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SAR TEST REPORT

Equipment Under Test	Wireless Data Collection Terminal			
Model Name	PA600 Phone Edition			
Company Name	unitech electronics co., ltd.			
Company Address	8Fl., No. 118, Lane 235, Pao-Chiao Rd., Hsin-Tien City,			
	Taipei Hsien, Taiwan 231, R.O.C.			
Date of Receipt	2008.10.09			
Date of Test(s)	2008.10.12 -2008.10.14			
Date of Issue	2008.12.23			

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 Date 2008.12.23

Asst. Supervisor arbert Chan

Approved by : Robert Chang

2008.12.23

Tech. Manager

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1. General Information

1.1 Testing Laboratory

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

1.2 Details of Applicant

Company Name	unitech electronics co., ltd.		
Company Address	8Fl., No. 118, Lane 235, Pao-Chiao Rd., Hsin-Tien City,		
Company Address	Taipei Hsien, Taiwan 231, R.O.C.		
Contact Person	Chris Yeh		
TEL	02-8912-1122		
E-mail	ChrisY@tw.ute.com		

1.3 Description of EUT

EUT Name	Wireless Data Collection Terminal		
FCC ID	HLEPA600BTGP		
Model Name	PA600 Phone Edition		
Brand Name	unitech		
IMEI Code	355634007606707		
Mode of Operation	GSM/GPRS/EDGE mode		
Definition	Production unit		

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Modulation Mode	GSM/GMSK			
Durby Cycle	GSM	GPRS/EDGE		
Duty Cycle	1/8	1/2		
Maximum RF	GSM 850	GSM1900		
Conducted Power (Average)	32.7dbm	29.4dbm		
TV Fraguency Dange	GSM 850	GSM1900		
TX Frequency Range (MHz)	824.2-	1850-		
(1411 12)	848.8	1910		
Channel Number	GSM 850 GSM1900			
(ARFCN)	128-251	512-810		
Battery Type	3.7 V Lit	thium-Ion		
Antenna Type	Internal Antenna			
	Head	Body		
Max. SAR Measured (1 g)	0.519 W/kg (At GSM850 Right Head (15 Tilt Position)_ 190 Channel)	0.796 W/kg (At GSM 1900 Body 661 Channel_repeated with Bluetooth active)		

Note:

1.GRPS conducted output power:

	Channel	GPRS_Class 8	GPRS_Class 10	GPRS_Class 12
GPRS 850	128	32.3dbm	30.6dbm	27dbm
	190	32.4dbm	30.5dbm	27.1dbm
	251	32.6dbm	30.9dbm	27.3dbm
GPRS 1900	512	29.1dbm	27.8dbm	25.2dbm
	661	28.9dbm	27.4dbm	25dbm
	810	28.8dbm	27.5dbm	25.1dbm

2.EGPRS mode was not measured, because maximum averaged output power is 3 dB lower in EGPRS than in GPRS mode.

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1.4 Test Environment

Ambient Temperature: 22.2° C Tissue Simulating Liquid: 21.7° C

Relative Humidity: 62 %

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.
- 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 the back of the EUT and the flat phantom in GPRS mode.

Worse case-Head:

- 5. Testing SAR with dominant transmitter ON and co-located Bluetooth transmitter both ON for head-position worst case configuration.
- 6. For highest SAR configuration in this band repeated with external Memory card inside.

Worse case-Body:

- 7. Testing body-worn SAR with Bluetooth transmitter OFF by separating 1.5cm between the front of the EUT and the flat phantom in GPRS mode.
- 8. Testing body-worn SAR with Bluetooth transmitter ON in GPRS mode at the body-worn worst case configuration.
- 9. For highest SAR configuration in this band repeated with external Memory card inside.

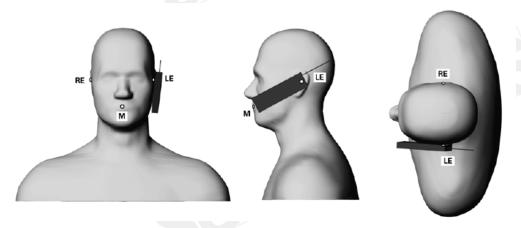
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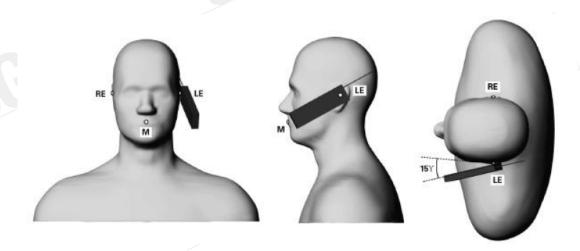


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1.6 Positioning Procedure



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



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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. 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.

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In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within -2 dB of the global maximum are searched and passed for the Cube Scan measurement.

In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

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

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

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

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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 ρ are the conductivity and mass density of the tissue-simulant.

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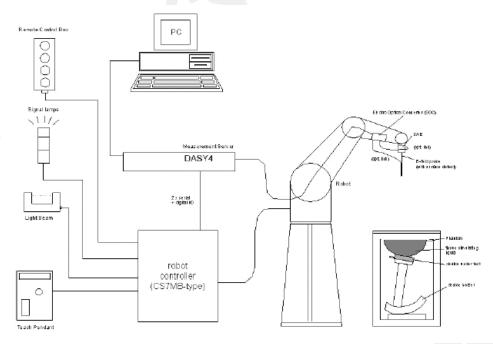


Fig.a The block diagram of SAR system

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.

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- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
 - A computer operating Windows 2000 or Windows XP.
 - DASY4 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
 - The SAM twin phantom enabling testing left-hand and right-hand usage.
 - The device holder for 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 HSL850/1900 Additional CF for other liquids and frequencies upon request	
		EX3DV3 E-Field Probe

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Frequency:	10 MHz to $>$ 6 GHz; Linearity: \pm 0.2 dB (30 MHz to 6 GHz)
Directivity:	± 0.3 dB in HSL (rotation around probe axis)
,	± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range:	10 μ W/g to > 100 mW/g;
,	Linearity: \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
Application:	High precision dosimetric measurements in any exposure scenario
	(e.g., very strong gradient fields). Only probe which enables
	compliance testing for frequencies up to 6 GHz with precision of better
	30%.

SAM PHANTOM V4.0C

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

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DEVICE HOLDER

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



1.10 SAR System Verification

phantom).

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 850/19000 MHz. The tests were conducted on the same days as the measurement of the DUT.

phantom locations (left head, right head, flat

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.

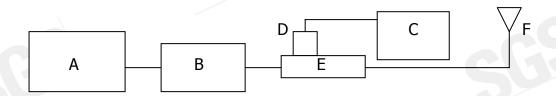


Fig.b The microwave circuit arrangement used for SAR system verification

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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 & 777D 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	2.33mW/g	1.7%	2008/10/12
D835V2 S/N: 4d063	835 MHz (Body)	2.44 mW/g	2.52mW/g	3.2%	2008/10/14
D1900V2 S/N: 5d027	1900 MHz (Head)	10.3 mW/g	10.8mW/g	4.8%	2008/10/12
D1900V2 S/N: 5d027	1900 MHz (Body)	9.64 mW/g	9.68mW/g	0.4%	2008/10/14

Table 1. System validation (follow manufacture target value)

1.11 Tissue Simulant Fluid for the Frequency Band

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

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

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Fraguancy		Measurement date/		Dielectric Parameters		
Frequency	Tissue type	•	_	- (C/m)	Simulated Tissue	
(MHz)		Limits	ρ	σ (S/m)	Temperature(° C)	
850		Measured, 2008.10.12	42.5	0.899	21.7	
630	Head	Recommended Limits	39.4-43.6	0.86-1.03	20-24	
850		Measured, 2008.10.14	55	1	21.7	
630	Body	Recommended Limits	52.3-57.8	0.92-1.1	20-24	
		Measured, 2008.10.12	41.2	1.4	21.7	
1900	Head	Recommended Limits	38-42	1.29-1.47	20-24	
1900		Measured, 2008.10.14	52.6	1.58	21.7	
1900	Body	Recommended Limits	50.6-56	1.38-1.6	20-24	

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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

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

Table 3. Recipes for tissue simulating liquid

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1.12 Test Standards and Limits

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According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

(1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube). Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure.

Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

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(2) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.(Table .6)

Human Exposure	Uncontrolled Environment	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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GSM 850 MHZ

OSIVI O						
Right Head	(Cheek Po	osition)				
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
	128	824.2	32.5dbm	0.377	22.1	21.7
850 MHz	190	836.6	32.5dbm	0.464	22.1	21.7
	251	848.8	32.7dbm	32.7dbm 0.48		21.7
Left Head (0	Cheek Pos	ition)				
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
	128	824.2	32.5dbm	0.306	22.1	21.7
850 MHz	190	836.6	32.5dbm	0.346	22.1	21.7
	251	848.8	32.7dbm	0.303	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
	128	824.2	32.5dbm	0.388	22.1	21.7
850 MHz	190	836.6	32.5dbm	0.519	22.1	21.7
251		848.8	32.7dbm	0.512	22.1	21.7
Left Head (15° Tilt Po	sition)	CITCA			l
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
	128	824.2	32.5dbm	0.264	22.1	21.7
850 MHz	190	836.6	32.5dbm	0.31	22.1	21.7
	251	848.8	32.7dbm	0.283	22.1	21.7
Right Head (15° Tilt Position)_repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	190	836.6	32.5dbm	0.306	22.1	21.7

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			1		rage. I	0 01 00	
Right Head (15° Tilt Position)_repeated with Bluetooth active							
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]	
850 MHz	190	836.6	32.5dbm	0.471	22.1	21.7	
Body worn							
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid	
			Power (Average)	1g	Temp[°C]	Temp[°C]	
	128	824.2	27dbm	0.256	22.1	21.7	
850 MHz	190	836.6	27.1dbm	0.373	22.1	21.7	
	251	848.8	27.2dbm	0.385	22.1	21.7	

PCS 1900 MHZ

	1 00 1700 1/11/12						
Right Head	(Cheek Po	osition)					
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]	
	512	1850.2	29.4dbm	0.101	22.1	21.7	
1900 MHz	661	1880	29.3dbm	0.082	22.1	21.7	
	810	1909.8	29.2dbm	0.058	22.1	21.7	
Left Head (0	Cheek Pos	ition)					
Frequency	Channel	MHz	Conducted Output Measured(W/kg) Power (Average) 1g		Amb. Temp[°C]	Liquid Temp[°C]	
	512	1850.2	29.4dbm	0.121	22.1	21.7	
1900 MHz 661		1880	29.3dbm	0.093	22.1	21.7	
	810 1909.8 29.2dbm		0.061 22.1		21.7		
Right Head	(15° Tilt I	Position	1)			\	
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]	
	512	1850.2	29.4dbm	0.109	22.1	21.7	
1900 MHz	661	1880	29.3dbm	0.09	22.1	21.7	
	810	1909.8	29.2dbm	0.063	22.1	21.7	

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Left Head (1	15° Tilt Po	sition)				
Frequency	Channel	MHz(Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C
1	512 1850.2 29.4dbm 0.148		22.1	21.7		
1900 MHz	661	1880	29.3dbm	0.107	22.1	21.7
	810	1909.8	29.2dbm 0.067		22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
	512	1850.2	25.2dbm	0.707	22.1	21.7
1900 MHz 661		1880	25dbm	0.782	22.1	21.7
	810	1909.8	25.1dbm	0.537	22.1	21.7
Body worn _repeated for EUT front to phantom						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	25dbm	0.04	22.1	21.7
Body worn _	repeated	with N	lemory card			
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	25dbm	0.77	22.1	21.7
Body worn _repeated with Bluetooth active						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz z	661	1880	25dbm	0.796	22.1	21.7

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

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3. Instruments List

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	850/1900MHz System Validation Dipole	D835V2 D1900V2	4d063 5d027	Jun.06.2008 Apr.15.2008
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	547	Jan.24.2008
Schmid & Partner		DASY 4		Calibration
Engineering AG	Software	V4.7	N/A	isn't
Liigiileeriiig Ad		Build71		necessary
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration isn't necessary
Agilent	Network Analyzer	8753D	3410A05547	Nov.14.2007
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration isn't necessary
Agilent	Dual-directional coupler	778D 777D	50313 50114	Aug.26.2008 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	Mar.11.2008

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4. Measurements

Date/Time: 2008/10/12 13:19:51

RE Cheek_CH128

DUT: PA600 Phone Edition;

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

Medium: Head 850 MHz Medium parameters used (interpolated): f = 824.2 MHz; $\sigma = 0.889$

mho/m; $\varepsilon_r = 42.7$; $\rho = 1000 \text{ kg/m}^3$ 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.429 mW/q

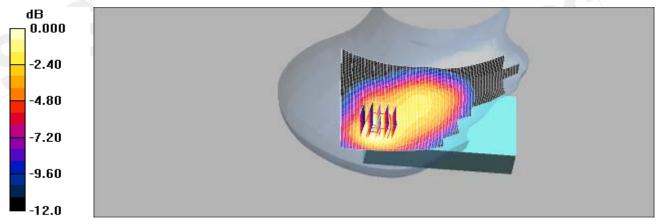
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.2 V/m; Power Drift = -0.144 dB

Peak SAR (extrapolated) = 0.588 W/kg

SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.242 mW/g

Maximum value of SAR (measured) = 0.400 mW/g



0 dB = 0.400 mW/q

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Date/Time: 2008/10/12 13:56:42

RE Cheek_CH190

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\varepsilon_r = 42.5$;

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

Phantom section: Right 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.521 mW/g

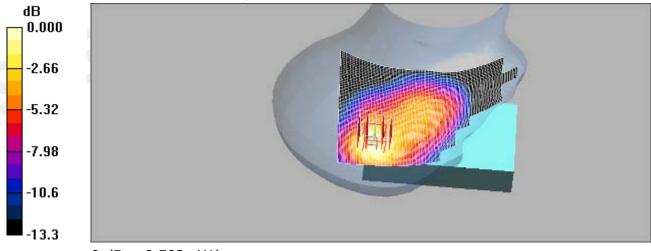
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.6 V/m; Power Drift = 0.192 dB

Peak SAR (extrapolated) = 0.731 W/kg

SAR(1 g) = 0.464 mW/g; SAR(10 g) = 0.289 mW/g

Maximum value of SAR (measured) = 0.502 mW/g



0 dB = 0.502 mW/g

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Date/Time: 2008/10/12 14:36:48

RE Cheek_CH251

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Head 850 MHz Medium parameters used: f = 849 MHz; $\sigma = 0.911$ mho/m; $\epsilon_r = 42.3$;

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

Phantom section: Right 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.535 mW/g

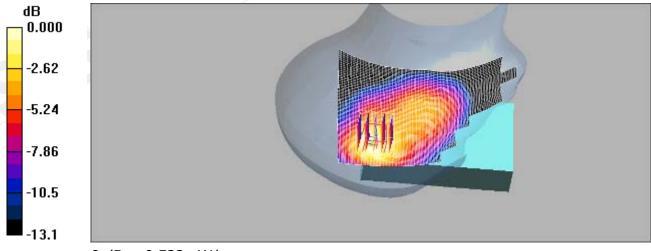
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.7 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.745 W/kg

SAR(1 g) = 0.480 mW/g; SAR(10 g) = 0.300 mW/g

Maximum value of SAR (measured) = 0.522 mW/g



0 dB = 0.522 mW/g

t (886-2) 2299-3279

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Date/Time: 2008/10/12 17:05:33

LE Cheek_CH128

DUT: PA600 Phone Edition;

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

Medium: Head 850 MHz Medium parameters used (interpolated): f = 824.2 MHz; $\sigma = 0.889$

mho/m; $\varepsilon_r = 42.7$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.326 mW/g

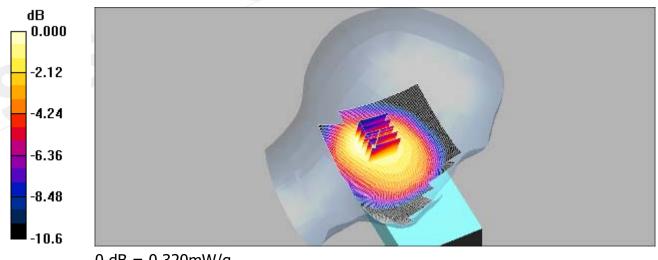
LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.1 V/m; Power Drift = -0.167 dB

Peak SAR (extrapolated) = 0.410 W/kg

SAR(1 g) = 0.306 mW/g; SAR(10 g) = 0.223 mW/g

Maximum value of SAR (measured) = 0.320 mW/g



0 dB = 0.320 mW/g

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Date/Time: 2008/10/12 17:42:17

LE Cheek_CH190

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\varepsilon_r = 42.5$;

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

Phantom section: Left 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.374 mW/g

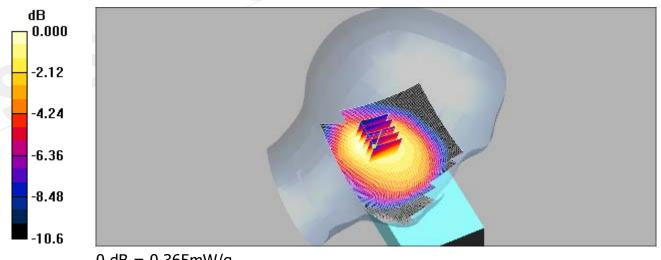
LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.8 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 0.469 W/kg

SAR(1 g) = 0.346 mW/g; SAR(10 g) = 0.249 mW/g

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



0 dB = 0.365 mW/g

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Date/Time: 2008/10/12 18:11:09

LE Cheek_CH251

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Head 850 MHz Medium parameters used: f = 849 MHz; $\sigma = 0.911$ mho/m; $\epsilon_r = 42.3$;

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

Phantom section: Left 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.328 mW/g

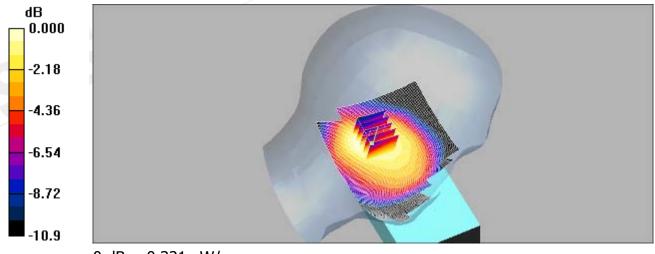
LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 0.409 W/kg

SAR(1 g) = 0.303 mW/g; SAR(10 g) = 0.218 mW/g

Maximum value of SAR (measured) = 0.321 mW/g



0 dB = 0.321 mW/g

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Date/Time: 2008/10/12 15:06:51

RE Tilt_CH128

DUT: PA600 Phone Edition;

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

Medium: Head 850 MHz Medium parameters used (interpolated): f = 824.2 MHz; $\sigma = 0.889$

mho/m; $\varepsilon_r = 42.7$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.442 mW/g

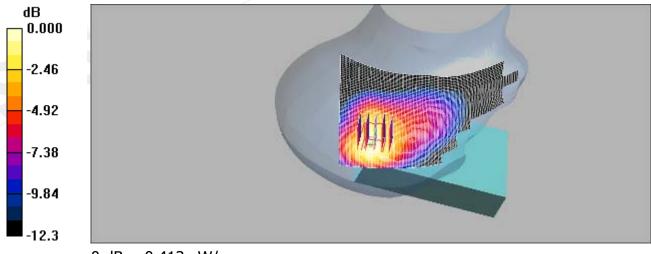
RE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.6 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 0.624 W/kg

SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.243 mW/g

Maximum value of SAR (measured) = 0.413 mW/g



0 dB = 0.413 mW/g

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Date/Time: 2008/10/12 15:45:29

RE Tilt_CH190

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\varepsilon_r = 42.5$;

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

Phantom section: Right 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.602 mW/g

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

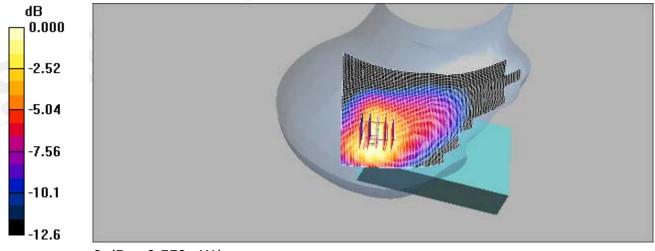
dz=5mm

Reference Value = 20.2 V/m; Power Drift = -0.159 dB

Peak SAR (extrapolated) = 0.837 W/kg

SAR(1 g) = 0.519 mW/g; SAR(10 g) = 0.323 mW/g

Maximum value of SAR (measured) = 0.550 mW/g



0 dB = 0.550 mW/g

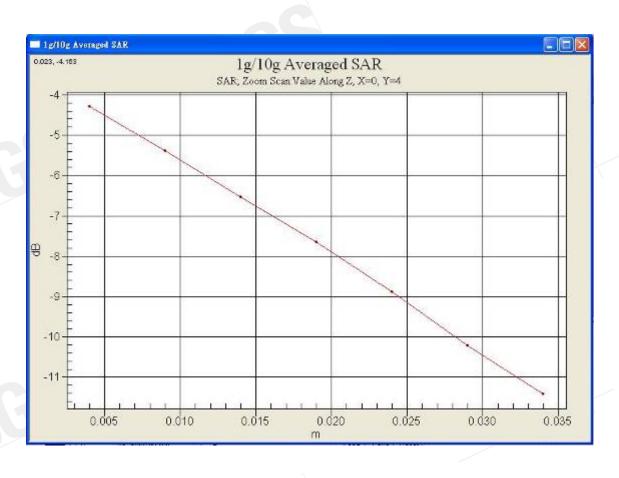
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Date/Time: 2008/10/12 16:23:52

RE Tilt_CH251

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Head 850 MHz Medium parameters used: f = 849 MHz; $\sigma = 0.911$ mho/m; $\varepsilon_r = 42.3$;

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

Phantom section: Right 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.583 mW/g

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

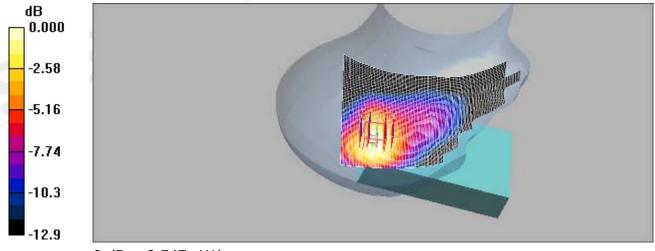
dz=5mm

Reference Value = 19.2 V/m; Power Drift = -0.039 dB

Peak SAR (extrapolated) = 0.815 W/kg

SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.319 mW/g

Maximum value of SAR (measured) = 0.547 mW/g



0 dB = 0.547 mW/g

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Date/Time: 2008/10/12 18:52:23

LE Tilt_CH128

DUT: PA600 Phone Edition;

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

Medium: Head 850 MHz Medium parameters used (interpolated): f = 824.2 MHz; $\sigma = 0.889$

mho/m; $\varepsilon_r = 42.7$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.280 mW/g

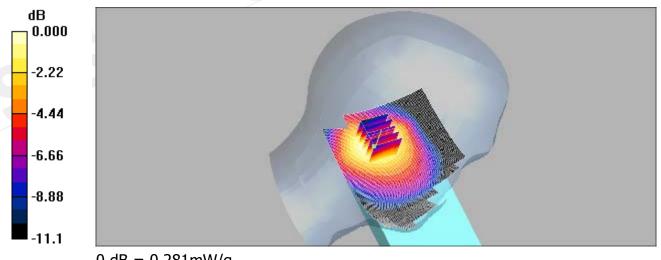
LE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.375 W/kg

SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.184 mW/g

Maximum value of SAR (measured) = 0.281 mW/g



0 dB = 0.281 mW/g

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Date/Time: 2008/10/12 19:31:47

LE Tilt_CH190

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.5$;

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

Phantom section: Left 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.331 mW/g

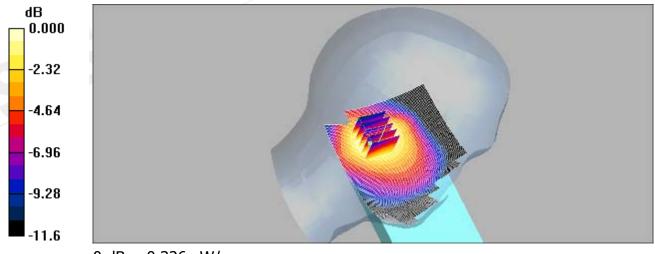
LE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.6 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.443 W/kg

SAR(1 g) = 0.310 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.326 mW/g



0 dB = 0.326 mW/g

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Date/Time: 2008/10/12 20:08:51

LE Tilt_CH251

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Head 850 MHz Medium parameters used: f = 849 MHz; $\sigma = 0.911$ mho/m; $\varepsilon_r = 42.3$;

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

Phantom section: Left 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.300 mW/g

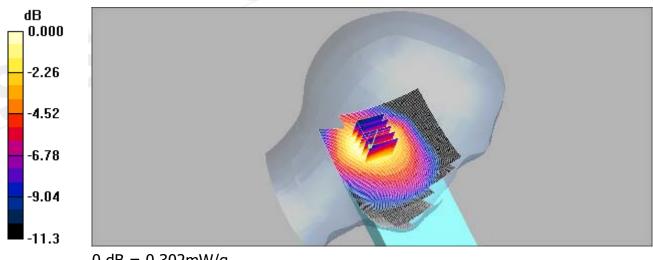
LE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.5 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 0.403 W/kg

SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.194 mW/g

Maximum value of SAR (measured) = 0.302 mW/g



0 dB = 0.302 mW/g

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Date/Time: 2008/10/12 20:52:46

RE Tilt_CH190_repeated with Memory card

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.5$;

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

Phantom section: Right 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.344 mW/g

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

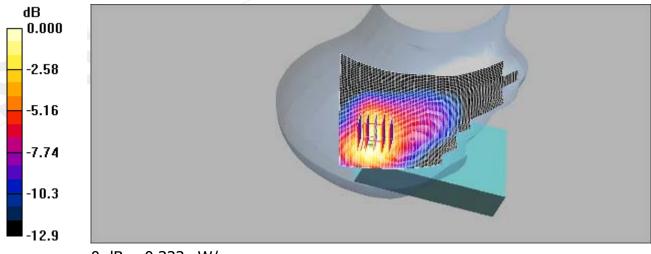
dz=5mm

Reference Value = 14.6 V/m; Power Drift = 0.172 dB

Peak SAR (extrapolated) = 0.497 W/kg

SAR(1 g) = 0.306 mW/g; SAR(10 g) = 0.188 mW/g

Maximum value of SAR (measured) = 0.323 mW/g



0 dB = 0.323 mW/g

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Date/Time: 2008/10/12 21:31:24

RE Tilt_CH190_repeated with Bluetooth active

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850 MHz Medium parameters used: f = 837 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.5$;

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

Phantom section: Right 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: 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.516 mW/g

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

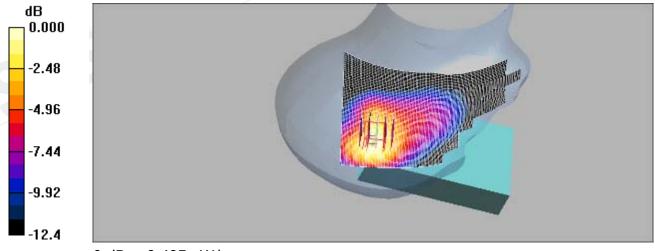
dz=5mm

Reference Value = 18.4 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 0.753 W/kg

SAR(1 g) = 0.471 mW/g; SAR(10 g) = 0.292 mW/g

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



0 dB = 0.495 mW/g

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Date/Time: 2008/10/14 07:33:20

BODY_CH128

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:2

Medium: Muscle 900 MHz Medium parameters used (interpolated): f = 824.2 MHz; $\sigma = 0.995$

mho/m; $\varepsilon_r = 55.1$; $\rho = 1000 \text{ kg/m}^3$ 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: SAM1; Type: SAM 4.0; Serial: TP:1419

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

BODY/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.270 mW/g

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

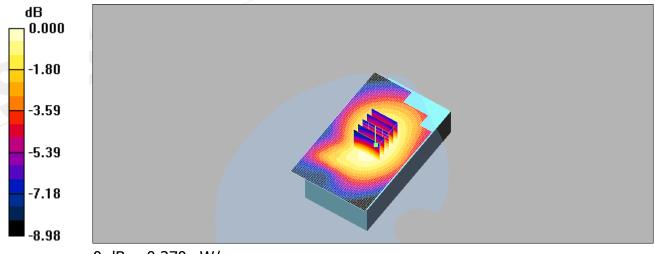
dz=5mm

Reference Value = 7.94 V/m; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.256 mW/g; SAR(10 g) = 0.193 mW/g

Maximum value of SAR (measured) = 0.270 mW/g



0 dB = 0.270 mW/g

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Date/Time: 2008/10/14 08:05:41

BODY_CH190

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:2

Medium: Muscle 900 MHz Medium parameters used: f = 837 MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 55$;

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

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

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

BODY/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

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

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

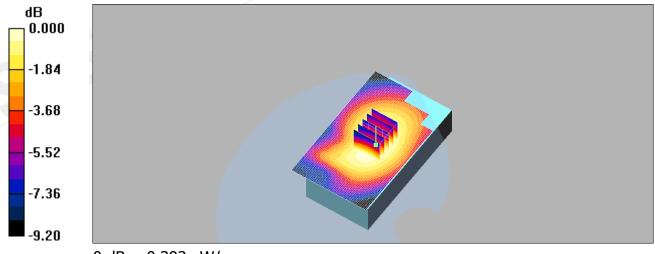
dz=5mm

Reference Value = 10.3 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.482 W/kg

SAR(1 g) = 0.373 mW/g; SAR(10 g) = 0.279 mW/g

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



0 dB = 0.393 mW/g

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Date/Time: 2008/10/14 08:43:01

BODY_CH251

DUT: PA600 Phone Edition;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:2

Medium: Muscle 900 MHz Medium parameters used: f = 849 MHz; $\sigma = 1.02$ mho/m; $\epsilon_r =$

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

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

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

BODY/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.406 mW/g

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

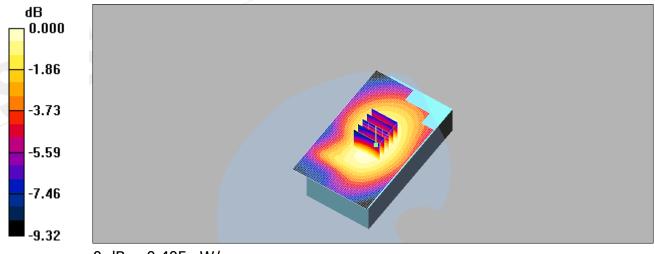
dz=5mm

Reference Value = 10.9 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 0.505 W/kg

SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.287 mW/g

Maximum value of SAR (measured) = 0.405 mW/g



0 dB = 0.405 mW/g

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Date/Time: 2008/10/12 04:05:12

RE Cheek_CH512

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.35$

mho/m; $\varepsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.111 mW/g

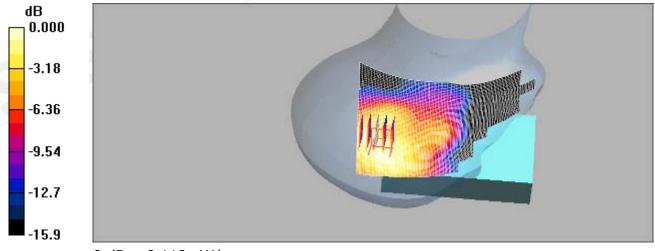
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.24 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 0.169 W/kg

SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.061 mW/g

Maximum value of SAR (measured) = 0.110 mW/g



0 dB = 0.110 mW/g

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Date/Time: 2008/10/12 04:49:55

RE Cheek_CH661

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used: f = 1880 MHz; $\sigma = 1.38$ mho/m; $\epsilon_r =$

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

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.089 mW/g

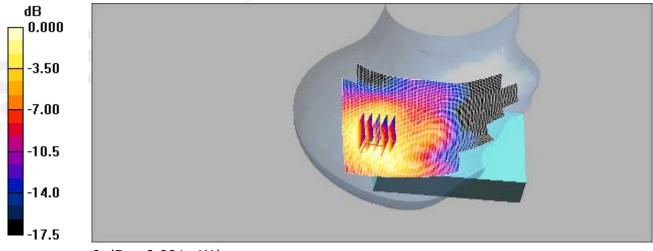
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.96 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 0.141 W/kg

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.091 mW/g



0 dB = 0.091 mW/g

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Date/Time: 2008/10/12 05:26:11

RE Cheek_CH810

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used: f = 1910 MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 41$;

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

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.064 mW/g

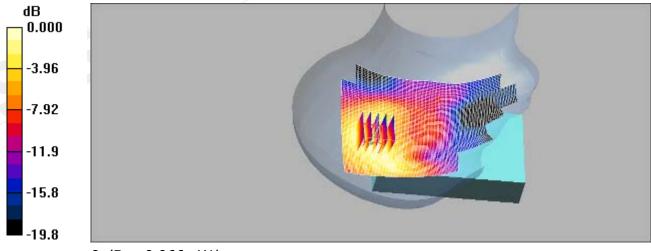
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.86 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 0.106 W/kg

SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.032 mW/g

Maximum value of SAR (measured) = 0.066 mW/g



0 dB = 0.066 mW/g

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Date/Time: 2008/10/12 08:11:00

LE Cheek_CH512

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.35$

mho/m; $\varepsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.136 mW/g

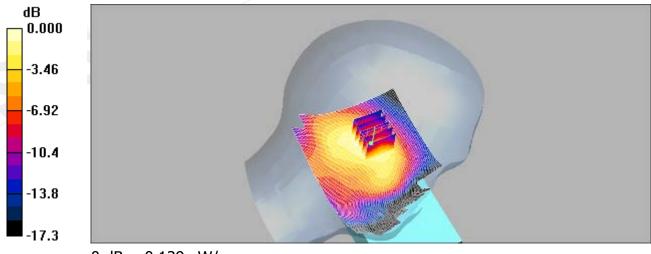
LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.97 V/m; Power Drift = -0.126 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.073 mW/g

Maximum value of SAR (measured) = 0.129 mW/g



0 dB = 0.129 mW/g

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Date/Time: 2008/10/12 08:59:35

LE Cheek_CH661

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used: f = 1880 MHz; $\sigma = 1.38$ mho/m; $\epsilon_r =$

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

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.104 mW/g

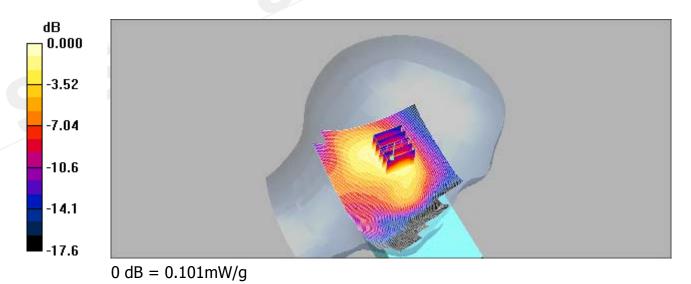
LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.38 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.152 W/kg

SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.055 mW/g

Maximum value of SAR (measured) = 0.101 mW/g



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Date/Time: 2008/10/12 09:36:58

LE Cheek_CH810

DUT: PA600 Phone Edition:

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used: f = 1910 MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 41$;

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

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.067 mW/g

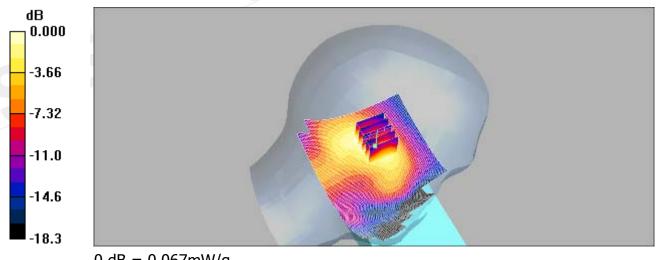
LE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.64 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 0.101 W/kg

SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.035 mW/g

Maximum value of SAR (measured) = 0.067 mW/g



0 dB = 0.067 mW/g

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Date/Time: 2008/10/12 06:01:14

RE Tilt_CH512

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.35$

mho/m; $\varepsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.112 mW/g

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

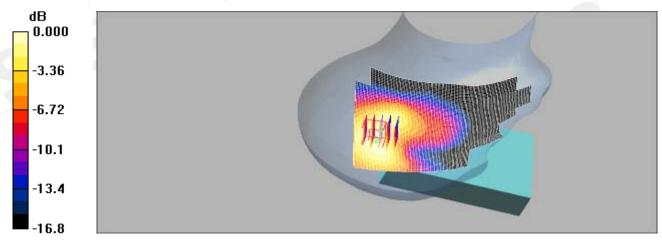
dz=5mm

Reference Value = 6.21 V/m; Power Drift = -0.092 dB

Peak SAR (extrapolated) = 0.175 W/kg

SAR(1 g) = 0.109 mW/g; SAR(10 g) = 0.066 mW/g

Maximum value of SAR (measured) = 0.116 mW/g



0 dB = 0.116 mW/q

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Date/Time: 2008/10/12 06:43:10

RE Tilt_CH661

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used: f = 1880 MHz; $\sigma = 1.38$ mho/m; $\epsilon_r =$

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

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.098 mW/g

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

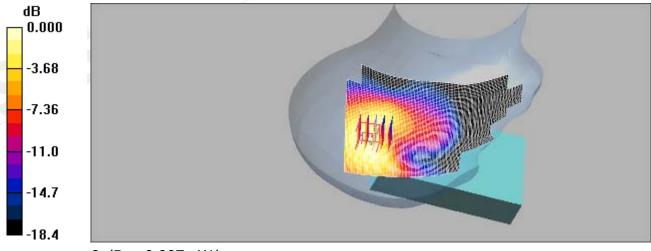
dz=5mm

Reference Value = 4.59 V/m; Power Drift = -0.178 dB

Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.052 mW/g

Maximum value of SAR (measured) = 0.097 mW/g



0 dB = 0.097 mW/g

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Date/Time: 2008/10/12 07:21:01

RE Tilt_CH810

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used: f = 1910 MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 41$;

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

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.070 mW/g

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

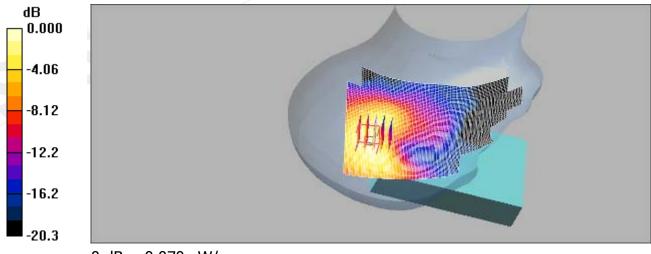
dz=5mm

Reference Value = 3.27 V/m; Power Drift = 0.170 dB

Peak SAR (extrapolated) = 0.115 W/kg

SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.035 mW/g

Maximum value of SAR (measured) = 0.070 mW/g



0 dB = 0.070 mW/g

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Date/Time: 2008/10/12 10:11:11

LE Tilt_CH512

DUT: PA600 Phone Edition:

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.35$

mho/m; $\varepsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.168 mW/g

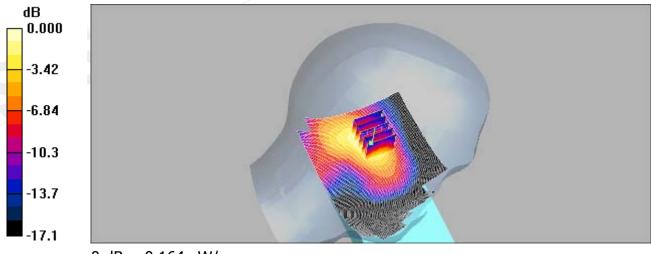
LE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.93 V/m; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 0.254 W/kg

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.084 mW/g

Maximum value of SAR (measured) = 0.164 mW/g



0 dB = 0.164 mW/g

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Date/Time: 2008/10/12 10:48:35

LE Tilt_CH661

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used: f = 1880 MHz; $\sigma = 1.38$ mho/m; $\epsilon_r =$

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

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.121 mW/g

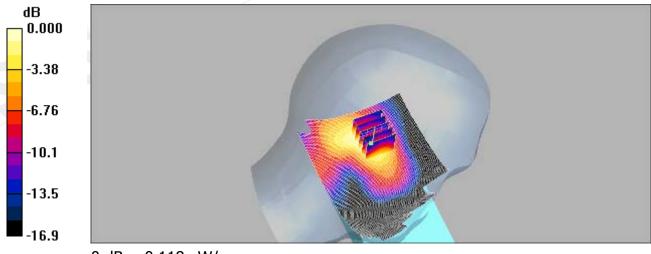
LE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.84 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 0.182 W/kg

SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.061 mW/g

Maximum value of SAR (measured) = 0.118 mW/g



0 dB = 0.118 mW/g

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Date/Time: 2008/10/12 11:15:48

LE Tilt_CH810

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used: f = 1910 MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 41$;

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

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); 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 (81x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.074 mW/g

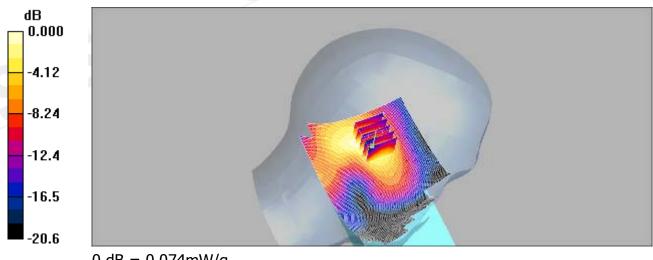
LE_Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.67 V/m; Power Drift = -0.082 dB

Peak SAR (extrapolated) = 0.116 W/kg

SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.037 mW/g

Maximum value of SAR (measured) = 0.074 mW/g



0 dB = 0.074 mW/g

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Date/Time: 2008/10/14 10:32:33

BODY_CH512

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium: M1800 & 1900 Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.52$

mho/m; $\varepsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); 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

BODY/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.807 mW/g

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

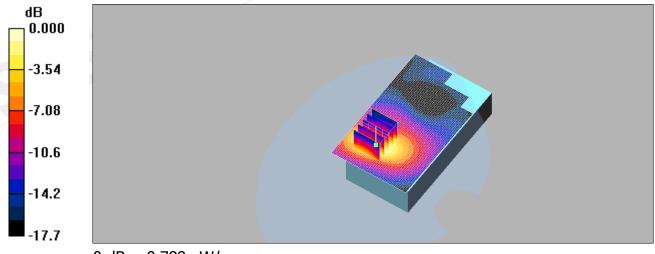
dz=5mm

Reference Value = 8.61 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.707 mW/g; SAR(10 g) = 0.380 mW/g

Maximum value of SAR (measured) = 0.789 mW/g



0 dB = 0.789 mW/g

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Date/Time: 2008/10/14 11:05:45

BODY_CH661

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: M1800 & 1900 Medium parameters used: f = 1880 MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); 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

BODY/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.882 mW/g

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

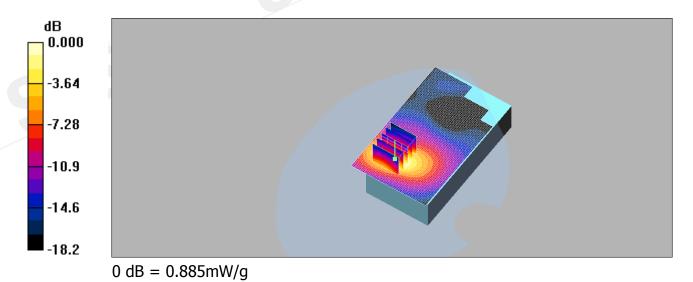
dz=5mm

Reference Value = 9.51 V/m; Power Drift = 0.093 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.782 mW/g; SAR(10 g) = 0.414 mW/g

Maximum value of SAR (measured) = 0.885 mW/g



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Date/Time: 2008/10/14 11:46:35

BODY_CH810

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: M1800 & 1900 Medium parameters used: f = 1910 MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 52.6$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); 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

BODY/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.611 mW/g

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

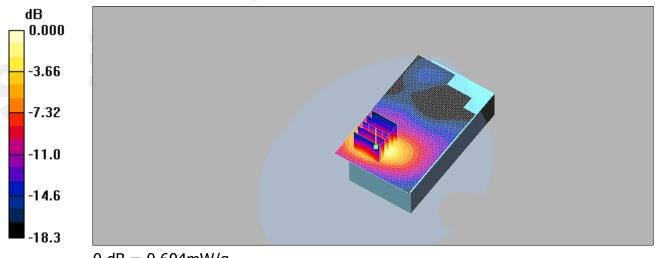
dz=5mm

Reference Value = 8.17 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 0.943 W/kg

SAR(1 g) = 0.537 mW/g; SAR(10 g) = 0.281 mW/g

Maximum value of SAR (measured) = 0.604 mW/g



0 dB = 0.604 mW/g

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Date/Time: 2008/10/14 12:27:10

BODY_CH661_ repeated for EUT front to phantom

DUT: PA600 Phone Edition:

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: M1800 & 1900 Medium parameters used: f = 1880 MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); 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

BODY/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.042 mW/g

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

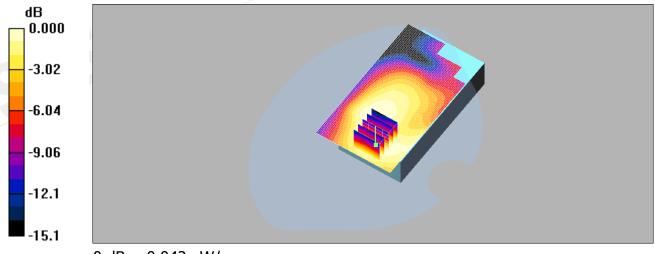
dz=5mm

Reference Value = 4.90 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 0.060 W/kg

SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.042 mW/g



0 dB = 0.042 mW/g

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Date/Time: 2008/10/14 13:09:01

BODY_CH661_repeated with Memory card

DUT: PA600 Phone Edition:

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: M1800 & 1900 Medium parameters used: f = 1880 MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); 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

BODY/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.865 mW/g

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

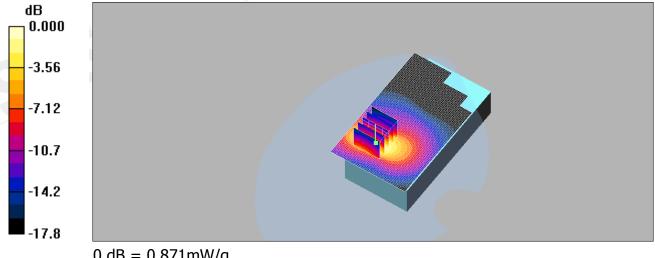
dz=5mm

Reference Value = 7.09 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.770 mW/g; SAR(10 g) = 0.403 mW/g

Maximum value of SAR (measured) = 0.871 mW/g



0 dB = 0.871 mW/g

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Date/Time: 2008/10/14 13:43:41

BODY_CH661_repeated with Bluetooth active

DUT: PA600 Phone Edition;

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: M1800 & 1900 Medium parameters used: f = 1880 MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); 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

BODY/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.910 mW/g

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

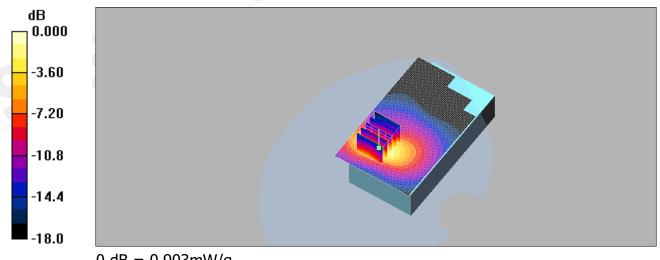
dz=5mm

Reference Value = 8.12 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.796 mW/g; SAR(10 g) = 0.416 mW/g

Maximum value of SAR (measured) = 0.903 mW/g



0 dB = 0.903 mW/g

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5. System Verification

Date/Time: 2008/10/12 12:37:31

DUT: Dipole 835 MHz;

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

Medium: Head 900 MHz Medium parameters used: f = 835 MHz; $\sigma = 0.899$ mho/m; $\epsilon_r = 42.5$;

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

Phantom section: Flat Section

Probe: EX3DV3 - SN3526; ConvF(11.48, 11.48, 11.48); 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) = 2.63 mW/g

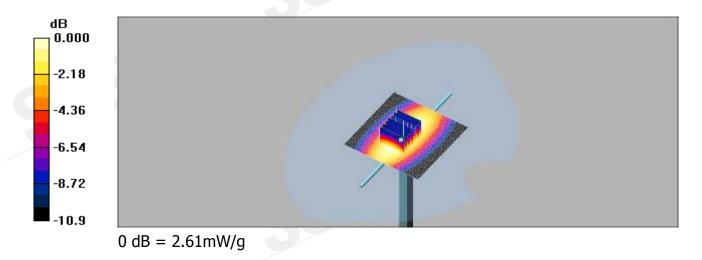
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 53.9 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 3.69 W/kg

SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.47 mW/gMaximum value of SAR (measured) = 2.61 mW/g



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Page: 59 of 88

Date/Time: 2008/10/12 03:21:25

DUT: Dipole 1900 MHz;

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: Head 1900MHz Medium parameters used: f = 1810 MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 41.2$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); 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 (51x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 14.4 mW/g

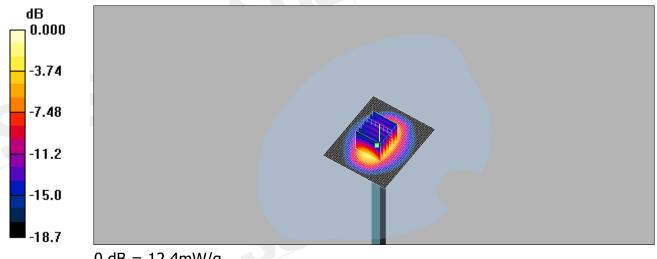
Pin=250mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 93.9 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 20.5 W/kg

SAR(1 g) = 10.8 mW/g; SAR(10 g) = 5.5 mW/gMaximum value of SAR (measured) = 12.4 mW/g



0 dB = 12.4 mW/q

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Date/Time: 2008/10/14 06:21:41

DUT: Dipole 835 MHz;

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

Medium: Muscle 900 MHz Medium parameters used: f = 835 MHz; $\sigma = 1$ mho/m; $\epsilon_r = 55$; ρ

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

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: 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) = 2.81 mW/g

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

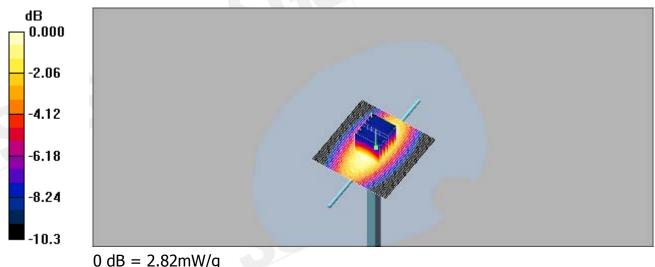
dy=5mm, dz=5mm

Reference Value = 53.0 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 3.91 W/kg

SAR(1 g) = 2.52 mW/g; SAR(10 g) = 1.72 mW/g

Maximum value of SAR (measured) = 2.82 mW/g



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Date/Time: 2008/10/14 09:52:12

DUT: Dipole 1900 MHz;

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: M1800 & 1900 Medium parameters used: f = 1900 MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 52.6$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(9.64, 9.64, 9.64); 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 (51x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.1 mW/g

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

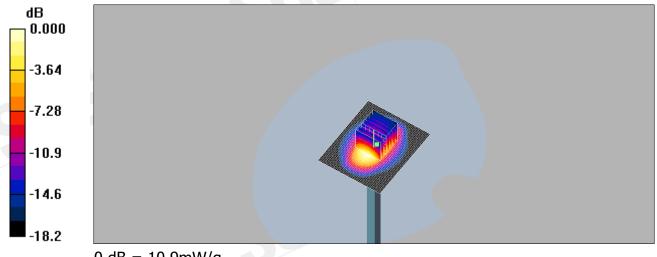
dy=5mm, dz=5mm

Reference Value = 83.8 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 9.68 mW/g; SAR(10 g) = 5.01 mW/g

Maximum value of SAR (measured) = 10.9 mW/g



0 dB = 10.9 mW/g

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6. DAE & Probe Calibration certificate

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





Schweizerischer Kallbrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

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SGS (Auden)

Certificate No: DAE4-547 Jan08

Accreditation No.: SCS 108

	DAE4 OD 000 D	04 DA CNI: E47	
Object	DAE4 - SD 000 D	04 BA - SN; 547	
Calibration procedure(s)	QA CAL-06.v12 Calibration proced	lure for the data acquisition electr	ronics (DAE)
Calibration date:	January 24, 2008		
Condition of the calibrated item	In Tolerance		
All calibrations have been conducte Calibration Equipment used (M&TE		facility: environment temperature (22 ± 3)°C	and humidity < 70%.
	47.5%		
	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Fluke Process Calibrator Type 702	100	Cai Date (Calibrated by, Certificate No.) 04-Oct-07 (Elcal AG, No: 6467) 03-Oct-07 (Elcal AG, No: 6465)	Scheduled Calibration Oct-08 Oct-08
Fluke Process Calibrator Type 702 Keithley Multimeter Type 2001 Secondary Standards	SN: 6295803 SN: 0810278	04-Oct-07 (Elcal AG, No: 6467) 03-Oct-07 (Elcal AG, No: 6465) Check Date (in house)	Oct-08 Oct-08 Spheduled Check
Fluke Process Calibrator Type 702 Keithiey Multimeter Type 2001 Secondary Standards	SN: 6295803 SN: 0810278	04-Oct-07 (Elcal AG, No: 6467) 03-Oct-07 (Elcal AG, No: 6465)	Oct-08 Oct-08
Primary Standards Fluke Process Calibrator Type 702 Keithley Multimeter Type 2001 Secondary Standards Calibrator Box V1.1	SN: 6295803 SN: 0810278	04-Oct-07 (Elcal AG, No: 6467) 03-Oct-07 (Elcal AG, No: 6465) Check Date (in house)	Oct-08 Oct-08 Spheduled Check
Fluke Process Calibrator Type 702 Keithiey Multimeter Type 2001 Secondary Standards	SN: 6295803 SN: 0810278 ID # SE UMS 006 AB 1004	04-Oct-07 (Elcal AG, No: 6467) 03-Oct-07 (Elcal AG, No: 6465) Check Date (in house) 25-Jun-07 (SPEAG, in house check)	Oct-08 Oct-08 Scheduled Check In house check Jun-08
Fluke Process Calibrator Type 702 Keithley Multimeter Type 2001 Secondary Standards Celibrator Box V1.1	SN: 6295803 SN: 0810278 ID # SE UMS 006 AB 1004 Name	04-Oct-07 (Elcal AG, No: 6467) 03-Oct-07 (Elcal AG, No: 6465) Check Date (in house) 25-Jun-07 (SPEAG, in house check)	Oct-08 Oct-08 Scheduled Check In house check Jun-08

Certificate No: DAE4-547_Jan08

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Accreditation No.: SCS 108

SGS (Auden)		C	ertificate No: EX3-3526_Aug08
CALIBRATION (CERTIFICAT	E	
Object	EX3DV3 - SN:3	526	
Calibration procedure(s)		QA CAL-14.v3 and QA C edure for dosimetric E-fie	
Calibration date:	August 26, 2008	3	
Condition of the calibrated item	In Tolerance		
Calibration Equipment used (M&T	TE critical for calibration)	ory facility: environment temperatu	
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	1-Apr-08 (No. 217-00788)	Apr-09
Power sensor E4412A	MY41495277	1-Apr-08 (No. 217-00788)	Apr-09
Power sensor E4412A	MY41498087	1-Apr-08 (No. 217-00788)	Apr-09
Reference 3 dB Attenuator	SN: S5054 (3c)	1-Jul-08 (No. 217-00865)	Jul-09 Apr-09
Reference 20 dB Attenuator	SN: S5086 (20b)	31-Mar-08 (No. 217-00787) 1-Jul-08 (No. 217-00866)	Apr-09 Jul-09
Reference 30 dB Attenuator Reference Probe ES3DV2	SN: S5129 (30b) SN: 3013	2-Jan-08 (No. ES3-3013 Jan0	
DAE4	SN: 660	3-Sep-07 (No. DAE4-660_Sep	
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-	-07) In house check: Oct-09
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct	
	Name	Function	Signature
Calibrated by:	Katja Pokovic	Technical Manage	er John Ry
Approved by:	Niels Kuster	Quality Manager	X / /
Approved by.	Alloid Addida		11.100

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Certificate No: EX3-3526_Aug08

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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage

C Service suisse d'étalonnage Servizio svizzero di taratura S Swiss Calibration Service

Accreditation No.: SCS 108

Accredited by the Swiss Accreditation Service (SAS)

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Glossary:

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

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

measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

 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 9 = 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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SGS Taiwan Ltd.



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EX3DV3 SN:3526

August 26, 2008



Probe EX3DV3

SN:3526

Manufactured:

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

Last calibrated: Recalibrated:

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3526_Aug08

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No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路 134 號

台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com



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EX3DV3 SN:3526

August 26, 2008

DASY - Parameters of Probe: EX3DV3 SN:3526

Sensitivity	in	Free	SpaceA
Sensitivity	111	1166	Space

Diode Compression^B

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

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL

Typical SAR gradient: 5 % per mm 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

TSI

Typical SAR gradient: 10 % per mm 1810 MHz

Sensor Cente	er to Phantom Surface Distance	2.0 mm	3.0 mm
SAR _{be} [%]	Without Correction Algorithm	6.8	3.6
SAR. [%]	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.



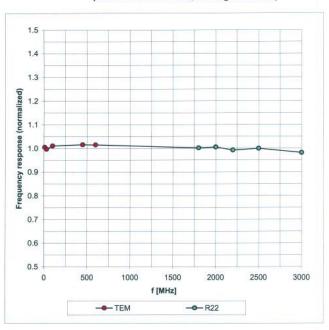
Page: 67 of 88

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)

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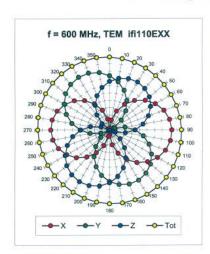


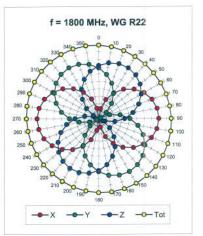
Page: 68 of 88

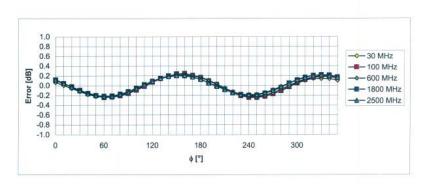
EX3DV3 SN:3526

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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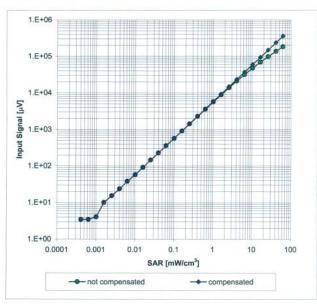
Page: 69 of 88

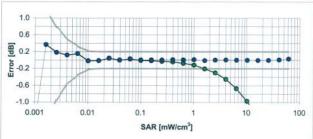
EX3DV3 SN:3526

August 26, 2008

Dynamic Range f(SAR_{head})

(Waveguide R22, f = 1800 MHz)





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

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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%	$1.40 \pm 5\%$	0.58	0.61	9.15	± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	$1.80 \pm 5\%$	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%	$1.52 \pm 5\%$	0.45	0.78	9.17	± 11.0% (k=2)
2450	± 50 / ± 100	Body	$52.7 \pm 5\%$	$1.95 \pm 5\%$	0.44	0.80	8.18	± 11.0% (k=2)
2600	± 50 / ± 100	Body	52.5 ± 5%	$2.16 \pm 5\%$	0.47	0.76	8.14	± 11.0% (k=2)
3500	± 50 / ± 100	Body	51.3 ± 5%	$3.31 \pm 5\%$	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%	$5.65 \pm 5\%$	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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 $^{^{\}mathrm{C}}$ The validity of \pm 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.



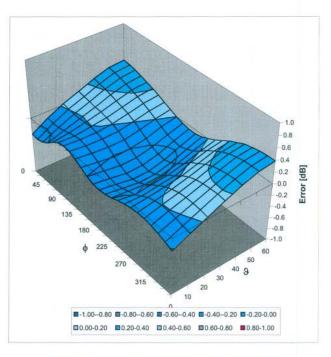
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EX3DV3 SN:3526

August 26, 2008

Deviation from Isotropy in HSL

Error (φ, θ), f = 900 MHz



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

Certificate No: EX3-3526 Aug08

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7. Uncertainty Analysis

j	DASY4 U					t		
Error Description	Uncertainty value	Prob. Dist.	Div.	$\begin{pmatrix} (c_i) \\ 1 \end{pmatrix}$	$\begin{pmatrix} (c_i) \\ 10g \end{pmatrix}$	Std. Unc. (1g)	Std. Unc. (10g)	$\begin{pmatrix} v_i \end{pmatrix} \\ v_{eff}$
Measurement System							1 00	
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 %	∞
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	±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

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland 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 Zürich Switzerland	

Tests

The series production process used allows the limitation to test of first articles. Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series items (called samples) or are tested at each item.

Test	Requirement	Details	Units tested
Dimensions	Compliant with the geometry according to the CAD model.	IT'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

Signature / Stamp

- 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

td & Pagner Engineering AG haussplesse 43, 8004 Zurldt Switzerland e s41,1 Jet 8700 Fav 44 17 245 9779

Doc No 881 - QD 000 P40 C - F

Page

1 (1)

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9. System Validation from Original equipment supplier

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





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

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

Accreditation No.: SCS 108

Client SGS /Ai

ALIBKATION	CERTIFICATE		
Object	D835V2 - SN: 4d		
		7900	
Calibration procedure(s)	QA CAL-05.v7 Calibration proce	edure for dipole validation kits	
Calibration date:	June 06, 2008		
Condition of the calibrated item	In Tolerance		HE STEEL BY
All calibrations have been conduc		ry facility: environment temperature (22 ± 3)°C and	d humidity < 70%.
	Longe.	0.10.4.00.00.4.00.00.00.4.00.4	Related to a College Control
	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
ower meter EPM-442A	GB37480704	04-Oct-07 (METAS, No. 217-00736)	Oct-08
ower meter EPM-442A ower sensor HP 8481A	GB37480704 US37292783	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00736)	Oct-08 Oct-08
ower meter EPM-442A ower sensor HP 8481A reference 20 dB Attenuator	GB37480704 US37292783 SN: 5086 (20g)	04-Oct-07 (METAS, No. 217-00796) 04-Oct-07 (METAS, No. 217-00798) 07-Aug-07 (METAS, No. 217-00718)	Oct-08 Oct-08 Aug-08
ower meter EPM-442A ower sensor HP 8481A eference 20 dB Attenuator ype-N mismatch combination	GB37480704 US37292783	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00736)	Oct-08 Oct-08
ower meter EPM-442A ower sensor HP 8481A eference 20 dB Attenuator ype-N mismatch combination eference Probe ES3DV2	GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 / 06327	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)	Oct-08 Oct-08 Aug-08 Aug-08
ower meter EPM-442A tower sensor HP 8481A leference 20 dB Attenuator ype-N mismatch combination yee-Probe ES3DV2 AE4	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
rower meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator ype-N mismatch combination reference Probe ES3DV2 IAE4 Recondary Standards	GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 / 06327 SN: 3025 SN: 601	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) 14-Mar-08 (No. DAE4-601_Mar08)	Oct-08 Oct-08 Aug-06 Aug-06 Apr-09 Mar-09
ower meter EPM-442A cover sensor HP 8481A deference 20 dB Attenuator type-N mismatch combination teference Probe ES3DV2 tAE4 econdary Standards ower sensor HP 8481A F generator R&S SMT-06	GB37480704 US37292783 SN: 8086 (20g) SN: 5047.2 / 06327 SN: 3025 SN: 601 ID # MY41092317 100005	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00736) 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 Data (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
rower meter EPM-442A rower sensor HP 8481A teference 20 d8 Attenuator type-N mismatch combination teference Probe ES3DV2 tAE4 tecondary Standards rower sensor HP 8481A to generator R&S SMT-06	GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 / 06327 SN: 3025 SN: 601 ID # MY41092317	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00736) 07-Aug-07 (METAS, No. 217-00716) 08-Aug-07 (No. 217-00721) 28-Apr-08 (No. ES3-3025_Apr08) 14-Mar-08 (No. DAE4-601_Mar08) Check Date (in house)	Oct-08 Oct-08 Aug-08 Aug-08 Apr-09 Mar-09 Scheduled Check In house check: Oct-09
rower meter EPM-442A rower sensor HP 8481A teference 20 d8 Attenuator type-N mismatch combination teference Probe ES3DV2 tAE4 tecondary Standards rower sensor HP 8481A to generator R&S SMT-06	GB37480704 US37292783 SN: 8086 (20g) SN: 5047.2 / 06327 SN: 3025 SN: 601 ID # MY41092317 100005	04-Oct-07 (METAS, No. 217-00736) 04-Oct-07 (METAS, No. 217-00736) 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 Data (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
rower meter EPM-442A rower sensor HP 8481A teference 20 dB Attenuator ype-N mismatch combination teference Probe ES3DV2 AE4 secondary Standards rower sensor HP 8481A Er generator R&S SMT-06 setwork Analyzer HP 8753E	GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 / 08327 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. ES3-3025, Apr08) 14-Mar-08 (No. DAE4-601_Mar08) Check Data (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-08 Signature
Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV2 DAE4 Recondary Standards Power sensor HP 8481A RF generator R&S SMT-06 Rectwork Analyzer HP 8753E Calibrated by:	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. ES3-3025_Apr08) 14-Mar-08 (No. DAE4-601_Mar08) Chock 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-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

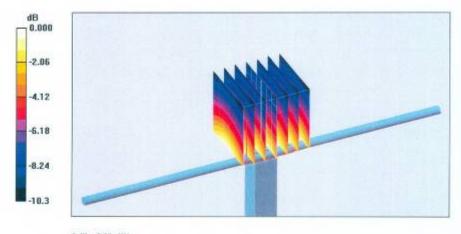
Pin=250mW; dip=15mm; dist=3.4mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

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; ConvF(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

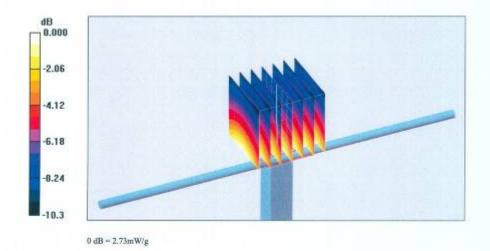
Pin = 250mW, d = 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

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/g Maximum value of SAR (measured) = 2.73 mW/g



Certificate No: D835V2-4d063 Jun08

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





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

Accredited by the Swiss Federal Office of Metrology and Accreditation The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

SGS (Auden)

Accreditation No.: SCS 108

Certificate No: D1900V2-5d027 Apr08

Object	D1900V2 - SN: 5	d027	
Calibration procedure(s)	QA CAL-05.v7 Calibration proce	dure for dipole validation kits	
Calibration date:	April 15, 2008		
Condition of the calibrated item	In Tolerance		
Polihestian Equipment used (\$487	E critical for calibration		
	E critical for calibration)	Cal Date (Calibrated by Certificate No.)	Scheduled Calibration
Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator	ID # GB37480704 US37292783 SN: 5086 (20g)	Cal Date (Calibrated by, Certificate No.) 04-Oct-07 (No. 217-00736) 04-Oct-07 (No. 217-00736) 07-Aug-07 (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 Reference Probe ES3DV2	ID # GB37480704 US37292783	04-Oct-07 (No. 217-00736) 04-Oct-07 (No. 217-00736)	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 DAE4	ID # GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 / 06327 SN: 3025	04-Oct-07 (No. 217-00736) 04-Oct-07 (No. 217-00736) 07-Aug-07 (No. 217-00718) 08-Aug-07 (No. 217-00721) 01-Mar-08 (No. ES3-3025_Mar08) 14-Mar-08 (No. DAE4-601_Mar08)	Oct-08 Oct-08 Aug-08 Aug-08 Mar-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	04-0ct-07 (No. 217-00736) 04-0ct-07 (No. 217-00736) 07-Aug-07 (No. 217-00718) 08-Aug-07 (No. 217-00721) 01-Mer-08 (No. ES3-3025_Mar08)	Oct-08 Oct-08 Aug-08 Aug-08 Mar-09 Mar-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 # MY41082317 100005	04-Oct-07 (No. 217-00738) 04-Oct-07 (No. 217-00736) 07-Aug-07 (No. 217-00718) 08-Aug-07 (No. 217-00721) 01-Mar-08 (No. ES3-3025_Mar08) 14-Mar-08 (No. DAE4-801_Mar08) Check Date (in house) 18-Oct-02 (in house check Oct-07) 4-Aug-99 (in house check Oct-07)	Oct-08 Oct-08 Aug-08 Aug-08 Mar-09 Mar-09 Scheduled Check In house check: Oct-08 In house check: Oct-09
Calibration Equipment used (M&T Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenustor Type-N mismatch combination Reference Probe ES3DV2 DAE4 Secondary Standards Power sensor HP 8481A RF generator R&S SMT-06 Notwork Analyzer HP 8753E Calibrated by:	ID # GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 / 06327 SN: 3025 SN: 601 ID # MY41082317 100005 US37390685 S4206	04-Oct-07 (No. 217-00736) 04-Oct-07 (No. 217-00736) 07-Aug-07 (No. 217-00718) 08-Aug-07 (No. 217-00721) 01-Mar-08 (No. ES3-3025_Mar08) 14-Mar-08 (No. DAE4-601_Mar08) Check Date (in house) 18-Oct-02 (in house check Oct-07) 4-Aug-99 (in house check Oct-07) 18-Oct-01 (in house check Oct-07)	Oct-08 Oct-08 Aug-08 Aug-08 Aug-08 Mar-09 Mar-09 Scheduled Check In house check: Oct-08 In house check: Oct-09 In house check: Oct-08

Certificate No: D1900V2-5d027_Apr08

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DASY4 Validation Report for Head TSL

Date/Time: 08.04.2008 13:49:58

Test Laboratory: SPEAG, Zurich, Switzerland

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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL U10 BB;

Medium parameters used: f = 1900 MHz; σ = 1.47 mho/m; ϵ_r = 40.1; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

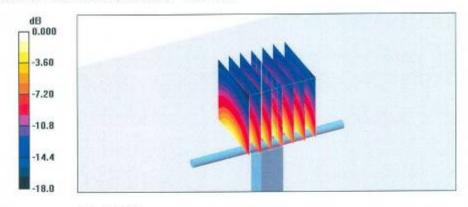
- Probe: ES3DV2 SN3025; ConvF(4.9, 4.9, 4.9); Calibrated: 01.03.2008
- · Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 92.2 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 19.1 W/kg

SAR(1 g) = 10.3 mW/g; SAR(10 g) = 5.3 mW/g Maximum value of SAR (measured) = 11.9 mW/g



0 dB = 11.9 mW/g

Certificate No: D1900V2-5d027_Apr08

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DASY4 Validation Report for Body TSL

Date/Time: 15.04.2008 13:51:25

Test Laboratory: SPEAG, Zurich, Switzerland

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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL U10 BB;

Medium parameters used: f = 1900 MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ES3DV2 - SN3025; ConvF(4.5, 4.5, 4.5); Calibrated: 01.03.2008

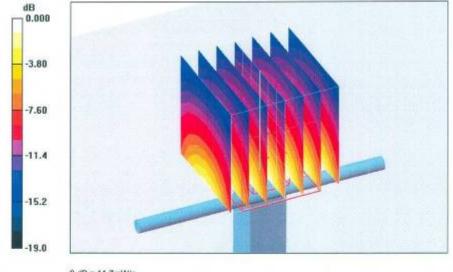
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 89.3 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 17.4 W/kg

SAR(1 g) = 9.64 mW/g; SAR(10 g) = 5.07 mW/g Maximum value of SAR (measured) = 11.7 mW/g



0 dB = 11.7 mW/g

Certificate No: D1900V2-5d027_Apr08

End of 1st part of report

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