DASY52, V52.6.2 Build (424)
- Postprocessing SW: SEMCAD X, V14.4.2 Build (2829)

Pin=250 mW, Cube 0:

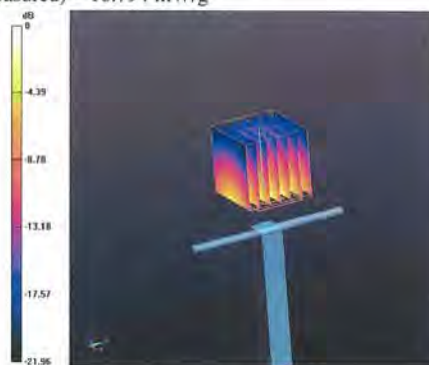
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 96.949 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 26.888 W/kg

SAR(1 g) = 12.7 mW/g; SAR(10 g) = 5.84 mW/g

Maximum value of SAR (measured) = 16.794 mW/g

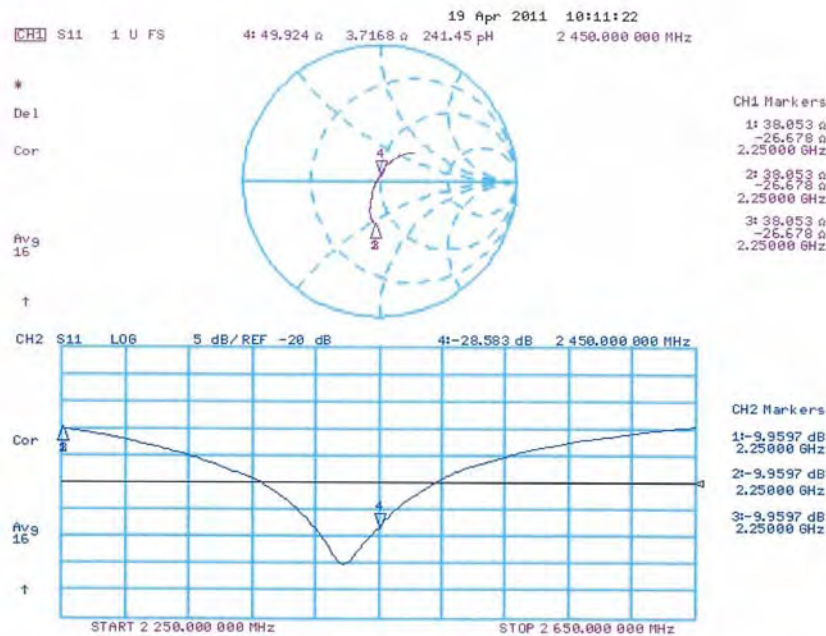


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Impedance Measurement Plot for Body TSL

End of 1st part of report

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