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SAR TEST REPORT

Equipment Under Test	cdma2000 Mobile phone & Bluetooth		
Product Name	CDMA TSX01		
Marketing Name	Dots Obsession, Full Happiness with Dots		
Model Name	Dot		
Company Name	Toshiba Corporation, Mobile Communications Co., Quality Management Division		
Company Address	1-1, Asahigaoka 3-Chome, Hino-Shi, Tokyo, 191-8555,Japan		
Date of Receipt	2008.12.10		
Date of Test(s)	2008.12.12-200812.15;2009.05.07		
Date of Issue	2009.05.13		

Standards:

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

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

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

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Tested by : Ricky Huang

Asst. Supervisor

2009.05.13

Approved by : Nick Hsu

Supervisor

Date

2009.05.13

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nick Hou

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台灣檢驗科技股份有限公司

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1. General Information

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1.1 Testing Laboratory

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134, Wu Kung Road, Wuku industrial zone			
Taipei county, Taiw	an, R.O.C.		
Telephone	+886-2-2299-3279		
Fax	+886-2-2298-0488		
Internet	http://www.tw.sgs.com/		

1.2 Details of Applicant

Company Name	Toshiba Corporation, Mobile Communications Co., Quality Management Division		
Company Address	1-1, Asahigaoka 3-Chome, Hino-Shi, Tokyo, 191-8555,Japan		
Contact Person	Takao Kamei		
TEL	+81-42-585-3180		
Fax	+81-42-585-3285		
E-mail	takao.kamei@toshiba.co.jp		

1.3 Description of EUT

EUT Name	cdma2000 Mobile phone & Bluetooth		
Product Name	CDMA TSX01		
FCC ID	WVS-CN10-J01		
Model Name	Dot		
Marketing Name	Dots Obsession, Full Happiness with Dots		
MEID	A000006E70724		

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Mode of Operation	Cellular Band				
Definition	Production unit				
Duty Cycle	Cel	lular			
		1			
Maximum RF Conducted Power	Cel	llular			
(Average)	24.4	8dbm			
TX Frequency Range	Cel	lular			
(MHz)	824.7	-848.31			
Channel Number		lular			
(ARFCN)		3-777			
Battery Type	3.7 V Lit	thium-Ion			
Antenna Type	Internal	Antenna			
	Second & Third	& Fourth solution			
	(change housing colors)				
	This model Dot defined four colors for housing, in order				
Declaration	to find SAR value of second & third solutions and Fourth				
	solution whether the same with main solution, we used				
	spot-check method to check it. Finally, the check result,				
	Cellular Band was within 20	% deviation.			
	Orignal	solution			
	Head	Body			
Max. SAR Measured (1 g)	O.381 mW/g (At Cellular Band_Right Head (Cheek Position)_ 384 Channel_repeated with Memory card) O.840 mW/g (At Cellular Band_Body 384 Channel)				
	Second solution				
Max. SAR Measured	Head Body				
(1 g)	0.358 mW/g (At Cellular Band_Right Head (Cheek Position)_ 384 Channel_repeated with	0.879 mW/g (At Cellular Band_Body 384 Channel)			

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		rage. 5	
	Memory card)	_	
	Third solution		
	Head	Body	
Max. SAR Measured (1 g)	0.364 mW/g (At Cellular Band_Right Head (Cheek Position)_384 Channel_repeated with Memory card)	0.872 mW/g (At Cellular Band_Body 384 Channel)	
	Fourth solution		
	Head	Body	
Max. SAR Measured (1 g)	0.330 mW/g (At Cellular Band_Right Head (Cheek Position)_384 Channel_repeated with Memory card)	0.953 mW/g (At Cellular Band_Body 384 Channel)	

1.4 Test Environment

Ambient Temperature: 22±2° C Tissue Simulating Liquid: 22±2° C

1.5 Operation description

General:

- 1. The EUT is controlled by using a Radio Communication Tester (R&S CMU200), and the communication between the EUT and the tester is established by air link. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- 2. During the SAR testing, the DASY4 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.

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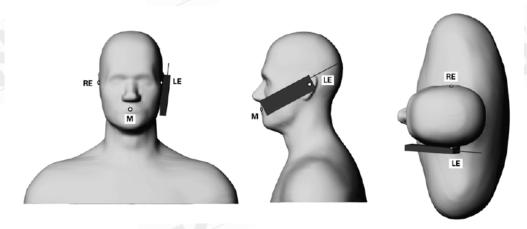
3. Testing Head SAR at lowest, middle and highest channel for all bands with LET/LEC/RET/REC conditions.

- 4. Testing body-worn SAR by separating 1.5cm between back side of EUT to flat phantom.
- 5. Due to the output power of Bluetooth is 1mWatt, which is less than 60/f limit, no SAR measurement is needed.

Additional configuration (Head):

- 6. For highest SAR configuration in this band repeated with external Memory card inside. Additional configuration (Body):
- 7. For highest SAR configuration in this band repeated with external Memory card inside.
- 8. For highest SAR configuration in this band repeated with headset.

1.6 Positioning Procedure



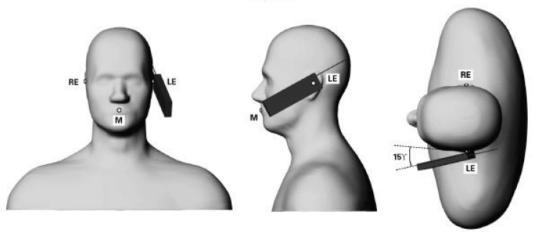
Phone position 1, "cheek" or "touch" position. The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning

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

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

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

1.7 EVALUATION PROCEDURES

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

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

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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

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans.

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

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

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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 4 professional system). A Model EX3DV3 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|²)/ ρ where σ and p are the conductivity and mass density of the tissue-simulant.

A photograph of the SAR measurement System is given in Fig. a. This SAR Measurement

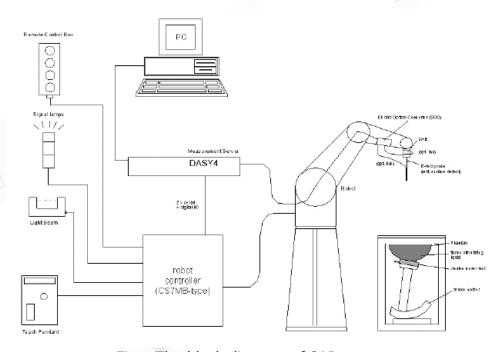


Fig.a The block diagram of SAR system

The DASY4 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

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

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

EX3DV3 E-Field Probe

Construction:	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)			
Calibration:	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL850 Additional CF for other liquids and frequencies upon request			
		EX3DV3 E-Field Probe		
Frequency:	10 MHz to > 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)			
Directivity:	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)			

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Dynamic Range:	10 μ W/g to > 100 mW/g;
,	Linearity: \pm 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
	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

SAM PHANTOM V4.0C

Filling Volume: Dimensions:	Approx. 25 liters Height: 251 mm; Length: 1000 mm; Width: 500 mm		
Shell Thickness:			
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.		

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DEVICE HOLDER

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



Device Holder

1.10 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 5% from the target SAR values. These tests were done at 850 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 22.2°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.

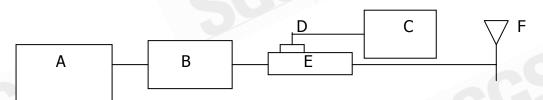


Fig.b The block diagram for SAR system verification

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



Photograph of the dipole Antenna

Validation Kit	Frequency (MHz)	Target SAR (1g) (Pin=250mW)	Measured SAR (1g)	Variation	Measured Date
D835V2 S/N: 4d063	835 MHz (Head)	2.29 mW/g	2.35 mW/g	2%	2008/12/12
D835V2 S/N: 4d063	835 MHz (Body)	2.44 mW/g	2.47 mW/g	1%	2008/12/15
D835V2 S/N: 4d063	835 MHz (Head)	2.29 mW/g	2.27 mW/g	2%	2009/05/07
D835V2 S/N: 4d063	835 MHz (Body)	2.44 mW/g	2.36 mW/g	1%	2009/05/07

Table 1. Result of System validation

1.11 Tissue Simulant Fluid for the Frequency Band

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

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

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Fraguancy		Measurement date/		ielectric Pa	rameters	
Frequency (MHz)	Tissue type		Limits	0	σ (S/m)	Simulated Tissue
(141112)		Lillius	ρ	0 (3/111)	Temperature(° C)	
850	Head	Measured, 2008.12.12	43	0.897	21.7	
озо пеай		Recommended Limits	39.4-43.6	0.86-1.03	20-24	
850 Rody		Measured, 2008.12.15	56	0.954	21.7	
830	Body	Recommended Limits	52.3-57.8	0.92-1.1	20-24	
850	Head	Measured, 2009.05.07	42	0.876	21.7	
830	Heau	Recommended Limits	38.38-42.42	0.84-0.92	20-24	
850		Measured, 2009.05.07	52.4	0.958	21.7	
630	Body	Recommended Limits	50.73-56.07	0.94-1.04	20-24	

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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

Ingredient	850MHz (Head)	850MHz (Body)
DGMBE	Χ	Χ
Water	532.98 g	631.68 g
Salt	18.3 g	11.72 g
Preventol D-7	2.4 g	1.2 g
Cellulose	3.2 g	Χ
Sugar	766.0 g	600 g
Total	1 L	1 L
amount	(1.0kg)	(1.0kg)

Table 3. Recipes for tissue simulating liquid

1.12 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical

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and Electronics Engineers, Inc., New York, New York 10017.

These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

- (1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube). Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.
- (2) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for

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occupational/controlled exposure in paragraph (d)(1) of this section.(Table .6)

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

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

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Orignal solution measurement result **Cellular Band**

Right Head	Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb.	Liquid Temp[°C]	
	1010	004-	` ,				
	1013	824.7	24.36dbm	0.218	22.1	21.7	
850 MHz	384	836.52	24.45dbm	0.329	22.1	21.7	
	777	848.31	24.48dbm	0.3	22.1	21.7	
Left Head (0	Cheek Pos	sition)					
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]	
	1013	824.7	24.36dbm	0.186	22.1	21.7	
850 MHz	384	836.52	24.45dbm	0.289	22.1	21.7	
	777	848.31	24.48dbm	0.291	22.1	21.7	
Right Head	(15° Tilt	Position	n)				
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]	
	1013	824.7	24.36dbm	0.119	22.1	21.7	
850 MHz	384	836.52	24.45dbm	0.229	22.1	21.7	
	777	848.31	24.48dbm	0.201	22.1	21.7	
Left Head (*	15° Tilt Po	osition)					
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]	
	1013	824.7	24.36dbm	0.116	22.1	21.7	
850 MHz	384	836.52	24.45dbm	0.237	22.1	21.7	
	777	848.31	24.48dbm	0.2	22.1	21.7	

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					rage. I	0 01 01	
Right Head (Cheek Position)_repeated with Memory card							
Frequency	Channel	MHz	Conducted Output	Measured(W/kg) Amb. Lic		Liquid	
			Power (Average)	1g	Temp[°C]	Temp[°C]	
850 MHz	384	836.52	24.45dbm	0.381	22.1	21.7	
Body worn							
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid	
			Power (Average)	1g	Temp[°C]	Temp[°C]	
	1013	824.7	24.36dbm	0.459	22.1	21.7	
850 MHz	384	836.52	24.45dbm	0.840	22.1	21.7	
	777	848.31	24.48dbm	0.652	22.1	21.7	
Body worn_	Body worn_ repeated for EUT front to phantom						
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid	
			Power (Average)	1g	Temp[°C]	Temp[°C]	
850 MHz	384	836.52	24.45dbm	0.345	22.1	21.7	
Body worn_	repeated	d with N	lemory card				
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid	
			Power (Average)	1g	Temp[°C]	Temp[°C]	
850 MHz	384	836.52	24.45dbm	0.780	22.1	21.7	
Body worn_	Body worn_ repeated with headset						
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid	
			Power (Average)	1g	Temp[°C]	Temp[°C]	
850 MHz	384	836.52	24.45dbm	0.557	22.1	21.7	

Second solution measurement result

Cellular Band

Right Head (Cheek Position)_repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb.	Liquid Temp[°C]
850 MHz	384	836.52	` ' ' '	0.358	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Average)	1g	Temp[°C]	Temp[°C]
850 MHz	384	836.52	24.45dbm	0.879	22.1	21.7

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Third solution measurement result

Cellular Band

5.							
Right Head (Cheek Position)_repeated with Memory card							
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]	
850 MHz	384	836.52	24.45dbm	0.364	22.1	21.7	
Body worn	Body worn						
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid	
			Power (Average)	1g	Temp[°C]	Temp[°C]	
850 MHz	384	836.52	24.45dbm	0.872	22.1	21.7	

Fourth solution measurement result

Cellular Band

Right Head (Cheek Position)_repeated with Memory card						
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Average)	1g	Temp[°C]	Temp[°C]
850 MHz	384	836.52	24.45dbm	0.330	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Average)	1g	Temp[°C]	Temp[°C]
850 MHz	384	836.52	24.45dbm	0.953	22.1	21.7

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

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3. Instruments List

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Manufacturer	Device	Туре	Serial number	Date of last calibration
Schmid & Partner Engineering AG	Dosimetric E-FieldProbe	EX3DV3	3526	Aug.26.2008
Schmid & Partner Engineering AG	850MHz System Validation Dipole	D835V2	4d063	Jun.06.2008
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	547	Jan.20.2009
Schmid & Partner Engineering AG	Software	DASY 4 V4.7 Build80	N/A	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required
Agilent	Network Analyzer	8753D	3410A56662 3410A05547	Apr.16.2008 Mar.31.2009
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration not required
Agilent	Dual-directional coupler	778D	50313	Aug.26.2008
Agilent	RF Signal Generator	E4438c	MY45093613	May.21.2008
Agilent	Power Sensor	8481H	MY41091361	May.20.2008
R&S	Radio Communication Test	CMU200	109326 113505	Mar.11.2008 Sep.03.2008

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4. Measurements

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Date/Time: 2008/12/12 02:22:49

Re Cheek_CH1013

DUT: DOT;

Communication System: CDMA_850; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 825 MHz; $\sigma = 0.886$ mho/m; $\varepsilon_r = 43$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV3 SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

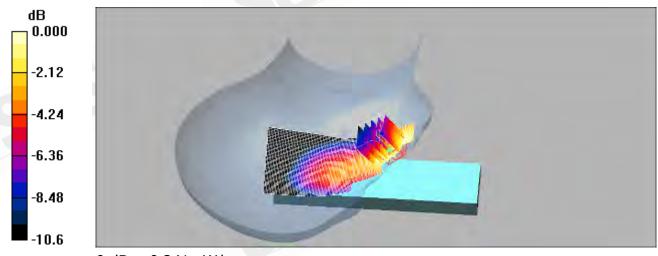
RE_Cheek/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.225 mW/g

RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.84 V/m; Power Drift = -0.022 dB Peak SAR (extrapolated) = 0.315 W/kg

SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.153 mW/g

Maximum value of SAR (measured) = 0.241 mW/g



0 dB = 0.241 mW/q

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Date/Time: 2008/12/12 02:58:49

Re Cheek_CH384

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 43$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

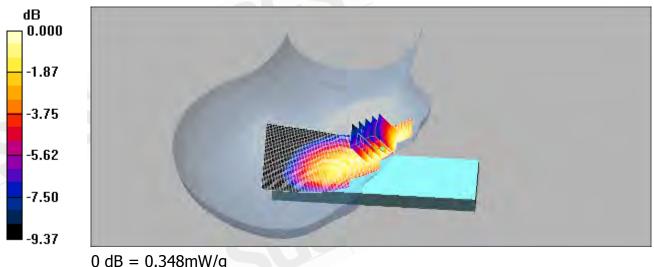
RE_Cheek/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.346 mW/g

RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 5.40 V/m; Power Drift = -0.119 dB Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.229 mW/g

Maximum value of SAR (measured) = 0.348 mW/g



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Date/Time: 2008/12/12 03:26:20

Re Cheek_CH777

DUT: DOT;

Communication System: CDMA 850; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used (interpolated): f = 848.31 MHz; $\sigma = 0.914$

mho/m; $\varepsilon_r = 42.9$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

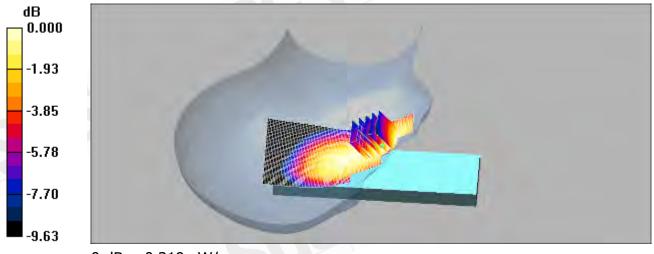
RE_Cheek/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.313 mW/g

RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 5.21 V/m; Power Drift = 0.053 dB Peak SAR (extrapolated) = 0.427 W/kg

SAR(1 g) = 0.300 mW/g; SAR(10 g) = 0.209 mW/g

Maximum value of SAR (measured) = 0.319 mW/g



0 dB = 0.319 mW/q

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Date/Time: 2008/12/12 05:43:46

Le Cheek_CH1013

DUT: DOT;

Communication System: CDMA 850; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 825 MHz; $\sigma = 0.886$ mho/m; $\epsilon_r = 43$;

 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

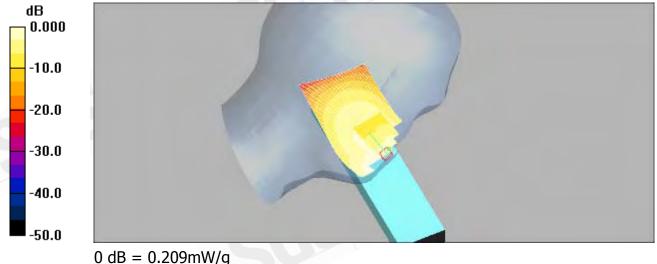
LE_Cheek/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.188 mW/g

LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 3.71 V/m; Power Drift = 0.021 dB Peak SAR (extrapolated) = 0.261 W/kg

SAR(1 g) = 0.186 mW/g; SAR(10 g)

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



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Date/Time: 2008/12/12 06:18:15

Le Cheek_CH384

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 43$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Left Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

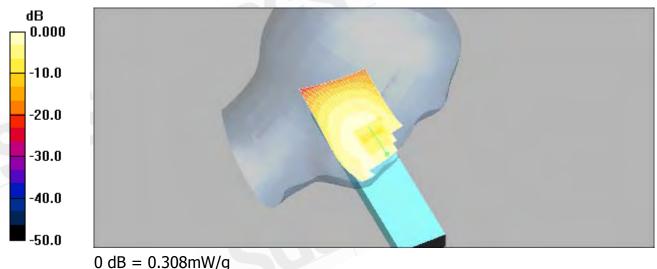
Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

LE_Cheek/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.292 mW/g

LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 5.38 V/m; Power Drift = 0.082 dB Peak SAR (extrapolated) = 0.383 W/kg

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



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Date/Time: 2008/12/12 06:51:50

Le Cheek_CH777

DUT: DOT;

Communication System: CDMA 850; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used (interpolated): f = 848.31 MHz; $\sigma = 0.914$

mho/m; $\varepsilon_r = 42.9$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

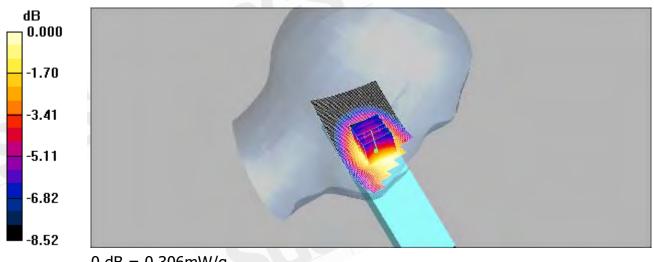
LE_Cheek/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.308 mW/g

LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 5.36 V/m; Power Drift = 0.117 dB Peak SAR (extrapolated) = 0.356 W/kg

SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.220 mW/g

Maximum value of SAR (measured) = 0.306 mW/g



0 dB = 0.306 mW/q

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Date/Time: 2008/12/12 03:57:58

Re Tilt_CH1013

DUT: DOT;

Communication System: CDMA 850; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 825 MHz; $\sigma = 0.886$ mho/m; $\epsilon_r = 43$;

 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

RE_Tilt/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.125 mW/g

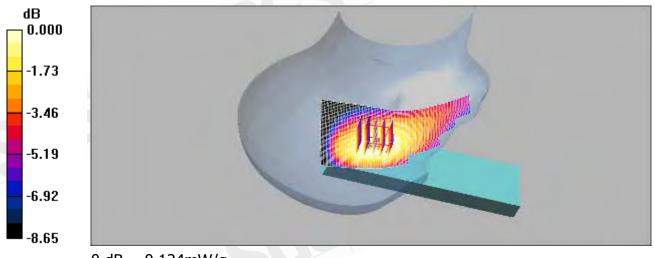
RE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 7.44 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 0.147 W/kg

SAR(1 g) = 0.119 mW/g; SAR(10 g) = 0.091 mW/g

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



0 dB = 0.124 mW/q

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Date/Time: 2008/12/12 04:36:26

Re Tilt_CH384

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 43$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

RE_Tilt/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.239 mW/g

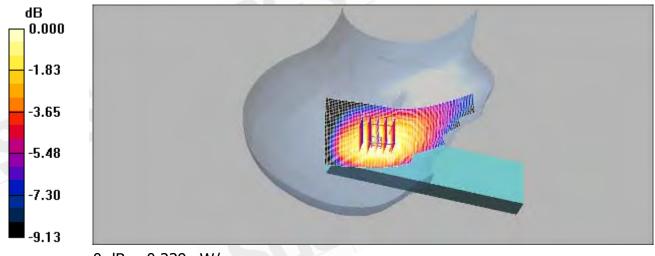
RE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 9.99 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.295 W/kg

SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 0.239 mW/g



0 dB = 0.239 mW/q

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Date/Time: 2008/12/12 05:09:58

Re Tilt_CH777

DUT: DOT;

Communication System: CDMA 850; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used (interpolated): f = 848.31 MHz; $\sigma = 0.914$

mho/m; $\varepsilon_r = 42.9$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

RE_Tilt/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.214 mW/g

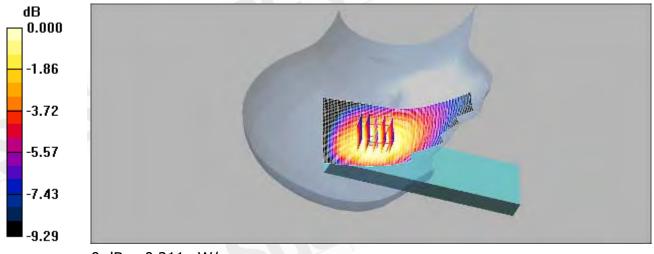
RE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 8.96 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.262 W/kg

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.152 mW/g

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



0 dB = 0.211 mW/q

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Date/Time: 2008/12/12 07:36:24

Le Tilt_CH1013

DUT: DOT;

Communication System: CDMA 850; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 825 MHz; $\sigma = 0.886$ mho/m; $\epsilon_r = 43$;

 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

LE_Tilt/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.121 mW/q

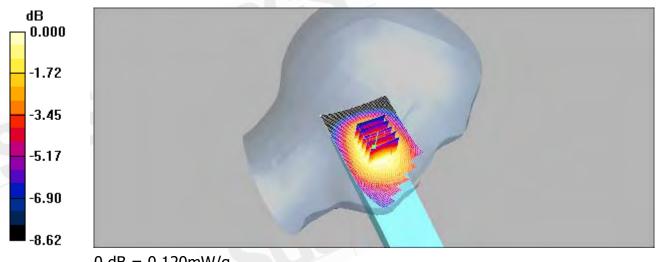
LE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 7.24 V/m; Power Drift = 0.158 dB

Peak SAR (extrapolated) = 0.150 W/kg

SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.090 mW/g

Maximum value of SAR (measured) = 0.120 mW/g



0 dB = 0.120 mW/q

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Date/Time: 2008/12/12 08:09:10

Le Tilt_CH384

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 43$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Left Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

LE_Tilt/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.254 mW/q

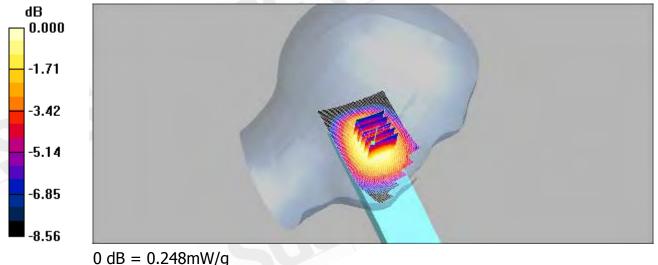
LE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 10.1 V/m; Power Drift = 0.138 dB

Peak SAR (extrapolated) = 0.300 W/kg

SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.180 mW/g

Maximum value of SAR (measured) = 0.248 mW/g



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Date/Time: 2008/12/12 08:49:53

Le Tilt_CH777

DUT: DOT;

Communication System: CDMA 850; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used (interpolated): f = 848.31 MHz; $\sigma = 0.914$

mho/m; $\varepsilon_r = 42.9$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

LE_Tilt/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm

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

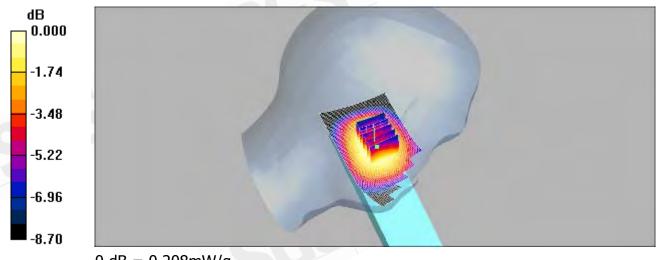
LE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 9.15 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 0.253 W/kg

SAR(1 g) = 0.200 mW/g; SAR(10 g) = 0.152 mW/g

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



0 dB = 0.208 mW/q

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Date/Time: 2008/12/12 09:23:48

Re Cheek_CH384_repeated with Memory card

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 43$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

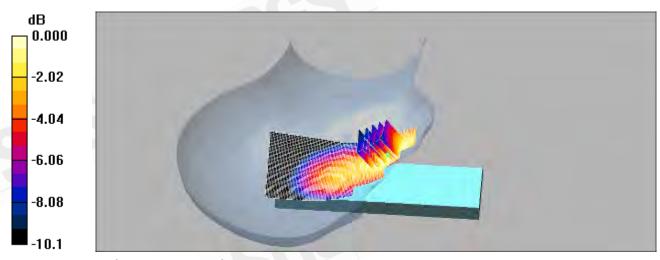
RE_Cheek/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.407 mW/g

RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 5.18 V/m; Power Drift = -0.119 dB Peak SAR (extrapolated) = 0.560 W/kg

SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.264 mW/g

Maximum value of SAR (measured) = 0.411 mW/g

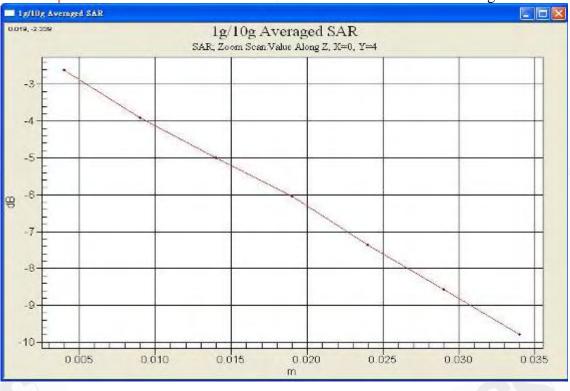


0 dB = 0.411 mW/a

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Date/Time: 2008/12/15 08:36:49

Body_CH1013

DUT: DOT;

Communication System: CDMA 850; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: Muscle 900 MHz Medium parameters used: f = 825 MHz; $\sigma = 0.944$ mho/m; $\epsilon_r =$

56.3; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.495 mW/g

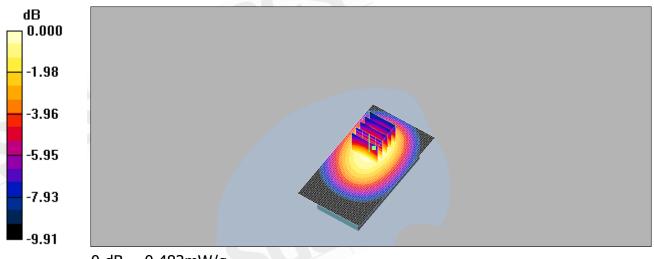
body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 7.68 V/m; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 0.609 W/kg

SAR(1 g) = 0.459 mW/g; SAR(10 g) = 0.335 mW/g

Maximum value of SAR (measured) = 0.483 mW/g



0 dB = 0.483 mW/q

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Date/Time: 2008/12/15 09:13:12

Body_CH384

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Muscle 900 MHz Medium parameters used (interpolated): f = 836.52 MHz; $\sigma =$

0.952 mho/m; $\varepsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 2008/8/26

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.892 mW/g

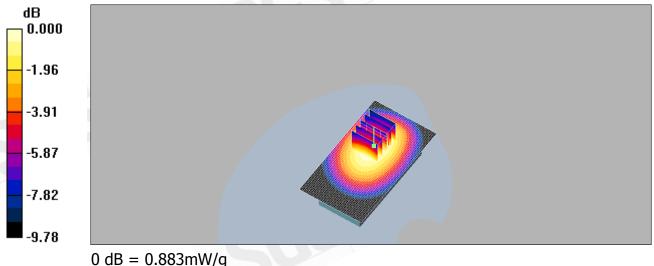
body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 10.7 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.840 mW/g; SAR(10 g) = 0.609 mW/g

Maximum value of SAR (measured) = 0.883 mW/g



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Date/Time: 2008/12/15 09:58:31

Body_CH777

DUT: DOT;

Communication System: CDMA 850; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: Muscle 900 MHz Medium parameters used (interpolated): f = 848.31 MHz; $\sigma =$

0.954 mho/m; $\varepsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 2008/8/26

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.694 mW/g

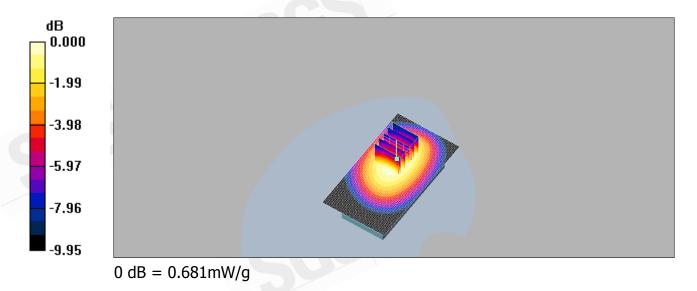
body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 9.71 V/m; Power Drift = 0.113 dB

Peak SAR (extrapolated) = 0.856 W/kg

SAR(1 g) = 0.652 mW/g; SAR(10 g) = 0.472 mW/g

Maximum value of SAR (measured) = 0.681 mW/g



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Date/Time: 2008/12/15 10:38:10

Body_CH384_ repeated for EUT front to phantom

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Muscle 900 MHz Medium parameters used (interpolated): f = 836.52 MHz; $\sigma =$

0.952 mho/m; $\varepsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 2008/8/26

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.379 mW/q

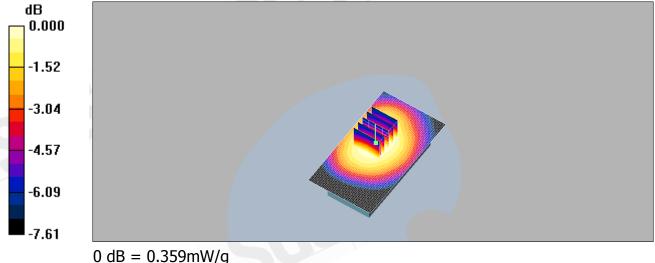
body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 9.58 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 0.440 W/kg

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.262 mW/g

Maximum value of SAR (measured) = 0.359 mW/g



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Date/Time: 2008/12/15 11:15:33

Body_CH384_repeated with Memory card

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Muscle 900 MHz Medium parameters used (interpolated): f = 836.52 MHz; $\sigma =$

0.952 mho/m; $\varepsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 2008/8/26

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.853 mW/g

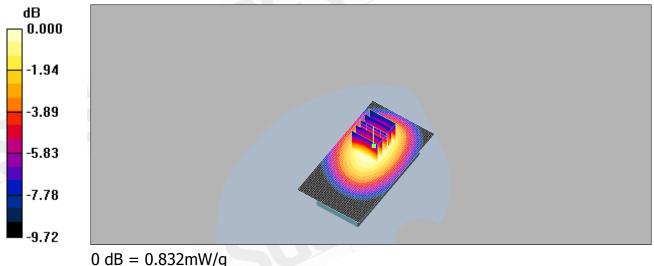
body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 10.3 V/m; Power Drift = -0.127 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.780 mW/g; SAR(10 g) = 0.569 mW/g

Maximum value of SAR (measured) = 0.832 mW/g



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Date/Time: 2008/12/15 12:49:10

Body_CH384_repeated with headset

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Muscle 900 MHz Medium parameters used (interpolated): f = 836.52 MHz; $\sigma =$

0.952 mho/m; $\varepsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 2008/8/26

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

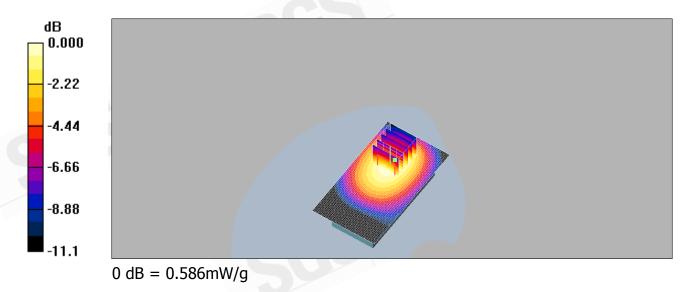
body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 6.24 V/m; Power Drift = 0.112 dB

Peak SAR (extrapolated) = 0.749 W/kg

SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.399 mW/g

Maximum value of SAR (measured) = 0.586 mW/g



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Date/Time: 2008/12/12 11:32:04

Re Cheek_CH384_repeated with Memory card (second solution)

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 43$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

RE_Cheek/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.376 mW/g

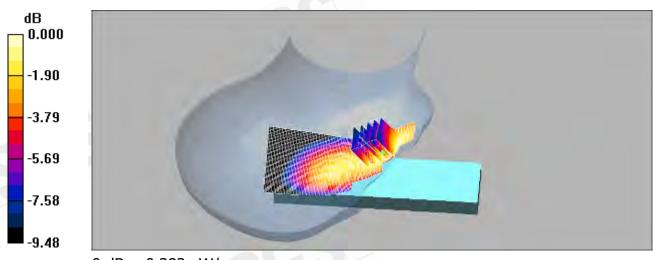
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 6.28 V/m; Power Drift = -0.150 dB

Peak SAR (extrapolated) = 0.520 W/kg

SAR(1 g) = 0.358 mW/g; SAR(10 g) = 0.249 mW/g

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



0 dB = 0.383 mW/q

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Date/Time: 2008/12/15 13:56:03

Body_CH384(second solution)

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Muscle 900 MHz Medium parameters used (interpolated): f = 836.52 MHz; $\sigma =$

0.952 mho/m; $\varepsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.950 mW/g

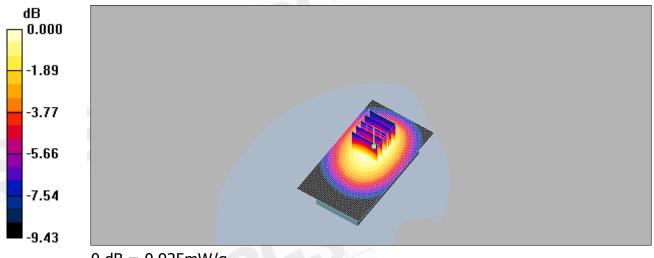
body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 11.4 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.879 mW/g; SAR(10 g) = 0.641 mW/g

Maximum value of SAR (measured) = 0.925 mW/g



0 dB = 0.925 mW/g

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Date/Time: 2008/12/12 12:56:14

Re Cheek_CH384_repeated with Memory card(Third solution)

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 43$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

RE_Cheek/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.382 mW/g

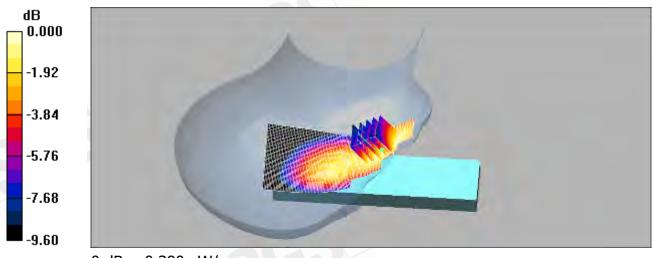
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.72 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.252 mW/g

Maximum value of SAR (measured) = 0.390 mW/g



0 dB = 0.390 mW/g

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Date/Time: 2008/12/15 15:21:14

Body_CH384(Third solution)

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Muscle 900 MHz Medium parameters used (interpolated): f = 836.52 MHz; $\sigma =$

0.952 mho/m; $\varepsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.949 mW/q

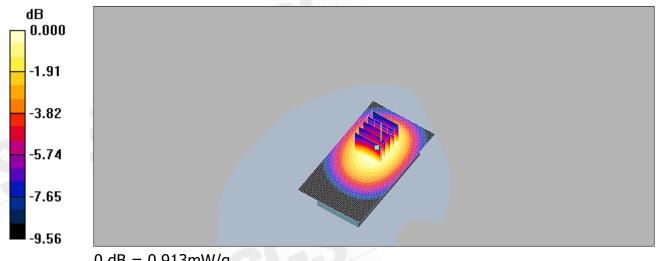
body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 10.2 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.872 mW/g; SAR(10 g) = 0.637 mW/g

Maximum value of SAR (measured) = 0.913 mW/g



0 dB = 0.913 mW/g

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Date/Time: 2009/5/7 02:19:14

Re Cheek_CH384_repeated with Memory card(Fourth solution)

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.877$ mho/m; $\epsilon_r = 42$;

 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

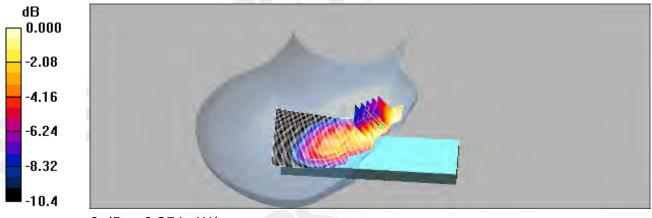
RE_Cheek/Area Scan (51x151x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.360 mW/g

RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.16 V/m; Power Drift = 0.076 dB Peak SAR (extrapolated) = 0.450 W/kg

SAR(1 g) = 0.330 mW/g; SAR(10 g) = 0.236 mW/g

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



0 dB = 0.354 mW/q

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Date/Time: 2009/5/7 06:22:04

Body_CH384(Fourth solution)

DUT: DOT;

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Muscle 900 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.959$ mho/m; $\epsilon_r =$

52.4; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

Maximum value of SAR (interpolated) = 1.03 mW/g

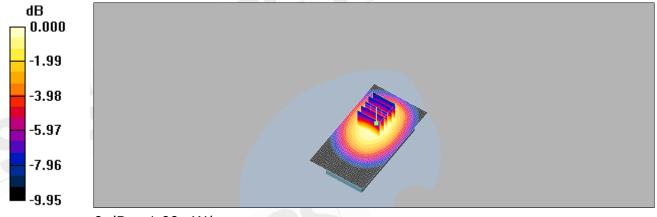
body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

Reference Value = 10.6 V/m; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.953 mW/g; SAR(10 g) = 0.690 mW/g

Maximum value of SAR (measured) = 1.00 mW/g



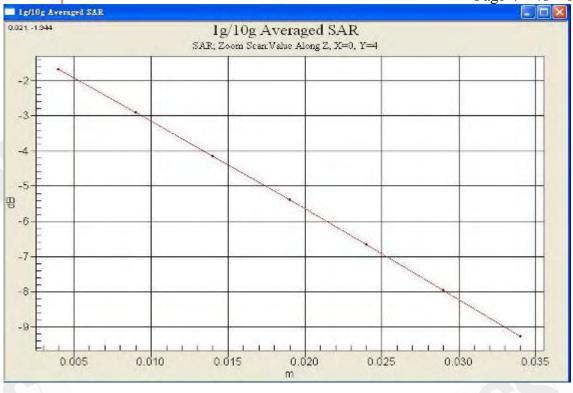
0 dB = 1.00 mW/g

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5. System Verification

Report No.: ES/2009/40017

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Date/Time: 2008/12/12 01:35:59

DUT: Dipole 835 MHz;

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 835 MHz; $\sigma = 0.897$ mho/m; $\epsilon_r = 43$;

 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.54 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

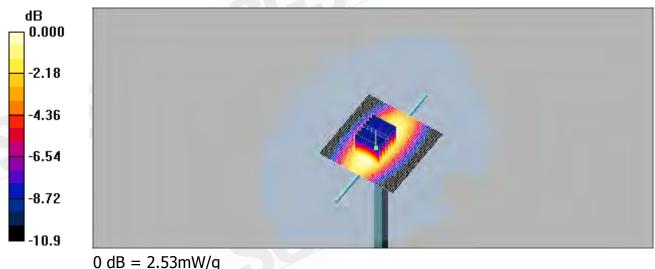
dy=5mm, dz=5mm

Reference Value = 53.1 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 2.35 mW/g; SAR(10 g) = 1.52 mW/g

Maximum value of SAR (measured) = 2.53 mW/g



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Date/Time: 2008/12/15 07:21:00

DUT: Dipole 835 MHz;

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Muscle 900 MHz Medium parameters used: f = 835 MHz; $\sigma = 0.954$ mho/m; $\varepsilon_r = 56$;

 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.67 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

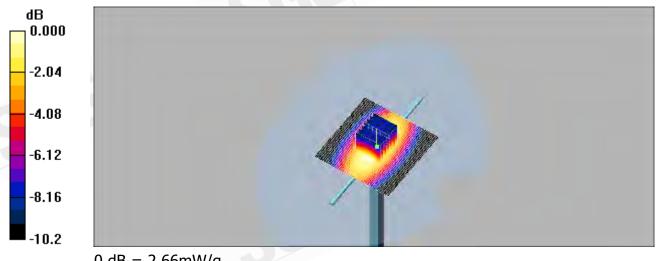
dy=5mm, dz=5mm

Reference Value = 54.4 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.47 mW/g; SAR(10 g) = 1.62 mW/g

Maximum value of SAR (measured) = 2.66 mW/g



0 dB = 2.66 mW/q

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Date/Time: 2009/5/7 01:32:28

DUT: Dipole 835 MHz;

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used: f = 835 MHz; $\sigma = 0.876$ mho/m; $\epsilon_r = 42$;

 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.44 mW/g

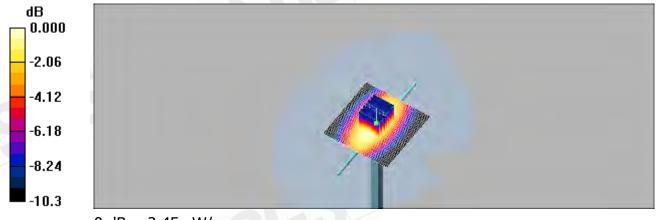
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 52.8 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 3.40 W/kg

SAR(1 g) = 2.27 mW/g; SAR(10 g) = 1.49 mW/gMaximum value of SAR (measured) = 2.45 mW/g



0 dB = 2.45 mW/q

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Date/Time: 2009/5/7 05:16:45

DUT: Dipole 835 MHz;

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Muscle 900 MHz Medium parameters used: f = 835 MHz; $\sigma = 0.958$ mho/m; $\epsilon_r =$

52.4; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.42 mW/g

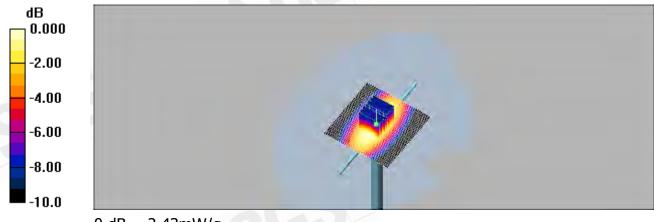
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 50.3 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 2.36 mW/g; SAR(10 g) = 1.59 mW/gMaximum value of SAR (measured) = 2.43 mW/g



0 dB = 2.43 mW/q

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6. DAE & Probe Calibration certificate

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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SGS (Auden)

Certificate No: DAE4-547 Jan08

Appreditation No.: SCS 108

CALIBRATION CERTIFICATE DAE4 - SD 000 D04 BA - SN: 547 Object Calibration procedure(s) QA CAL-06.v12 Calibration procedure for the data acquisition electronics (DAE) January 24, 2008 Calibration data: In Tolerance Condition of the calibrated item This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (St). 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) Scheduled Calibration Cal Date (Calibrated by, Certificate No.) Primary Standards ID# Fluke Process Calibrator Type 702 SN: 6295803 04-Oct-07 (Elcal AG, No: 6467). 03-Oct-07 (Elcal AG, No: 6465) Oct-08 Keithley Multimeter Type 2001 SN: 0810278 Scheduled Check Check Date (in house) ID # Secondary Standards SE UMS 006 AB 1004 25-Jun-07 (SPEAG, in house check) In house check Jun-08 Calibrator Box V1.1 Function Signature Technician Calibrated by: R&D Director Approved by: NR Luncs issued: January 24, 2008 This calibration certificate shall not be reproduced except in full without written approval of the laboratory

Certificate No: DAE4-547_Jan08

Page 1 of 5

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Certificate No: DAE4-547_Jan09

Accreditation No.: SCS 108

SGS (Auden) **CALIBRATION CERTIFICATE** DAE4 - SD 000 D04 BJ - SN: 547 Object QA CAL-06.v12 Calibration procedure(s) Calibration procedure for the data acquisition electronics (DAE) January 19, 2009 Calibration date: Condition of the calibrated item In Tolerance 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) Cal Date (Certificate No.) Scheduled Calibration Primary Standards Fluke Process Calibrator Type 702 SN: 6295803 30-Sep-08 (No: 7673) Sep-09 Keithley Multimeter Type 2001 SN: 0810278 30-Sep-08 (No: 7670) Sep-09 Scheduled Check Check Date (in house) Secondary Standards ID# In house check: Jun-09 SE UMS 006 AB 1004 06-Jun-08 (in house check) Calibrator Box V1.1 Function Name Daniel Hess Technician Calibrated by: V. Bl Jums R&D Director Fin Bomholt Approved by: Issued: January 20, 2009

Certificate No: DAE4-547_Jan09

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Accreditation No.: SCS 108

The second secon	CERTIFICAT		
Object	EX3DV3 - SN:3	526	
Calibration procedure(s)		QA CAL-14.v3 and QA CAL-23.v3 edure for dosimetric E-field probes	
Calibration date:	August 26, 2008	3	
Condition of the calibrated item	In Tolerance		
Calibration Equipment used (M&		ory facility: environment temperature (22 ± 3)°C	
Delman I Standarda	lin#	Cal Date (Codificate No.)	Scheduled Calibration
	ID# GB41293874	Cal Date (Certificate No.)	Scheduled Calibration Apr-09
Power meter E4419B	GB41293874	1-Apr-08 (No. 217-00788)	Scheduled Calibration Apr-09 Apr-09
Power meter E4419B Power sensor E4412A	120	1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788)	Apr-09
Power meter E4419B Power sensor E4412A Power sensor E4412A	GB41293874 MY41495277 MY41498087	1-Apr-08 (No. 217-00788)	Apr-09 Apr-09
Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator	GB41293874 MY41495277	1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788)	Apr-09 Apr-09 Apr-09
Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator	GB41293874 MY41495277 MY41498087 SN: S5054 (3c)	1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00865)	Apr-09 Apr-09 Apr-09 Jul-09
Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator	GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b)	1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00965) 31-Mar-08 (No. 217-00787)	Apr-09 Apr-09 Apr-09 Jul-09 Apr-09
Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2	GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b)	1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00865) 31-Mar-08 (No. 217-00787) 1-Jul-08 (No. 217-00866)	Apr-09 Apr-09 Apr-09 Jul-09 Apr-09 Jul-09
Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4	GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013	1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00787) 1-Jul-08 (No. 217-00787) 1-Jul-08 (No. 217-00866) 2-Jan-08 (No. ES3-3013_Jan08)	Apr-09 Apr-09 Apr-09 Jul-09 Jul-09 Jan-09
Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards	GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 660	1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00865) 31-Mar-08 (No. 217-00787) 1-Jul-08 (No. 217-00866) 2-Jan-08 (No. ES3-3013_Jan08) 3-Sep-07 (No. DAE4-660_Sep07)	Apr-09 Apr-09 Apr-09 Jul-09 Apr-09 Jul-09 Jan-09 Sep-08
Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8648C	GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5096 (20b) SN: S5129 (30b) SN: 3013 SN: 660	1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00865) 31-Mar-08 (No. 217-00787) 1-Jul-08 (No. 217-00866) 2-Jan-08 (No. 253-3013_Jan08) 3-Sep-07 (No. DAE4-660_Sep07) Check Date (in house)	Apr-09 Apr-09 Apr-09 Jul-09 Jul-09 Jul-09 Jan-09 Sep-08 Scheduled Check
Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8648C	GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5096 (20b) SN: S5129 (30b) SN: 3013 SN: 660	1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00787) 1-Jul-08 (No. 217-00787) 1-Jul-08 (No. 217-00787) 1-Jul-08 (No. 217-00866) 2-Jan-08 (No. ES3-3013_Jan08) 3-Sep-07 (No. DAE4-660_Sep07) Check Date (in house) 4-Aug-99 (in house check Oct-07)	Apr-09 Apr-09 Apr-09 Jul-09 Jul-09 Jul-09 Jan-09 Sep-08 Scheduled Check In house check: Oct-09
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E Calibrated by:	GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5056 (20b) SN: S5129 (30b) SN: 3013 SN: 660 ID # US3642U01700 US37390585	1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00865) 31-Mar-08 (No. 217-00865) 3-Jul-08 (No. 217-00866) 2-Jan-08 (No. ES3-3013_Jan08) 3-Sep-07 (No. DAE4-660_Sep07) Check Date (in house) 4-Aug-99 (in house check Oct-07) 18-Oct-01 (in house check Oct-07)	Apr-09 Apr-09 Apr-09 Jul-09 Apr-09 Jul-09 Jan-09 Sep-08 Scheduled Check In house check: Oct-09 In house check: Oct-08
Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E	GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5096 (20b) SN: S5129 (30b) SN: 3013 SN: 660	1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00865) 31-Mar-08 (No. 217-00865) 31-Jul-08 (No. 217-00866) 2-Jan-08 (No. ES3-3013_Jan08) 3-Sep-07 (No. DAE4-660_Sep07) Check Date (in house) 4-Aug-99 (in house check Oct-07) 18-Oct-01 (in house check Oct-07)	Apr-09 Apr-09 Apr-09 Jul-09 Apr-09 Jul-09 Jan-09 Sep-08 Scheduled Check In house check: Oct-09 In house check: Oct-08

Certificate No: EX3-3526_Aug08 Page 1 of 9

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Glossary:

tissue simulating liquid TSL NORMx,y,z sensitivity in free space sensitivity in TSL / NORMx,y,z ConvF DCP diode compression point φ rotation around probe axis Polarization o

9 rotation around an axis that is in the plane normal to probe axis (at Polarization 9

measurement center), i.e., 9 = 0 is normal to probe axis

Calibration is Performed According to the Following Standards:

a) 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

 b) 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:

- NORMx, y, z: Assessed for E-field polarization $\vartheta = 0$ (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E2-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,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.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 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 NORMx,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.

Certificate No: EX3-3526 Aug08

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EX3DV3 SN:3526

August 26, 2008



Probe EX3DV3

SN:3526

Manufactured: Last calibrated: Recalibrated:

March 19, 2004 August 29, 2007 August 26, 2008

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3526 Aug08

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EX3DV3 SN:3526

August 26, 2008

DASY - Parameters of Probe: EX3DV3 SN:3526

Sensitivity in	Eroo	SpaceA	
sensitivity if	riee	Space	

Diode Compression^B

 $\mu V/(V/m)^2$ DCP X 93 mV NormX 0.99 ± 10.1% 94 mV $\mu V/(V/m)^2$ DCP Y NormY 0.81 ± 10.1% 94 mV $\mu V/(V/m)^2$ DCP Z 0.89 ± 10.1% NormZ

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

Typical SAR gradient: 5 % per mm TSL 900 MHz

Sensor Cente	er to Phantom Surface Distance	2.0 mm	3.0 mm
SAR _{be} [%]	Without Correction Algorithm	8.9	5.3
SAR _{be} [%]	With Correction Algorithm	0.8	0.4

1810 MHz Typical SAR gradient: 10 % per mm

Sensor Cente	r to Phantom Surface Distance	2.0 mm	3.0 mm
SAR _{be} [%]	Without Correction Algorithm	6.8	3.6
SAR _{be} [%]	With Correction Algorithm	0.5	0.2

Sensor Offset

Probe Tip to Sensor Center

1.0 mm

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%.

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A The uncertainties of NormX,Y,Z do not affect the E2-field uncertainty inside TSL (see Page 8).

^B Numerical linearization parameter: uncertainty not required



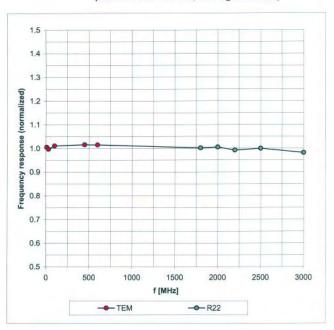
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EX3DV3 SN:3526

August 26, 2008

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Certificate No: EX3-3526 Aug08

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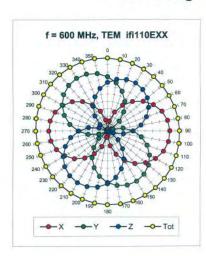


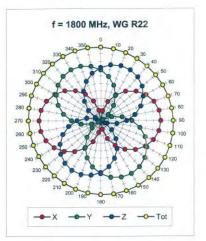
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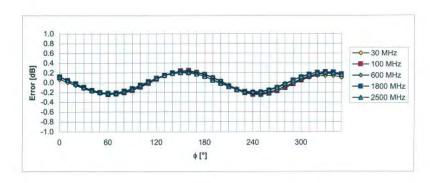
EX3DV3 SN:3526

August 26, 2008

Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$







Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Certificate No: EX3-3526 Aug08

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t (886-2) 2299-3279



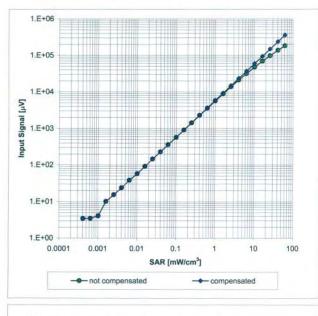
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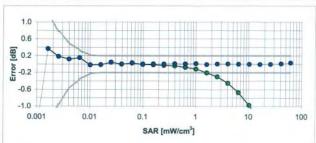
EX3DV3 SN:3526

August 26, 2008

Dynamic Range f(SAR_{head})

(Waveguide R22, f = 1800 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: EX3-3526_Aug08

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EX3DV3 SN:3526

August 26, 2008

Conversion Factor Assessment

f [MHz]	Validity [MHz] ^C	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF	Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.54	0.76	10.93	± 11.0% (k=2)
1810	±50/±100	Head	40.0 ± 5%	1.40 ± 5%	0.52	0.68	9.46	± 11.0% (k=2)
1950	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.58	0.61	9.15	± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.42	0.74	8.49	± 11.0% (k=2)
2600	± 50 / ± 100	Head	$39.0 \pm 5\%$	1.96 ± 5%	0.42	0.75	8.53	± 11.0% (k=2)
3500	± 50 / ± 100	Head	$37.9 \pm 5\%$	2.91 ± 5%	0.30	1.20	8.15	± 13.1% (k=2)
5200	± 50 / ± 100	Head	36.0 ± 5%	4.66 ± 5%	0.40	1.65	5.68	± 13.1% (k=2)
5500	± 50 / ± 100	Head	35.6 ± 5%	4.96 ± 5%	0.40	1.65	5.01	± 13.1% (k=2)
5800	± 50 / ± 100	Head	35.3 ± 5%	5.27 ± 5%	0.40	1.65	4.90	± 13.1% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.66	0.68	10.87	± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.50	0.74	9.28	± 11.0% (k=2)
1950	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.45	0.78	9.17	± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.44	0.80	8.18	± 11.0% (k=2)
2600	± 50 / ± 100	Body	52.5 ± 5%	2.16 ± 5%	0.47	0.76	8.14	± 11.0% (k=2)
3500	± 50 / ± 100	Body	51.3 ± 5%	3.31 ± 5%	0.30	1.20	7.36	± 13.1% (k=2)
5200	± 50 / ± 100	Body	49.0 ± 5%	5.30 ± 5%	0.40	1.70	4.89	± 13.1% (k=2)
5500	± 50 / ± 100	Body	48.6 ± 5%	5.65 ± 5%	0.40	1.70	4.39	± 13.1% (k=2)
5800	± 50 / ± 100	Body	48.2 ± 5%	6.00 ± 5%	0.40	1.70	4.44	± 13.1% (k=2)



Certificate No: EX3-3526_Aug08



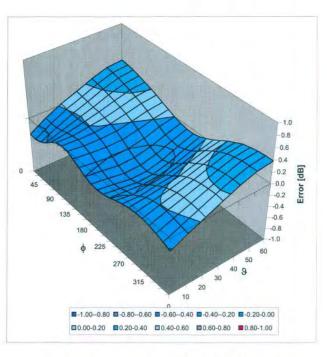
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EX3DV3 SN:3526

August 26, 2008

Deviation from Isotropy in HSL

Error (φ, θ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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7. Uncertainty Analysis

Error Description	Uncertainty value	Prob. Dist.	Div.	$\begin{pmatrix} (c_i) \\ 1 \end{pmatrix}$	$\begin{pmatrix} (c_i) \\ 10 \mathrm{g} \end{pmatrix}$	Std. Unc.	Std. Unc. (10g)	$\begin{pmatrix} v_i \\ v_{ef} \end{pmatrix}$
Measurement System	roace	Diov.		*0	108	(*6)	(100)	ve)
Probe Calibration	±4.8%	N	1	1	1	±4.8%	±4.8%	∞
Axial Isotropy	±4.7%	R	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical Isotropy	±9.6 %	R	$\sqrt{3}$	0.7	0.7	±3.9%	±3.9 %	∞
Boundary Effects	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0 %	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Readout Electronics	±1.0%	N	1	1	1	±1.0%	±1.0%	00
Response Time	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5 %	∞
Integration Time	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%	∞
RF Ambient Conditions	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.4%	R	$\sqrt{3}$	1	1	±0.2%	±0.2%	∞
Probe Positioning	±2.9 %	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Max. SAR Eval.	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Test Sample Related								
Device Positioning	±2.9 %	N	1	1	1	±2.9%	±2.9 %	875
Device Holder	±3.6 %	N	1	1	1	±3.6%	±3.6 %	5
Power Drift	±5.0 %	R	$\sqrt{3}$	1	1	±2.9%	±2.9 %	∞
Phantom and Setup								
Phantom Uncertainty	±4.0 %	R	$\sqrt{3}$	1	1	±2.3%	±2.3 %	∞
Liquid Conductivity (target)	±5.0 %	R	$\sqrt{3}$	0.64	0.43	±1.8%	±1.2%	∞
Liquid Conductivity (meas.)	±2.5 %	N	1	0.64	0.43	$\pm 1.6 \%$	±1.1%	∞
Liquid Permittivity (target)	±5.0%	R	$\sqrt{3}$	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						±10.3 %	±10.0 %	331
Expanded STD Uncertain	ty					$\pm 20.6 \%$	±20.1 %	

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8. Phantom description

Report No.: ES/2009/40017

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Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerlan Phone +41 1 245 9700, Fax +41 1 245 9779 info@speeg.com, http://www.speeg.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 Zbrich Switzerland	

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'IS 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

- CENELEC EN 50361 IEEE Std 1528-2003
- IEC 62209 Part I
- FCC OET Bulletin 65, Supplement C, Edition 01-01
- The IT'IS 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].

07.07.2005

Signature / Stamp

d & Partner Engineering AG aussidesse 43, 8004 Zurich Switzeri 441,3 Jets 9700 Fax 44 b 1 245 9779

Doc No 881 - QD 000 P40 C - F

Page

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9. System Validation from Original equipment supplier

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA ral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Certificate No: D835V2-4d063_Jun08

Object	D835V2 - SN: 4d	1063	
Calibration procedure(s)	QA CAL-05.v7 Calibration proce	dure for dipole validation kits	
Celibration date:	June 06, 2008		
Condition of the calibrated item	In Tolerance		
All calibrations have been conduc	cted in the closed laborator	ry facility: environment temperature (22 ± 3)°C and	d humidity < 70%.
Calibration Equipment used (M&	the second		
Primary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Primary Standards Power meter EPM-442A	ID # GB37480704	04-Oct-07 (METAS, No. 217-00736)	Oct-08
Primary Standards Power meter EPM-442A Power sensor HP 8481A	ID # GB37480704 US37292783	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00736)	Oct-08 Oct-08
Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator	ID # GB37480704 US37292783 SN: 5086 (20g)	04-Oct-07 (METAS, No. 217-00795) 04-Oct-07 (METAS, No. 217-00798) 07-Aug-07 (METAS, No. 217-00718)	Oct-08 Oct-08 Aug-08
Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination	ID # GB37480704 US37292783	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00738) 07-Aug-07 (METAS, No 217-00718) 08-Aug-07 (No. 217-00721)	Oct-08 Oct-08
Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV2	ID # GB37480704 US37292783 SN: 5085 (20g) SN: 5047.2 / 06327	04-Oct-07 (METAS, No. 217-00795) 04-Oct-07 (METAS, No. 217-00798) 07-Aug-07 (METAS, No. 217-00718)	Oct-08 Oct-08 Aug-08 Aug-08
Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV2 DAE4	ID # GB37480704 US37292783 SN: 5086 (20g) SN: 5047/2 / 06327 SN: 3025	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00736) 07-Aug-07 (METAS, No. 217-00718) 08-Aug-07 (No. 217-00721) 28-Apr-08 (No. ES3-3025_Apr08)	Oct-08 Oct-08 Aug-08 Aug-08 Apr-09
Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV2 DAE4 Secondary Standards Power sensor HP 8481A	ID # GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 / 08327 SN: 3025 SN: 601 ID # MY41092317	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00738) 07-Aug-07 (METAS, No. 217-00718) 08-Aug-07 (No. 217-00721) 28-Apr-08 (No. ES3-3025_Apr08) 14-Mar-06 (No. DAE4-601_Mar08) Check Date (in house) 18-Oct-02 (SPEAG, in house check Oct-07)	Oct-08 Oct-08 Aug-08 Aug-08 Apr-09 Mar-09 Scheduled Check In house check: Oct-09
Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV2 DAE4 Secondary Standards Power sensor HP 8481A RF generator R&S SMT-06	ID # GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 / 06327 SN: 3025 SN: 601 ID # MY41092317 100005	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00738) 07-Aug-07 (METAS, No. 217-00718) 08-Aug-07 (No. 217-00721) 28-Apr-08 (No. ES3-3025_Apr08) 14-Mar-08 (No. DAE4-601_Mar08) Check Date (in house) 18-Oct-02 (SPEAG, in house check Oct-07) 04-Aug-99 (SPEAG, in house check Oct-07)	Oct-08 Oct-08 Aug-08 Aug-08 Apr-09 Mar-09 Scheduled Check In house check: Oct-09 In house check: Oct-09
Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV2 DAE4 Secondary Standards Power sensor HP 8481A RF generator R&S SMT-06	ID # GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 / 08327 SN: 3025 SN: 601 ID # MY41092317	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00738) 07-Aug-07 (METAS, No. 217-00718) 08-Aug-07 (No. 217-00721) 28-Apr-08 (No. ES3-3025_Apr08) 14-Mar-06 (No. DAE4-601_Mar08) Check Date (in house) 18-Oct-02 (SPEAG, in house check Oct-07)	Oct-08 Oct-08 Aug-08 Aug-08 Apr-09 Mar-09 Scheduled Check In house check: Oct-09
Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV2 DAE4 Secondary Standards Power sensor HP 8481A RF generator R&S SMT-06	ID # GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 / 06327 SN: 3025 SN: 601 ID # MY41092317 100005	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00738) 07-Aug-07 (METAS, No. 217-00718) 08-Aug-07 (No. 217-00721) 28-Apr-08 (No. ES3-3025_Apr08) 14-Mar-08 (No. DAE4-601_Mar08) Check Date (in house) 18-Oct-02 (SPEAG, in house check Oct-07) 04-Aug-99 (SPEAG, in house check Oct-07)	Oct-08 Oct-08 Aug-08 Aug-08 Apr-09 Mar-09 Scheduled Check In house check: Oct-09 In house check: Oct-09
Primary Standards Power meter EPM-442A Power sensor HP B481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV2 DAE4 Secondary Standards Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer HP 8753E	ID # GB37480704 US37292783 SN: 5086 (20g) SN: 5047/2 / 06327 SN: 3025 SN: 601 ID # MY41092317 100005 US37390585 S4206	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00736) 07-Aug-07 (METAS, No. 217-00718) 08-Aug-07 (No. 217-00721) 28-Apr-08 (No. 237-00721) 28-Apr-08 (No. DS3-3025, Apr08) 14-Mar-08 (No. DAE4-601_Mar08) Check Date (in house) 18-Oct-02 (SPEAG, in house check Oct-07) 04-Aug-99 (SPEAG, in house check Oct-07)	Oct-08 Oct-08 Aug-08 Aug-08 Apr-09 Mar-09 Scheduled Check In house check: Oct-09 In house check: Oct-09 In house check: Oct-08 Signature
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV2 DAE4 Secondary Standards Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer HP 8753E Calibrated by: Approved by:	ID # GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 / 06327 SN: 3025 SN: 601 ID # MY41092317 100005 US37390585 S4206 Name	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00738) 07-Aug-07 (METAS, No. 217-00718) 08-Aug-07 (No. 217-00721) 28-Apr-08 (No. 253-3025_Apr08) 14-Mar-08 (No. DAE4-601_Mar08) Check Date (in house) 18-Oct-02 (SPEAG, in house check Oct-07) 04-Aug-99 (SPEAG, in house check Oct-07) 18-Oct-01 (SPEAG, in house check Oct-07)	Oct-08 Oct-08 Aug-06 Aug-06 Apr-09 Mar-09 Scheduled Check In house check: Oct-09 In house check: Oct-09 In house check: Oct-08

Certificate No: D835V2-4d063 Jun08

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DASY4 Validation Report for Head TSL

Date/Time: 05.06.2008 14:11:53

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d063

Communication System: CW-835; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL 900 MHz;

Medium parameters used: f = 835 MHz; $\sigma = 0.879$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ES3DV2 - SN3025; ConvF(5.97, 5.97, 5.97); Calibrated: 28.04.2008

Sensor-Surface: 3.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601: Calibrated: 14:03.2008

Phantom: Flat Phantom 4.9L; Type: QD000P49AA; ;

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

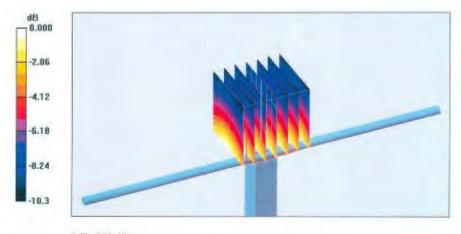
Pin=250mW; dip=15mm; dist=3.4mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 55.3 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 3.36 W/kg

SAR(1 g) = 2.29 mW/g; SAR(10 g) = 1.52 mW/g Maximum value of SAR (measured) = 2.58 mW/g



0 dB = 2.58 mW/g

Certificate No: D835V2-4d063_Jun08

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DASY4 Validation Report for Body TSL

Date/Time: 06.06.2008 14:01:1

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d063

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1

Medium: MSL900;

Medium parameters used: f = 835 MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ES3DV2 - SN3025; CoevF(5.9, 5.9, 5.9); Calibrated: 28.04.2008

Sensor-Surface: 3.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 14.03.2008

Phantom: Flat Phantom 4.9L; Type: QD000P49AA;

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

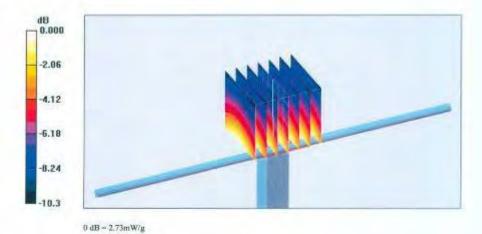
Pin = 250mW, d = 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 53.6 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 3.53 W/kg

SAR(1 g) = 2.44 mW/g; SAR(10 g) = 1.61 mW/gMaximum value of SAR (measured) = 2.73 mW/g



Certificate No: D835V2-4d063_Jun08

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End of 1st part of report

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