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SAR TEST REPORT

Equipment Under Test	Notebook
Model Number of Host	IdeaPad S10-3t
Model No. for WLAN Module	AR5B95
FCC ID of WLAN Module	FCC ID: HFS-AR5B95
IC ID of WLAN Module	IC: 1787B-AR5B95
Company Name	Quanta Computer INC.
Company Address	No.188,Wen Hua 2nd Road,Kuei Shan Hsiang,Tao Yuan
	Hsien, Taiwan
Date of Receipt	2009.10.02
Date of Test(s)	2009.11.15,2009.12.02
Date of Issue	2009.12.11

Standards:

FCC OET Bulletin 65 supplement C, ANSI/IEEE C95.1, C95.3, IEEE 1528, **RSS102**

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

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

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Tested by : Ricky Huang

Asst. Supervisor

Approved by : Robert Chang

Date

2009.12.11

Tech Manager





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1. General Information

1.1 Testing Laboratory

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1.2 Details of Applicant

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1.3 Description of EUT

EUT Name	Notebook	
Model Number of Host	IdeaPad S10-3t	
Brand Name	lenovo	
FCC ID of of WLAN Module	HFS-AR5B95	
IC ID of of WLAN Module	1787B-AR5B95	
Definition	Production unit	
Mode of Operation	WLAN 802.11 b/g/n band	

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Duty Cycle	WLAN 802.11 b/g/n
Duty Cycle	1
TX Frequency range	WLAN802.11 b/g/n
(MHz)	2412-2462
Channel Number	WLAN802.11 b/g/n
(ARFCN)	1-11
Power Supply	7.4Vdc re-chargeable battery or
1 over suppry	20Vdc by AC/DC power adapter
 -	WLAN802.11b
	0.082W/kg
	(WLAN802.11b _ CH1_ Configuration 3)
	WLAN802.11g
	0.055W/kg
Max. SAR Measured	(WLAN802.11g _ CH1_ Configuration 3)
(1g)	WLAN802.11n(20M)
	0.042W/kg
	(WLAN802.11n _ CH1_ Configuration 3)
	WLAN802.11n(40M)
	0.029W/kg
	(WLAN802.11n _ CH3_ Configuration 3)

Note: 1. The highest 1-g SAR for WLAN is 0.082 W/kg and the highest 1-g SAR for WWAN/main is 1.44 W/kg. The sum of 1-g for simultaneous transmitting WLAN and WWAN antenna pair is 0.082+1.44 = 1.522 W/kg < 1.6 W/kg. According to KDB616217 Simultaneous SAR evaluation is not required.

P.S. The WWAN SAR report no. EN2009A0001, FCC ID: VV7-MBMF3607GW1, IC: 287AG-MBMF3607GW1.

2. The RX diversity antenna (Aux) has no transmit function. No need to test SAR.

1.4 Test Environment

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

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1.5 Operation description

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Use chipset specific software to control the EUT, and makes it transmit in maximum power. 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.

The test configuration tested at the low, middle and high frequency channels. We will test it with 3 configurations:

- Configuration 1: Bottom side of the Notebook is paralleled with flat phantom, open the panel with 90 degrees, bottom side is contact with flat phantom. (Appendix-Fig.3)
- Configuration 2: Bottom side of the Notebook is paralleled with panel and flat phantom, panel is pointing out of Notebook and bottom face is contact flat phantom. (Appendix-Fig.4)
- Configuration 3: Left side of Notebook is paralleled with flat phantom, panel pointing out of Notebook, and Notebook contact with flat phantom. (Appendix-Fig.5)

1.6 The SAR Measurement System

A photograph of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 4 professional system). A Model EX3DV3 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ ($|Ei|^2$)/ ρ where σ and p are the conductivity and mass density of the tissue-simulant.

The DASY4 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronics (DAE) which performs the signal amplification, signal

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multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc.

The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

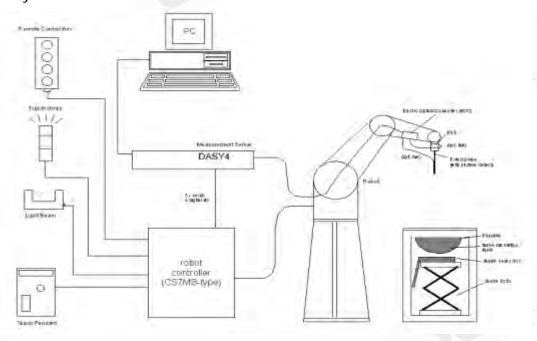


Fig.a The block diagram of SAR system

- 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.

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- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validate the proper functioning of the system.

1.7 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 HSL2450 MHZ		
	Additional CF for other liquids and		
	frequencies upon request		
Frequency	10 MHz to > 6 GHz, Linearity: ± 0.2 dB (30 MHz to 6 GHz)		
Directivity	± 0.3 dB in HSL (rotation around probe axis		
	± 0.5 dB in tissue material (rotation normal to probe axis)		
Dynamic Range	ynamic Range 10 μW/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 a	any exposure scenario	
	(e.g., very strong gradient fields). Only prob	e which enables	
	compliance testing for frequencies up to 6 GI	Hz with precision of better	
30%.			

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SAM PHANTOM V4.0C

SAM I HAN I OM	V T.00				
Construction	The shell corresponds to the specifications of the Specific				
	Anthropomorphic Mannequin (SAM) phantom defined in IEEE				
	1528-200X, CENELEC 50361 and IE	C 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 li-	quid. 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	(With			
Dimensions	Height: 251 mm;				
	Length: 1000 mm;	T T			
	Width: 500 mm				

DEVICE HOLDER

Construction	The device holder (Supporter) for	
	Notebook is made by POM	
	(polyoxymethylene resin), which is	
	non-metal and non-conductive. The	
	height can be adjusted to fit varies	
	kind of notebooks.	
		Device Holder

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1.8 SAR System Verification

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The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 5% from the target SAR values. These tests were done at 2450 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the ambient temperature of the laboratory was in the range 22.1°C, the relative humidity was in the range 62% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

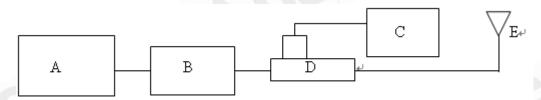
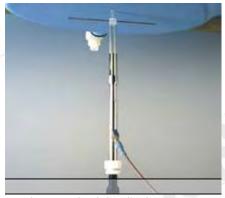


Fig.b The block diagram of system verification

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



Photograph of the dipole Antenna

Validation Kit	Frequency Hz	Target SAR (1g) (Pin=250mW)	Measured SAR (1g)	Measured Date
D2450V2 S/N: 727	2450 MHz (Body)	13.2m W/g	13.1mW/g	2009-11-15

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D2450V2	2450 MHz	13.2m W/g	12.0m\//a	2000 12 02
S/N: 727	(Body)	13.2111 W/g	12.911100/9	2009-12-02

Table 1. Results of system validation

1.9 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this body-simulant fluid were measured by using the Agilent Model 85070D Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with HP 8753D Network Analyzer (30 KHz-6000 MHz) 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. (Fig .2)

Frequency	Tissue type	Measurement date/	Dielectric Parameters				
(MHz)		Limits	ρ	σ (S/m)	Simulated Tissue		
					Temperature(° C)		
	Pody	Measured, 2009.11.15	54.4	2.02	21.7		
2450	Body	Recommended Limits	51.68-57.12	1.88-2.09	20-24		
	Pody	Measured, 2009.12.02	54.4	2.01	21.7		
2450	Body	Recommended Limits	51.68-57.12	1.88-2.09	20-24		

Table 2. Dielectric Parameters of Tissue Simulant Fluid

The composition of the body tissue simulating liquid is:

Ingredient	2450MHz (Body)		
DGMBE	301.7ml		
Water	698.3ml		
Salt	Χ		
Preventol D-7	Х		
Cellulose	X		
Sugar	Х		
Total amount	1 L (1.0kg)		

Table 3. Recipes for tissue simulating liquid

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1.10 EVALUATION PROCEDURES

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

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

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

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

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between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is the moved around until the highest averaged SAR is found. If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

1.11 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814.

SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

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

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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.

(3) 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 .4)

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

Table .4 RF exposure limits

Notes:

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

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2. Summary of Results

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WLAN802.11 b

Configuration 1: Bottom side of the Notebook is paralleled with flat phantom, open the panel with 90 degrees, bottom side is contact with flat phantom.

L				<u> </u>			
	Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
				Power (Peak)	1g	Temp[°C]	Temp[°C]
	2450MHz	1	2412	17.52dbm	0.00149	22.1	21.7
		6	2437	17.68dbm	0.0027	22.1	21.7
		11	2462	17.52dbm	0.00384	22.1	21.7

Configuration 2: Bottom side of the Notebook is paralleled with panel and flat phantom, panel is pointing out of Notebook and bottom face is contact flat phantom.

Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Peak)	1g	Temp[°C]	Temp[°C]
2450MHz	1	2412	17.52dbm	0.00306	22.1	21.7
	6	2437	17.68dbm	0.00294	22.1	21.7
	11	2462	17.52dbm	0.00377	22.1	21.7

Configuration 3: Left side of Notebook is paralleled with flat phantom, panel pointing out of Notebook, and Notebook contact with flat phantom.

Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Peak)	1g	Temp[°C]	Temp[°C]
2450MHz	1	2412	17.52dbm	0.082	22.1	21.7
	6	2437	17.68dbm	0.075	22.1	21.7
	11	2462	17.52dbm	0.051	22.1	21.7

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WLAN802.11 g

Configuration 1: Bottom side of the Notebook is paralleled with flat phantom, open the panel with 90 degrees, bottom side is contact with flat phantom.

-				3			
	Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
				Power (Peak)	1g	Temp[°C]	Temp[°C]
	2450MHz	1	2412	15.59dbm	0.0011	22.1	21.7
		6	2437	15.87dbm	0.00136	22.1	21.7
		11	2462	15.98dbm	0.00155	22.1	21.7

Configuration 2: Bottom side of the Notebook is paralleled with panel and flat phantom, panel is pointing out of Notebook and bottom face is contact flat phantom.

Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Peak)	1g	Temp[°C]	Temp[°C]
2450MHz	1	2412	15.59dbm	0.00214	22.1	21.7
	6	2437	15.87dbm	0.00262	22.1	21.7
1	11	2462	15.98dbm	0.0014	22.1	21.7

Configuration 3: Left side of Notebook is paralleled with flat phantom, panel pointing out of Notebook, and Notebook contact with flat phantom.

Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Peak)	1g	Temp[°C]	Temp[°C]
2450MHz	1	2412	15.59dbm	0.055	22.1	21.7
	6	2437	15.87dbm	0.046	22.1	21.7
	11	2462	15.98dbm	0.029	22.1	21.7

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WLAN802.11 n(20M)

Configuration 1: Bottom side of the Notebook is paralleled with flat phantom, open the panel with 90 degrees, bottom side is contact with flat phantom.

-				3			
	Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
				Power (Peak)	1g	Temp[°C]	Temp[°C]
	2450MHz	1	2412	13.63dbm	0.00234	22.1	21.7
		6	2437	13.89dbm	0.00193	22.1	21.7
		11	2462	13.96dbm	0.00233	22.1	21.7

Configuration 2: Bottom side of the Notebook is paralleled with panel and flat phantom, panel is pointing out of Notebook and bottom face is contact flat phantom.

Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Peak)	1g	Temp[°C]	Temp[°C]
2450MHz	1	2412	13.63dbm	0.00215	22.1	21.7
	6	2437	13.89dbm	0.00249	22.1	21.7
1	11	2462	13.96dbm	0.00113	22.1	21.7

Configuration 3: Left side of Notebook is paralleled with flat phantom, panel pointing out of Notebook, and Notebook contact with flat phantom.

Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Peak)	1g	Temp[°C]	Temp[°C]
2450MHz	1	2412	13.63dbm	0.042	22.1	21.7
	6	2437	13.89dbm	0.037	22.1	21.7
	11	2462	13.96dbm	0.024	22.1	21.7

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WLAN802.11 n(40M)

Configuration 1: Bottom side of the Notebook is paralleled with flat phantom, open the panel with 90 degrees, bottom side is contact with flat phantom.

pariet with 70 degrees, bettern side is contact with hat phanten.							
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid	
			Power (Peak)	1g	Temp[°C]	Temp[°C]	
2450MHz	3	2422	11.92dbm	0.00154	22.1	21.7	
	6	2437	11.84dbm	0.00172	22.1	21.7	
	9	2452	11.96dbm	0.00122	22.1	21.7	

Configuration 2: Bottom side of the Notebook is paralleled with panel and flat phantom, panel is pointing out of Notebook and bottom face is contact flat phantom.

Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Peak)	1g	Temp[°C]	Temp[°C]
2450MHz	3	2422	11.92dbm	0.00152	22.1	21.7
	6	2437	11.84dbm	0.0017	22.1	21.7
1	9	2452	11.96dbm	0.00141	22.1	21.7

Configuration 3: Left side of Notebook is paralleled with flat phantom, panel pointing out of Notebook, and Notebook contact with flat phantom.

Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Peak)	1g	Temp[°C]	Temp[°C]
2450MHz	3	2422	11.92dbm	0.029	22.1	21.7
	6	2437	11.84dbm	0.028	22.1	21.7
	9	2452	11.96dbm	0.025	22.1	21.7

Note:

SAR measurement results with transmitter at maximum output power.

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3. Instruments List

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Manufacturer	Device	Type	Serial number	Date of last calibration
Schmid & Partner Engineering AG	Partner Dosimetric E-Field Probe		3526	Aug.26.2009
Schmid & Partner Engineering AG	2450 MHz System Validation Dipole	D2450V2	727	Apr.27.2009
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	547	Jan.20.2009
Schmid & Partner Engineering AG	Software	DASY 4 V4.7 Build 80	N/A	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required
Agilent	Network Analyzer	8753D	3410A05547	Mar.31.2009
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration not required
Agilent	Agilent Dual-directional coupler		50114	Aug.27.2009
Agilent	RF Signal Generator	8648D	3847M00432	May.25.2009
Agilent	Agilent Power Sensor		MY48100169	Apr.23.2009

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4. Measurements

Report No.: EN/2009/A0002

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Date/Time: 2009/11/15 01:05:15

Configuration 1_WLAN802.11 b_ch1

DUT: IdeaPad S10-3t;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 54.6$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.003 mW/g

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

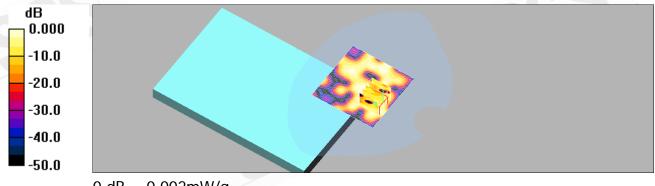
dz=5mm

Reference Value = 0.614 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 0.005 W/kg

SAR(1 g) = 0.00149 mW/g; SAR(10 g) = 0.000738 mW/g

Maximum value of SAR (measured) = 0.002 mW/g



0 dB = 0.002 mW/g

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Date/Time: 2009/11/15 01:29:56

Configuration 1_WLAN802.11 b_ch6

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2$ mho/m; $\varepsilon_r = 54.4$; $\rho =$

1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.005 mW/g

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

dz=5mm

Reference Value = 0.892 V/m; Power Drift = -0.109 dB

Peak SAR (extrapolated) = 0.013 W/kg

SAR(1 g) = 0.0027 mW/g; SAR(10 g) = 0.000912 mW/g

Maximum value of SAR (measured) = 0.003 mW/g



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Date/Time: 2009/11/15 01:53:01

Configuration 1_WLAN802.11 b_ch11

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.04$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.005 mW/g

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

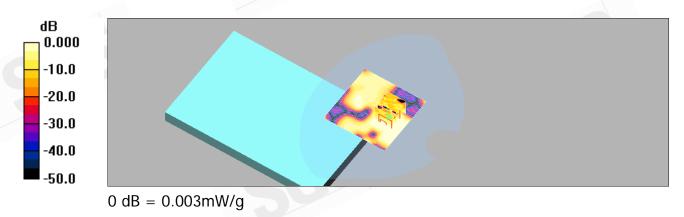
dz=5mm

Reference Value = 0.873 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 0.017 W/kg

SAR(1 g) = 0.00384 mW/g; SAR(10 g) = 0.00167 mW/g

Maximum value of SAR (measured) = 0.003 mW/g



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Date/Time: 2009/11/15 11:23:27

Configuration 2_WLAN802.11 b_ch1

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 1.96$ mho/m; $\varepsilon_r = 54.6$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.004 mW/g

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

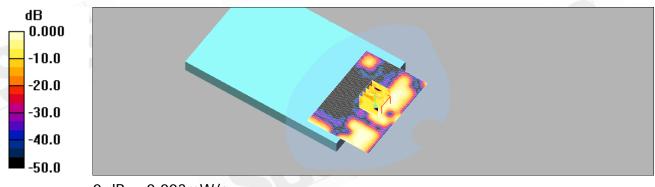
dz=5mm

Reference Value = 0.991 V/m; Power Drift = -0.114 dB

Peak SAR (extrapolated) = 0.012 W/kg

SAR(1 g) = 0.00306 mW/g; SAR(10 g) = 0.00144 mW/g

Maximum value of SAR (measured) = 0.003 mW/g



0 dB = 0.003 mW/q

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Date/Time: 2009/11/15 11:49:33

Configuration 2_WLAN802.11 b_ch6

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2$ mho/m; $\varepsilon_r = 54.4$; $\rho =$

1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.006 mW/g

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

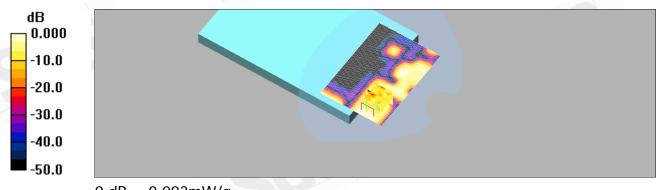
dz=5mm

Reference Value = 0.852 V/m; Power Drift = 0.111 dB

Peak SAR (extrapolated) = 0.006 W/kg

SAR(1 g) = 0.00294 mW/g; SAR(10 g) = 0.00155 mW/g

Maximum value of SAR (measured) = 0.003 mW/g



0 dB = 0.003 mW/q

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Date/Time: 2009/11/15 12:27:16

Configuration 2_WLAN802.11 b_ch11

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.04$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.006 mW/g

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

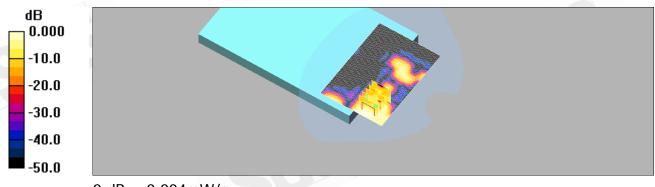
dz=5mm

Reference Value = 0.600 V/m; Power Drift = 0.130 dB

Peak SAR (extrapolated) = 0.007 W/kg

SAR(1 g) = 0.00377 mW/g; SAR(10 g) = 0.00191 mW/g

Maximum value of SAR (measured) = 0.004 mW/g



0 dB = 0.004 mW/q

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Date/Time: 2009/12/2 02:26:10

Configuration 3_WLAN802.11 b_CH1

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 1.96$ mho/m; $\varepsilon_r = 54.5$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.089 mW/g

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

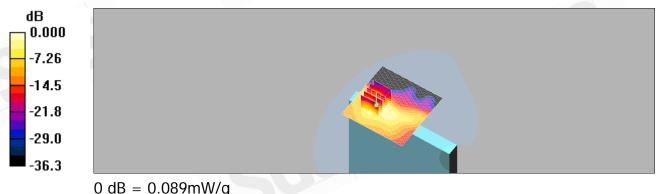
dz=5mm

Reference Value = 2.71 V/m; Power Drift = -0.193 dB

Peak SAR (extrapolated) = 0.200 W/kg

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.089 mW/g

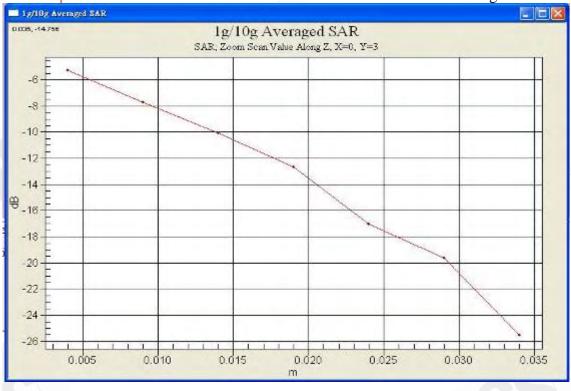


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Date/Time: 2009/12/2 02:53:20

Configuration 3_WLAN802.11 b_CH6

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2$ mho/m; $\varepsilon_r = 54.4$; $\rho =$

1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.082 mW/g

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

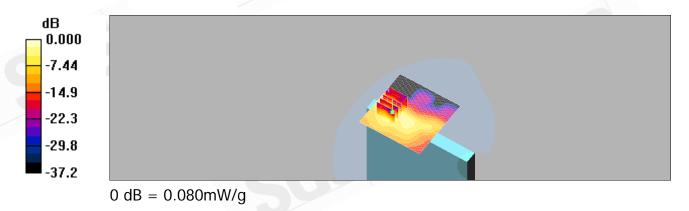
dz=5mm

Reference Value = 2.40 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.080 mW/g



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Date/Time: 2009/12/2 03:19:53

Configuration 3_WLAN802.11 b_CH11

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.04$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.058 mW/g

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

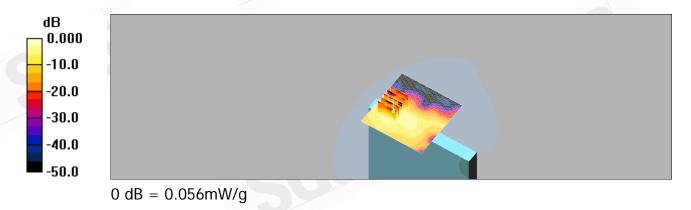
dz=5mm

Reference Value = 2.05 V/m; Power Drift = -0.130 dB

Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.051 mW/g; SAR(10 g) = 0.022 mW/g

Maximum value of SAR (measured) = 0.056 mW/g



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Date/Time: 2009/11/15 02:26:07

Configuration 1_WLAN802.11 g_ch1

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 1.96$ mho/m; $\varepsilon_r = 54.6$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.003 mW/g

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

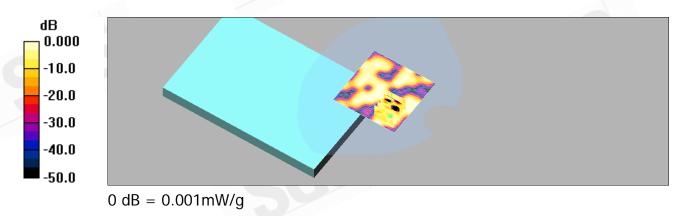
dz=5mm

Reference Value = 0.603 V/m; Power Drift = 0.115 dB

Peak SAR (extrapolated) = 0.005 W/kg

SAR(1 g) = 0.0011 mW/g; SAR(10 g) = 0.000412 mW/g

Maximum value of SAR (measured) = 0.001 mW/g



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Date/Time: 2009/11/15 02:49:01

Configuration 1_WLAN802.11 g_ch6

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2$ mho/m; $\varepsilon_r = 54.4$; $\rho =$

1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.003 mW/g

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

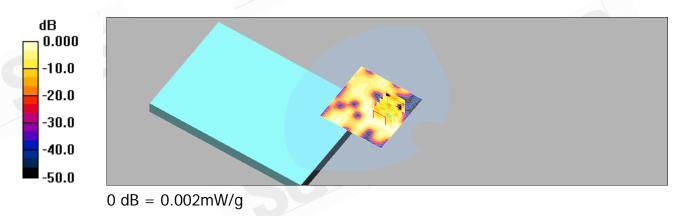
dz=5mm

Reference Value = 0.600 V/m; Power Drift = 0.167 dB

Peak SAR (extrapolated) = 0.006 W/kg

SAR(1 g) = 0.00136 mW/g; SAR(10 g) = 0.000586 mW/g

Maximum value of SAR (measured) = 0.002 mW/g



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Date/Time: 2009/11/15 03:21:31

Configuration 1_WLAN802.11 g_ch11

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.04$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.003 mW/g

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

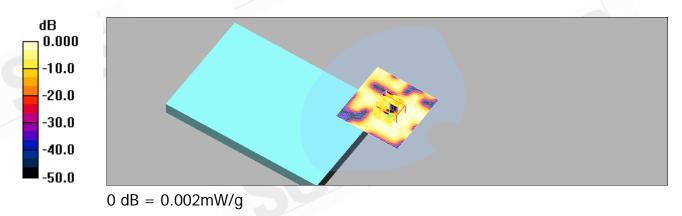
dz=5mm

Reference Value = 0.487 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.006 W/kg

SAR(1 g) = 0.00155 mW/g; SAR(10 g) = 0.000583 mW/g

Maximum value of SAR (measured) = 0.002 mW/g



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Date/Time: 2009/11/15 09:56:12

Configuration 2_WLAN802.11 g_ch1

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 1.96$ mho/m; $\varepsilon_r = 54.6$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.007 mW/g

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

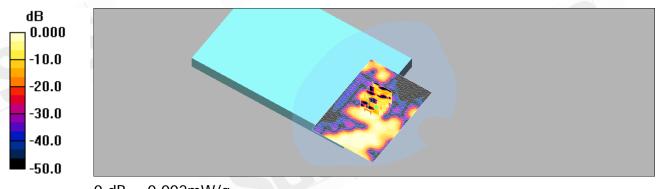
dz=5mm

Reference Value = 0.844 V/m; Power Drift = 0.146 dB

Peak SAR (extrapolated) = 0.010 W/kg

SAR(1 q) = 0.00214 mW/q; SAR(10 q) = 0.000854 mW/q

Maximum value of SAR (measured) = 0.002 mW/g



0 dB = 0.002 mW/q

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Date/Time: 2009/11/15 10:23:22

Configuration 2_WLAN802.11 g_ch6

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2$ mho/m; $\varepsilon_r = 54.4$; $\rho =$

1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.004 mW/g

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

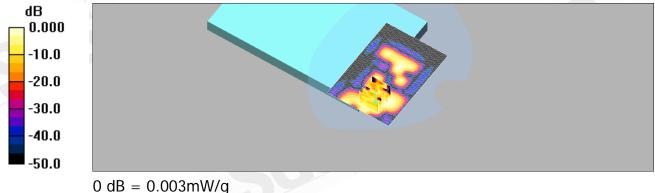
dz=5mm

Reference Value = 0.862 V/m; Power Drift = 0.136 dB

Peak SAR (extrapolated) = 0.006 W/kg

SAR(1 g) = 0.00262 mW/g; SAR(10 g) = 0.00113 mW/g

Maximum value of SAR (measured) = 0.003 mW/g



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Date/Time: 2009/11/15 10:48:07

Configuration 2_WLAN802.11 g_ch11

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.04$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.002 mW/g

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

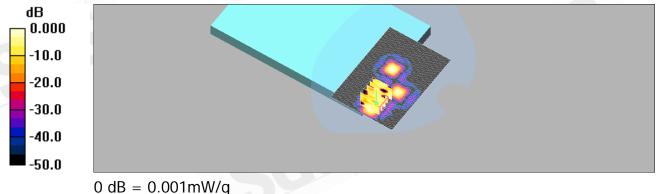
dz=5mm

Reference Value = 0.579 V/m; Power Drift = 0.129 dB

Peak SAR (extrapolated) = 0.004 W/kg

SAR(1 g) = 0.0014 mW/g; SAR(10 g) = 0.000624 mW/g

Maximum value of SAR (measured) = 0.001 mW/g



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Date/Time: 2009/12/2 04:53:53

Configuration 3_WLAN802.11 g_CH1

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 1.96$ mho/m; $\varepsilon_r = 54.5$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.057 mW/g

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

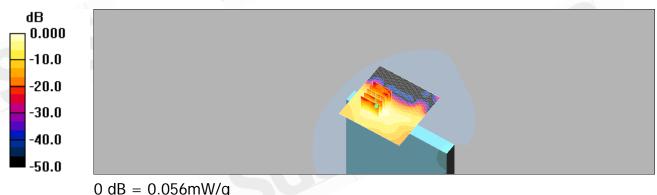
dz=5mm

Reference Value = 2.30 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 0.141 W/kg

SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.024 mW/g

Maximum value of SAR (measured) = 0.056 mW/g



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Date/Time: 2009/12/2 04:26:17

Configuration 3_WLAN802.11 g_CH6

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2$ mho/m; $\varepsilon_r = 54.4$; $\rho =$

1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.046 mW/g

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

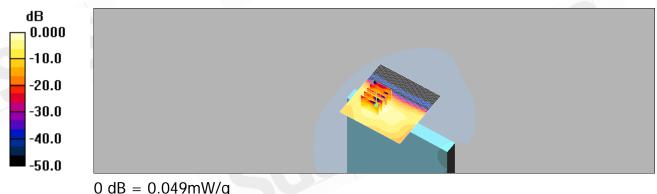
dz=5mm

Reference Value = 2.49 V/m; Power Drift = -0.139 dB

Peak SAR (extrapolated) = 0.125 W/kg

SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.049 mW/g



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Date/Time: 2009/12/2 03:51:04

Configuration 3_WLAN802.11 g_CH11

DUT: IdeaPad S10-3t:

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.04$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.034 mW/g

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

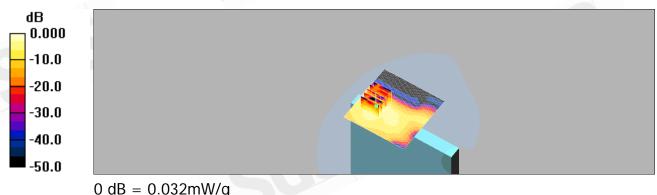
dz=5mm

Reference Value = 1.53 V/m; Power Drift = -0.130 dB

Peak SAR (extrapolated) = 0.076 W/kg

SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.032 mW/g



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Date/Time: 2009/11/15 03:46:01

Configuration 1_WLAN802.11 n(20M)_ch1

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(20M); Frequency: 2412 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 1.96$ mho/m; $\varepsilon_r = 54.6$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.006 mW/g

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

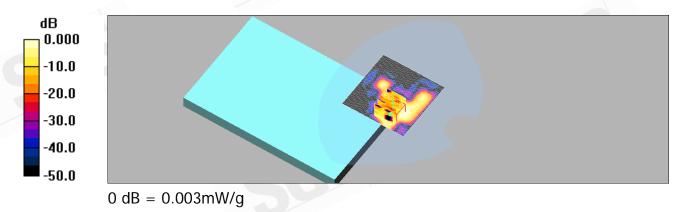
dz=5mm

Reference Value = 0.895 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 0.007 W/kg

SAR(1 g) = 0.00234 mW/g; SAR(10 g) = 0.000927 mW/g

Maximum value of SAR (measured) = 0.003 mW/g



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Date/Time: 2009/11/15 04:19:47

Configuration 1_WLAN802.11 n(20M)_ch6

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(20M); Frequency: 2437 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2$ mho/m; $\varepsilon_r = 54.4$; $\rho =$ 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.006 mW/g

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

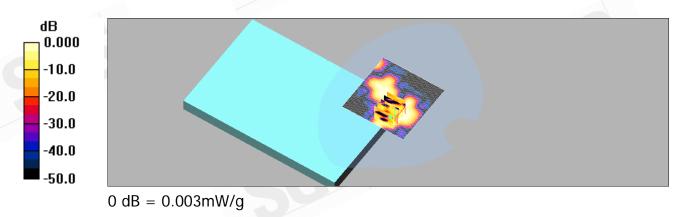
dz=5mm

Reference Value = 0.766 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.008 W/kg

SAR(1 g) = 0.00193 mW/g; SAR(10 g) = 0.000772 mW/g

Maximum value of SAR (measured) = 0.003 mW/g



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Date/Time: 2009/11/15 04:45:30

Configuration 1_WLAN802.11 n(20M)_ch11

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(20M); Frequency: 2462 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.04$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.003 mW/g

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

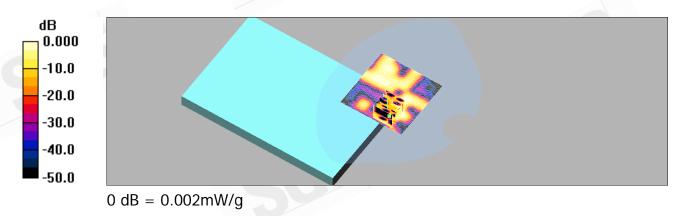
dz=5mm

Reference Value = 0.858 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.010 W/kg

SAR(1 g) = 0.00233 mW/g; SAR(10 g) = 0.000838 mW/g

Maximum value of SAR (measured) = 0.002 mW/g



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Date/Time: 2009/11/15 08:29:01

Configuration 2_WLAN802.11 n(20M)_ch1

DUT: IdeaPad S10-3t:

Communication System: FCC Wireless N(20M); Frequency: 2412 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 1.96$ mho/m; $\varepsilon_r = 54.6$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.005 mW/g

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

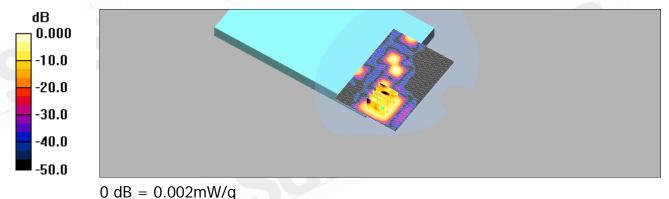
dz=5mm

Reference Value = 0.664 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.004 W/kg

SAR(1 g) = 0.00215 mW/g; SAR(10 g) = 0.00101 mW/g

Maximum value of SAR (measured) = 0.002 mW/g



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Date/Time: 2009/11/15 08:53:53

Configuration 2_WLAN802.11 n(20M)_ch6

DUT: IdeaPad S10-3t:

Communication System: FCC Wireless N(20M); Frequency: 2437 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2$ mho/m; $\varepsilon_r = 54.4$; $\rho =$ 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.003 mW/g

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

dz=5mm

Reference Value = 0.609 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.005 W/kg

SAR(1 g) = 0.00249 mW/g; SAR(10 g) = 0.00113 mW/g

Maximum value of SAR (measured) = 0.003 mW/g



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Date/Time: 2009/11/15 09:28:09

Configuration 2_WLAN802.11 n(20M)_ch11

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(20M); Frequency: 2462 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.04$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.002 mW/g

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

dz=5mm

Reference Value = 0.644 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.002 W/kg

SAR(1 q) = 0.00113 mW/q; SAR(10 q) = 0.000344 mW/q

Maximum value of SAR (measured) = 0.001 mW/g



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Date/Time: 2009/12/2 05:29:40

Configuration 3_WLAN802.11 n(20M)_CH1

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(20M); Frequency: 2412 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 1.96$ mho/m; $\varepsilon_r = 54.5$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.043 mW/g

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

dz=5mm

Reference Value = 1.82 V/m; Power Drift = 0.193 dB

Peak SAR (extrapolated) = 0.106 W/kg

SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.045 mW/g



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Date/Time: 2009/12/2 05:55:30

Configuration 3_WLAN802.11 n(20M)_CH6

DUT: IdeaPad S10-3t:

Communication System: FCC Wireless N(20M); Frequency: 2437 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2$ mho/m; $\varepsilon_r = 54.4$; $\rho =$ 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.039 mW/g

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

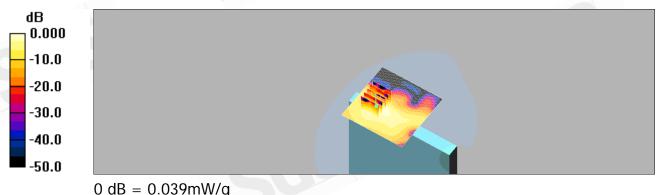
dz=5mm

Reference Value = 1.94 V/m; Power Drift = 0.140 dB

Peak SAR (extrapolated) = 0.091 W/kg

SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.039 mW/g



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Date/Time: 2009/12/2 06:28:40

Configuration 3_WLAN802.11 n(20M)_CH11

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(20M); Frequency: 2462 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.04$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.026 mW/g

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

dz=5mm

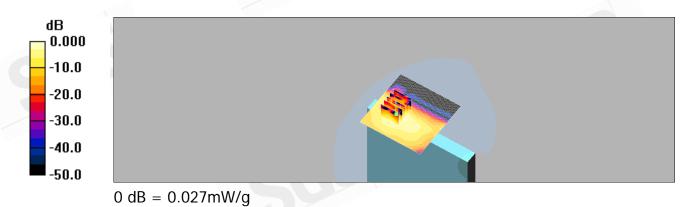
Reference Value = 1.57 V/m; Power Drift = 0.146 dB

Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.011 mW/g

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Maximum value of SAR (measured) = 0.027 mW/g



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Date/Time: 2009/11/15 05:17:00

Configuration 1_WLAN802.11 n(40M)_ch3

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(40M); Frequency: 2422 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2422 MHz; $\sigma = 1.97$ mho/m; $\varepsilon_r = 54.5$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.006 mW/g

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

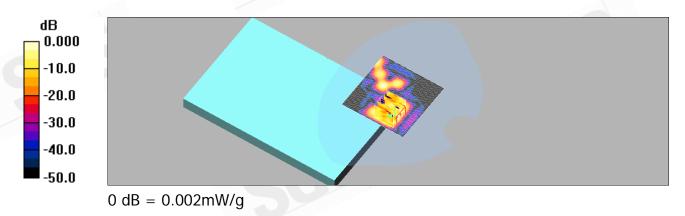
dz=5mm

Reference Value = 0.581 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.004 W/kg

SAR(1 q) = 0.00154 mW/q; SAR(10 q) = 0.0006 mW/q

Maximum value of SAR (measured) = 0.002 mW/g



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Date/Time: 2009/11/15 05:43:36

Configuration 1_WLAN802.11 n(40M)_ch6

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(40M); Frequency: 2437 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2$ mho/m; $\varepsilon_r = 54.4$; $\rho =$ 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.003 mW/g

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

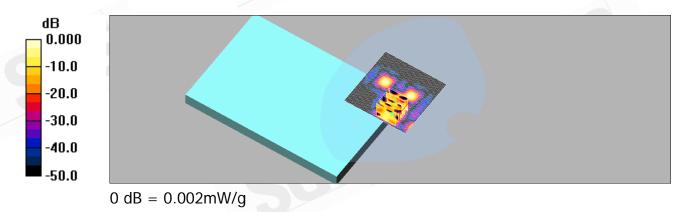
dz=5mm

Reference Value = 0.616 V/m; Power Drift = 0.0921 dB

Peak SAR (extrapolated) = 0.007 W/kg

SAR(1 g) = 0.00172 mW/g; SAR(10 g) = 0.000595 mW/g

Maximum value of SAR (measured) = 0.002 mW/g



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Date/Time: 2009/11/15 06:22:31

Configuration 1_WLAN802.11 n(40M)_ch9

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(40M); Frequency: 2452 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2452 MHz; $\sigma = 2.03$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.002 mW/g

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

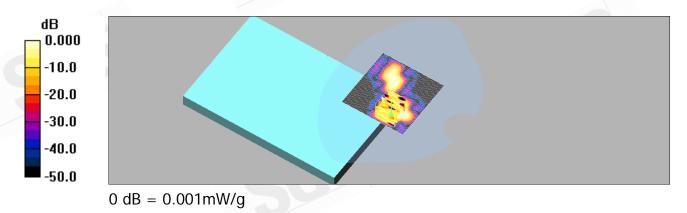
dz=5mm

Reference Value = 0.772 V/m; Power Drift = -0.0889 dB

Peak SAR (extrapolated) = 0.003 W/kg

SAR(1 q) = 0.00122 mW/q; SAR(10 q) = 0.000431 mW/q

Maximum value of SAR (measured) = 0.001 mW/g



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Date/Time: 2009/11/15 07:13:27

Configuration 2_WLAN802.11 n(40M)_ch3

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(40M); Frequency: 2422 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2422 MHz; $\sigma = 1.97$ mho/m; $\varepsilon_r = 54.5$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.004 mW/g

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

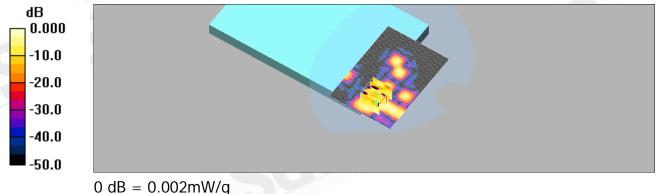
dz=5mm

Reference Value = 0.592 V/m; Power Drift = 0.0873 dB

Peak SAR (extrapolated) = 0.004 W/kg

SAR(1 g) = 0.00152 mW/g; SAR(10 g) = 0.000662 mW/g

Maximum value of SAR (measured) = 0.002 mW/g



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Date/Time: 2009/11/15 07:39:18

Configuration 2_WLAN802.11 n(40M)_ch6

DUT: IdeaPad S10-3t:

Communication System: FCC Wireless N(40M); Frequency: 2437 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2$ mho/m; $\varepsilon_r = 54.4$; $\rho =$ 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.002 mW/g

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

dz=5mm

Reference Value = 0.572 V/m; Power Drift = -0.169 dB

Peak SAR (extrapolated) = 0.005 W/kg

SAR(1 g) = 0.0017 mW/g; SAR(10 g) = 0.000759 mW/g

Maximum value of SAR (measured) = 0.002 mW/g



0 dB = 0.002 mW/q

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Date/Time: 2009/11/15 08:06:48

Configuration 2_WLAN802.11 n(40M)_ch9

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(40M); Frequency: 2452 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2452 MHz; $\sigma = 2.03$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.003 mW/g

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

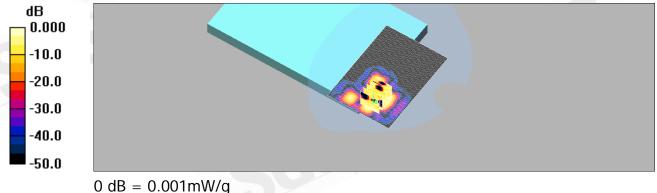
dz=5mm

Reference Value = 0.521 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.004 W/kg

SAR(1 g) = 0.00141 mW/g; SAR(10 g) = 0.000578 mW/g

Maximum value of SAR (measured) = 0.001 mW/g



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Date/Time: 2009/12/2 08:05:08

Configuration 3_WLAN802.11 n(40M)_CH3

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(40M); Frequency: 2422 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2422 MHz; $\sigma = 1.97$ mho/m; $\varepsilon_r = 54.5$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.030 mW/g

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

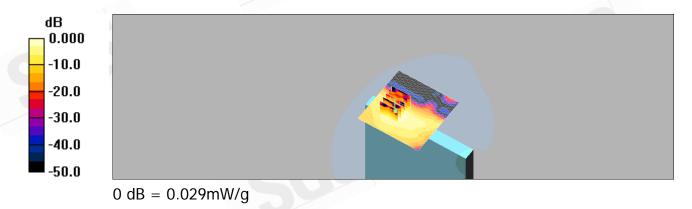
dz=5mm

Reference Value = 1.71 V/m; Power Drift = 0.181 dB

Peak SAR (extrapolated) = 0.074 W/kg

SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.029 mW/g



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Date/Time: 2009/12/2 07:31:51

Configuration 3_WLAN802.11 n(40M)_CH6

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(40M); Frequency: 2437 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2$ mho/m; $\varepsilon_r = 54.4$; $\rho =$ 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.029 mW/g

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

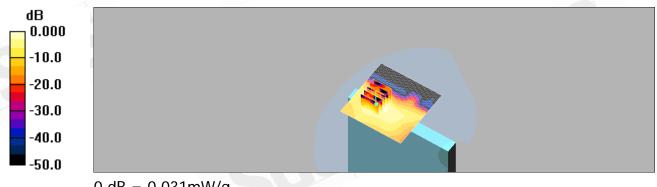
dz=5mm

Reference Value = 1.83 V/m; Power Drift = -0.157 dB

Peak SAR (extrapolated) = 0.073 W/kg

SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.012 mW/g

Maximum value of SAR (measured) = 0.031 mW/g



0 dB = 0.031 mW/q

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Date/Time: 2009/12/2 06:58:21

Configuration 3_WLAN802.11 n(40M)_CH9

DUT: IdeaPad S10-3t;

Communication System: FCC Wireless N(40M); Frequency: 2452 MHz; Duty Cycle: 1:1 Medium: Muscle 2450 Medium parameters used: f = 2452 MHz; $\sigma = 2.03$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

body/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.035 mW/g

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

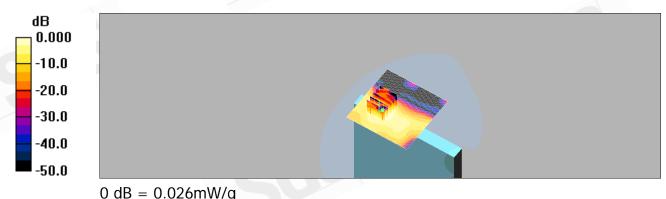
dz=5mm

Reference Value = 1.85 V/m; Power Drift = -0.182 dB

Peak SAR (extrapolated) = 0.059 W/kg

SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.011 mW/g

Maximum value of SAR (measured) = 0.026 mW/g



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5. SAR System Performance Verification

Date/Time: 2009/11/15 00:14:28

DUT: Dipole 2450 MHz;

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2450 MHz; $\sigma = 2.02$ mho/m; $\varepsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

250mW/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 16.7 mW/g

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

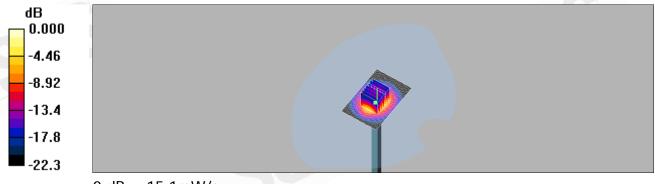
dz=5mm

Reference Value = 86.4 V/m; Power Drift = -0.138 dB

Peak SAR (extrapolated) = 26.8 W/kg

SAR(1 g) = 13.1 mW/g; SAR(10 g) = 6.08 mW/g

Maximum value of SAR (measured) = 15.1 mW/g



0 dB = 15.1 mW/q

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Date/Time: 2009/12/2 01:31:31

DUT: Dipole 2450 MHz;

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2450 MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 54.4$;

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 2009/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

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

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

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

250mW/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 16.3 mW/g

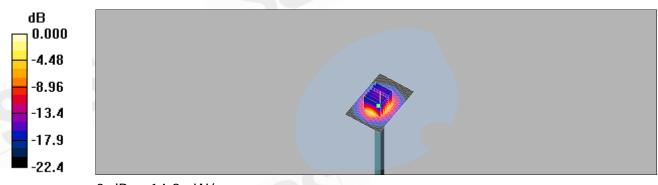
250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 85.3 V/m; Power Drift = -0.087 dB Peak SAR (extrapolated) = 26.3 W/kg

SAR(1 g) = 12.9 mW/g; SAR(10 g) = 5.98 mW/g

Maximum value of SAR (measured) = 14.8 mW/g



0 dB = 14.8 mW/q

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6. DAE & Probe Calibration certificate

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 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

S

Certificate No: DAE4-547 Jan09 SGS (Auden)

CALIBRATION CERTIFICATE DAE4 - SD 000 D04 BJ - SN: 547 Object . ' QA CAL-06.v12 Calibration procedure(s) Calibration procedure for the data acquisition electronics (DAE) January 19, 2009 Calibration date: Condition of the calibrated item In Tolerance This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Scheduled Calibration Cal Date (Certificate No.) Sep-09 Fluke Process Calibrator Type 702 SN: 6295803 30-Sep-08 (No: 7673) 30-Sep-08 (No: 7670) Sep-09 SN: 0810278 Keithley Multimeter Type 2001 Check Date (in house) Scheduled Check Secondary Standards ID# SE UMS 006 AB 1004 In house check: Jun-09 Calibrator Box V1.1 Calibrated by: Technician R&D Director Issued: January 20, 2009 This calibration certificate shall not be reproduced except in full without written approval of the laboratory

Certificate No: DAE4-547 Jan09

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





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

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SGS (Auden)

Certificate No: EX3-3526_Aug09

Accreditation No.: SCS 108

Object	EX3DV3 - SN:3	526	
Calibration procedure(s)		QA CAL-14.v3, QA CAL-23.v3 and edure for dosimetric E-field probe	
Calibration date:	August 26, 2009		
Condition of the calibrated item	In Tolerance		
The measurements and the unce	rtainties with confidence	tional standards, which realize the physical uni probability are given on the following pages an ory facility: environment temperature (22 ± 3)°C	d are part of the certificate.
Calibration Equipment used (M&T	TE critical for calibration)		
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
ower meter E4419B	GB41293874	1-Apr-09 (No. 217-01030)	Apr-10
	MY41495277	1-Apr-09 (No. 217-01030)	A 40
ower sensor E4412A	W1141495277	1-Apr-09 (No. 217-01030)	Apr-10
	MY41498087	1-Apr-09 (No. 217-01030)	Apr-10 Apr-10
ower sensor E4412A	200000000000000000000000000000000000000		
ower sensor E4412A reference 3 dB Attenuator reference 20 dB Attenuator	MY41498087	1-Apr-09 (No. 217-01030)	Apr-10 Mar-10 Mar-10
ower sensor E4412A leference 3 dB Attenuator leference 20 dB Attenuator leference 30 dB Attenuator	MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b)	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027)	Apr-10 Mar-10 Mar-10 Mar-10
Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2	MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027) 2-Jan-09 (No. ES3-3013_Jan09)	Apr-10 Mar-10 Mar-10 Mar-10 Jan-10
Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2	MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b)	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027)	Apr-10 Mar-10 Mar-10 Mar-10
Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 PAE4	MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 660	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027) 2-Jan-09 (No. ES3-3013_Jan09) 9-Sep-08 (No. DAE4-660_Sep08)	Apr-10 Mar-10 Mar-10 Mar-10 Jan-10 Sep-09 Scheduled Check
lower sensor E4412A leference 3 dB Attenuator leference 20 dB Attenuator leference 30 dB Attenuator leference Probe ES3DV2 AE4 lecondary Standards leference TP 8648C	MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 660	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01027) 2-Jan-09 (No. 217-01027) 2-Jan-09 (No. ES3-3013_Jan09) 9-Sep-08 (No. DAE4-660_Sep08) Check Date (in house)	Apr-10 Mar-10 Mar-10 Mar-10 Jan-10 Sep-09 Scheduled Check In house check: Oct-09
Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 RAE4 Recondary Standards Reference TP 8648C	MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 660	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027) 2-Jan-09 (No. ES3-3013_Jan09) 9-Sep-08 (No. DAE4-660_Sep08)	Apr-10 Mar-10 Mar-10 Mar-10 Jan-10 Sep-09 Scheduled Check
Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 RAE4 Recondary Standards Reference Probe ES3DV2 REFerence Probe ES3DV2 REFERENCE REFERENCE REFEREN	MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 660 ID # US3642U01700 US37390585	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027) 2-Jan-09 (No. ES3-3013 Jan09) 9-Sep-08 (No. DAE4-660_Sep08) Check Date (in house) 4-Aug-99 (in house check Oct-07) 18-Oct-01 (in house check Oct-08)	Apr-10 Mar-10 Mar-10 Mar-10 Jan-10 Sep-09 Scheduled Check In house check: Oct-09
Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4 Recondary Standards RF generator HP 8648C Letwork Analyzer HP 8753E	MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 660 ID# US3642U01700 US37390585	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027) 2-Jan-09 (No. ES3-3013_Jan09) 9-Sep-08 (No. DAE4-660_Sep08) Check Date (in house) 4-Aug-99 (in house check Oct-07) 18-Oct-01 (in house check Oct-08)	Apr-10 Mar-10 Mar-10 Mar-10 Jan-10 Sep-09 Scheduled Check In house check: Oct-09 In house check: Oct-09
Power sensor E4412A Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Recondary Standards RF generator HP 8648C Veltwork Analyzer HP 8753E Calibrated by:	MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 660 ID # US3642U01700 US37390585	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027) 2-Jan-09 (No. ES3-3013 Jan09) 9-Sep-08 (No. DAE4-660_Sep08) Check Date (in house) 4-Aug-99 (in house check Oct-07) 18-Oct-01 (in house check Oct-08)	Apr-10 Mar-10 Mar-10 Mar-10 Jan-10 Sep-09 Scheduled Check In house check: Oct-09 In house check: Oct-09

Certificate No: EX3-3526_Aug09

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Calibration Laboratory of

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





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

Accreditation No.: SCS 108

Accredited by the Swiss Accreditation Service (SAS)

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Glossary:

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

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

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

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003

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 ϑ = 0 (f \leq 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_Aug09

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EX3DV3 SN:3526

August 26, 2009



Probe EX3DV3

SN:3526

Manufactured: Last calibrated: Recalibrated:

March 19, 2004 August 26, 2008 August 26, 2009

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

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EX3DV3 SN:3526

August 26, 2009

DASY - Parameters of Probe: EX3DV3 SN:3526

Sensitivity in Free S	pace ^A	Diode C	compression

NormX 0.99 ± 10.1% $\mu V/(V/m)^2$ 94 mV NormY 0.82 ± 10.1% $\mu V/(V/m)^2$ DCP Y 97 mV $\mu V/(V/m)^2$ DCP Z 95 mV NormZ 0.91 ± 10.1%

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

Typical SAR gradient: 5 % per mm

Sensor Cente	er to Phantom Surface Distance	2.0 mm	3.0 mm
SAR _{be} [%]	Without Correction Algorithm	9.2	6.0
SAR _{be} [%]	With Correction Algorithm	0.9	0.4

TSL 1750 MHz Typical SAR gradient: 10 % per mm

Sensor Cente	er to Phantom Surface Distance	2.0 mm	3.0 mm
SAR _{be} [%]	Without Correction Algorithm	3.6	1.3
SAR _{be} [%]	With Correction Algorithm	0.8	0.3

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).

Numerical linearization parameter: uncertainty not required.



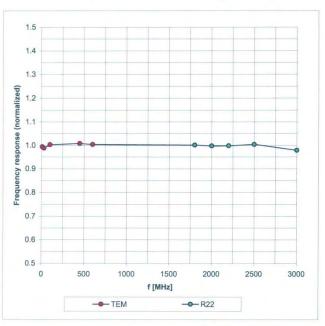
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EX3DV3 SN:3526

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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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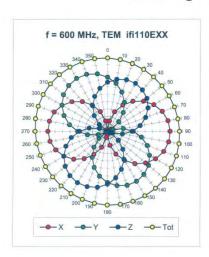


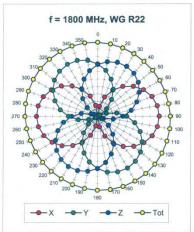
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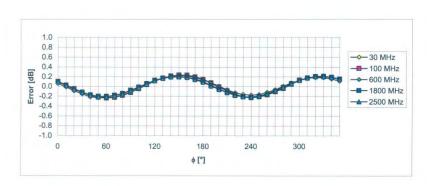
EX3DV3 SN:3526

August 26, 2009

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







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

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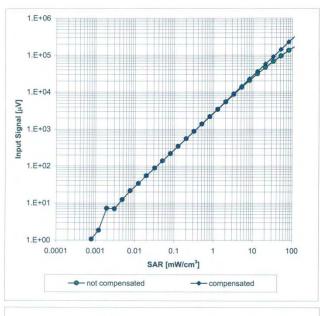
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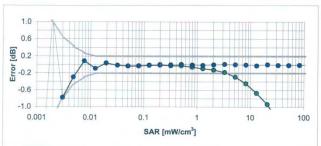
EX3DV3 SN:3526

August 26, 2009

Dynamic Range f(SAR_{head})

(Waveguide R22, f = 1800 MHz)





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

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Conversion Factor Assessment

f [MHz]	Validity [MHz] ^C	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
835	± 50 / ± 100	Head	41.5 ± 5%	0.90 ± 5%	0.48	0.74	11.06 ± 11.0% (k=2)
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.46	0.74	10.70 ± 11.0% (k=2)
1750	± 50 / ± 100	Head	40.1 ± 5%	1.37 ± 5%	0.33	0.75	9.75 ± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.43	0.68	9.38 ± 11.0% (k=2)
2000	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.42	0.67	9.19 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.22	1.01	8.43 ± 11.0% (k=2)
5200	± 50 / ± 100	Head	36.0 ± 5%	4.66 ± 5%	0.40	1.80	5.35 ± 13.1% (k=2)
5300	± 50 / ± 100	Head	$35.9 \pm 5\%$	4.76 ± 5%	0.40	1.80	5.06 ± 13.1% (k=2)
5600	± 50 / ± 100	Head	$35.5 \pm 5\%$	5.07 ± 5%	0.40	1.80	4.86 ± 13.1% (k=2)
5800	± 50 / ± 100	Head	35.3 ± 5%	5.27 ± 5%	0.50	1.80	4.61 ± 13.1% (k=2)
835	± 50 / ± 100	Body	55.2 ± 5%	0.97 ± 5%	0.47	0.74	10.88 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.51	0.74	10.59 ± 11.0% (k=2)
1750	± 50 / ± 100	Body	53.4 ± 5%	1.49 ± 5%	0.43	0.76	9.29 ± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.37	0.78	8.89 ± 11.0% (k=2)
2000	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.30	1.01	9.07 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.24	0.94	8.52 ± 11.0% (k=2)
2600	± 50 / ± 100	Body	52.5 ± 5%	2.16 ± 5%	0.51	0.62	8.42 ± 11.0% (k=2)
3500	± 50 / ± 100	Body	51.3 ± 5%	3.31 ± 5%	0.34	1.25	7.36 ± 13.1% (k=2)
5200	± 50 / ± 100	Body	49.0 ± 5%	5.30 ± 5%	0.55	1.90	4.29 ± 13.1% (k=2)
5300	± 50 / ± 100	Body	48.5 ± 5%	5.42 ± 5%	0.55	1.90	3.98 ± 13.1% (k=2)
5600	± 50 / ± 100	Body	48.5 ± 5%	5.77 ± 5%	0.60	1.90	3.69 ± 13.1% (k=2)
5800	± 50 / ± 100	Body	48.2 ± 5%	$6.00 \pm 5\%$	0.60	1.90	4.05 ± 13.1% (k=2)

Certificate No: EX3-3526_Aug09

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^C The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency bar



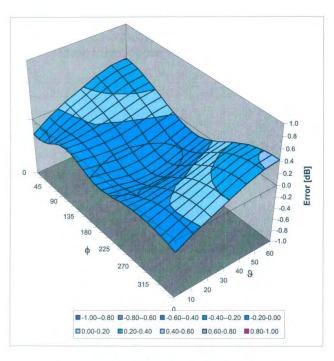
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EX3DV3 SN:3526

August 26, 2009

Deviation from Isotropy in HSL

Error (ϕ, ϑ) , f = 900 MHz



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

Certificate No: EX3-3526_Aug09

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7. Uncertainty Analysis

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DASY4 Uncertainty Budget According to IEEE P1528 [1]

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)	$\begin{pmatrix} (v_i) \\ v_{efj} \end{pmatrix}$
Measurement System								
Probe Calibration	±4.8 %	N	1	1	1	±4.8%	±4.8 %	∞
Axial Isotropy	±4.7 %	R	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9 %	∞
Hemispherical Isotropy	±9.6 %	R	$\sqrt{3}$	0.7	0.7	±3.9 %	±3.9 %	∞
Boundary Effects	±1.0 %	R	$\sqrt{3}$	1	1	±0.6%	±0.6 %	∞
Linearity	±4.7 %	R	$\sqrt{3}$	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6 %	∞
Readout Electronics	±1.0 %	N	1	1	1	±1.0%	±1.0 %	00
Response Time	±0.8%	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %	∞
Integration Time	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%	∞
RF Ambient Conditions	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.4 %	R	$\sqrt{3}$	1	1	±0.2%	±0.2 %	∞
Probe Positioning	±2.9 %	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Max. SAR Eval.	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6 %	∞
Test Sample Related	11.50							
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	tv					$\pm 20.6 \%$	±20.1 %	

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8. Phantom Description

Report No.: EN/2009/A0002

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Schmid & Partner Engineering AG

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

Certificate of Conformity / First Article Inspection

item	SAM Twin Phantom V4.0	
Type No	QD 000 P40 C	
Series No	TP-1150 and higher	
Manufacturer	SPEAG Zeughausstrasse 43 CH-8004 Zürich Switzerland	

The series production process used allows the limitation to test of first articles.

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

Test	Requirement	Details	Units tested
Dimensions	Compliant with the geometry according to the CAD model.	IT'IS CAD File (*)	First article, Samples
Material thickness of shell	Compliant with the requirements according to the standards	2mm +/- 0.2mm in flat and specific areas of head section	First article, Samples, TP-1314 ff.
Material thickness at ERP	Compliant with the requirements according to the standards	6mm +/- 0.2mm at ERP	First article, All items
Material parameters	Dielectric parameters for required frequencies	300 MHz – 6 GHz: Relative permittivity < 5, Loss tangent < 0.05	Material samples
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards if handled and cleaned according to the instructions. Observe technical Note for material compatibility.	DEGMBE based simulating liquids	Pre-series, First article, Material samples
Sagging	Compliant with the requirements according to the standards. Sagging of the flat section when filled with tissue simulating liquid.	< 1% typical < 0.8% if filled with 155mm of HSL900 and without DUT below	Prototypes, Sample testing

Standards

- CENELEC EN 50361 IEEE Std 1528-2003
- IEC 62209 Part I
- FCC OET Bulletin 65, Supplement C, Edition 01-01
- The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standards [1] to [4].

07 07 2005

Signature / Stamp

to & Parmer Engineering AG haussofeses 43, 8004 Zurleh, Switzerland in pag 1, 265 9700/Fev-96 by 245 9779 n, http://www.speag.com

Doc No 881 - QD 000 P40 C - F

Page

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www.tw.sgs.com



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9. System Validation from Original equipment supplier

Calibration Laboratory of

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





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

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

Accreditation No.: SCS 108

Certificate No: D2450V2-727_Apr09

CALIBRATION CERTIFICATE

D2450V2 - SN: 727 Object

Calibration procedure(s) QA CAL-05.v7

Calibration procedure for dipole validation kits

Calibration date: April 27, 2009

Condition of the calibrated item In Tolerance

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	08-Oct-08 (No. 217-00898)	Oct-09
Power sensor HP 8481A	US37292783	08-Oct-08 (No. 217-00898)	Oct-09
Reference 20 dB Attenuator	SN: 5086 (20g)	31-Mar-09 (No. 217-01025)	Mar-10
Type-N mismatch combination	SN: 5047.2 / 06327	31-Mar-09 (No. 217-01029)	Mar-10
Reference Probe ES3DV2	SN: 3025	28-Apr-08 (No. ES3-3025_Apr08)	Apr-09
DAE4	SN: 601	07-Mar-09 (No. DAE4-601_Mar09)	Mar-10
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-07)	In house check: Oct-09
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-08)	In house check: Oct-09
	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	to lle
		Technical Manager	

Certificate No: D2450V2-727 Apr09

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DASY5 Validation Report for Body TSL

Date/Time: 22.04.2009 13:12:14

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL U10 BB

Medium parameters used: f = 2450 MHz; $\sigma = 1.98$ mho/m; $\varepsilon_r = 54.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

DASY5 Configuration:

Probe: ES3DV2 - SN3025; ConvF(4.07, 4.07, 4.07); Calibrated: 28.04.2008

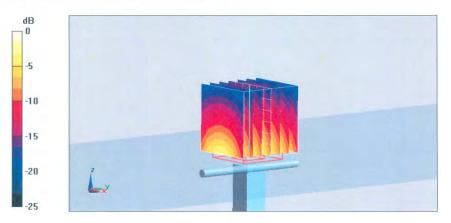
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 07.03.2009
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- Measurement SW: DASY5, V5.0 Build 120; SEMCAD X Version 13.4 Build 45

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

Reference Value = 96.9 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 26.5 W/kg

SAR(1 g) = 13.2 mW/g; SAR(10 g) = 6.18 mW/gMaximum value of SAR (measured) = 17.3 mW/g



0 dB = 17.3 mW/g

Certificate No: D2450V2-727_Apr09

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End of 1st part of report

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