

SAR TEST REPORT

Equipment Under Test	WLAN PCI-E Minicard tested inside of HP Notebook PC,HSTNN-W75C
Model Number of Host	HSTNN-W75C
Module Model No.	622ANHU
FCC ID for Omega system	FCC ID: B94622ANHMMW
IC ID for Omega system	IC ID: 466Q-622ANHMMW
FCC Company Name	Hewlett Packard Company
FCC Company Address	3000 Hanover Street Palo Alto California 94304 United States
IC Company Name	HEWLETT-PACKED COMPANY
IC Company Address	11445 Compaq Center Drive West Houston Texas 77070 United States
Date of Receipt	2010.01.20
Date of Test(s)	2010.01.15 ~ 2010.01.16,2010.01.19,2010,01,22
Date of Issue	2010.02.22

Standards:

FCC OET 65 supplement C, (KDB 616217D03)
IEEE /ANSI 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 : Antony Wu Date : 2010.02.22
 Engineer

Approved by : Robert Chang Date : 2010.02.22
 Tech Manager

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1. General Information

1.1 Testing Laboratory

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

1.2 Details of Applicant

FCC	Name	Hewlett Packard Company
	Address	3000 Hanover Street Palo Alto California 94304 United States
IC	Name	HEWLETT-PACKED COMPANY
	Address	11445 Compaq Center Drive West Houston Texas 77070 United States
Telephone		886-8772-8370
Fax		886-8786-1002
Contact Person		Neil Lei
E-mail		Neil.lei@hp.com

1.3 Description of EUT

EUT Name	WLAN PCI-E Minicard tested inside of HP Notebook PC,HSTNN-W75C
Model Number of Host	HSTNN-W75C
Module Model No.	622ANHU
Brand Name	Hewlett-Packard

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Marketing Name	HP EliteBook 2740p		
FCC ID	B94622ANHMW		
IC ID	466Q-622ANHMW		
Definition	Production unit		
Mode of Operation	WLAN 802.11 a/b/g/n(20M & 40M)band		
Duty Cycle	WLAN 802.11 a/b/g/n(20M & 40M)		
	1		
TX Frequency range (MHz)	WLAN802.11 b/g	WLAN802.11 n (20M)	WLAN802.11n (40M)
	2412-2462	2412-2462	2422-2452
	WLAN 802.11a	WLAN802.11n (20M) 5G	WLAN802.11n (40M) 5G
	5180-5825	5180-5825	5190-5795
Channel Number (ARFCN)	WLAN802.11 b/g	WLAN802.11 n (20M)	WLAN802.11n (40M)
	1-11	1-11	3-9
	WLAN 802.11a	WLAN802.11n (20M) 5G	WLAN802.11n (40M) 5G
	36-165	36-165	38-159
Max. SAR Measured (1g)	WLAN802.11a		
	0.607W/kg (WLAN802.11a_WLAN AUX Antenna _ CH56_ Configuration 6)		
	WLAN802.11b		
	0.341W/kg (WLAN802.11b_WLAN AUX Antenna _ CH6_ Configuration 6)		
	WLAN802.11g		
	0.613W/kg (WLAN802.11g _ WLAN AUX Antenna _ CH6_ Configuration 6)		

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Max. SAR Measured (1g)	WLAN802.11n (20M)
	0.562W/kg (WLAN802.11n(20M)_ WLAN AUX Antenna _ CH6_ Configuration 6)
	WLAN802.11n (40M)
	0.542W/kg (WLAN802.11n(40M) _ WLAN AUX Antenna _ CH6_ Configuration 6)
	WLAN802.11n (20M)5G
	0.506W/kg (WLAN802.11n(20M) _ WLAN MAIN Antenna _ CH100_ Configuration 6)
	WLAN802.11n (40M)5G
	0.561W/kg (WLAN802.11n(40M) _ WLAN MAIN Antenna _ CH102_ Configuration 6)

Note:

1. The 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.
2. The 1-g SAR for the highest output channel is less than 0.4 W/kg, where the transmission band corresponding to all channels is ≤ 200 MHz, testing for the other channels is not required.

Conducted Power

EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11b	2412	1	19.34	16.55	2412	1	19.38	16.53
	2437	6	19.27	16.56	2437	6	19.31	16.58
	2462	11	19.49	16.44	2462	11	19.52	16.49

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EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11g	2412	1	19.11	15.47	2412	1	19.23	15.73
	2437	6	19.5	16.62	2437	6	19.46	16.51
	2462	11	19.18	15.45	2462	11	19.19	15.78

EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 20M	2412	1	18.21	14.43	2412	1	18.18	14.38
	2437	6	19.77	16.65	2437	6	19.72	16.53
	2462	11	18.42	14.28	2462	11	18.45	14.25

EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 40M	2422	3	16.07	12.35	2422	3	16.11	12.37
	2437	6	19.09	16.64	2437	6	19.02	16.58
	2452	9	16.3	12.4	2452	9	16.36	12.36

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EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 20M(5.2G)	5180	36	19.92	16.54	5180	36	19.87	16.43
	5220	44	20.12	16.97	5220	44	20.04	16.99
	5240	48	20.34	16.87	5240	48	20.36	16.84

EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 20M(5.3G)	5260	52	20.16	16.73	5260	52	20.01	16.42
	5280	56	20.09	16.75	5280	56	20.12	16.77
	5320	64	20.06	16.64	5320	64	20.09	16.72

EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 20M(5.5G)	5500	100	20.05	16.72	5500	100	20.09	16.78
	5600	120	20.16	16.79	5600	120	20.23	16.81
	5700	140	20.15	16.75	5700	140	20.18	16.76

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EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 20M(5.8G)	5745	149	20.13	16.66	5745	149	20.22	16.74
	5785	157	20.16	16.67	5785	157	20.24	16.76
	5825	165	19.82	16.5	5825	165	19.85	16.64

EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 40M(5.2G)	5190	38	20.14	16.56	5190	38	20.08	16.48
	5230	46	20.18	16.58	5230	46	20.25	16.67

EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 40M(5.3G)	5270	54	20.39	16.61	5270	54	20.45	16.77
	5310	62	20.36	16.65	5310	62	20.48	16.79

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EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 40M(5.5G)	5510	102	21.09	16.51	5510	102	21.13	16.63
	5550	110	21.11	16.54	5550	110	21.19	16.64
	5590	118	21.18	16.64	5590	118	21.2	16.66
	5630	126	21.13	16.53	5630	126	21.17	16.61
	5670	134	21.14	16.58	5670	134	21.15	16.63

EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 40M(5.8G)	5755	151	19.99	16.53	5755	151	19.96	16.48
	5795	159	19.96	16.54	5795	159	19.98	16.57

EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11a (5.2G)	5180	36	20.13	16.62	5180	36	20.18	16.58
	5220	44	20.32	16.78	5220	44	20.35	16.76
	5240	48	19.8	16.37	5240	48	20.05	16.72

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EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11a (5.3G)	5260	52	19.99	16.44	5260	52	19.95	16.46
	5280	56	20.07	16.51	5280	56	20.04	16.47
	5320	64	20.01	16.45	5320	64	19.97	16.39

EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11a (5.5G)	5500	100	19.92	16.42	5500	100	19.96	16.51
	5600	120	19.96	16.55	5600	120	19.99	16.54
	5700	140	19.79	16.36	5700	140	19.83	16.49

EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11a (5.8G)	5745	149	19.8	16.57	5745	149	20.1	16.6
	5785	157	19.83	16.59	5785	157	19.87	16.62
	5825	165	19.49	16.31	5825	165	19.54	16.47

1.4 Test Environment

Ambient Temperature : $22 \pm 2^{\circ} \text{C}$

Tissue Simulating Liquid: $22 \pm 2^{\circ} \text{C}$

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1.5 Operation description

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.

We will test it with 4 configurations:

Configuration 1: Laptop mode. (WLAN/Main & WLAN/AUX –to-user separation distance is 236mm, so SAR test is not required) (Appendix-Fig.4)

Configuration 2: Lap-held mode. (WLAN/Main & WLAN/AUX –to-user separation distance is 29mm) (Appendix-Fig.5)

Configuration 3: Primary portrait mode. (WLAN/main-to-edge of screen distance is 185mm; WLAN/AUX-to-edge of screen distance is 86mm) (Appendix-Fig.6)

Configuration 4: Secondary portrait mode. (WLAN/Main-to-user separation distance is 86 mm; WLAN/AUX-to-user separation distance is 185 mm.) (Appendix-Fig.7)

Configuration 5: Primary Landscape mode.(WLAN/main & WLAN/AUX –to-edge of screen distance is 228 mm, so SAR test is not required) (Appendix-Fig.8)

Configuration 6: Secondary landscape mode.(WLAN/main & WLAN/AUX –to-edge of screen distance is 4mm) (Appendix-Fig.9)

The highest stand alone SAR value for **WLAN/ B94622ANHMW @ Secondary landscape mode** is **0.613 W/kg**; The highest stand alone SAR value for **WWAN/J9CGOBI2000-H @ lap-held mode** is **0.516W/kg**. The sum of individual SAR (**0.613+0.516=1.129W/kg**) is less than SAR limit 1.6 W/kg, simultaneous SAR evaluation is not required.

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

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

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

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

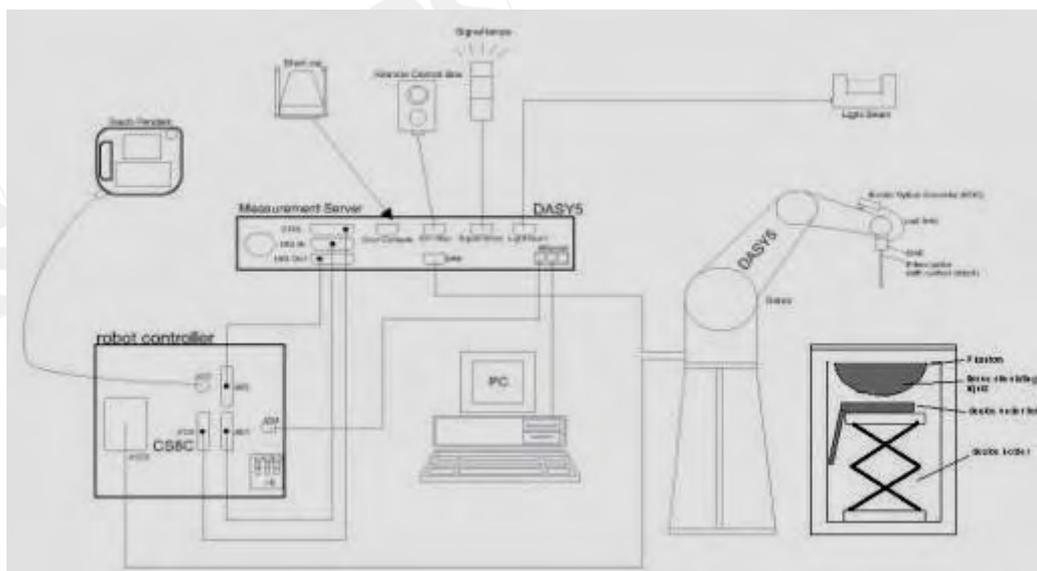


Fig.a The block diagram of SAR system

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- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
 - A computer operating Windows 2000 or Windows XP.
 - DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
 - The SAM twin phantom enabling testing left-hand and right-hand usage.
 - The device holder for handheld mobile phones.
 - Tissue simulating liquid mixed according to the given recipes.
 - Validation dipole kits allowing to validate the proper functioning of the system.

1.7 System Components

EX3DV3 E-Field Probe

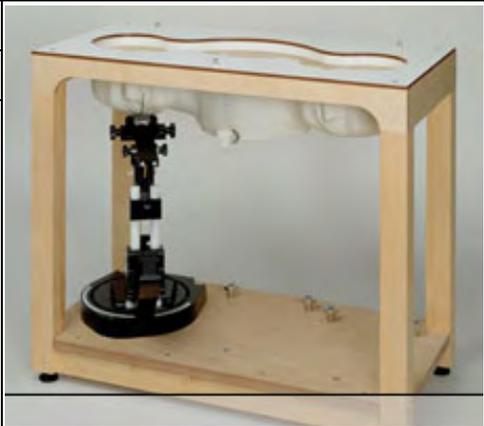
Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL2450/5000 MHz Additional CF for other liquids and frequencies 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)	

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Dynamic Range	10 μ W/g to > 100 mW/g Linearity: \pm 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

SAM PHANTOM V4.0C

Construction	<p>The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-200X, CENELEC 50361 and IEC 62209.</p> <p>It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points with the robot.</p>	
Shell Thickness	2 \pm 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Height: 850 mm; Length: 1000 mm; Width: 500 mm	

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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.	 <p style="text-align: center;">Device Holder</p>
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1.8 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 5% from the target SAR values. These tests were done at 2450/5200/5500/5800 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.

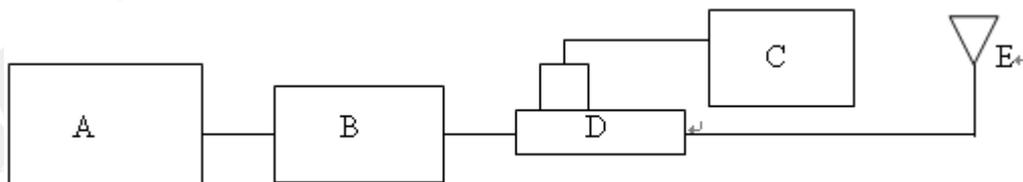


Fig.b The block diagram of system verification

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- 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)	13.2 m W/g	13.4 mW/g	2010-01-15
D5200V2 S/N:1023	5200 MHz (Body)	7.4 m W/g	7.22 mW/g	2010-01-15
D5500V2 S/N: 1023	5500 MHz (Body)	7.85 m W/g	7.96 mW/g	2010-01-16
D5800V2 S/N: 1023	5800 MHz (Body)	7.09 m W/g	6.92 mW/g	2010-01-19
D5800V2 S/N: 1023	5800 MHz (Body)	7.09 m W/g	6.95 mW/g	2010-01-22

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 $15\text{cm} \pm 5\text{mm}$ during all tests. (Fig .2)

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Frequency (MHz)	Tissue type	Measurement date/ Limits	Dielectric Parameters		
			ρ	σ (S/m)	Simulated Tissue Temperature(° C)
2450	Body	Measured, 2010.01.15	52.5	1.98	21.7
		Recommended Limits	51.68-57.12	1.88-2.08	20-24
5200	Body	Measured, 2010.01.15	48.6	5.3	21.7
		Recommended Limits	45.32-50.09	5.04-5.57	20-24
5500	Body	Measured, 2010.01.16	47.8	5.76	21.7
		Recommended Limits	44.65-49.35	5.4-5.96	20-24
5800	Body	Measured, 2010.01.19	46.9	6.17	21.7
		Recommended Limits	43.99-48.62	5.75-6.35	20-24
5800	Body	Measured, 2010.01.22	47.1	6.19	21.7
		Recommended Limits	43.99-48.62	5.75-6.35	20-24

Table 2. Dielectric Parameters of Tissue Simulant Fluid

1.10 Evaluation Procedures

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

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

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest

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measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

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

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

The measured volume of 30x30x30mm contains about 30g of tissue.

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

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1.11 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 of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

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- (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 .3 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

WLAN802.11 b_ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.56dBm	0.00448	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.56dBm	0.00516	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.56dBm	0.010	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.56dBm	0.164	22.1	21.7

WLAN802.11 b_ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.58dBm	0.00341	22.1	21.7

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Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.58dBm	0.00815	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.58dBm	0.018	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.58dBm	0.341	22.1	21.7

WLAN802.11 g _WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.62dBm	0.00733	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.62dBm	0.012	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.62dBm	0.017	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.62dBm	0.271	22.1	21.7

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WLAN802.11 g _ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450MHz	6	2437	16.51dBm	0.00494	22.1	21.7
Configuration 3: Primary Portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450MHz	6	2437	16.51dBm	0.011	22.1	21.7
Configuration 4: Secondary Portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450MHz	6	2437	16.51dBm	0.023	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450MHz	6	2437	16.51dBm	0.613	22.1	21.7

WLAN802.11 n (20M) _ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450MHz	6	2437	16.65dBm	0.00685	22.1	21.7
Configuration 3: Primary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450MHz	6	2437	16.65dBm	0.011	22.1	21.7

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Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.65dBm	0.017	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.65dBm	0.268	22.1	21.7

WLAN802.11 n (20M) _ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.53dBm	0.00524	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.53dBm	0.00936	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.53dBm	0.024	22.1	21.7
Configuration 6: Secondary landscape mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.53dBm	0.562	22.1	21.7

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WLAN802.11 n (40M) _ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.64dBm	0.00567	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.64dBm	0.0096	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.64dBm	0.017	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.64dBm	0.236	22.1	21.7

WLAN802.11 n (40M) _ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.58dBm	0.00617	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.58dBm	0.014	22.1	21.7

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Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.58dBm	0.00226	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	6	2437	16.58dBm	0.542	22.1	21.7

WLAN802.11 n (20M) 5.2G _ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	44	5220	16.97dBm	0.000336	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	44	5220	16.97dBm	0.000477	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	44	5220	16.97dBm	0.049	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	44	5220	16.97dBm	0.289	22.1	21.7

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WLAN802.11 n (20M) 5.2G _ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	44	5220	16.99dBm	0.00498	22.1	21.7
Configuration 3: Primary portrait						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	44	5220	16.99dBm	0.038	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	44	5220	16.99dBm	0.00908	22.1	21.7
Configuration 6: Secondary landscape mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	44	5220	16.99dBm	0.408	22.1	21.7

WLAN802.11 n (20M) 5.3G _ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	56	5280	16.75dBm	0.000209	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	56	5280	16.75dBm	0.000153	22.1	21.7

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Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	56	5280	16.75dBm	0.035	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	56	5280	16.75dBm	0.258	22.1	21.7

WLAN802.11 n (20M) 5.3G _ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	56	5280	16.77dBm	0.00443	22.1	21.7
Configuration 3: Primary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	56	5280	16.77dBm	0.045	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	56	5280	16.77dBm	0.00902	22.1	21.7
Configuration 6: Secondary landscape mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	56	5280	16.77dBm	0.463	22.1	21.7

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WLAN802.11 n (20M) 5.5G _ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	120	5600	16.79dBm	0.00257	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	120	5600	16.79dBm	0.000103	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	120	5600	16.79dBm	0.00589	22.1	21.7
Configuration 6: Secondary landscape mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	100	5500	16.72dBm	0.506	22.1	21.7
	120	5600	16.79dBm	0.449	22.1	21.7
	140	5700	16.75dBm	0.406	22.1	21.7

WLAN802.11 n (20M) 5.5G _ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	120	5600	16.81dBm	0.017	22.1	21.7
Configuration 3: Primary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	120	5600	16.81dBm	0.020	22.1	21.7

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Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	120	5600	16.81dBm	0.000243	22.1	21.7
Configuration 6: Secondary landscape mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	100	5500	16.78dBm	0.374	22.1	21.7
	120	5600	16.81dBm	0.449	22.1	21.7
	140	5700	16.76dBm	0.258	22.1	21.7

WLAN802.11 n (20M) 5.8G _ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	157	5785	16.67dBm	0.00033	22.1	21.7
Configuration 3: Primary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	157	5785	16.67dBm	0.000102	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	157	5785	16.67dBm	0.028	22.1	21.7
Configuration 6: Secondary landscape mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	157	5785	16.67dBm	0.482	22.1	21.7

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WLAN802.11 n (20M) 5.8G _ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	157	5785	16.76dBm	0.021	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	157	5785	16.76dBm	0.00898	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	157	5785	16.76dBm	0.000101	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	157	5785	16.76dBm	0.408	22.1	21.7

WLAN802.11 n (40M) 5.2G _ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	46	5230	16.58dBm	0.000618	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	46	5230	16.58dBm	0.018	22.1	21.7

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Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	46	5230	16.58dBm	0.046	22.1	21.7
Configuration 6: Secondary landscape mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	46	5230	16.58dBm	0.345	22.1	21.7

WLAN802.11 n (40M) 5.2G _ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	46	5230	16.67dBm	0.00601	22.1	21.7
Configuration 3: Primary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	46	5230	16.67dBm	0.065	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	46	5230	16.67dBm	0.00093	22.1	21.7
Configuration 6: Secondary landscape mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	46	5230	16.67dBm	0.406	22.1	21.7

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WLAN802.11 n (40M) 5.3G _ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	62	5310	16.65dBm	0.000174	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	62	5310	16.65dBm	0.00273	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	62	5310	16.65dBm	0.038	22.1	21.7
Configuration 6: Secondary landscape mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	62	5310	16.65dBm	0.277	22.1	21.7

WLAN802.11 n (40M) 5.3G _ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	62	5310	16.79dBm	0.00883	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	62	5310	16.79dBm	0.088	22.1	21.7

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Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	62	5310	16.79dBm	0.00274	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	62	5310	16.79dBm	0.452	22.1	21.7

WLAN802.11 n (40M) 5.5G _ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	118	5590	16.64dBm	0.000156	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	118	5590	16.64dBm	0.030	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	118	5590	16.64dBm	0.00731	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	102	5510	16.51dBm	0.561	22.1	21.7
	110	5550	16.54dBm	0.507	22.1	21.7
	118	5590	16.64dBm	0.526	22.1	21.7
	126	5630	16.53dBm	0.516	22.1	21.7
	134	5670	16.58dBm	0.544	22.1	21.7

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WLAN802.11 n(40M) 5.5G _ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5500MHz	118	5590	16.66dBm	0.024	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5500MHz	118	5590	16.66dBm	0.040	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5500MHz	118	5590	16.66dBm	0.000175	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5500MHz	102	5510	16.63dBm	0.359	22.1	21.7
	110	5550	16.64dBm	0.39	22.1	21.7
	118	5590	16.66dBm	0.413	22.1	21.7
	126	5630	16.61dBm	0.331	22.1	21.7
	134	5670	16.63dBm	0.312	22.1	21.7

WLAN802.11 n(40M) 5.8G _ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	159	5795	16.54dBm	0.00193	22.1	21.7

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Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	159	5795	16.54dBm	0.00387	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	159	5795	16.54dBm	0.034	22.1	21.7
Configuration 6: Secondary landscape mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	159	5795	16.54dBm	0.552	22.1	21.7

WLAN802.11 n(40M) 5.8G _ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	159	5795	16.57dBm	0.016	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	159	5795	16.57dBm	0.010	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	159	5795	16.57dBm	0.000241	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	159	5795	16.57dBm	0.403	22.1	21.7

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WLAN802.11 a 5.2G_ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	44	5200	16.78dBm	0.000597	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	44	5200	16.78dBm	0.00801	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	44	5200	16.78dBm	0.052	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	44	5200	16.78dBm	0.31	22.1	21.7

WLAN802.11 a 5.2G_ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	44	5220	16.76dBm	0.00743	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	44	5220	16.76dBm	0.041	22.1	21.7

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Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	44	5220	16.76dBm	0.000116	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	44	5220	16.76dBm	0.447	22.1	21.7

WLAN802.11 a 5.3G_ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	56	5280	16.51dBm	0.0059	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	56	5280	16.51dBm	0.00942	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	56	5280	16.51dBm	0.046	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	56	5280	16.51dBm	0.294	22.1	21.7

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WLAN802.11 a 5.3G_ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	56	5280	16.47dBm	0.012	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	56	5280	16.47dBm	0.019	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	56	5280	16.47dBm	0.00594	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5200MHz	56	5280	16.47dBm	0.607	22.1	21.7

WLAN802.11 a 5.5G_ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5500MHz	120	5600	16.55dBm	0.00626	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5500MHz	120	5600	16.55dBm	0.000953	22.1	21.7

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Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	120	5600	16.55dBm	0.030	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	100	5500	16.42dBm	0.525	22.1	21.7
	120	5600	16.55dBm	0.532	22.1	21.7
	140	5700	16.36dBm	0.546	22.1	21.7

WLAN802.11 a 5.5G_ WLAN AUX Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	120	5600	16.54dBm	0.018	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	120	5600	16.54dBm	0.025	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	120	5600	16.54dBm	0.000628	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	100	5500	16.51dBm	0.369	22.1	21.7
	120	5600	16.54dBm	0.423	22.1	21.7
	140	5700	16.49dBm	0.264	22.1	21.7

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WLAN802.11 a 5.8G_ WLAN MAIN Antenna

Configuration 2: Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	157	5785	16.59dBm	0.00364	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	157	5785	16.59dBm	0.000363	22.1	21.7
Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	157	5785	16.59dBm	0.038	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	157	5785	16.59dBm	0.509	22.1	21.7

WLAN802.11 a 5.8G_ WLAN AUX Antenna

Configuration 2: Lap-held Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	157	5785	16.62dBm	0.016	22.1	21.7
Configuration 3: Primary portrait mode.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5800MHz	157	5785	16.62dBm	0.012	22.1	21.7

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Configuration 4: Secondary portrait mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	157	5785	16.62dBm	0.000203	22.1	21.7
Configuration 6: Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	157	5785	16.62dBm	0.449	22.1	21.7

Note:

The SAR measurement results with transmitter at maximum output power.

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3. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	EX3DV3	3526	Aug.26.2009
Schmid & Partner Engineering AG	2450/5200/5500/5800 MHz System Validation Dipole	D2450V2	727	Apr.27.2009
		D5GHzV2	1023	Mar.13.2009
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	856	May.26.2009
Schmid & Partner Engineering AG	Software	DASY 5 V5.0 Build125	N/A	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required
Agilent	Network Analyzer	8753D	3410A05547	Mar.31.2009
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration not required
Agilent	Dual-directional coupler	777D	50114	Aug.27.2009
Agilent	RF Signal Generator	8648D	3847M00432	May.25.2009
Agilent	Power Sensor	U2001B	MY48100169	Apr.23.2009

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4. Measurements

Date/Time: 01/15/2010 01:49:15

Configuration 2_CH 6_WLAN 802.11b_Main

DUT: HSTNN-W75C;

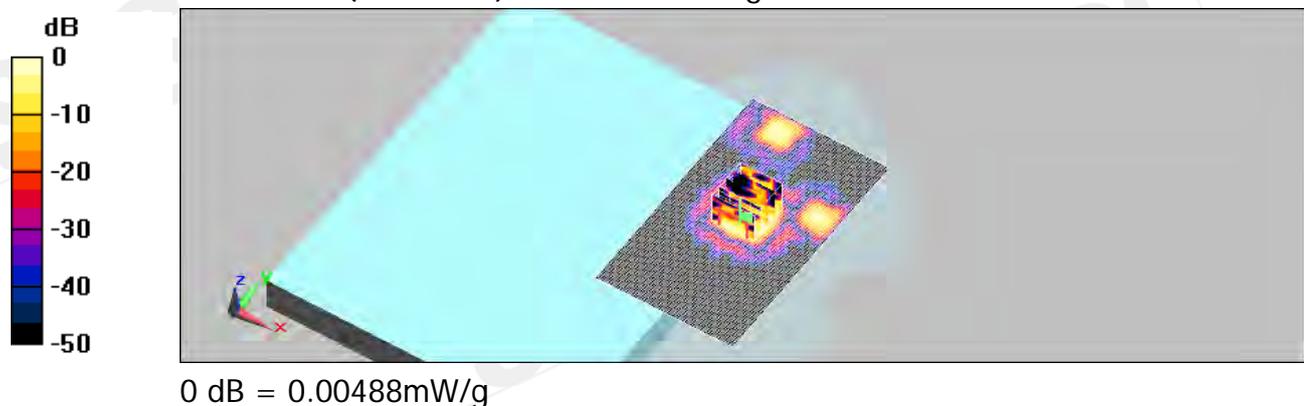
Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.00491 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 1.52 V/m; Power Drift = -0.144 dB
Peak SAR (extrapolated) = 0.012 W/kg

SAR(1 g) = 0.00448 mW/g; SAR(10 g) = 0.00151 mW/g
Maximum value of SAR (measured) = 0.00488 mW/g



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Date/Time: 01/15/2010 02:17:59

Configuration 3_CH6_WLAN 802.11b_Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

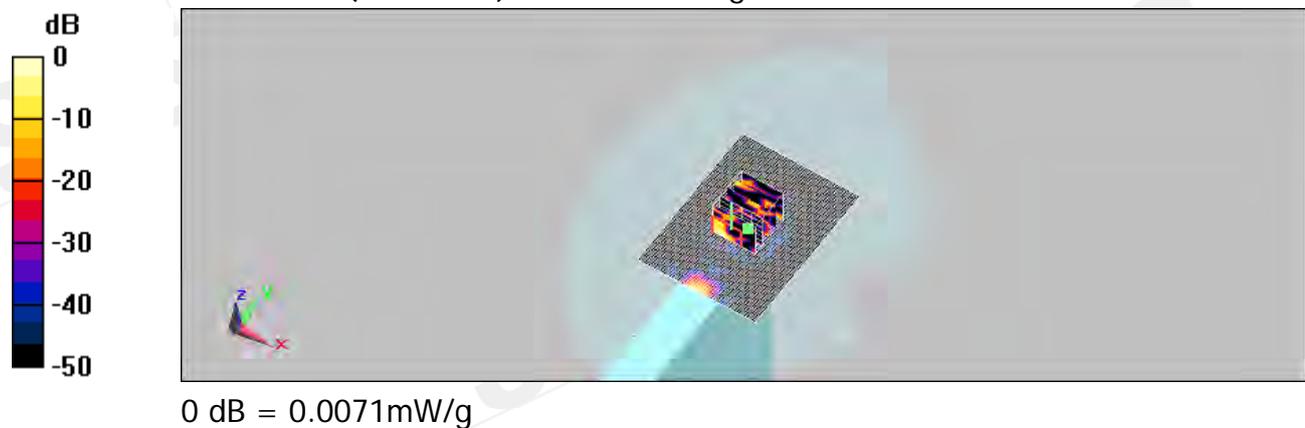
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00537 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.29 V/m; Power Drift = -0.030 dB
 Peak SAR (extrapolated) = 0.012 W/kg

SAR(1 g) = 0.00516 mW/g; SAR(10 g) = 0.00136 mW/g
 Maximum value of SAR (measured) = 0.0071 mW/g



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Date/Time: 01/15/2010 02:43:48

Configuration 4_CH6_WLAN 802.11b_Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

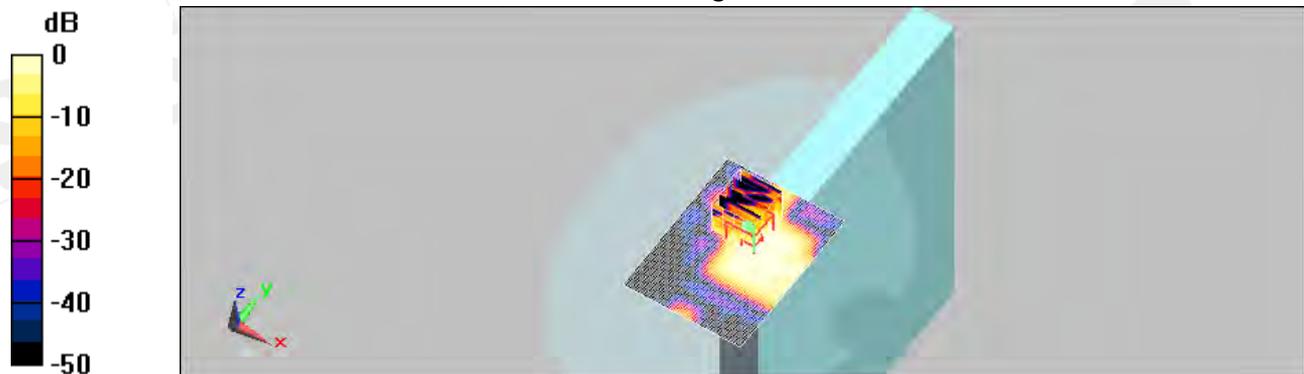
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.014 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.99 V/m; Power Drift = 0.148 dB
 Peak SAR (extrapolated) = 0.035 W/kg

SAR(1 g) = 0.010 mW/g; SAR(10 g) = 0.00414 mW/g
 Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.011mW/g

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Date/Time: 01/15/2010 03:12:04

Configuration 6_CH 6_WLAN 802.11b_ Main

DUT: HSTNN-W75C;

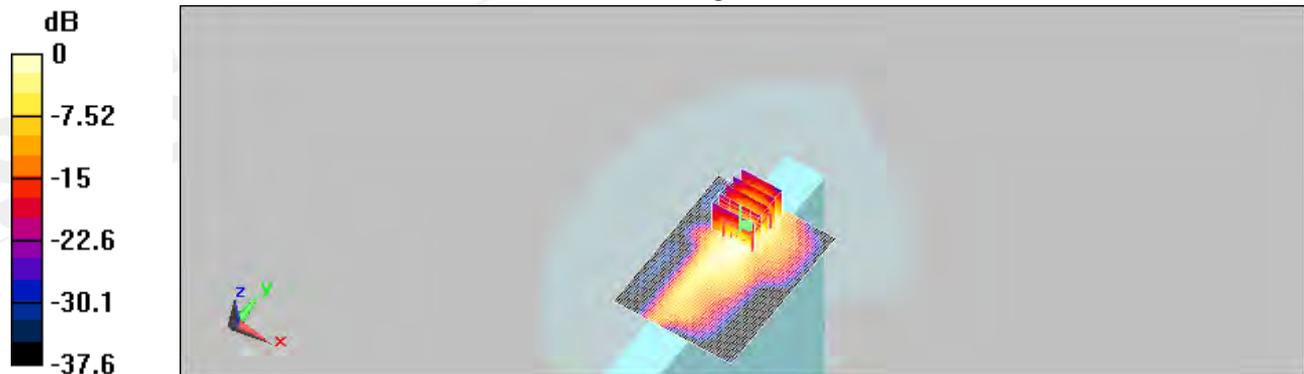
Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.195 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 8.91 V/m; Power Drift = -0.179 dB
 Peak SAR (extrapolated) = 0.385 W/kg

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.071 mW/g
 Maximum value of SAR (measured) = 0.176 mW/g



0 dB = 0.176mW/g

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Date/Time: 01/15/2010 03:40:28

Configuration 2_CH6_WLAN 802.11b_Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

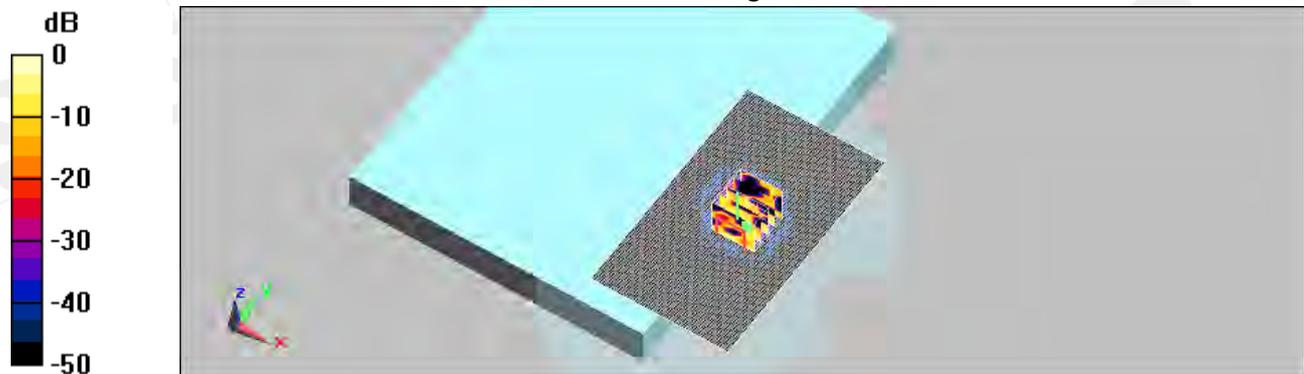
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00388 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.950 V/m; Power Drift = 0.081 dB
 Peak SAR (extrapolated) = 0.014 W/kg

SAR(1 g) = 0.00341 mW/g; SAR(10 g) = 0.00121 mW/g
 Maximum value of SAR (measured) = 0.00436 mW/g



0 dB = 0.00436mW/g

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Date/Time: 01/15/2010 04:07:36

Configuration 3_CH6_WLAN 802.11b_Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

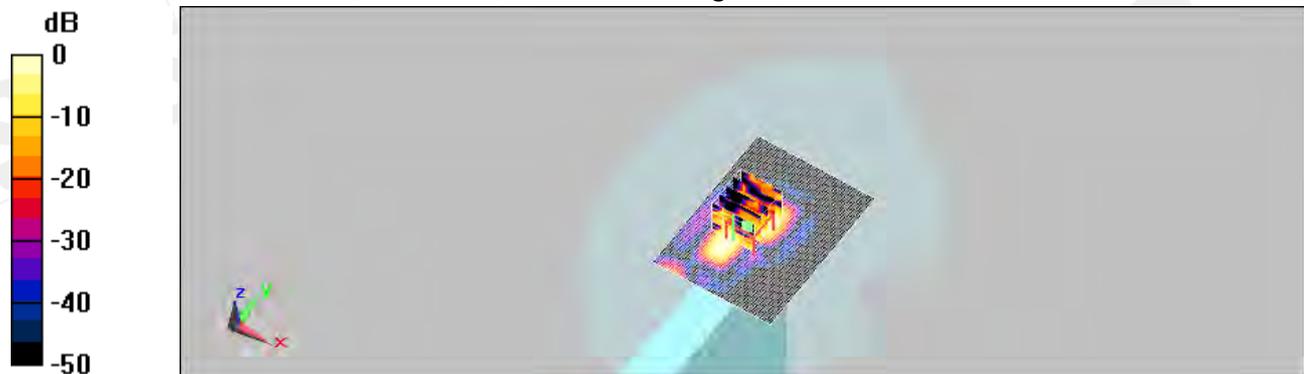
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.012 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.77 V/m; Power Drift = 0.151 dB
 Peak SAR (extrapolated) = 0.030 W/kg

SAR(1 g) = 0.00815 mW/g; SAR(10 g) = 0.00305 mW/g
 Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.011mW/g

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Date/Time: 01/15/2010 04:36:23

Configuration 4_CH6_WLAN 802.11b_Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

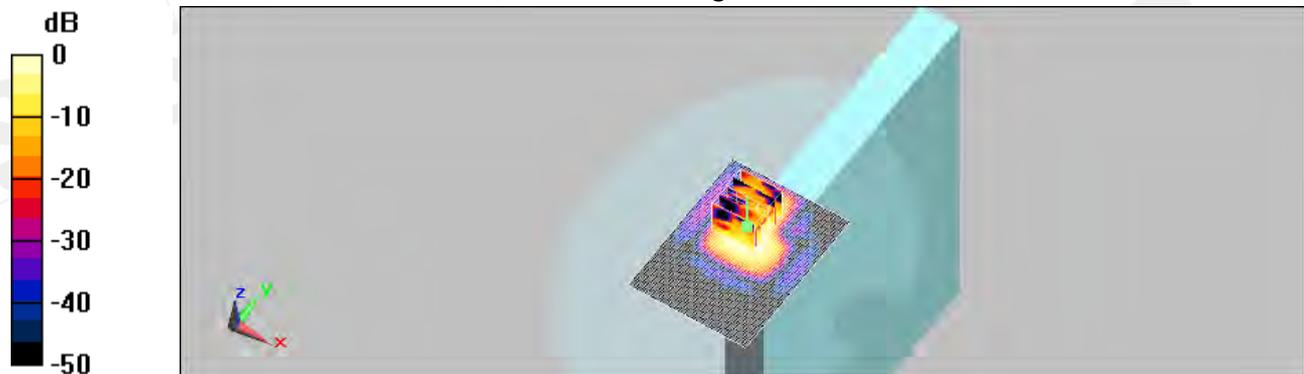
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.037 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.07 V/m; Power Drift = 0.207 dB
 Peak SAR (extrapolated) = 0.042 W/kg

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00731 mW/g
 Maximum value of SAR (measured) = 0.020 mW/g



0 dB = 0.020mW/g

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Date/Time: 01/15/2010 05:02:38

Configuration 6_CH 6_WLAN 802.11b_Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

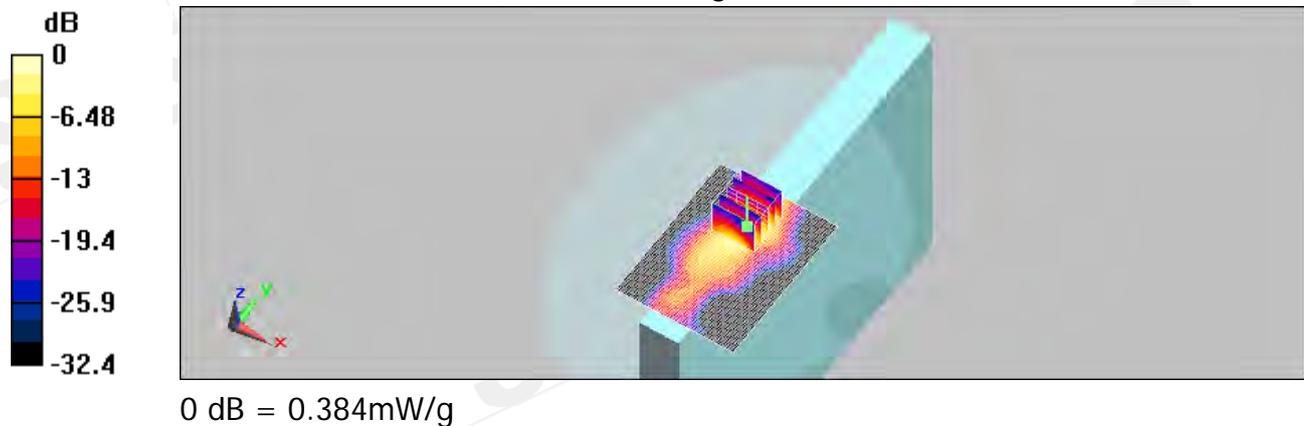
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.415 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 9.44 V/m; Power Drift = -0.145 dB
 Peak SAR (extrapolated) = 0.850 W/kg

SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.134 mW/g
 Maximum value of SAR (measured) = 0.384 mW/g



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Date/Time: 01/15/2010 05:30:37

Configuration 2_CH 6_WLAN 802.11g_Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

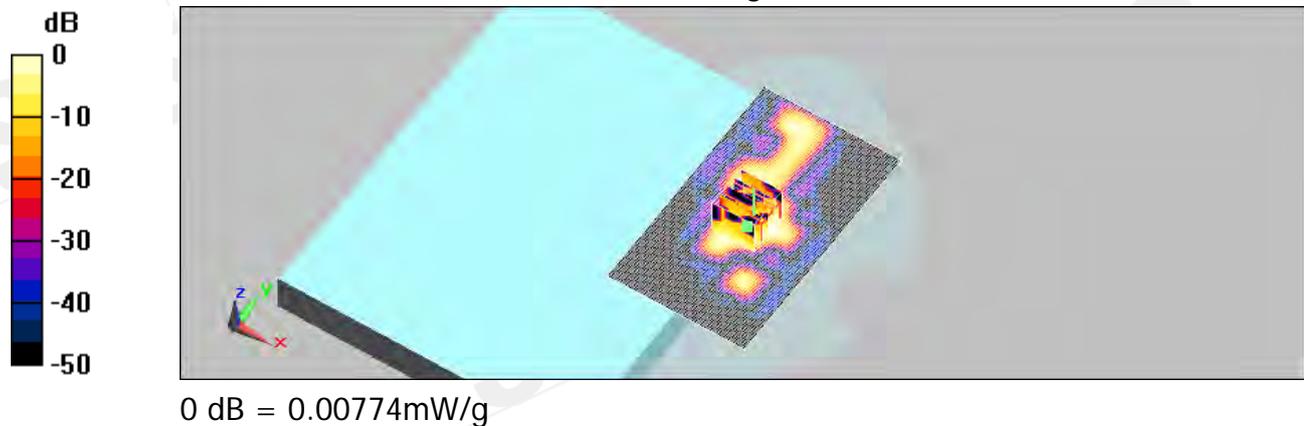
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.023 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.96 V/m; Power Drift = -0.047 dB
 Peak SAR (extrapolated) = 0.018 W/kg

SAR(1 g) = 0.00733 mW/g; SAR(10 g) = 0.00317 mW/g
 Maximum value of SAR (measured) = 0.00774 mW/g



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Date/Time: 01/15/2010 06:01:45

Configuration 3_CH6_WLAN 802.11g_Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

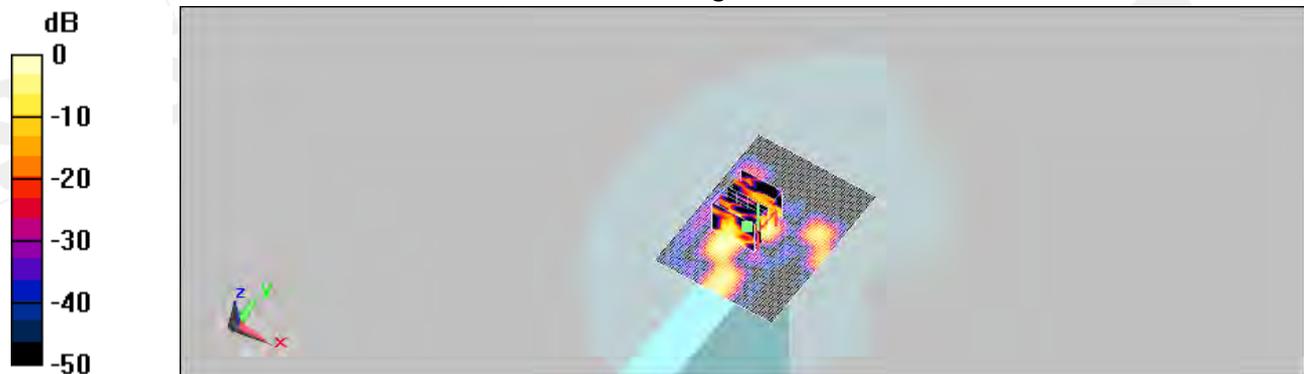
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.014 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.87 V/m; Power Drift = 0.162 dB
 Peak SAR (extrapolated) = 0.025 W/kg

SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00361 mW/g
 Maximum value of SAR (measured) = 0.013 mW/g



0 dB = 0.013mW/g

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Date/Time: 01/15/2010 06:28:24

Configuration 4_CH6_WLAN 802.11g_Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

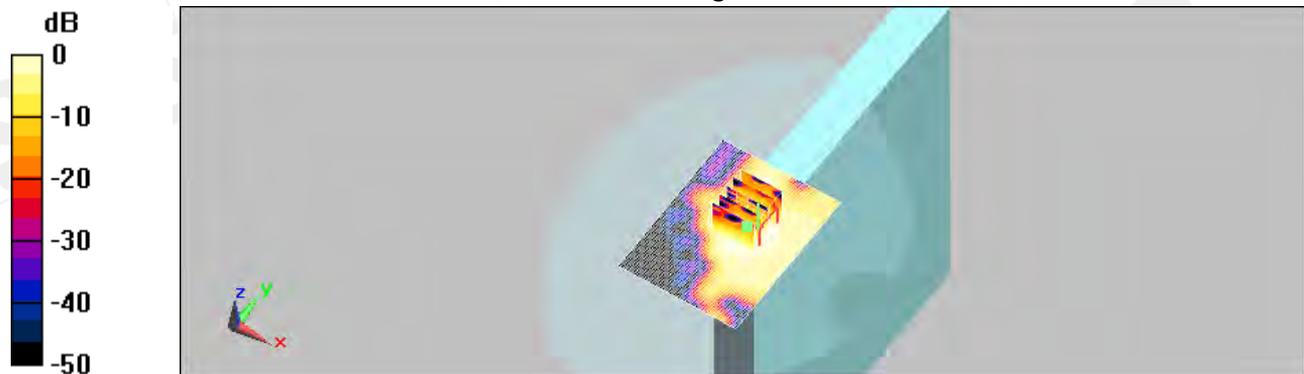
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.020 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.69 V/m; Power Drift = 0.035 dB
 Peak SAR (extrapolated) = 0.062 W/kg

SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00884 mW/g
 Maximum value of SAR (measured) = 0.021 mW/g



0 dB = 0.021mW/g

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Date/Time: 01/15/2010 06:57:55

Configuration 6_CH 6_WLAN 802.11g_ Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

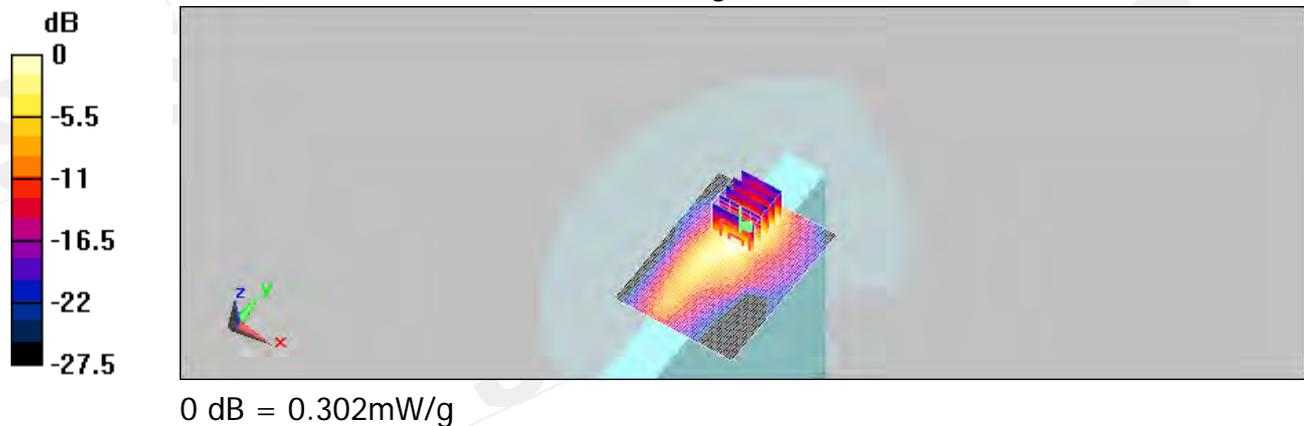
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.292 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 12.3 V/m; Power Drift = 0.040 dB
 Peak SAR (extrapolated) = 0.627 W/kg

SAR(1 g) = 0.271 mW/g; SAR(10 g) = 0.125 mW/g
 Maximum value of SAR (measured) = 0.302 mW/g



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Date/Time: 01/15/2010 07:25:13

Configuration 2_CH6_WLAN 802.11g_Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

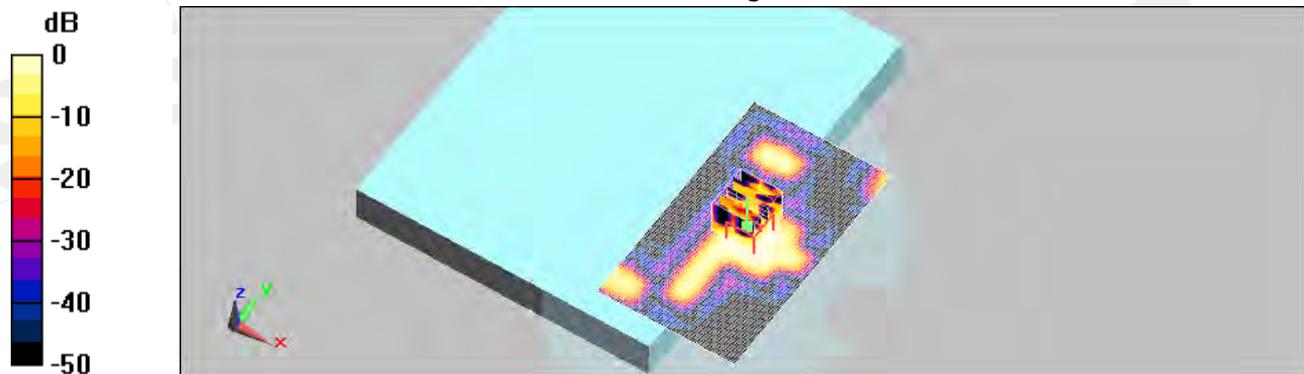
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00991 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.42 V/m; Power Drift = -0.186 dB
 Peak SAR (extrapolated) = 0.018 W/kg

SAR(1 g) = 0.00494 mW/g; SAR(10 g) = 0.00205 mW/g
 Maximum value of SAR (measured) = 0.00521 mW/g



0 dB = 0.00521mW/g

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Date/Time: 01/15/2010 07:54:10

Configuration 3_CH6_WLAN 802.11g_Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

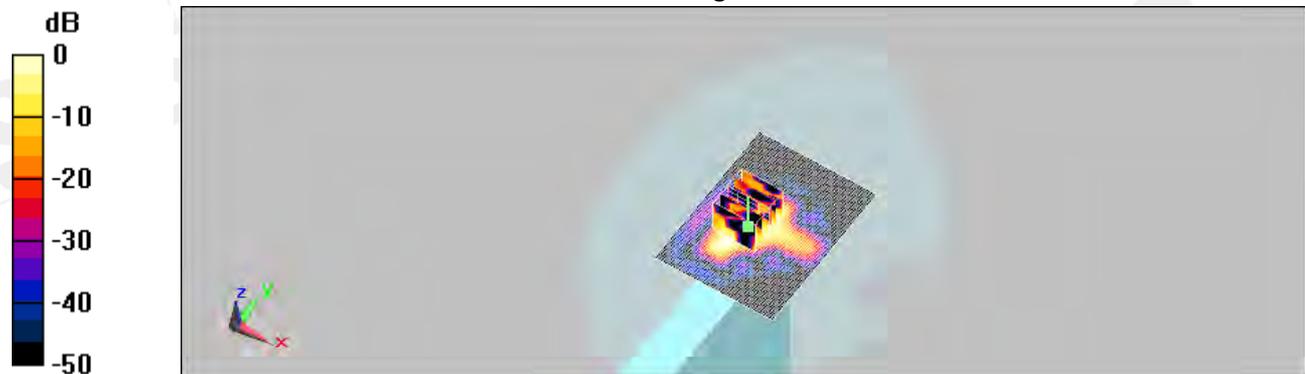
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.028 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.03 V/m; Power Drift = 0.040 dB
 Peak SAR (extrapolated) = 0.022 W/kg

SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00408 mW/g
 Maximum value of SAR (measured) = 0.014 mW/g



0 dB = 0.014mW/g

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Date/Time: 01/15/2010 08:21:15

Configuration 4_CH6_WLAN 802.11g_Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

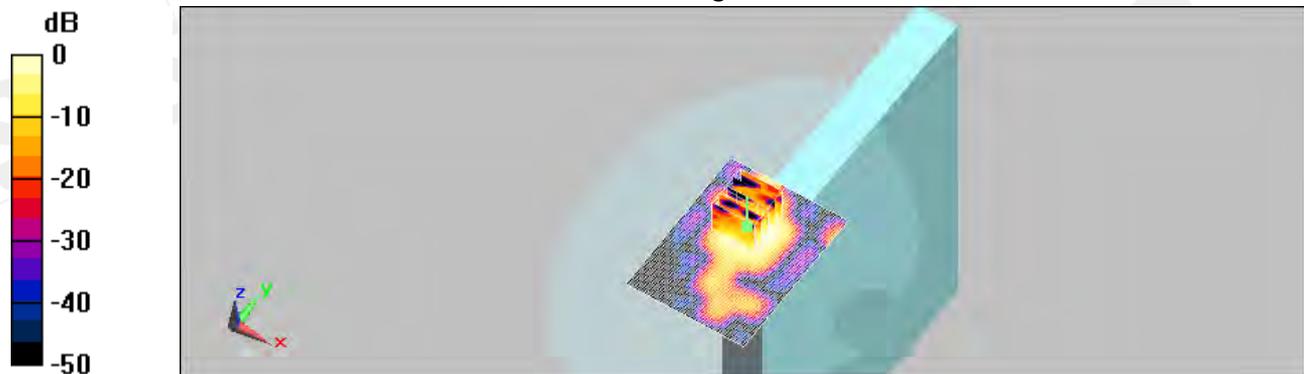
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.036 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.48 V/m; Power Drift = 0.163 dB
 Peak SAR (extrapolated) = 0.046 W/kg

SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.011 mW/g
 Maximum value of SAR (measured) = 0.027 mW/g



0 dB = 0.027mW/g

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Date/Time: 01/15/2010 08:50:02

Configuration 6_CH 6_WLAN 802.11g_Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

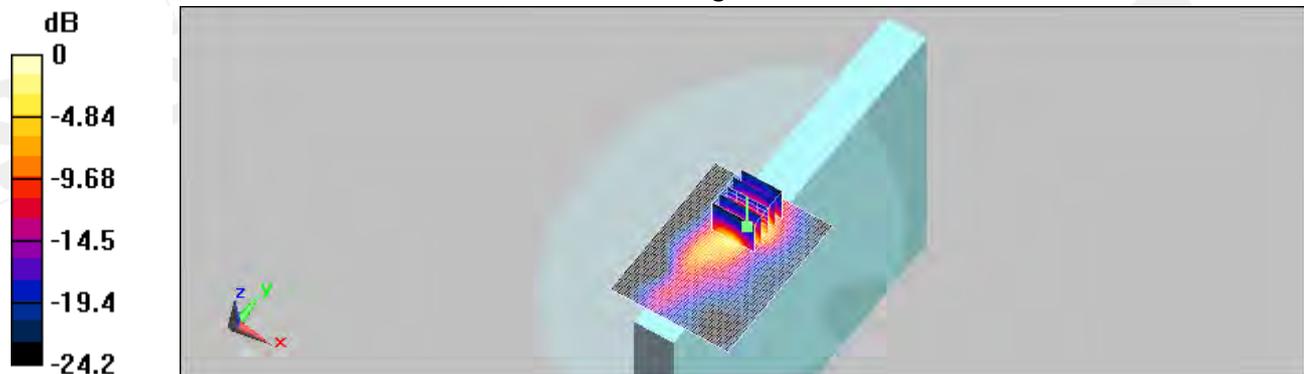
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.702 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 12.2 V/m; Power Drift = -0.145 dB
 Peak SAR (extrapolated) = 1.48 W/kg

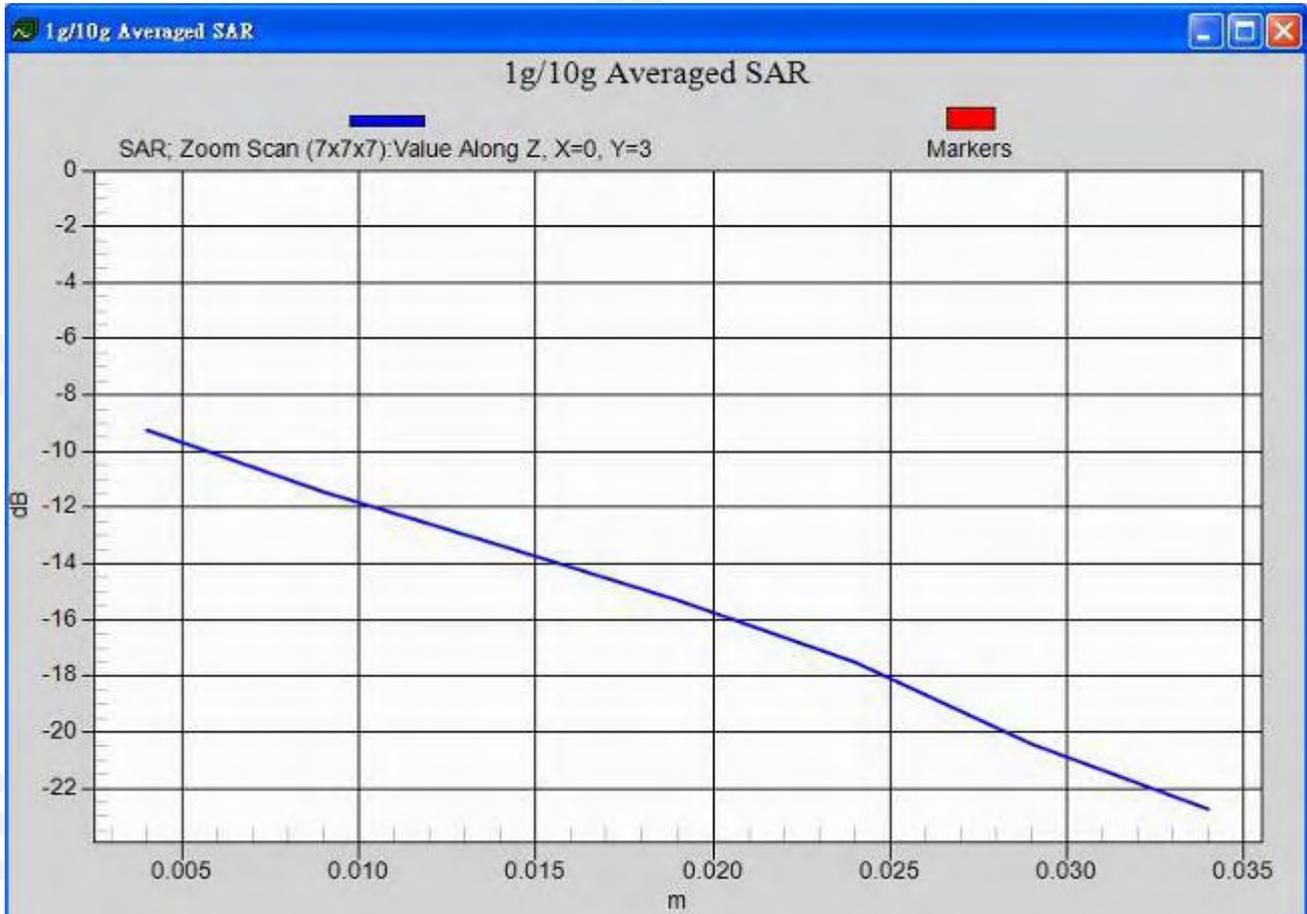
SAR(1 g) = 0.613 mW/g; SAR(10 g) = 0.247 mW/g
 Maximum value of SAR (measured) = 0.684 mW/g



0 dB = 0.684mW/g

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Date/Time: 01/15/2010 09:17:32

Configuration 2_CH 6_WLAN 802.11n(20M)_ Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

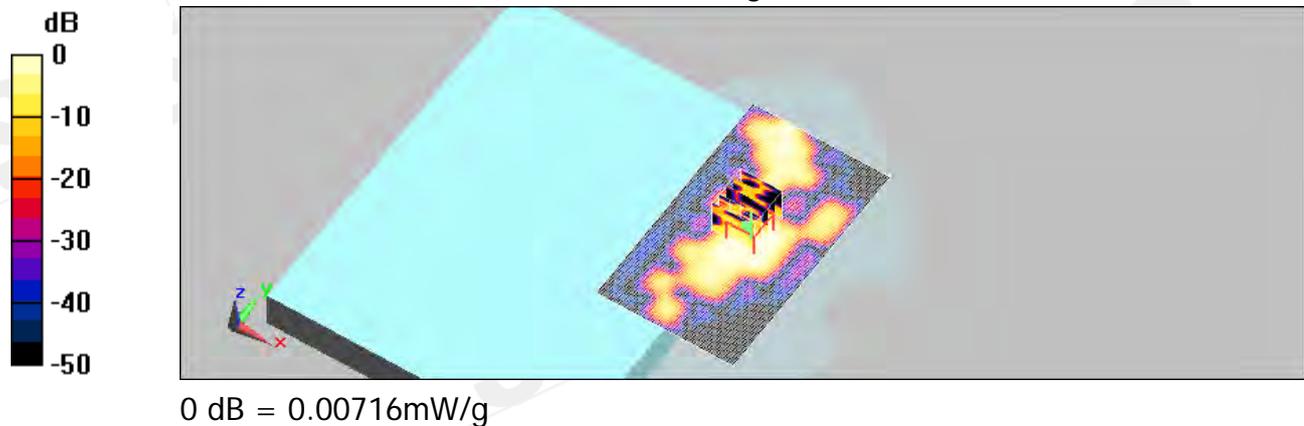
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.010 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.91 V/m; Power Drift = -0.105 dB
 Peak SAR (extrapolated) = 0.018 W/kg

SAR(1 g) = 0.00685 mW/g; SAR(10 g) = 0.00301 mW/g
 Maximum value of SAR (measured) = 0.00716 mW/g



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Date/Time: 01/15/2010 09:46:10

Configuration 3_CH6_WLAN 802.11n(20M)_ Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

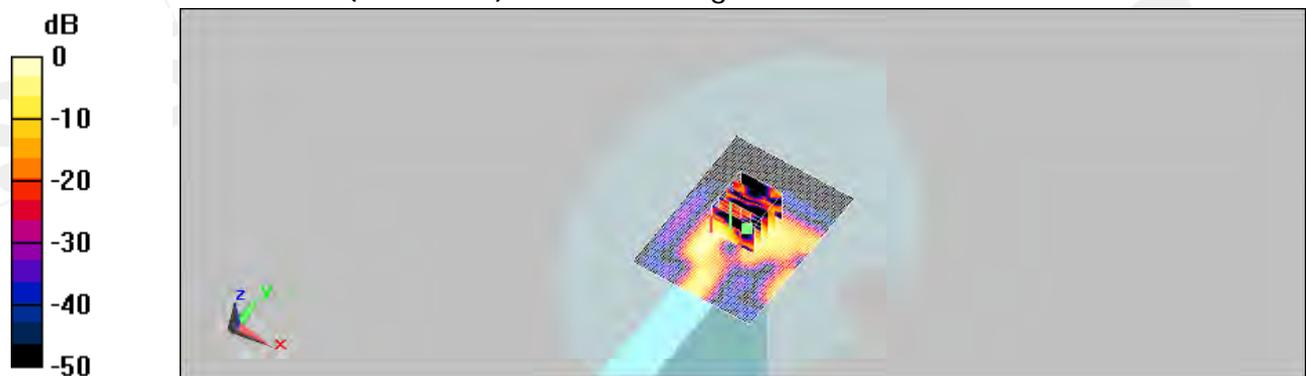
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.011 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.92 V/m; Power Drift = -0.152 dB
 Peak SAR (extrapolated) = 0.022 W/kg

SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.0038 mW/g
 Maximum value of SAR (measured) = 0.015 mW/g



0 dB = 0.015mW/g

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Date/Time: 01/15/2010 10:14:55

Configuration 4_CH6_WLAN 802.11n(20M)_ Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

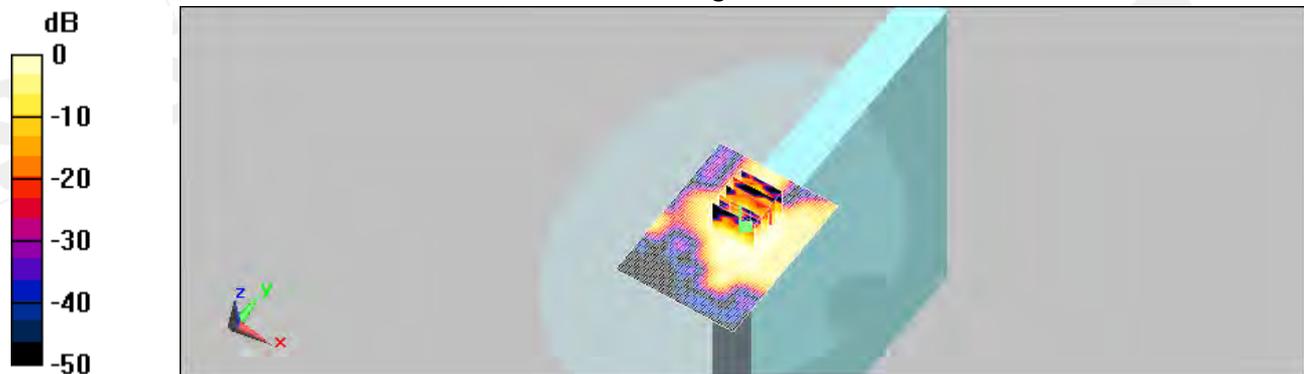
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.019 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.7 V/m; Power Drift = 0.152 dB
 Peak SAR (extrapolated) = 0.038 W/kg

SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.0091 mW/g
 Maximum value of SAR (measured) = 0.019 mW/g



0 dB = 0.019mW/g

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Date/Time: 01/15/2010 10:41:22

Configuration 6_CH 6_WLAN 802.11n(20M)_ Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

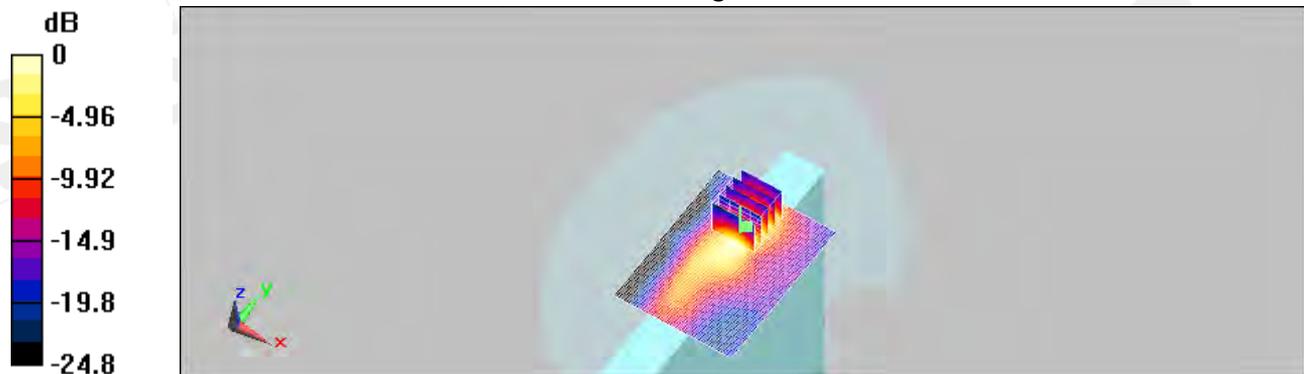
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.292 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 11.8 V/m; Power Drift = -0.054 dB
 Peak SAR (extrapolated) = 0.620 W/kg

SAR(1 g) = 0.268 mW/g; SAR(10 g) = 0.121 mW/g
 Maximum value of SAR (measured) = 0.321 mW/g



0 dB = 0.321mW/g

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Date/Time: 01/15/2010 11:10:20

Configuration 2_CH6_WLAN 802.11n(20M)_ Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

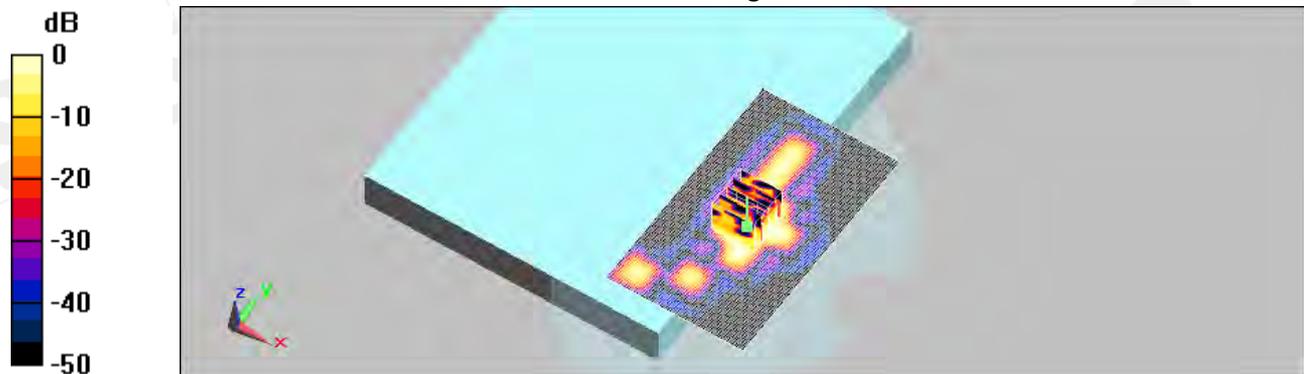
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.015 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.74 V/m; Power Drift = -0.14 dB
 Peak SAR (extrapolated) = 0.017 W/kg

SAR(1 g) = 0.00524 mW/g; SAR(10 g) = 0.00223 mW/g
 Maximum value of SAR (measured) = 0.00521 mW/g



0 dB = 0.00521mW/g

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Date/Time: 01/15/2010 11:36:25

Configuration 3_CH6_WLAN 802.11n(20M)_ Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

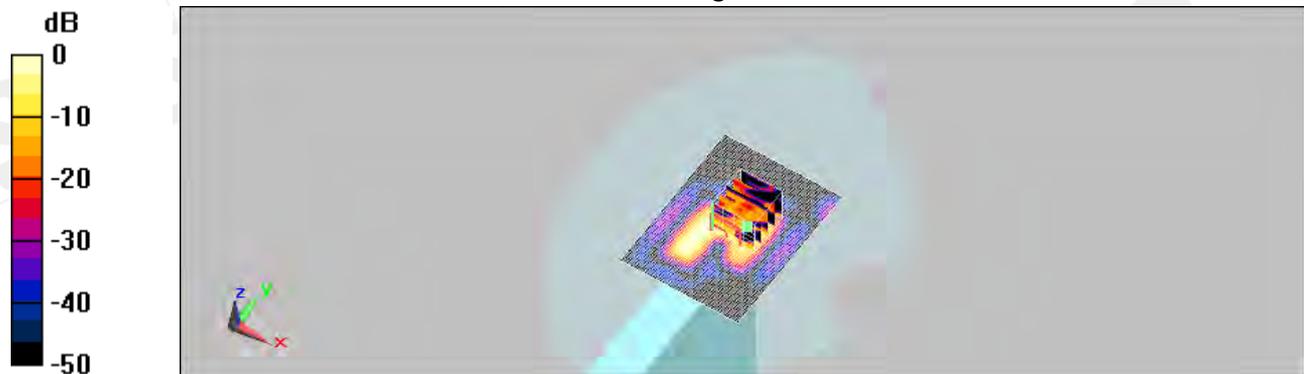
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.012 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.93 V/m; Power Drift = 0.036 dB
 Peak SAR (extrapolated) = 0.022 W/kg

SAR(1 g) = 0.00936 mW/g; SAR(10 g) = 0.00286 mW/g
 Maximum value of SAR (measured) = 0.015 mW/g



0 dB = 0.015mW/g

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Date/Time: 01/15/2010 12:04:23

Configuration 4_CH6_WLAN 802.11n(20M)_ Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

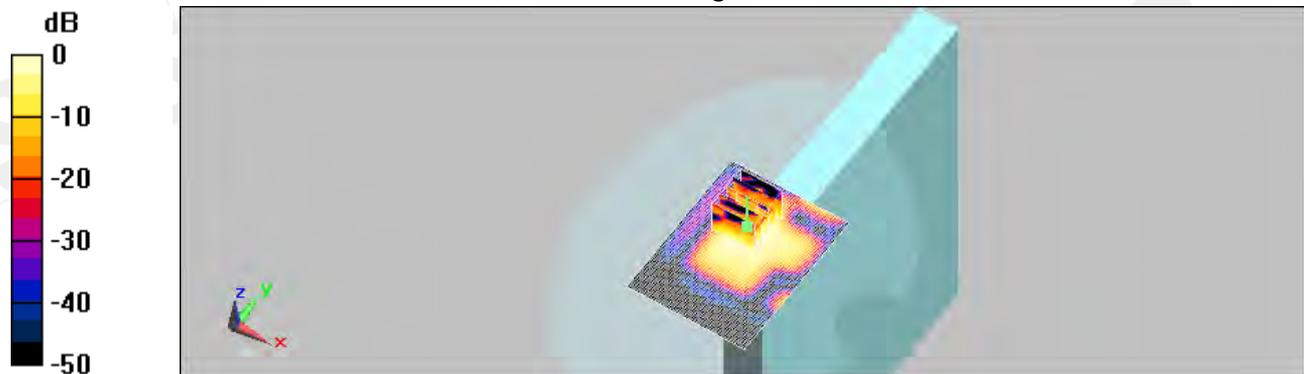
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.042 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.59 V/m; Power Drift = -0.153 dB
 Peak SAR (extrapolated) = 0.092 W/kg

SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.011 mW/g
 Maximum value of SAR (measured) = 0.028 mW/g



0 dB = 0.028mW/g

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Date/Time: 01/15/2010 12:33:46

Configuration 6_CH 6_WLAN 802.11n(20M)_ Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

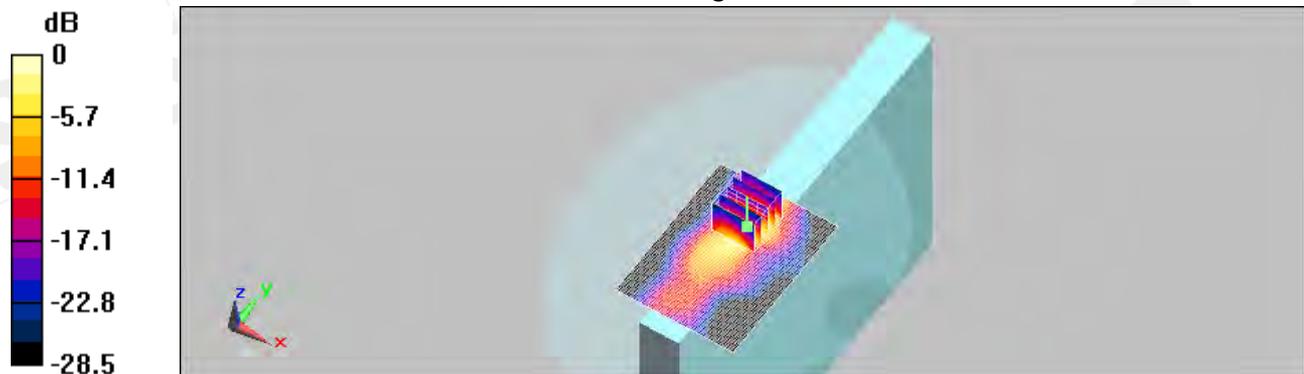
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.717 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 12 V/m; Power Drift = 0.136 dB
 Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.224 mW/g
 Maximum value of SAR (measured) = 0.611 mW/g



0 dB = 0.611mW/g

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Date/Time: 01/15/2010 13:00:14

Configuration 2_CH 6_WLAN 802.11n(40M)_ Main

DUT: HSTNN-W75C;

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

Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.00733 mW/g

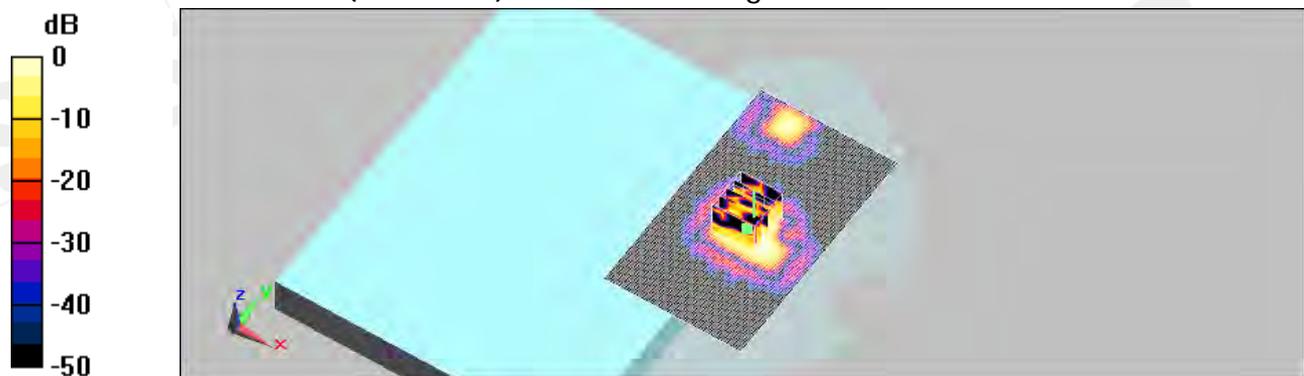
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.88 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 0.013 W/kg

SAR(1 g) = 0.00567 mW/g; SAR(10 g) = 0.00237 mW/g

Maximum value of SAR (measured) = 0.00674 mW/g



0 dB = 0.00674mW/g

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Date/Time: 01/15/2010 13:29:19

Configuration 3_CH6_WLAN 802.11n(40M)_ Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

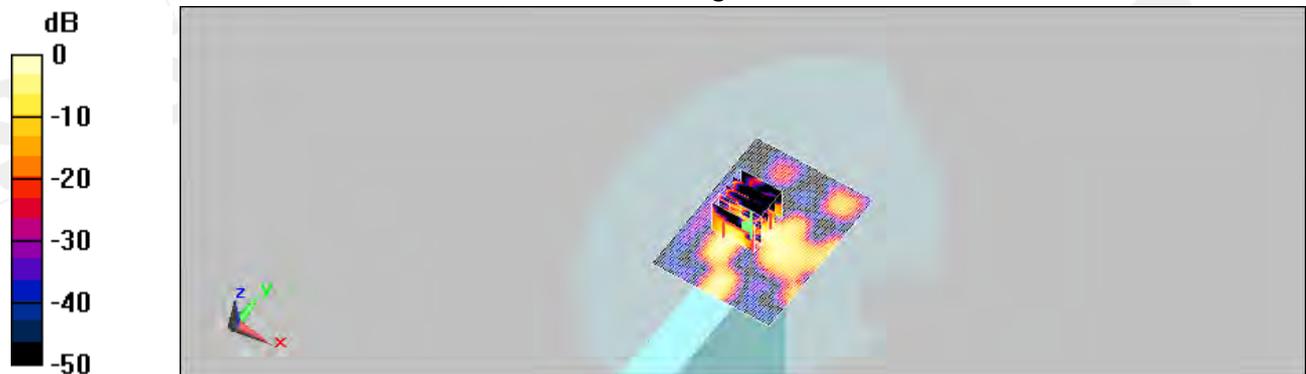
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.012 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.97 V/m; Power Drift = -0.126 dB
 Peak SAR (extrapolated) = 0.020 W/kg

SAR(1 g) = 0.0096 mW/g; SAR(10 g) = 0.0036 mW/g
 Maximum value of SAR (measured) = 0.012 mW/g



0 dB = 0.012mW/g

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Date/Time: 01/15/2010 13:56:34

Configuration 4_CH6_WLAN 802.11n(40M)_ Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

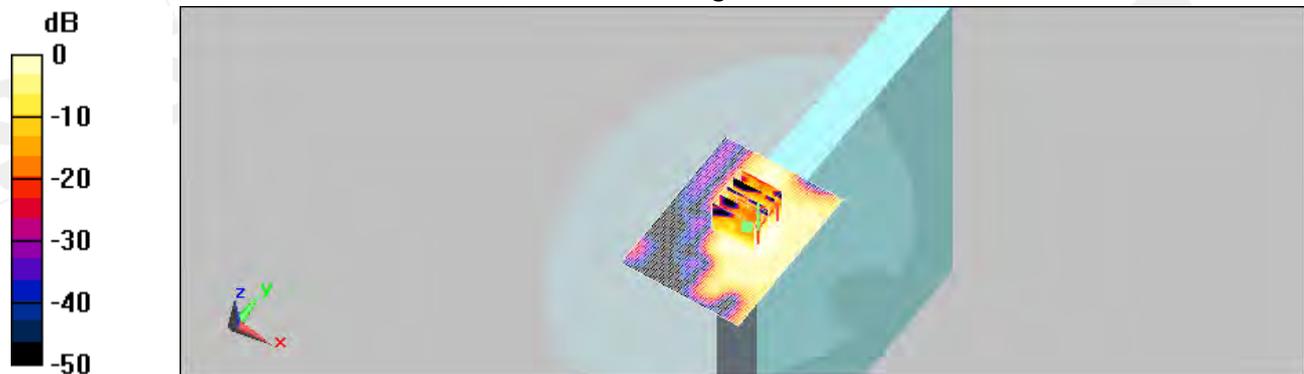
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.023 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.75 V/m; Power Drift = 0.134 dB
 Peak SAR (extrapolated) = 0.033 W/kg

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00906 mW/g
 Maximum value of SAR (measured) = 0.019 mW/g



0 dB = 0.019mW/g

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Date/Time: 01/15/2010 14:25:34

Configuration 6_CH 6_WLAN 802.11n(40M)_ Main

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

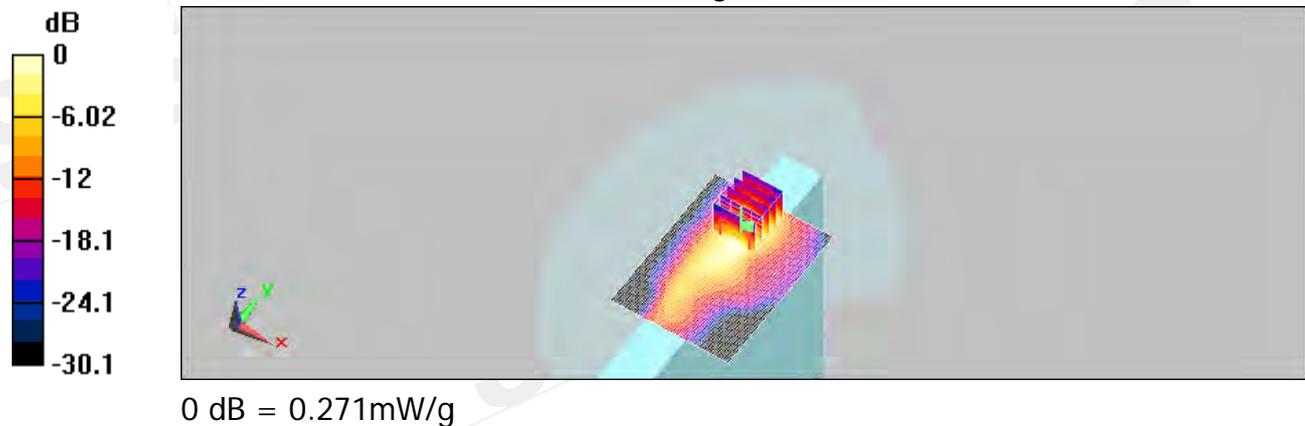
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.264 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 10.8 V/m; Power Drift = -0.160 dB
 Peak SAR (extrapolated) = 0.541 W/kg

SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.106 mW/g
 Maximum value of SAR (measured) = 0.271 mW/g



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Date/Time: 01/15/2010 14:52:23

Configuration 2_CH6_WLAN 802.11n(40M)_ Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

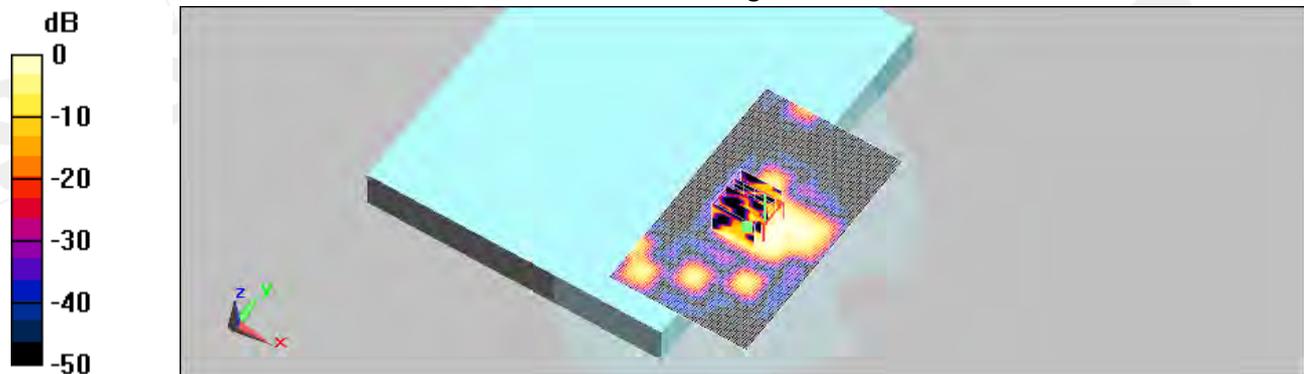
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.015 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.12 V/m; Power Drift = 0.06 dB
 Peak SAR (extrapolated) = 0.014 W/kg

SAR(1 g) = 0.00617 mW/g; SAR(10 g) = 0.00238 mW/g
 Maximum value of SAR (measured) = 0.00666 mW/g



0 dB = 0.00666mW/g

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Date/Time: 01/15/2010 15:20:05

Configuration 3_CH6_WLAN 802.11n(40M)_ Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

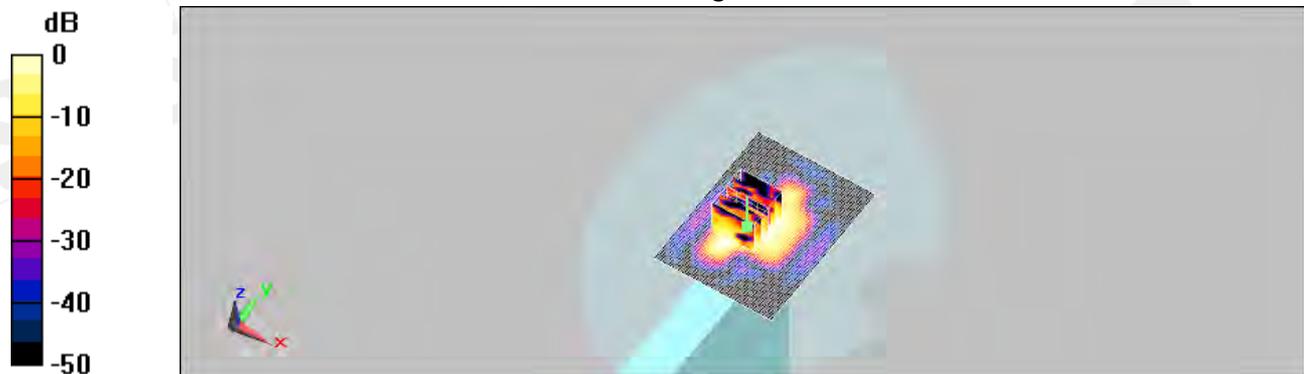
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.030 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.33 V/m; Power Drift = -0.095 dB
 Peak SAR (extrapolated) = 0.026 W/kg

SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00543 mW/g
 Maximum value of SAR (measured) = 0.018 mW/g



0 dB = 0.018mW/g

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Date/Time: 01/15/2010 15:49:35

Configuration 4_CH6_WLAN 802.11n(40M)_ Aux

DUT: HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

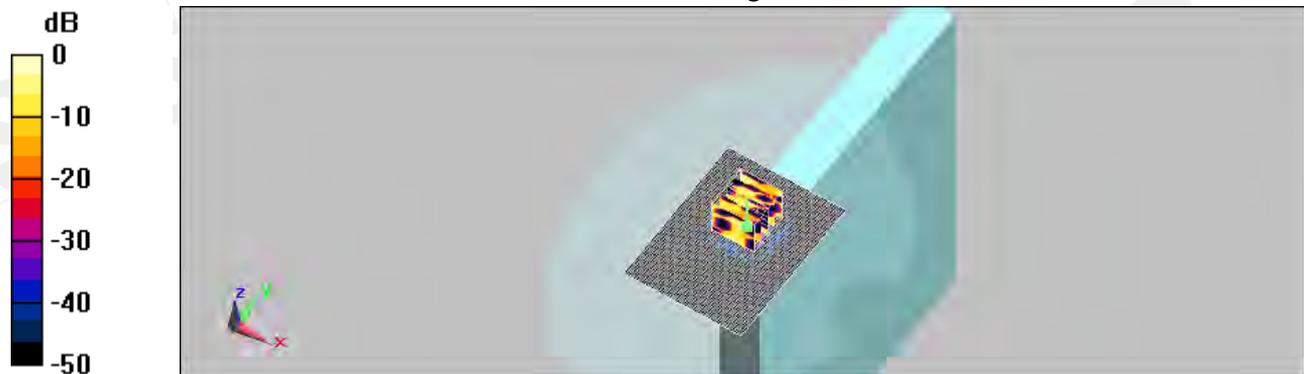
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00359 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.963 V/m; Power Drift = -0.099 dB
 Peak SAR (extrapolated) = 0.011 W/kg

SAR(1 g) = 0.00226 mW/g; SAR(10 g) = 0.000437 mW/g
 Maximum value of SAR (measured) = 0.00302 mW/g



0 dB = 0.00302mW/g

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Date/Time: 01/15/2010 16:16:06

Configuration 6_CH 6_WLAN 802.11n(40M)_ Aux

DUT:HSTNN-W75C;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

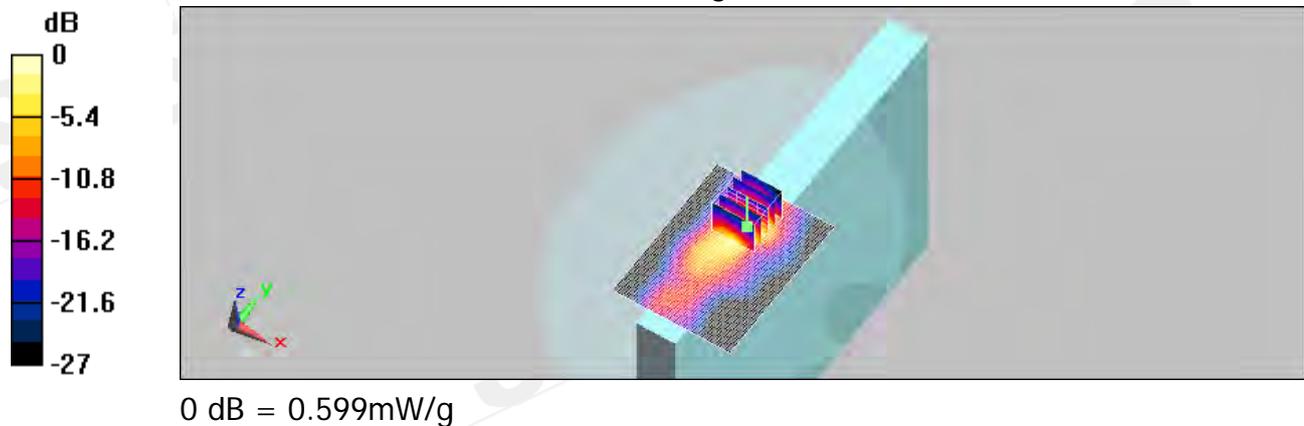
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.668 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 12.1 V/m; Power Drift = -0.194 dB
 Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.542 mW/g; SAR(10 g) = 0.219 mW/g
 Maximum value of SAR (measured) = 0.599 mW/g



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Date/Time: 01/15/2010 19:47:33

Configuration 2_CH 44_WLAN 802.11n(20M)5.2G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.00634 mW/g

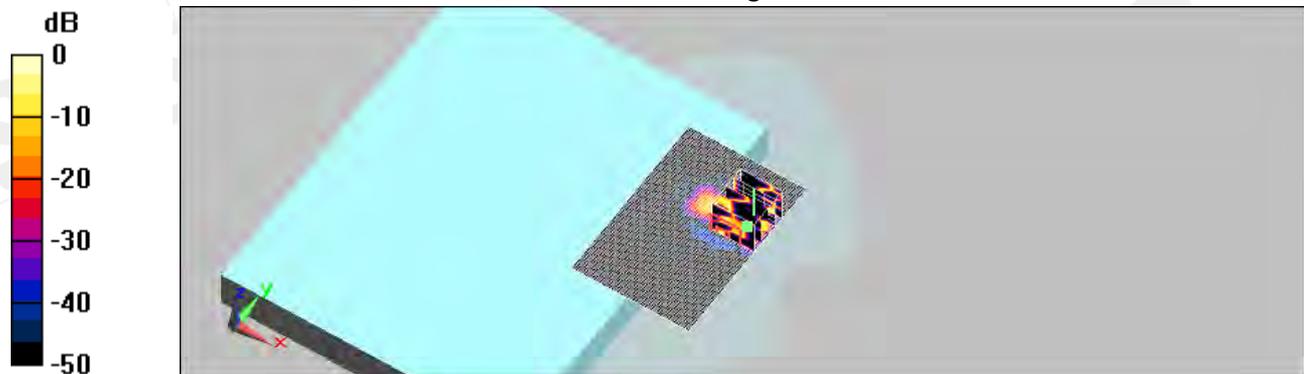
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.812 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.00533 W/kg

SAR(1 g) = 0.000336 mW/g; SAR(10 g) = 0.000102 mW/g

Maximum value of SAR (measured) = 0.00563 mW/g



0 dB = 0.00563mW/g

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Date/Time: 01/15/2010 20:15:40

Configuration 3_CH44_WLAN 802.11n(20M)5.2G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.00952 mW/g

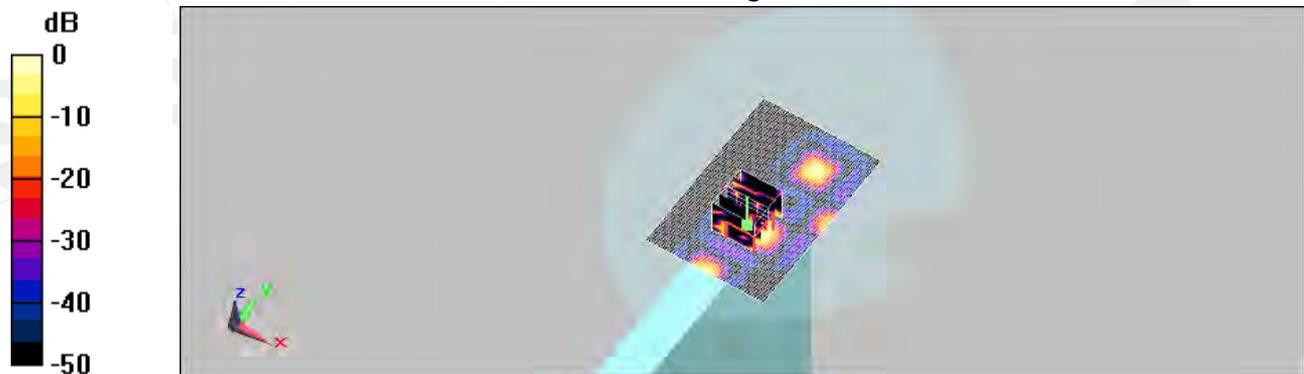
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.530 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.00758 W/kg

SAR(1 g) = 0.000477 mW/g; SAR(10 g) = 0.000102 mW/g

Maximum value of SAR (measured) = 0.00796 mW/g



0 dB = 0.00796mW/g

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Date/Time: 01/15/2010 20:41:35

Configuration 4_CH44_WLAN 802.11n(20M)5.2G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.085 mW/g

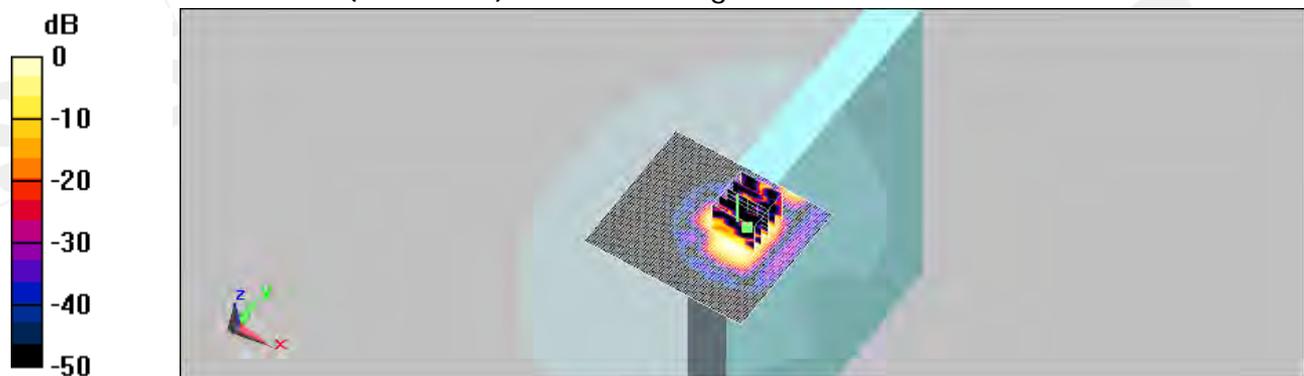
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.55 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 0.229 W/kg

SAR(1 g) = 0.049 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.038 mW/g



0 dB = 0.038mW/g

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Date/Time: 01/15/2010 21:08:08

Configuration 6_CH 44_WLAN 802.11n(20M)5.2G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.452 mW/g

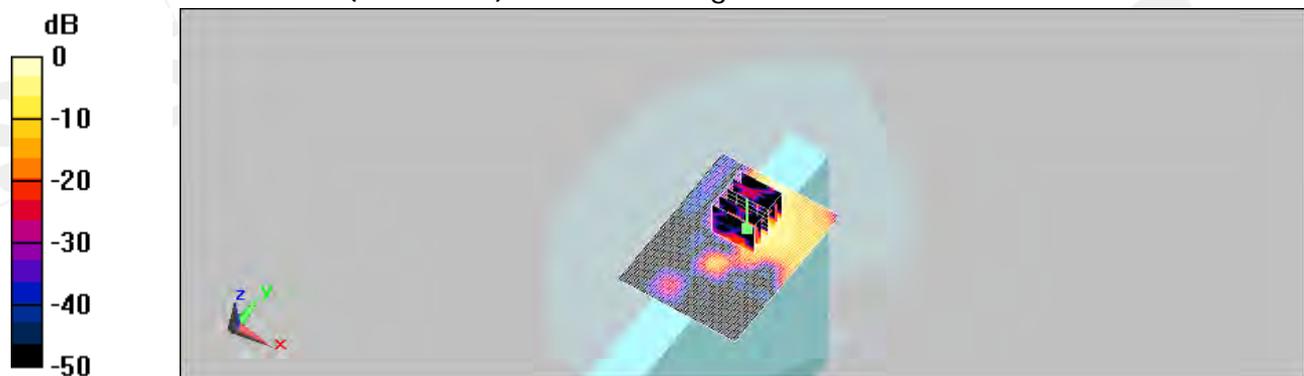
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.66 V/m; Power Drift = 0.131 dB

Peak SAR (extrapolated) = 0.830 W/kg

SAR(1 g) = 0.289 mW/g; SAR(10 g) = 0.086 mW/g

Maximum value of SAR (measured) = 0.430 mW/g



0 dB = 0.430mW/g

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Date/Time: 01/15/2010 21:35:10

Configuration 2_CH44_WLAN 802.11n(20M)5.2G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.013 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.501 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.023 W/kg

SAR(1 g) = 0.00498 mW/g; SAR(10 g) = 0.00124 mW/g

Maximum value of SAR (measured) = 0.00825 mW/g



0 dB = 0.00825mW/g

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Date/Time: 01/15/2010 22:01:59

Configuration 3_CH44_WLAN 802.11n(20M)5.2G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.048 mW/g

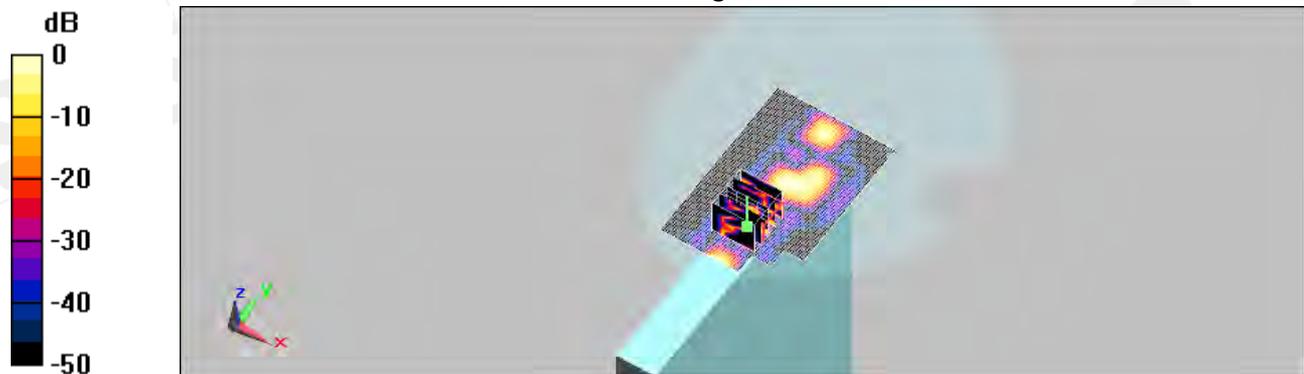
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.37 V/m; Power Drift = 0.155 dB

Peak SAR (extrapolated) = 0.162 W/kg

SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.00978 mW/g

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



0 dB = 0.042mW/g

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Date/Time: 01/15/2010 22:29:38

Configuration 4_CH44_WLAN 802.11n(20M)5.2G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.016 mW/g

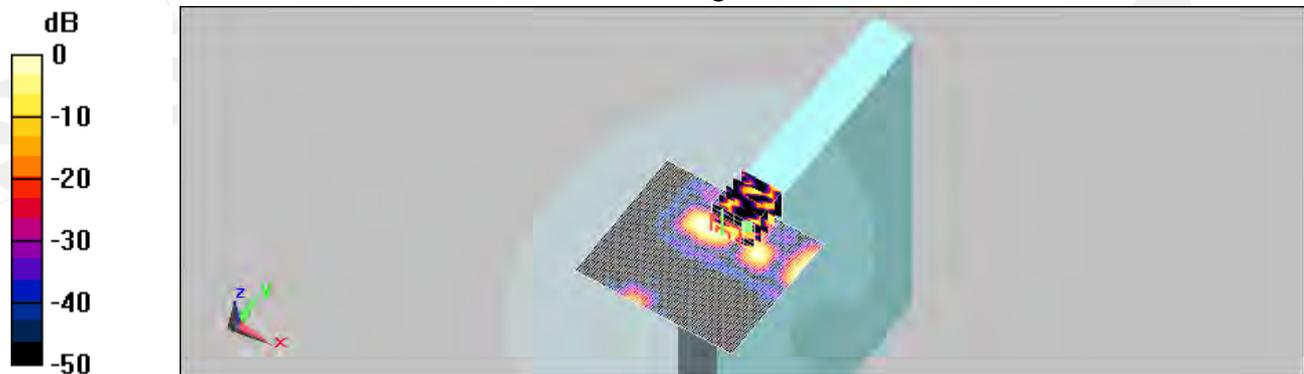
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.620 V/m; Power Drift = 0.0193 dB

Peak SAR (extrapolated) = 0.061 W/kg

SAR(1 g) = 0.00908 mW/g; SAR(10 g) = 0.00144 mW/g

Maximum value of SAR (measured) = 0.012 mW/g



0 dB = 0.012mW/g

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Date/Time: 01/15/2010 22:56:12

Configuration 6_CH44_WLAN 802.11n(20M)5.2G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.538 mW/g

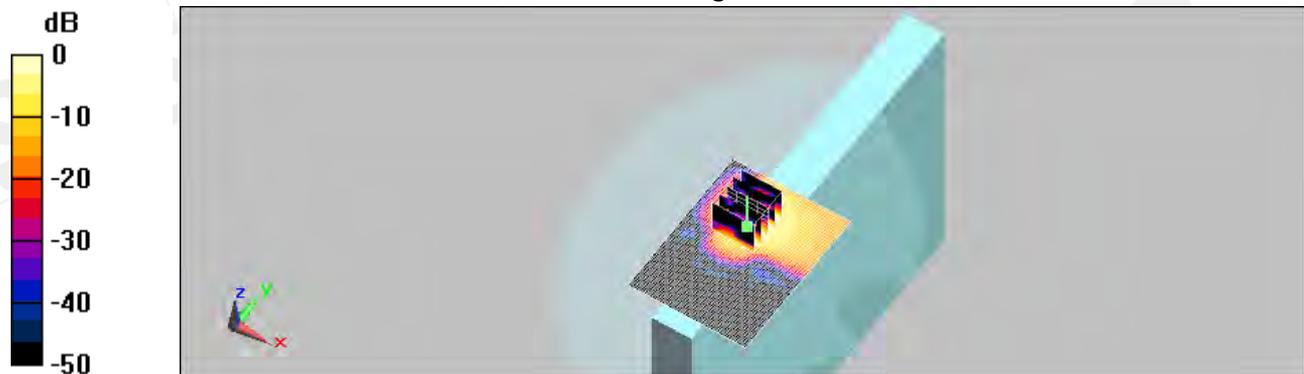
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.56 V/m; Power Drift = 0.152 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.408 mW/g; SAR(10 g) = 0.128 mW/g

Maximum value of SAR (measured) = 0.648 mW/g



0 dB = 0.648mW/g

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Date/Time: 01/16/2010 06:36:44

Configuration 2_CH 56_WLAN 802.11n(20M)5.3G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.00119 mW/g

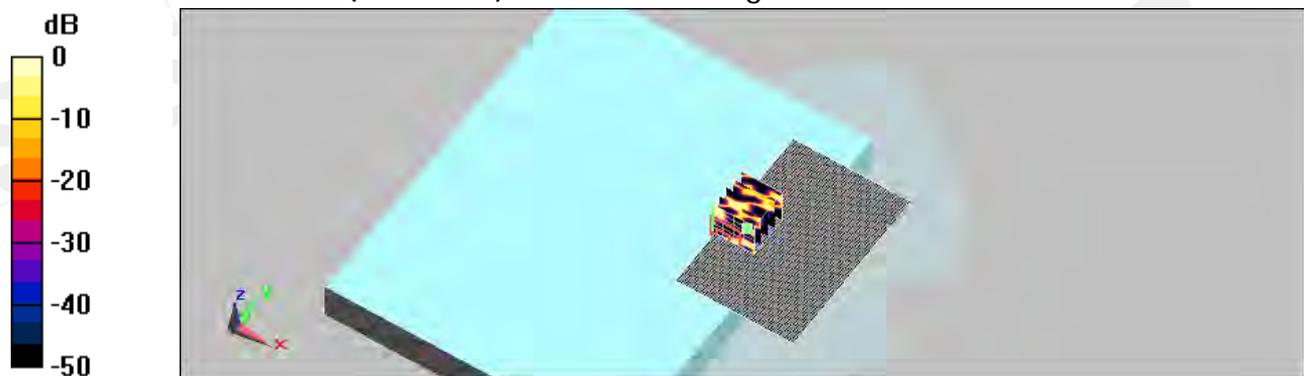
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.471 V/m; Power Drift = -0.22dB

Peak SAR (extrapolated) = 0.00332 W/kg

SAR(1 g) = 0.000209 mW/g; SAR(10 g) = 0.000093 mW/g

Maximum value of SAR (measured) = 0.00563 mW/g



0 dB = 0.00563mW/g

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Date/Time: 01/16/2010 07:03:15

Configuration 3_CH56_WLAN 802.11n(20M)5.3G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.00715 mW/g

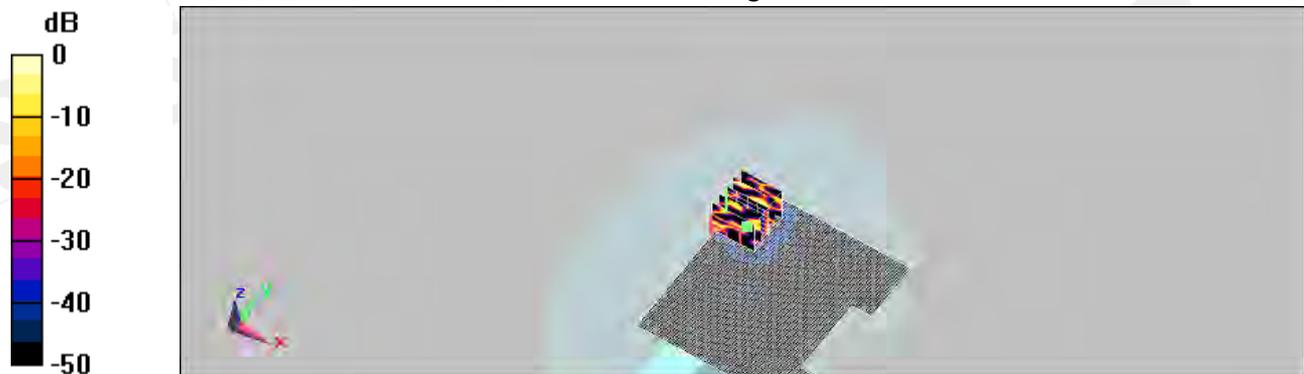
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.543 V/m; Power Drift = 0.123 dB

Peak SAR (extrapolated) = 0.00733 W/kg

SAR(1 g) = 0.000153 mW/g; SAR(10 g) = 0.000089 mW/g

Maximum value of SAR (measured) = 0.00919 mW/g



0 dB = 0.00919mW/g

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Date/Time: 01/16/2010 07:29:43

Configuration 4_CH56_WLAN 802.11n(20M)5.3G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.046 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.52 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 0.163 W/kg

SAR(1 g) = 0.035 mW/g; SAR(10 g) = 0.00998 mW/g

Maximum value of SAR (measured) = 0.033 mW/g



0 dB = 0.033mW/g

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Date/Time: 01/16/2010 07:58:43

Configuration 6_CH 56_WLAN 802.11n(20M)5.3G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.403 mW/g

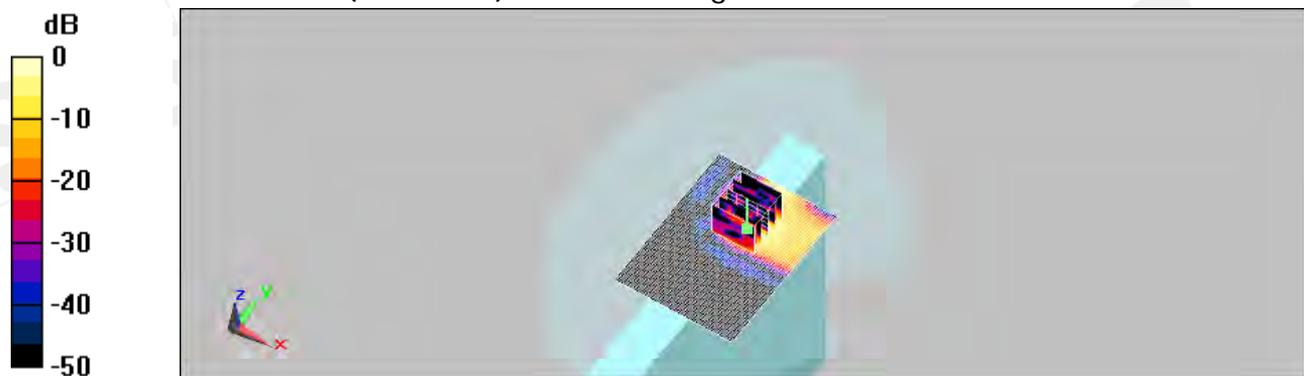
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.4 V/m; Power Drift = 0.126 dB

Peak SAR (extrapolated) = 0.740 W/kg

SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.358 mW/g



0 dB = 0.358mW/g

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Configuration 2_CH56_WLAN 802.11n(20M)5.3G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.00834 mW/g

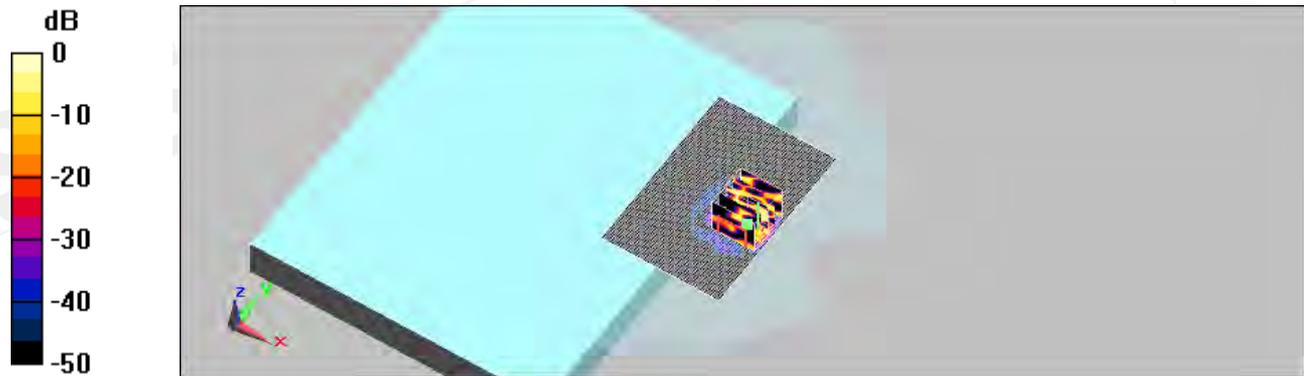
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.075 V/m; Power Drift = 0.24 dB

Peak SAR (extrapolated) = 0.030 W/kg

SAR(1 g) = 0.00443 mW/g; SAR(10 g) = 0.00099 mW/g

Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.011mW/g

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Date/Time: 01/16/2010 08:51:57

Configuration 3_CH56_WLAN 802.11n(20M)5.3G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.061 mW/g

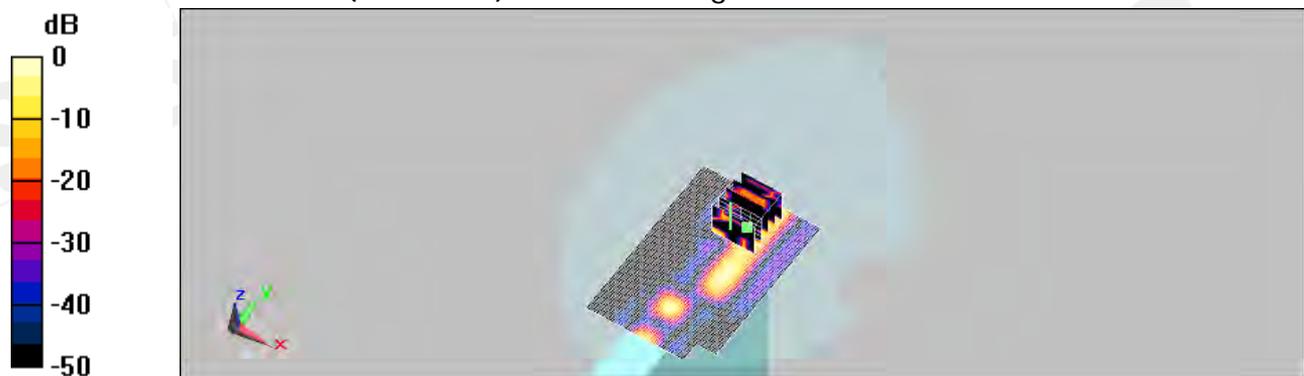
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.64 V/m; Power Drift = 0.126 dB

Peak SAR (extrapolated) = 0.215 W/kg

SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.014 mW/g

Maximum value of SAR (measured) = 0.052 mW/g



0 dB = 0.052mW/g

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Date/Time: 01/16/2010 09:19:58

Configuration 4_CH56_WLAN 802.11n(20M)5.3G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.047 mW/g

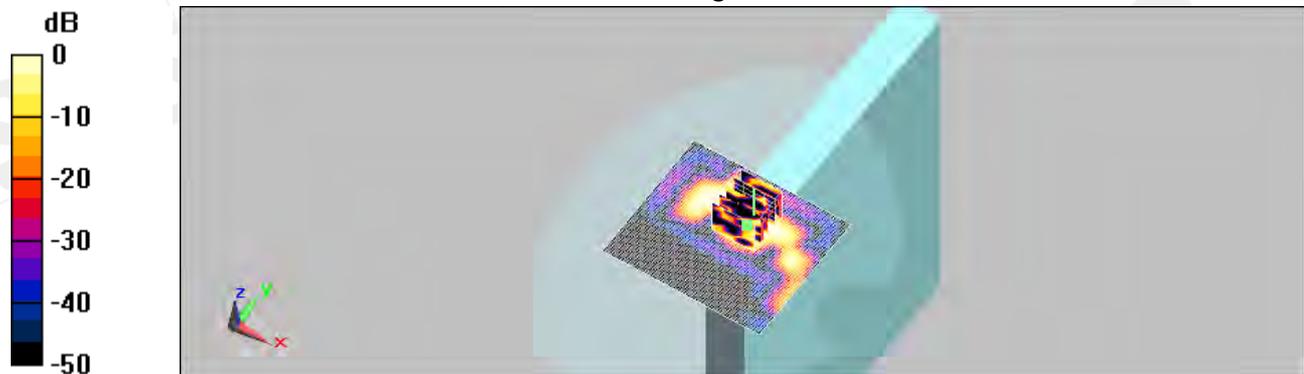
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.35 V/m; Power Drift = 0.179 dB

Peak SAR (extrapolated) = 0.050 W/kg

SAR(1 g) = 0.00902 mW/g; SAR(10 g) = 0.00141 mW/g

Maximum value of SAR (measured) = 0.016 mW/g



0 dB = 0.016mW/g

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Date/Time: 01/16/2010 09:46:41

Configuration 6_CH56_WLAN 802.11n(20M)5.3G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.549 mW/g

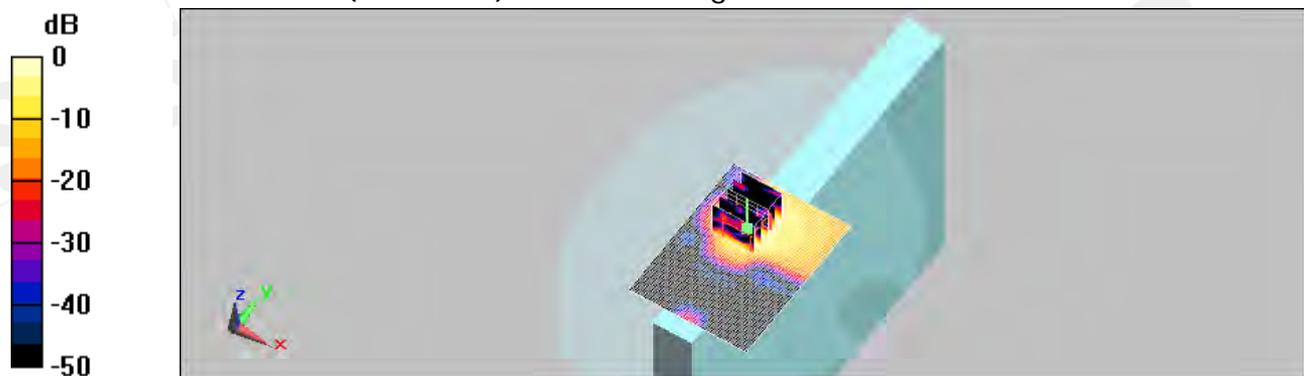
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.42 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 2.49 W/kg

SAR(1 g) = 0.463 mW/g; SAR(10 g) = 0.149 mW/g

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



0 dB = 0.615mW/g

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Date/Time:01/19/2010 01:39:50

Configuration 2_CH 120_WLAN 802.11n(20M)5.5G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.011 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.731 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.015 W/kg

SAR(1 g) = 0.00257 mW/g; SAR(10 g) = 0.000562 mW/g

Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.011mW/g

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Date/Time: 01/19/2010 02:07:31

Configuration 3_CH120_WLAN 802.11n(20M)5.5G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.011 mW/g

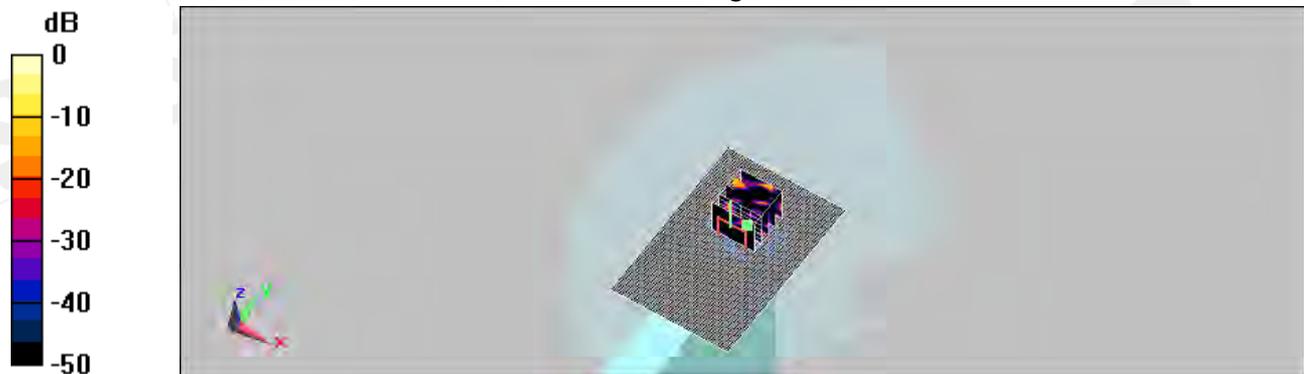
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.084 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.00403 W/kg

SAR(1 g) = 0.000103 mW/g; SAR(10 g) = 0.000065

Maximum value of SAR (measured) = 0.0066 mW/g



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Date/Time: 01/19/2010 02:34:13

Configuration 4_CH120_WLAN 802.11n(20M)5.5G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.00757 mW/g

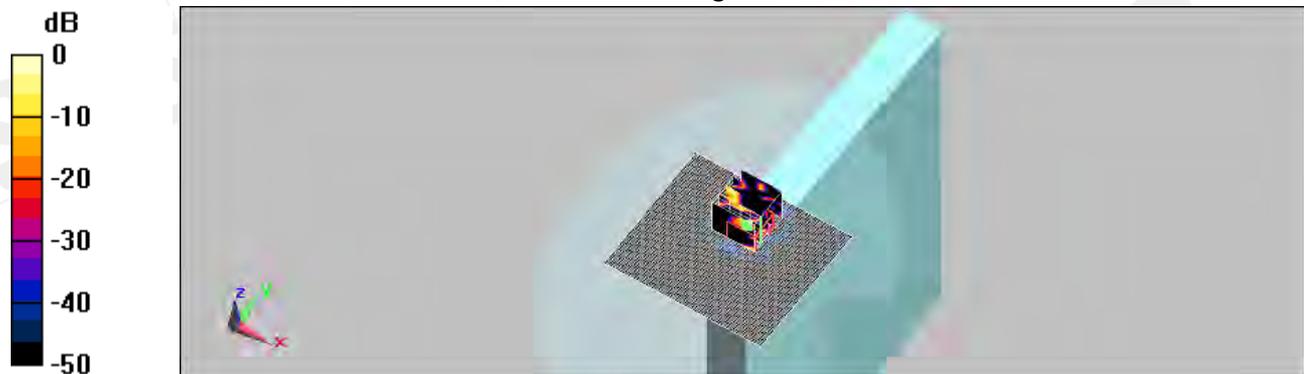
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.985 V/m; Power Drift = 0.167 dB

Peak SAR (extrapolated) = 0.056 W/kg

SAR(1 g) = 0.00589 mW/g; SAR(10 g) = 0.00132 mW/g

Maximum value of SAR (measured) = 0.015 mW/g



0 dB = 0.015mW/g

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Date/Time: 01/19/2010 03:02:45

Configuration 6_CH 100_WLAN 802.11n(20M)5.5G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.76 \text{ mho/m}$; $\epsilon_r = 47.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.582 mW/g

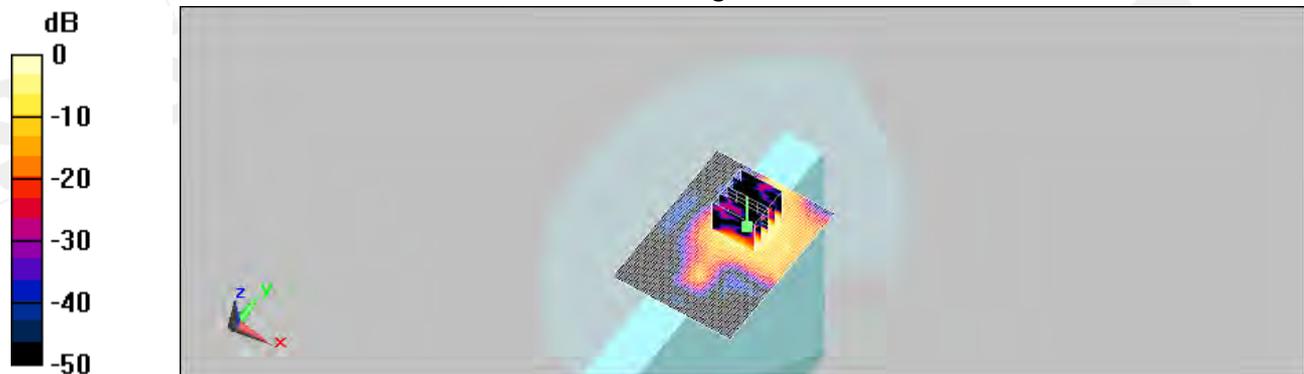
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.82 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 2.7 W/kg

SAR(1 g) = 0.506 mW/g; SAR(10 g) = 0.161 mW/g

Maximum value of SAR (measured) = 0.732 mW/g



0 dB = 0.732mW/g

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Date/Time: 01/19/2010 03:31:12

Configuration 6_CH 120_WLAN 802.11n(20M)5.5G_Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.560 mW/g

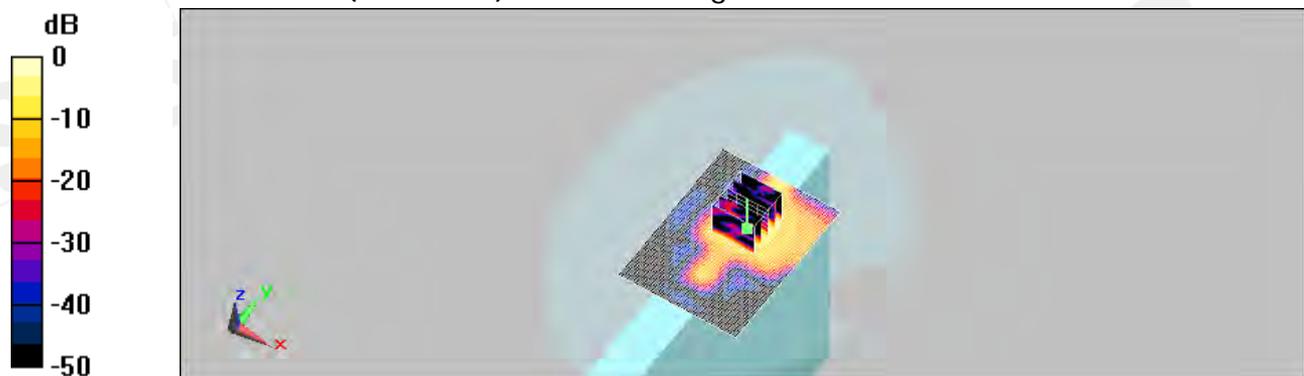
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.41 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.449 mW/g; SAR(10 g) = 0.130 mW/g

Maximum value of SAR (measured) = 0.646 mW/g



0 dB = 0.646mW/g

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Date/Time: 01/19/2010 03:59:35

Configuration 6_CH 140_WLAN 802.11n(20M)5.5G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5700 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 5.95 \text{ mho/m}$; $\epsilon_r = 48.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

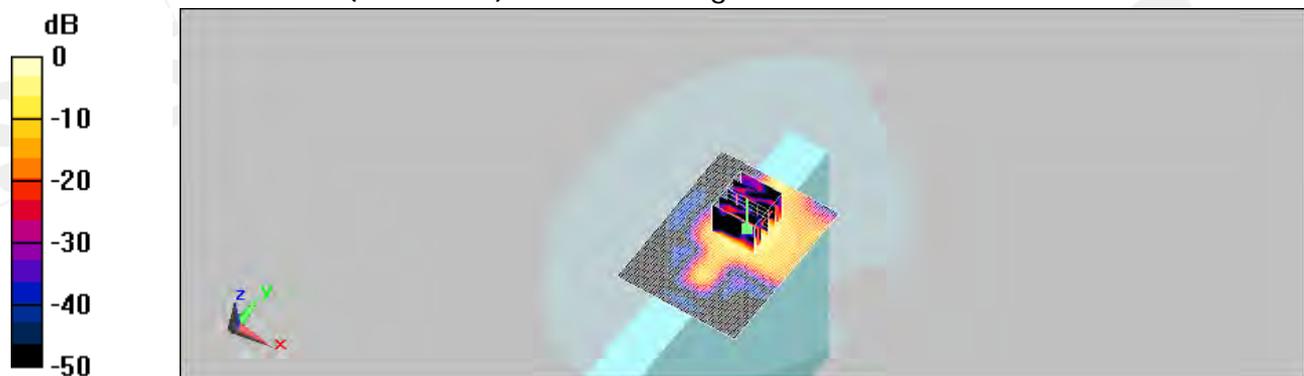
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.63 V/m; Power Drift = -0.193 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.406 mW/g; SAR(10 g) = 0.116 mW/g

Maximum value of SAR (measured) = 0.601 mW/g



0 dB = 0.601mW/g

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Date/Time: 01/19/2010 04:25:41

Configuration 2_CH120_WLAN 802.11n(20M)5.5G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.0189 mW/g

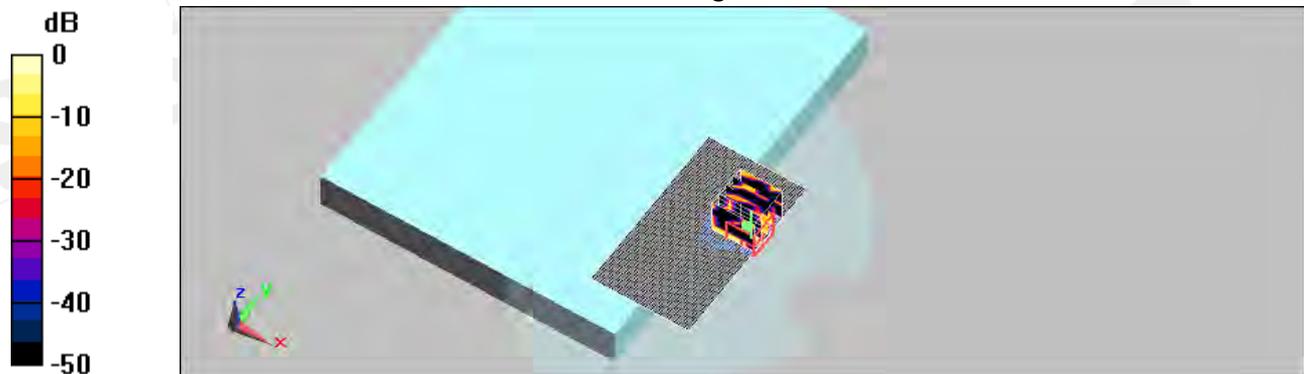
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.347 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.086 W/kg

SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00299 mW/g

Maximum value of SAR (measured) = 0.016 mW/g



0 dB = 0.016mW/g

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Date/Time: 01/19/2010 04:52:23

Configuration 3_CH120_WLAN 802.11n(20M)5.5G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.030 mW/g

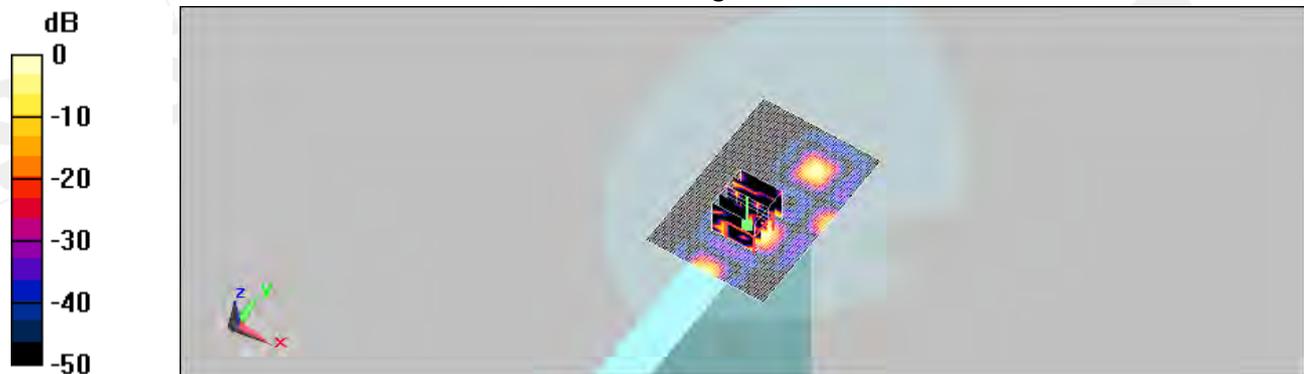
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.09 V/m; Power Drift = 0.193 dB

Peak SAR (extrapolated) = 0.098 W/kg

SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.00493 mW/g

Maximum value of SAR (measured) = 0.028 mW/g



0 dB = 0.028mW/g

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Date/Time: 01/19/2010 05:21:05

Configuration 4_CH120_WLAN 802.11n(20M)5.5G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.00349 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.386 V/m; Power Drift = 0.045 dB

Peak SAR (extrapolated) = 0.020 W/kg

SAR(1 g) = 0.000243 mW/g; SAR(10 g) = 0.000054 mW/g

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



0 dB = 0.026mW/g

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Date/Time: 01/19/2010 05:47:58

Configuration 6_CH100_WLAN 802.11n(20M)5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5500 MHz; Duty Cycle: 1:1
Medium: Body 5000 Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.76 \text{ mho/m}$; $\epsilon_r = 47.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

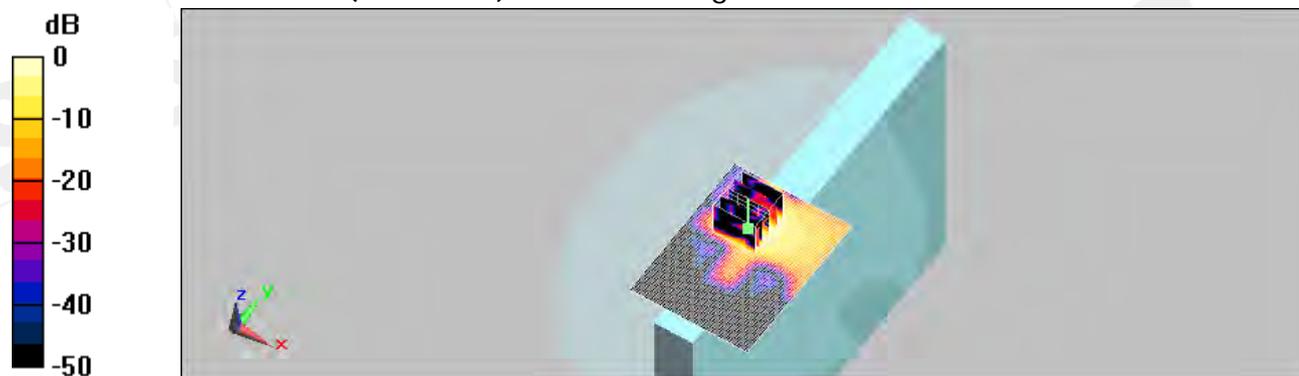
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.573 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.57 V/m; Power Drift = 0.130 dB
Peak SAR (extrapolated) = 1.1 W/kg

SAR(1 g) = 0.374 mW/g; SAR(10 g) = 0.127 mW/g
Maximum value of SAR (measured) = 0.501 mW/g



0 dB = 0.501mW/g

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Date/Time: 01/19/2010 06:15:41

Configuration 6_CH120_WLAN 802.11n(20M)5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.478 mW/g

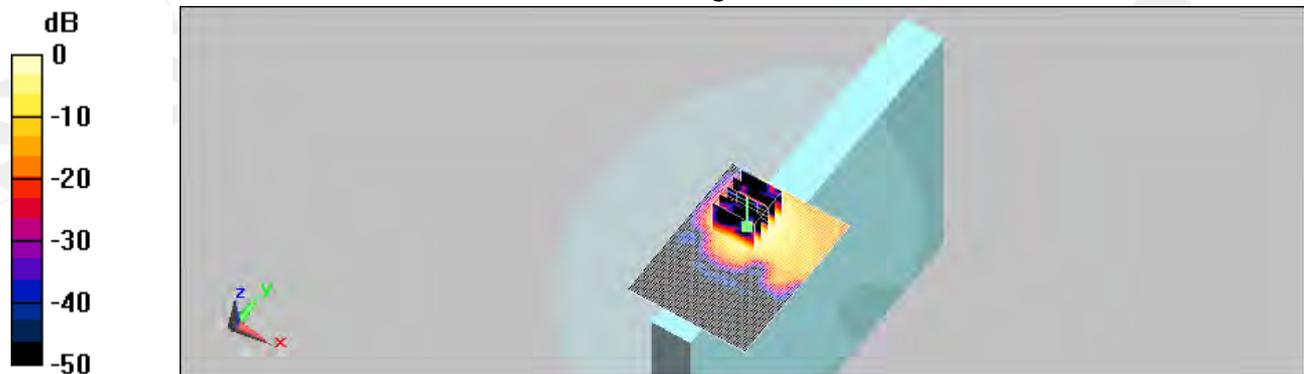
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.12 V/m; Power Drift = -0.157 dB

Peak SAR (extrapolated) = 3.57 W/kg

SAR(1 g) = 0.449 mW/g; SAR(10 g) = 0.159 mW/g

Maximum value of SAR (measured) = 0.588 mW/g



0 dB = 0.588mW/g

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Date/Time: 01/19/2010 06:42:23

Configuration 6_CH140_WLAN 802.11n(20M)5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5700 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 5.95 \text{ mho/m}$; $\epsilon_r = 48.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.356 mW/g

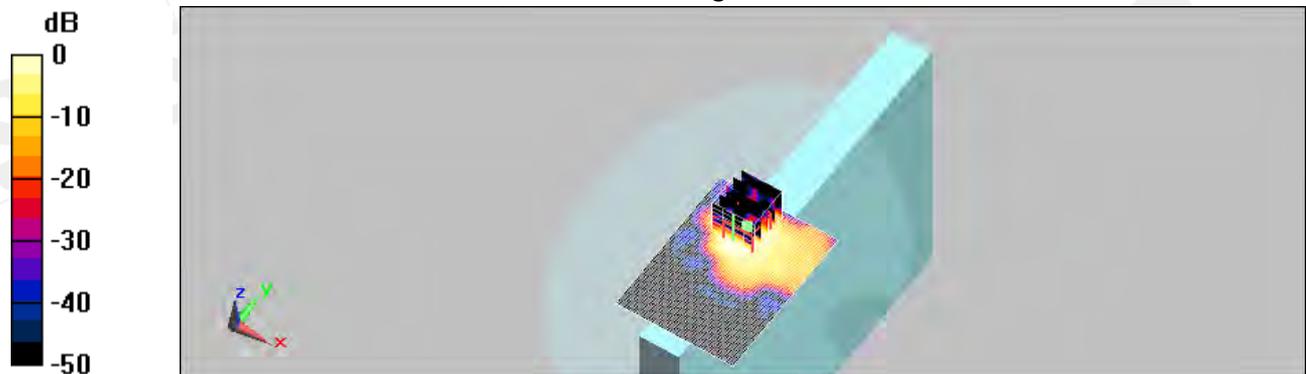
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.44 V/m; Power Drift = 0.094 dB

Peak SAR (extrapolated) = 0.843 W/kg

SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.096 mW/g

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



0 dB = 0.319mW/g

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Date/Time: 01/19/2010 21:42:03

Configuration 2_CH 157_WLAN 802.11n(20M)5.8G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

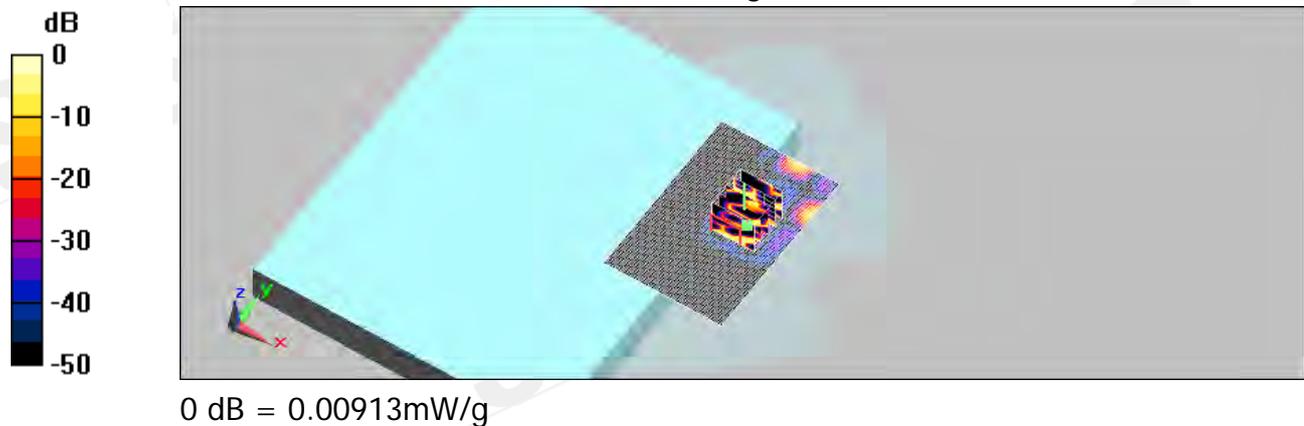
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00896 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.912 V/m; Power Drift = -0.157 dB
 Peak SAR (extrapolated) = 0.00524 W/kg

SAR(1 g) = 0.00033 mW/g; SAR(10 g) = 0.000139 mW/g
 Maximum value of SAR (measured) = 0.00913 mW/g



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Date/Time: 01/19/2010 22:10:12

Configuration 3_CH157_WLAN 802.11n(20M)5.8G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

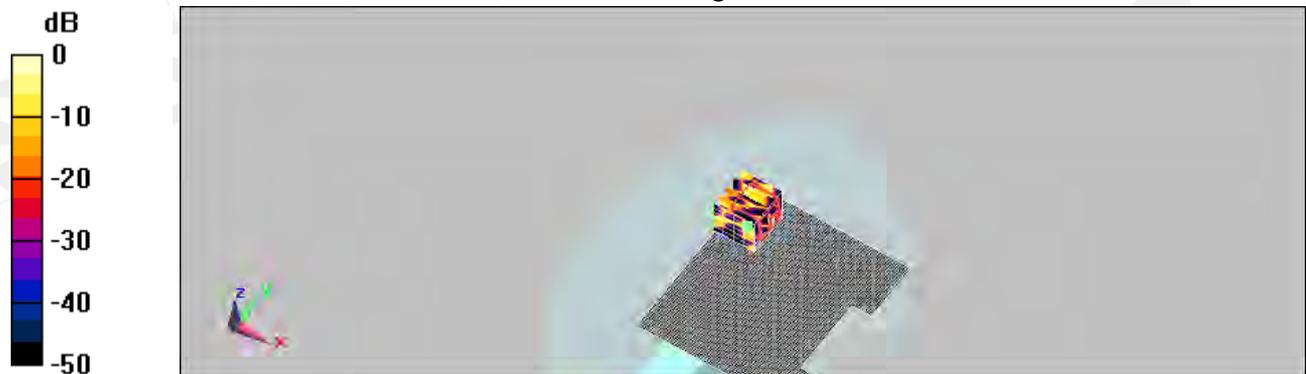
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00372 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.153 V/m; Power Drift = -0.093 dB
 Peak SAR (extrapolated) = 0.012 W/kg

SAR(1 g) = 0.000102 mW/g; SAR(10 g) = 0.000082 mW/g
 Maximum value of SAR (measured) = 0.012 mW/g



0 dB = 0.012mW/g

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Date/Time: 01/19/2010 22:36:41

Configuration 4_CH157_WLAN 802.11n(20M)5.8G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

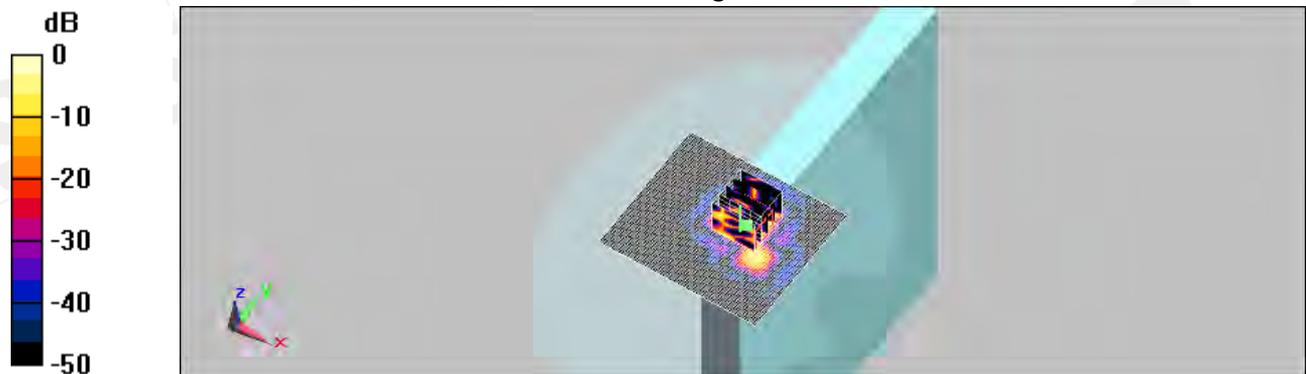
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.043 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.09 V/m; Power Drift = 0.071 dB
 Peak SAR (extrapolated) = 0.135 W/kg

SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.00696 mW/g
 Maximum value of SAR (measured) = 0.026 mW/g



0 dB = 0.026mW/g

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Date/Time: 01/19/2010 23:05:37

Configuration 6_CH 157_WLAN 802.11n(20M)5.8G_Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

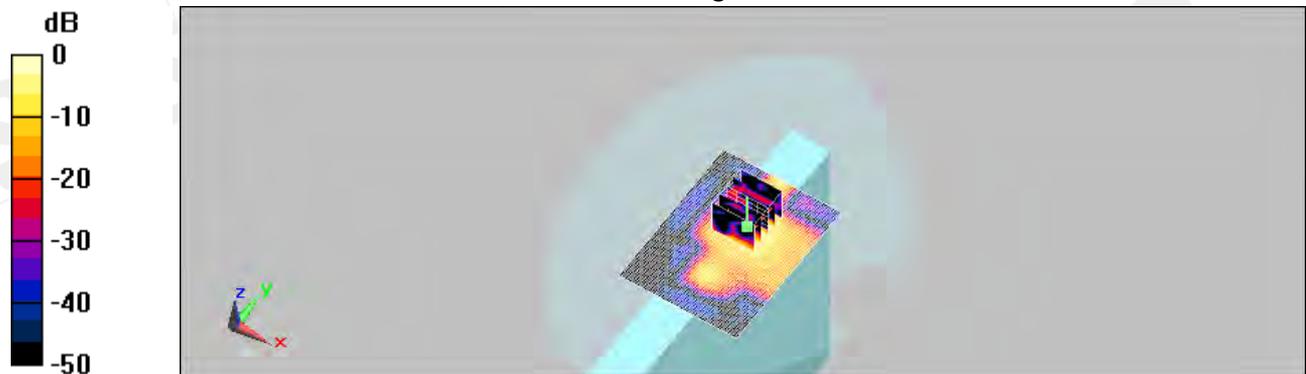
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.741 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 6.89 V/m; Power Drift = 0.00928 dB
 Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.482 mW/g; SAR(10 g) = 0.140 mW/g
 Maximum value of SAR (measured) = 0.695 mW/g



0 dB = 0.695mW/g

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Date/Time: 01/19/2010 23:33:49

Configuration 2_CH157_WLAN 802.11n(20M)5.8G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

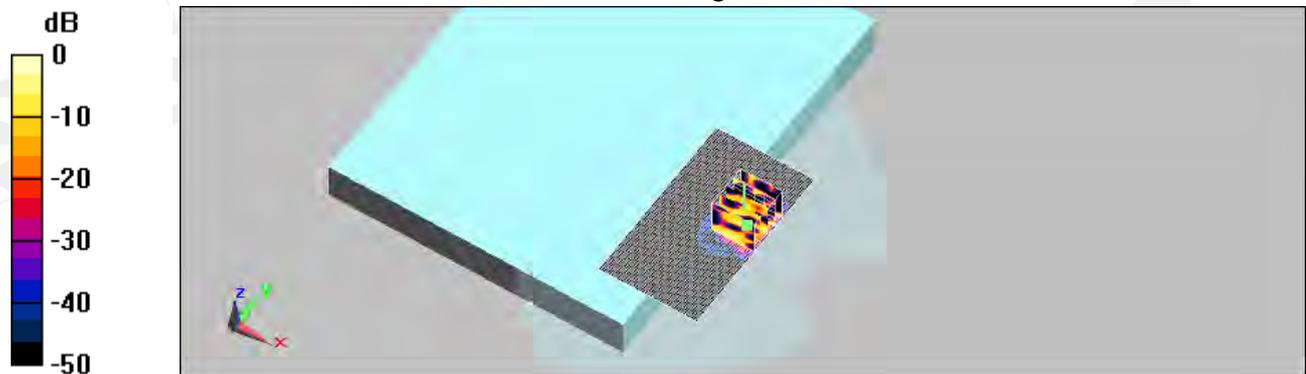
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.019 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.18 V/m; Power Drift = -0.13 dB
 Peak SAR (extrapolated) = 0.097 W/kg

SAR(1 g) = 0.021 mW/g; SAR(10 g) = 0.00604 mW/g
 Maximum value of SAR (measured) = 0.018 mW/g



0 dB = 0.018mW/g

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Date/Time:01/22/2010 01:42:58

Configuration 3_CH157_WLAN 802.11n(20M)5.8G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.013 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.946 V/m; Power Drift = 0.064 dB
 Peak SAR (extrapolated) = 0.045 W/kg

SAR(1 g) = 0.00898 mW/g; SAR(10 g) = 0.00208 mW/g
 Maximum value of SAR (measured) = 0.027 mW/g



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Date/Time: 01/22/2010 02:10:27

Configuration 4_CH157_WLAN 802.11n(20M)5.8G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

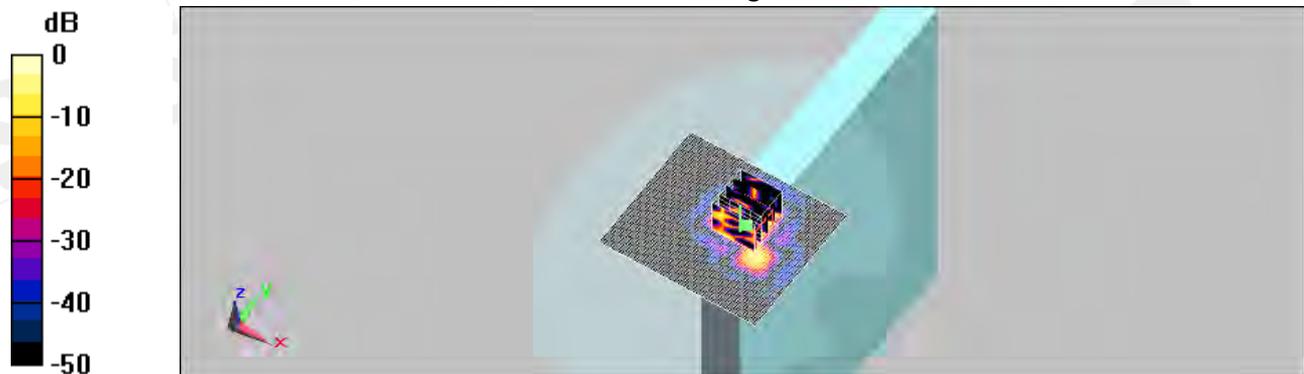
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00148 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.750 V/m; Power Drift = 0.169 dB
 Peak SAR (extrapolated) = 0.00167 W/kg

SAR(1 g) = 0.000101 mW/g; SAR(10 g) = 0.000028 mW/g
 Maximum value of SAR (measured) = 0.00532 mW/g



0 dB = 0.00532mW/g

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Date/Time: 01/22/2010 02:36:39

Configuration 6_CH157_WLAN 802.11n(20M)5.8G_ Aux

DUT:HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz;Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

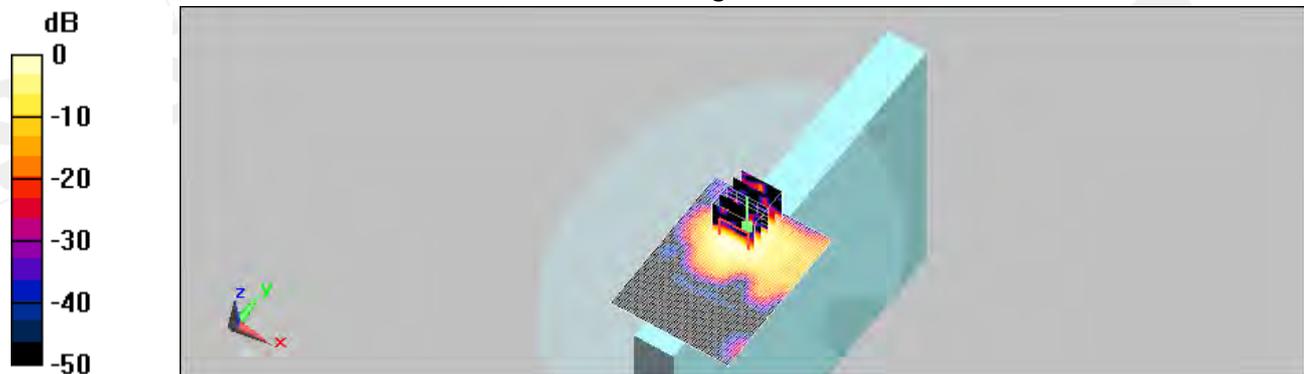
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.555 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 6.3 V/m; Power Drift = 0.108 dB
 Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.408 mW/g; SAR(10 g) = 0.142 mW/g
 Maximum value of SAR (measured) = 0.535 mW/g



0 dB = 0.535mW/g

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Date/Time: 01/15/2010 23:23:57

Configuration 2_CH 46_WLAN 802.11n(40M)5.2G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5230 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5230 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

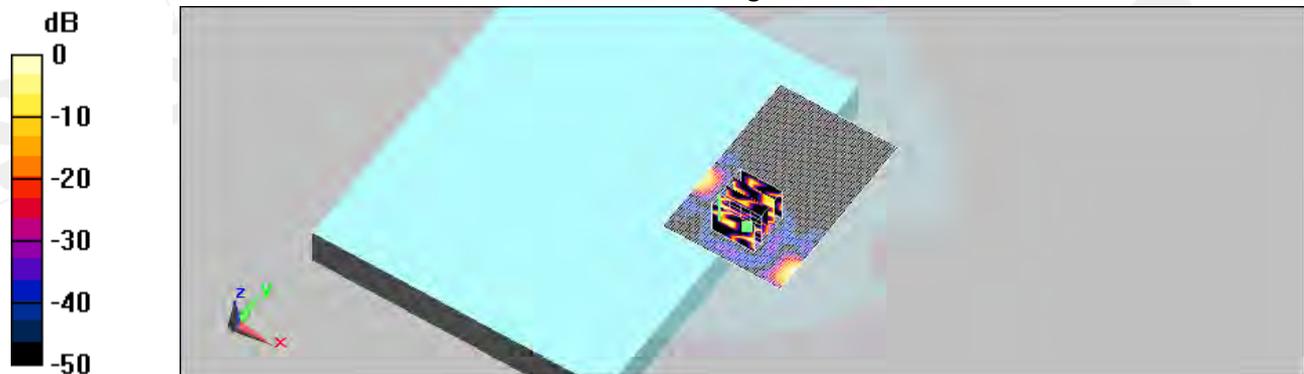
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00629 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.834 V/m; Power Drift = -0.13 dB
 Peak SAR (extrapolated) = 0.00313 W/kg

SAR(1 g) = 0.000618 mW/g; SAR(10 g) = 0.000215 mW/g
 Maximum value of SAR (measured) = 0.00485 mW/g



0 dB = 0.00485mW/g

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Date/Time: 01/15/2010 23:50:32

Configuration 3_CH46_WLAN 802.11n(40M)5.2G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5230 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5230 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

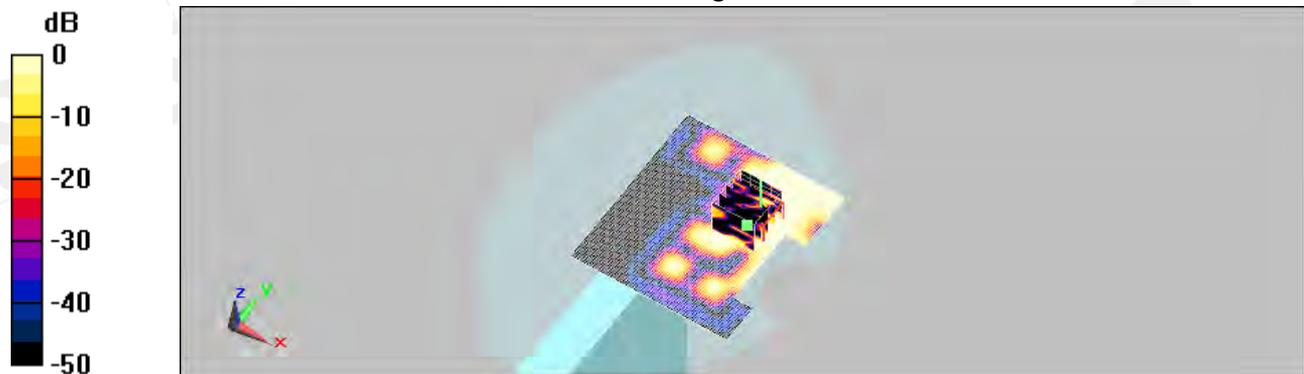
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.036 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.954 V/m; Power Drift = -0.035 dB
 Peak SAR (extrapolated) = 0.091 W/kg

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.0065 mW/g
 Maximum value of SAR (measured) = 0.016 mW/g



0 dB = 0.016mW/g

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Date/Time: 01/16/2010 00:16:47

Configuration 4_CH46_WLAN 802.11n(40M)5.2G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5230 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5230 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

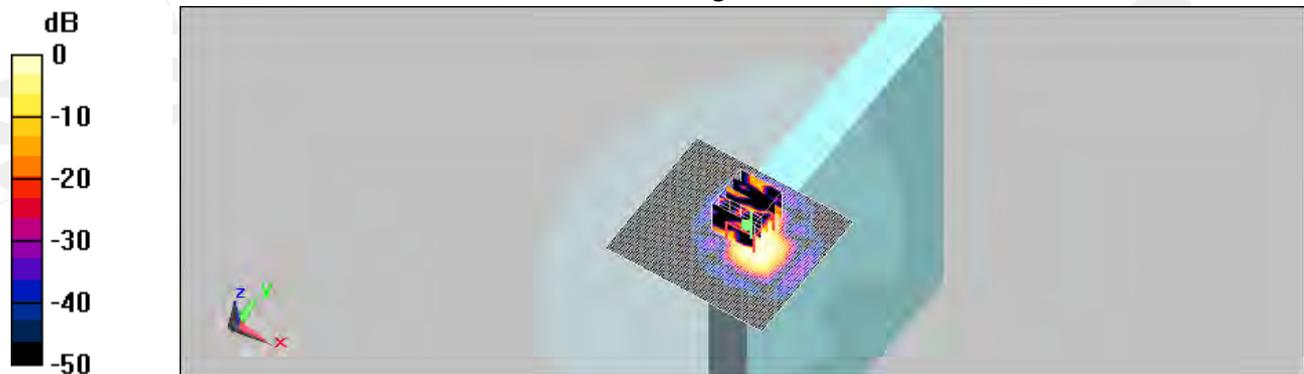
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.099 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.58 V/m; Power Drift = 0.069 dB
 Peak SAR (extrapolated) = 0.215 W/kg

SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.017 mW/g
 Maximum value of SAR (measured) = 0.038 mW/g



0 dB = 0.038mW/g

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Date/Time: 01/16/2010 00:42:02

Configuration 6_CH 46_WLAN 802.11n(40M)5.2G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5230 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5230 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

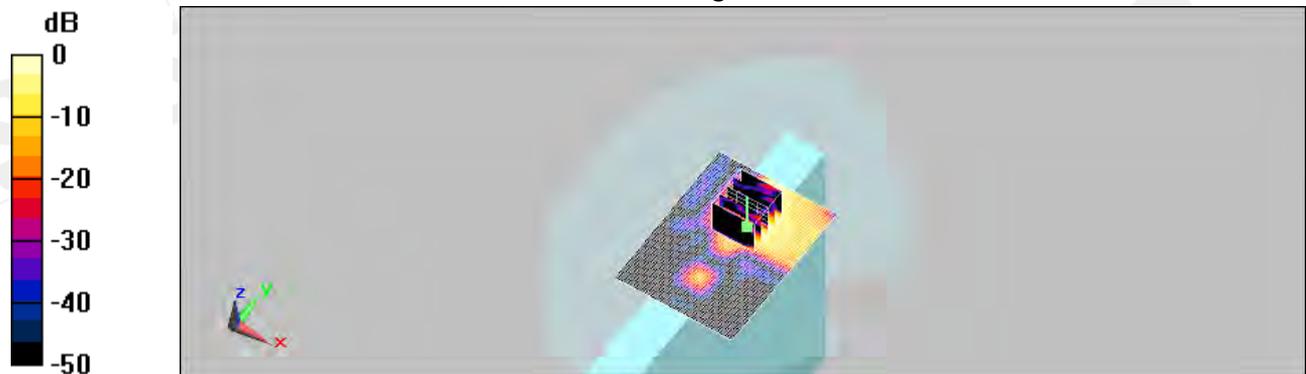
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.391 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 5.07 V/m; Power Drift = -0.185 dB
 Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.099 mW/g
 Maximum value of SAR (measured) = 0.389 mW/g



0 dB = 0.389mW/g

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Date/Time: 01/16/2010 01:10:07

Configuration 2_CH46_WLAN 802.11n(40M)5.2G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5230 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5230 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

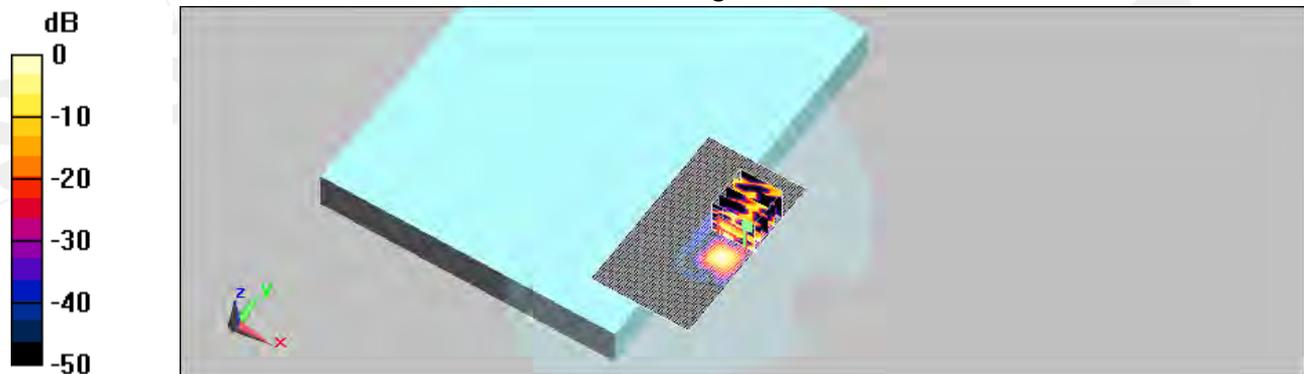
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00802 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.215 V/m; Power Drift = 0.13 dB
 Peak SAR (extrapolated) = 0.050 W/kg

SAR(1 g) = 0.00601 mW/g; SAR(10 g) = 0.00155 mW/g
 Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.011mW/g

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Date/Time: 01/16/2010 01:37:35

Configuration 3_CH46_WLAN 802.11n(40M)5.2G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5230 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5230 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

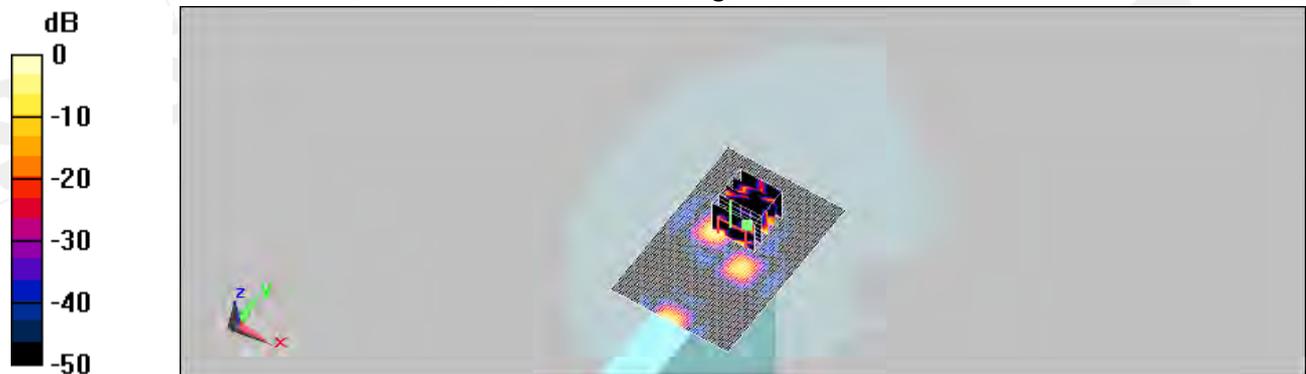
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.075 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.71 V/m; Power Drift = 0.190 dB
 Peak SAR (extrapolated) = 0.304 W/kg

SAR(1 g) = 0.065 mW/g; SAR(10 g) = 0.020 mW/g
 Maximum value of SAR (measured) = 0.070 mW/g



0 dB = 0.070mW/g

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Date/Time: 01/16/2010 02:05:08

Configuration 4_CH46_WLAN 802.11n(40M)5.2G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5230 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5230 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

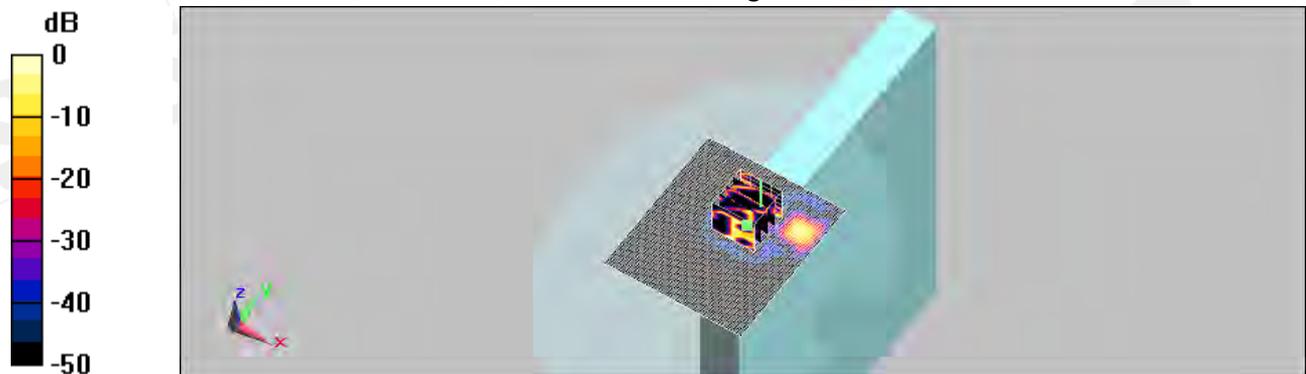
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00621 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.15 V/m; Power Drift = -0.13 dB
 Peak SAR (extrapolated) = 0.015 W/kg

SAR(1 g) = 0.00093 mW/g; SAR(10 g) = 0.000123 mW/g
 Maximum value of SAR (measured) = 0.00787 mW/g



0 dB = 0.00787mW/g

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Date/Time: 01/16/2010 02:32:06

Configuration 6_CH46_WLAN 802.11n(40M)5.2G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5230 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5230 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

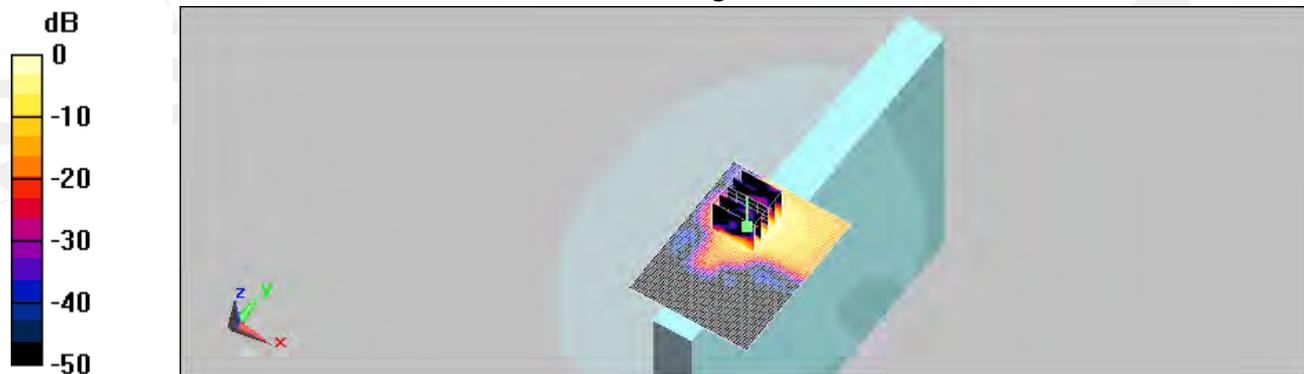
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.410 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 9.23 V/m; Power Drift = -0.00362 dB
 Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.406 mW/g; SAR(10 g) = 0.130 mW/g
 Maximum value of SAR (measured) = 0.590 mW/g



0 dB = 0.590mW/g

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Date/Time: 01/16/2010 10:13:35

Configuration 2_CH 62_WLAN 802.11n(40M)5.3G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5310 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5310 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$;
 $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

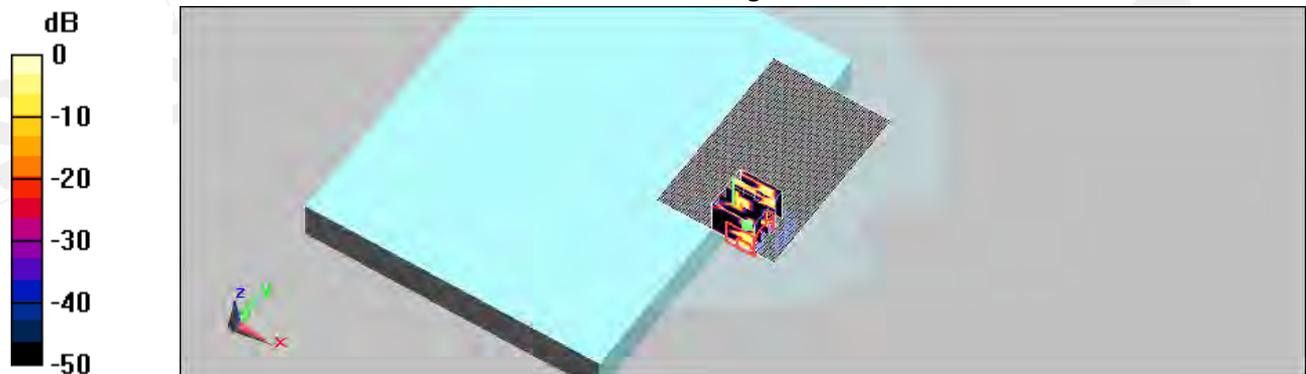
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00238 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.862 V/m; Power Drift = -0.19 dB
 Peak SAR (extrapolated) = 0.00276 W/kg

SAR(1 g) = 0.000174 mW/g; SAR(10 g) = 0.000098 mW/g
 Maximum value of SAR (measured) = 0.00575 mW/g



0 dB = 0.00575mW/g

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Date/Time: 01/16/2010 10:41:28

Configuration 3_CH62_WLAN 802.11n(40M)5.3G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5310 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5310 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$;
 $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

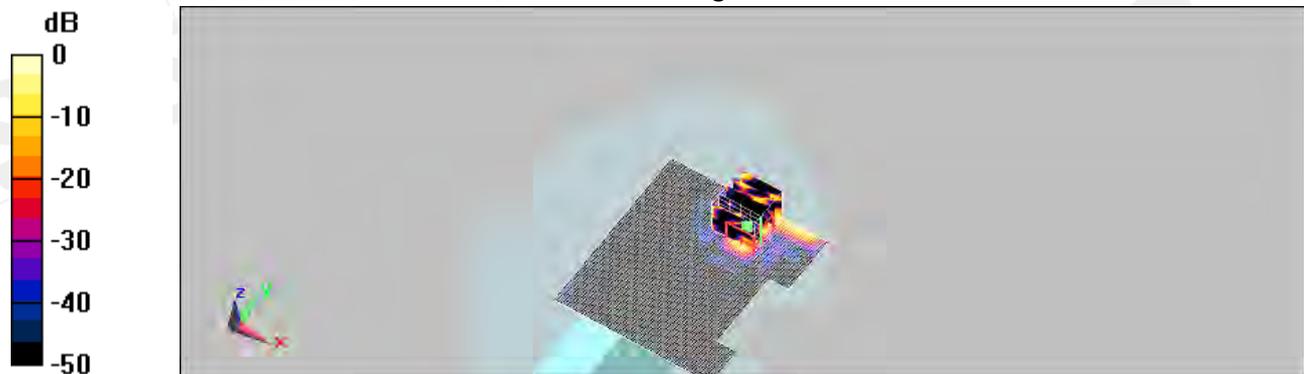
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.032 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.662 V/m; Power Drift = -0.189 dB
 Peak SAR (extrapolated) = 0.042 W/kg

SAR(1 g) = 0.00273 mW/g; SAR(10 g) = 0.000391 mW/g
 Maximum value of SAR (measured) = 0.014 mW/g



0 dB = 0.014mW/g

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Date/Time: 01/16/2010 11:08:27

Configuration 4_CH62_WLAN 802.11n(40M)5.3G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5310 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used (interpolated): $f = 5310 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$;

$\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.082 mW/g

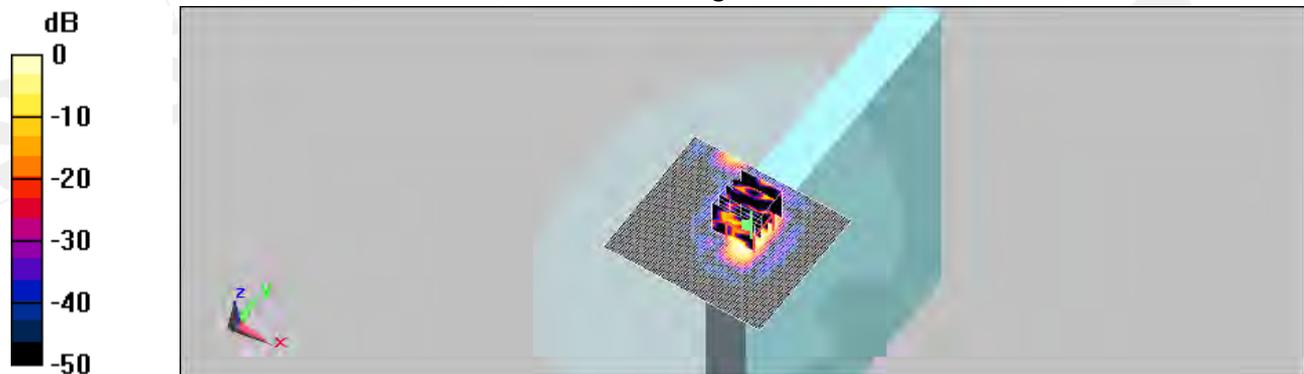
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.73 V/m; Power Drift = 0.098 dB

Peak SAR (extrapolated) = 0.179 W/kg

SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.012 mW/g

Maximum value of SAR (measured) = 0.033 mW/g



0 dB = 0.033mW/g

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Date/Time: 01/16/2010 11:35:40

Configuration 6_CH62_WLAN 802.11n(40M)5.3G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5310 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5310 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$;
 $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

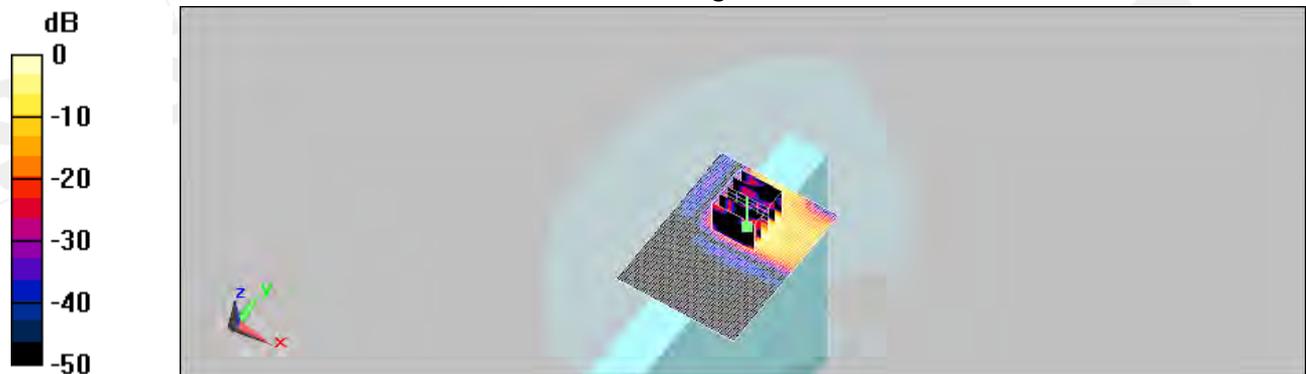
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.471 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 6.23 V/m; Power Drift = -0.100 dB
 Peak SAR (extrapolated) = 0.774 W/kg

SAR(1 g) = 0.277 mW/g; SAR(10 g) = 0.082 mW/g
 Maximum value of SAR (measured) = 0.402 mW/g



0 dB = 0.402mW/g

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Date/Time: 01/16/2010 12:01:42

Configuration 2_CH62_WLAN 802.11n(40M)5.3G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5310 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5310 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$;
 $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

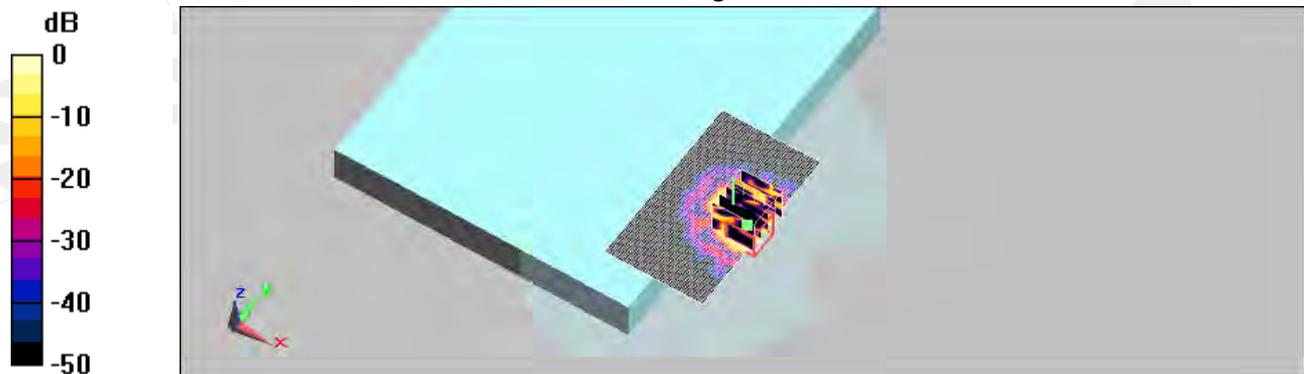
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.017 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.655 V/m; Power Drift = 0.126 dB
 Peak SAR (extrapolated) = 0.044 W/kg

SAR(1 g) = 0.00883 mW/g; SAR(10 g) = 0.00264 mW/g
 Maximum value of SAR (measured) = 0.014 mW/g



0 dB = 0.014mW/g

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Date/Time: 01/16/2010 12:29:06

Configuration 3_CH62_WLAN 802.11n(40M)5.3G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5310 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5310 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$;
 $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

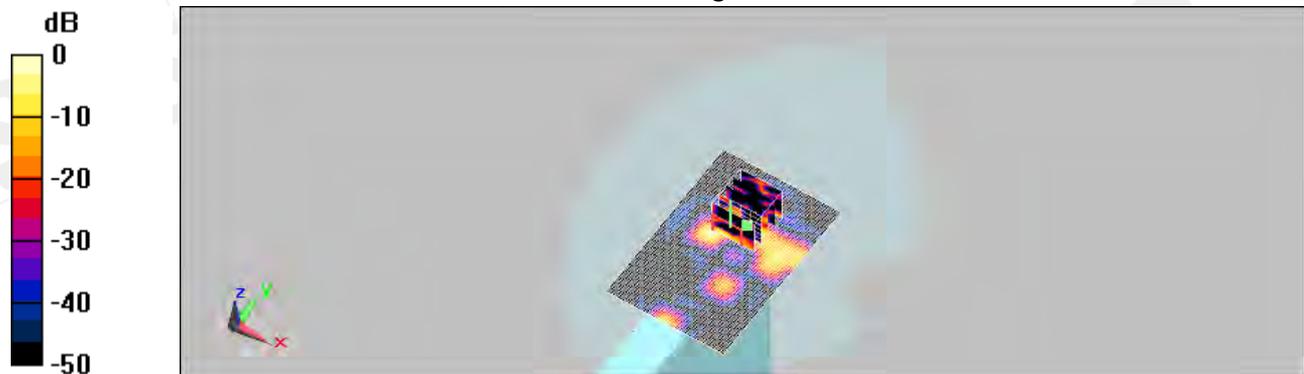
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.096 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2 V/m; Power Drift = 0.131 dB
 Peak SAR (extrapolated) = 0.395 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.023 mW/g
 Maximum value of SAR (measured) = 0.109 mW/g



0 dB = 0.109mW/g

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Date/Time: 01/16/2010 12:58:36

Configuration 4_CH62_WLAN 802.11n(40M)5.3G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5310 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5310 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$;
 $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

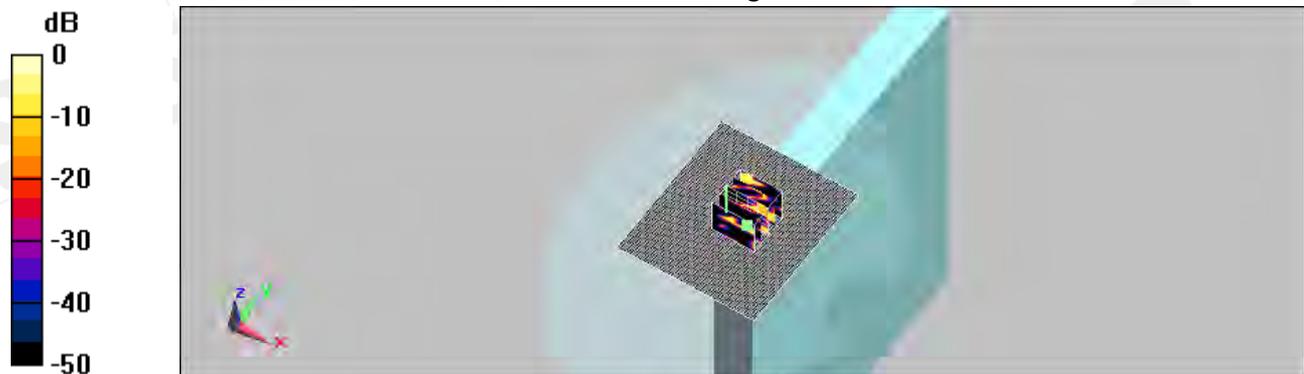
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.000385 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.596 V/m; Power Drift = 0.126 dB
 Peak SAR (extrapolated) = 0.019 W/kg

SAR(1 g) = 0.00274 mW/g; SAR(10 g) = 0.000352 mW/g
 Maximum value of SAR (measured) = 0.00773 mW/g



0 dB = 0.00773mW/g

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Date/Time: 01/16/2010 13:25:49

Configuration 6_CH62_WLAN 802.11n(40M)5.3G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5310 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used (interpolated): $f = 5310 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$;

$\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.565 mW/g

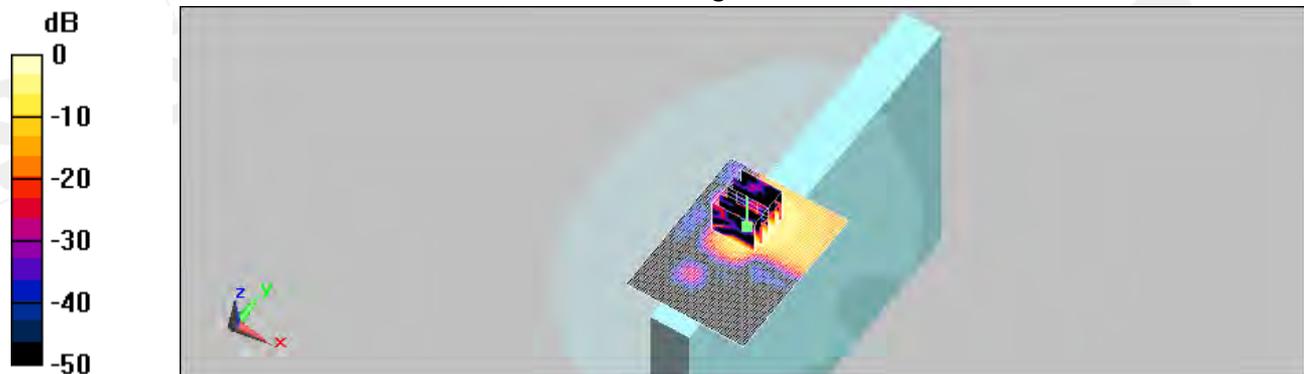
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.36 V/m; Power Drift = 0.197 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.452 mW/g; SAR(10 g) = 0.144 mW/g

Maximum value of SAR (measured) = 0.563 mW/g



0 dB = 0.563mW/g

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Date/Time: 01/19/2010 07:08:58

Configuration 2_CH 118_WLAN 802.11n(40M)5.5G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5590 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5590 \text{ MHz}$; $\sigma = 5.89 \text{ mho/m}$; $\epsilon_r = 47.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

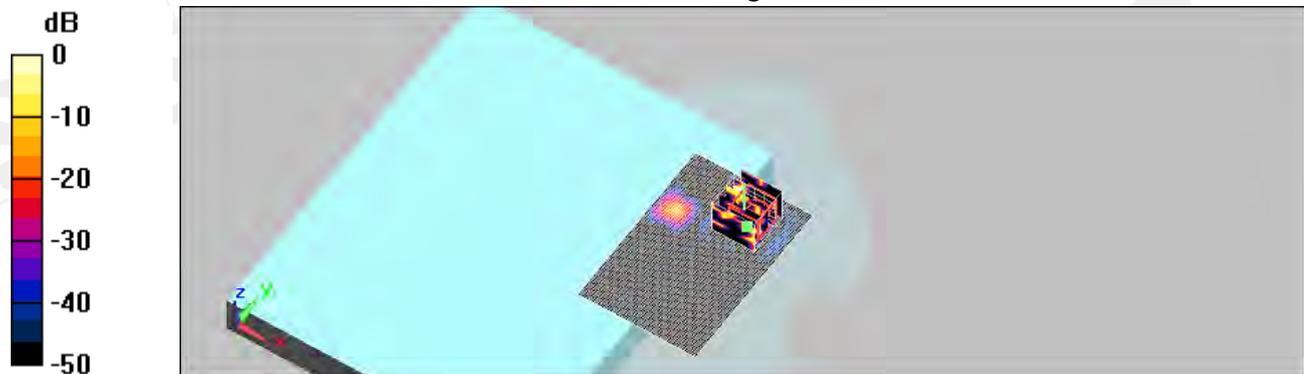
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00245 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.34 V/m; Power Drift = -0.08 dB
 Peak SAR (extrapolated) = 0.00455 W/kg

SAR(1 g) = 0.000156 mW/g; SAR(10 g) = 0.000078 mW/g
 Maximum value of SAR (measured) = 0.00757 mW/g



0 dB = 0.00757mW/g

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Date/Time: 01/19/2010 07:35:32

Configuration 3_CH118_WLAN 802.11n(40M)5.5G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5590 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5590 \text{ MHz}$; $\sigma = 5.89 \text{ mho/m}$; $\epsilon_r = 47.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

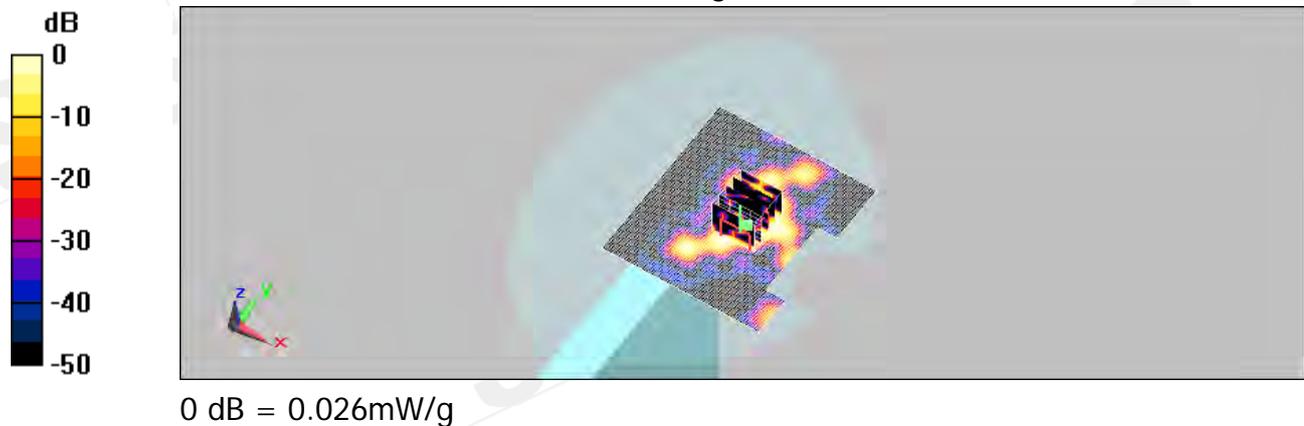
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.071 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.48 V/m; Power Drift = 0.107 dB
 Peak SAR (extrapolated) = 0.139 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.012 mW/g
 Maximum value of SAR (measured) = 0.026 mW/g



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Date/Time: 01/19/2010 08:01:55

Configuration 4_CH118_WLAN 802.11n(40M)5.5G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5590 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5795 \text{ MHz}$; $\sigma = 5.89 \text{ mho/m}$; $\epsilon_r = 47.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

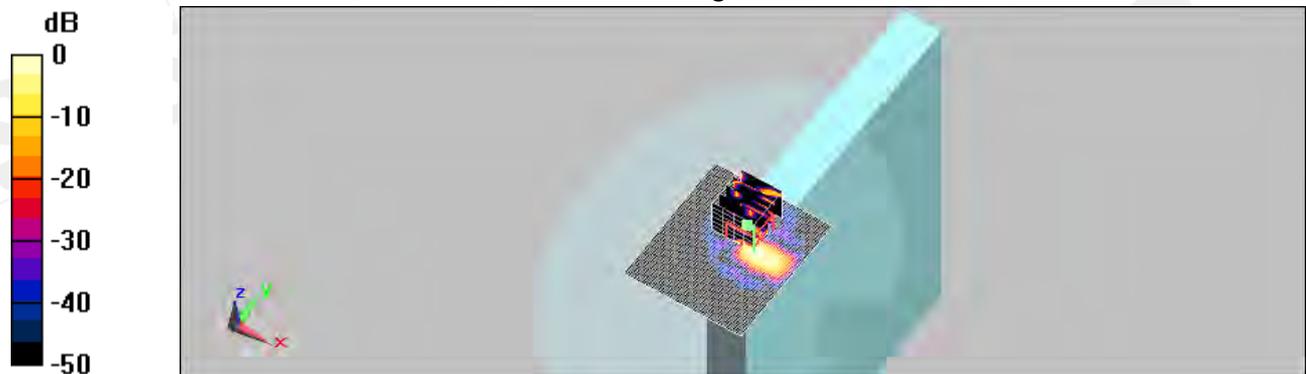
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.018 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.727 V/m; Power Drift = 0.12 dB
 Peak SAR (extrapolated) = 0.088 W/kg

SAR(1 g) = 0.00731 mW/g; SAR(10 g) = 0.00121 mW/g
 Maximum value of SAR (measured) = 0.018 mW/g



0 dB = 0.018mW/g

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Date/Time: 01/19/2010 08:29:58

Configuration 6_CH102_WLAN 802.11n(40M)5.5G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5510 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5510 \text{ MHz}$; $\sigma = 5.79 \text{ mho/m}$; $\epsilon_r = 47.7$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

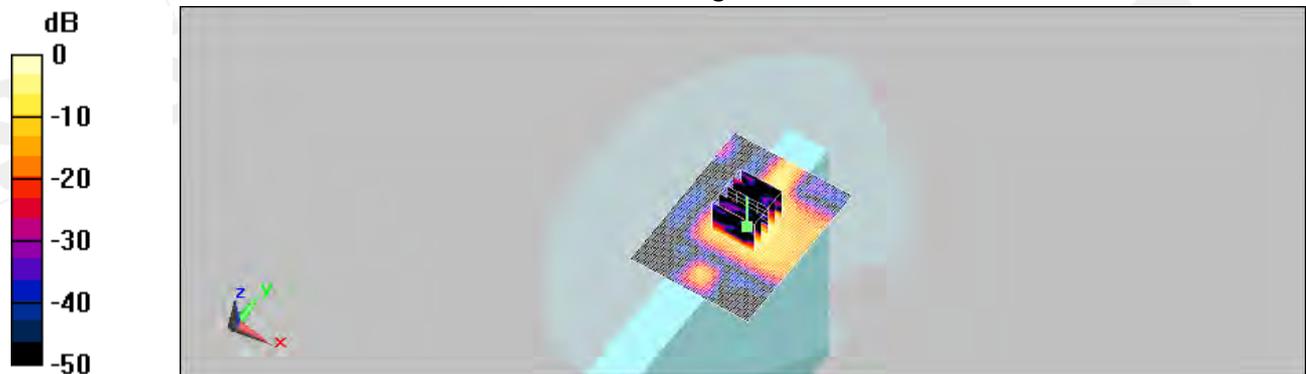
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.779 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 8.09 V/m; Power Drift = 0.187 dB
 Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.159 mW/g
 Maximum value of SAR (measured) = 0.815 mW/g



0 dB = 0.815mW/g

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Date/Time: 01/19/2010 08:58:41

Configuration 6_CH110_WLAN 802.11n(40M)5.5G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5550 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5550 \text{ MHz}$; $\sigma = 5.84 \text{ mho/m}$; $\epsilon_r = 47.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

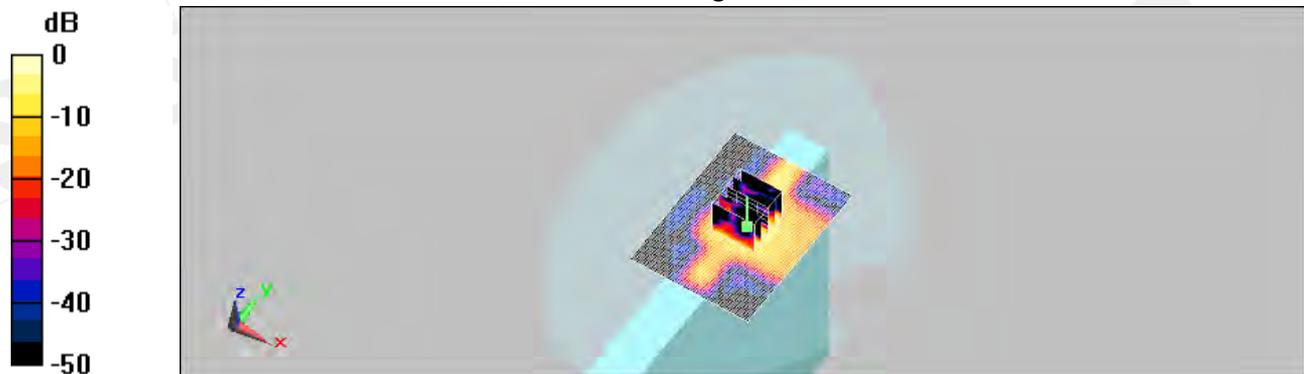
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.707 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 8.19 V/m; Power Drift = -0.035 dB
 Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.507 mW/g; SAR(10 g) = 0.149 mW/g
 Maximum value of SAR (measured) = 0.709 mW/g



0 dB = 0.709mW/g

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Date/Time: 01/19/2010 09:24:39

Configuration 6_CH118_WLAN 802.11n(40M)5.5G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5590 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5590 \text{ MHz}$; $\sigma = 5.89 \text{ mho/m}$; $\epsilon_r = 47.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

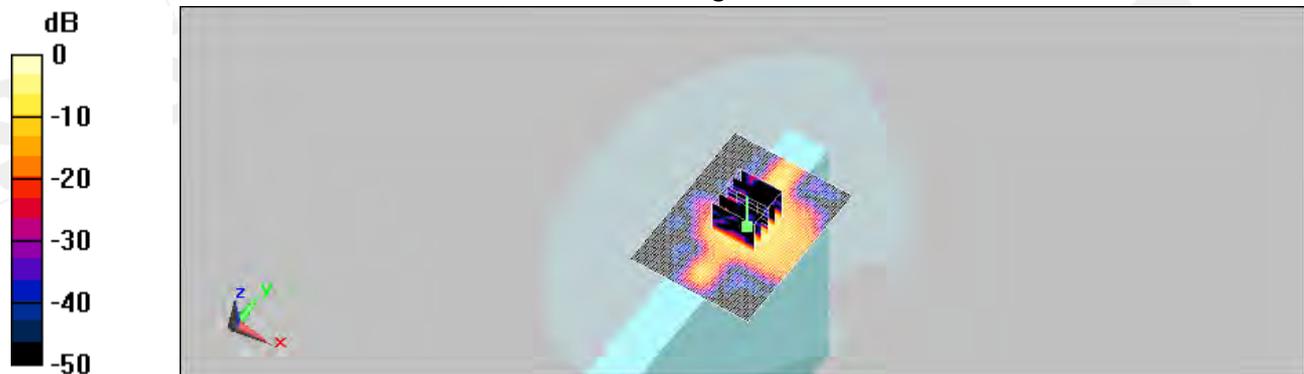
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.677 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 7.64 V/m; Power Drift = 0.150 dB
 Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.146 mW/g
 Maximum value of SAR (measured) = 0.800 mW/g



0 dB = 0.800mW/g

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Date/Time: 01/19/2010 09:51:33

Configuration 6_CH126_WLAN 802.11n(40M)5.5G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5630 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5630 \text{ MHz}$; $\sigma = 5.91 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

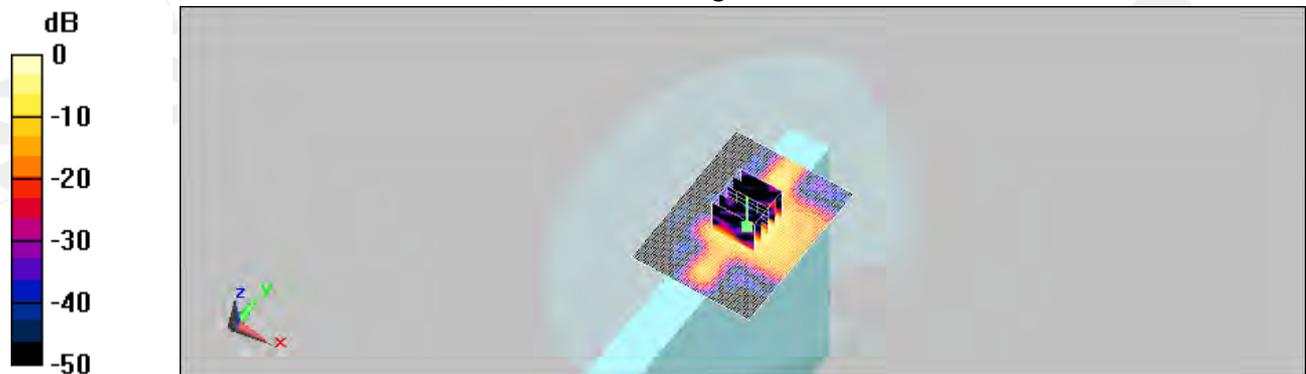
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.808 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 8.08 V/m; Power Drift = -0.087 dB
 Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.516 mW/g; SAR(10 g) = 0.149 mW/g
 Maximum value of SAR (measured) = 0.716 mW/g



0 dB = 0.716mW/g

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Date/Time: 01/19/2010 10:19:35

Configuration 6_CH134_WLAN 802.11n(40M)5.5G_ Main

DUT:HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5670 MHz;Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5670 \text{ MHz}$; $\sigma = 5.94 \text{ mho/m}$; $\epsilon_r = 47.2$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

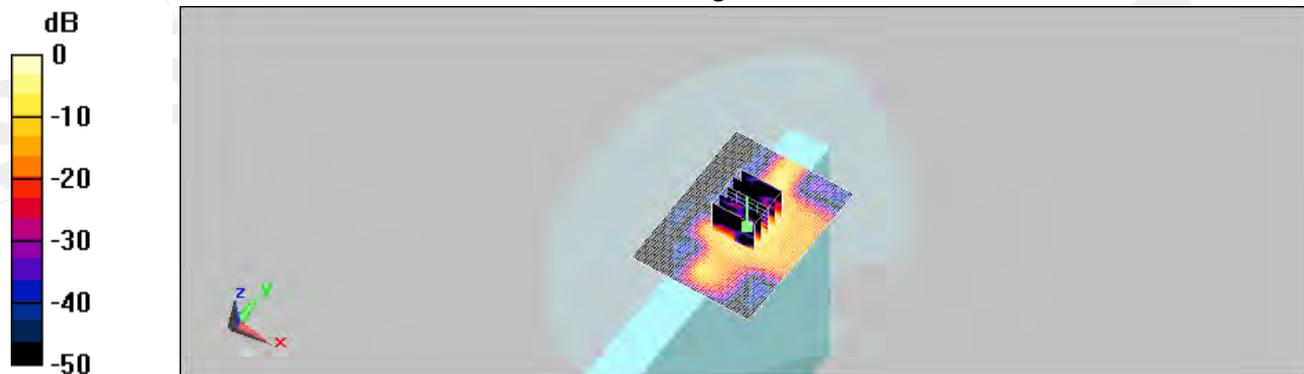
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.826 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 8.06 V/m; Power Drift = 0.053 dB
 Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.544 mW/g; SAR(10 g) = 0.159 mW/g
 Maximum value of SAR (measured) = 0.746 mW/g



0 dB = 0.746mW/g

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Date/Time: 01/19/2010 10:46:55

Configuration 2_CH118_WLAN 802.11n(40M)5.5G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5590 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5590 \text{ MHz}$; $\sigma = 5.89 \text{ mho/m}$; $\epsilon_r = 47.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

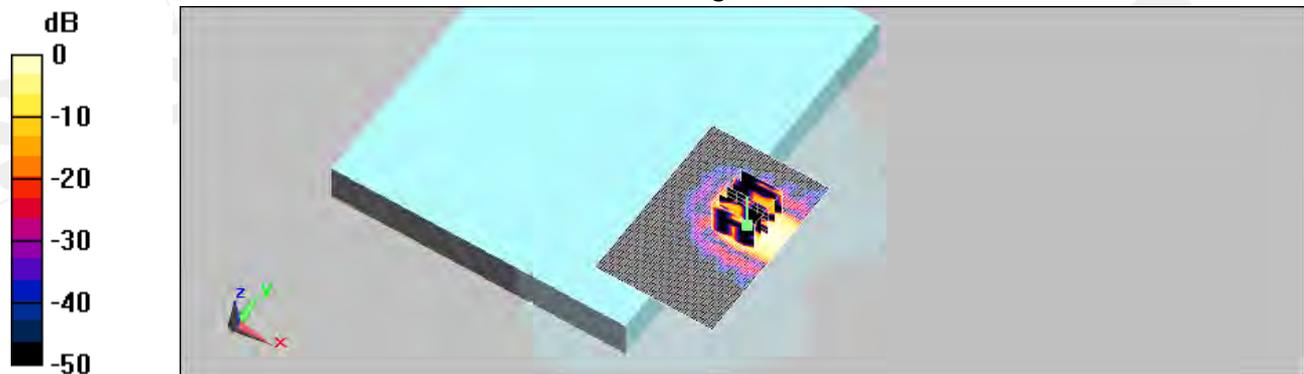
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.0284 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.426 V/m; Power Drift = 0.203dB
 Peak SAR (extrapolated) = 0.115 W/kg

SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.00925 mW/g
 Maximum value of SAR (measured) = 0.022 mW/g



0 dB = 0.022mW/g

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Date/Time: 01/19/2010 11:12:17

Configuration 3_CH118_WLAN 802.11n(40M)5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5590 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5590 \text{ MHz}$; $\sigma = 5.89 \text{ mho/m}$; $\epsilon_r = 47.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

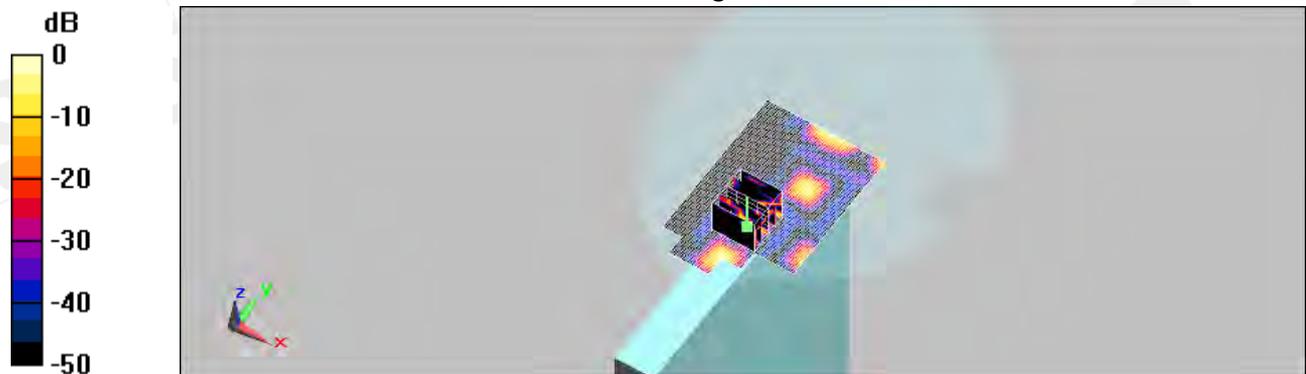
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.059 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.72 V/m; Power Drift = 0.163 dB
 Peak SAR (extrapolated) = 0.191 W/kg

SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.00845 mW/g
 Maximum value of SAR (measured) = 0.055 mW/g



0 dB = 0.055mW/g

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Date/Time: 01/19/2010 11:40:40

Configuration 4_CH118_WLAN 802.11n(40M)5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5590 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5590 \text{ MHz}$; $\sigma = 5.89 \text{ mho/m}$; $\epsilon_r = 47.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

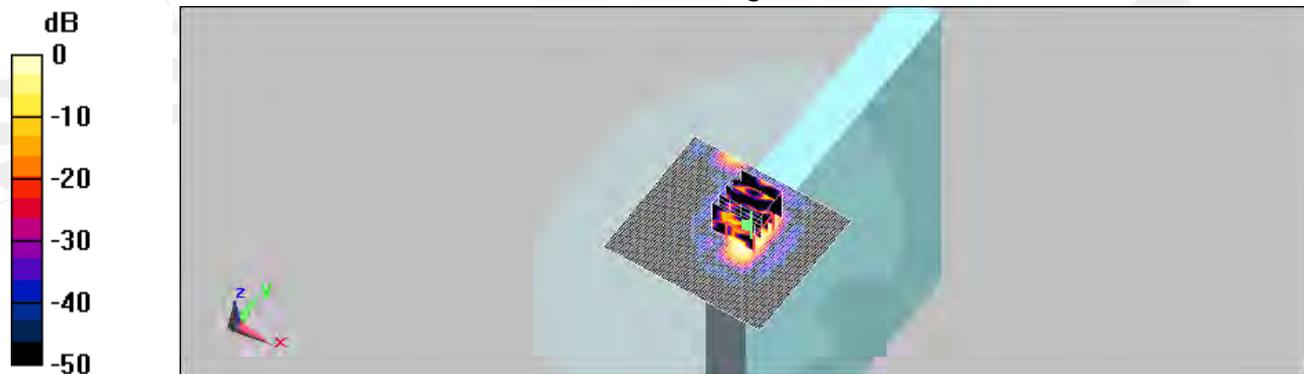
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (71x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.000319 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.468 V/m; Power Drift = 0.05 dB
 Peak SAR (extrapolated) = 0.00495 W/kg

SAR(1 g) = 0.000175 mW/g; SAR(10 g) = 0.000084 mW/g
 Maximum value of SAR (measured) = 0.00501 mW/g



0 dB = 0.00501mW/g

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Date/Time: 01/19/2010 12:06:56

Configuration 6_CH102_WLAN 802.11n(40M)5.5G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5510 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5510 \text{ MHz}$; $\sigma = 5.79 \text{ mho/m}$; $\epsilon_r = 47.7$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

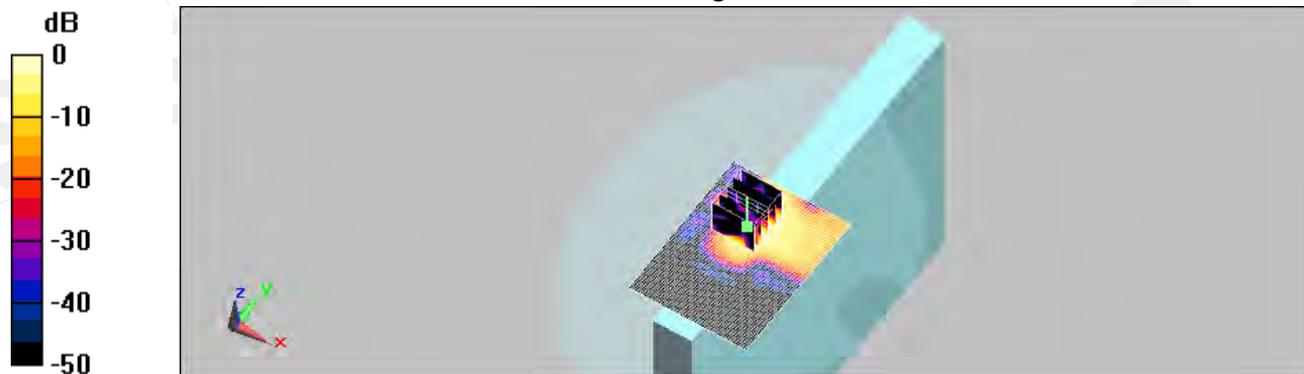
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.466 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 7.96 V/m; Power Drift = -0.160 dB
 Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.359 mW/g; SAR(10 g) = 0.121 mW/g
 Maximum value of SAR (measured) = 0.481 mW/g



0 dB = 0.481mW/g

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Date/Time: 01/19/2010 12:33:05

Configuration 6_CH110_WLAN 802.11n(40M)5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5550 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5550 \text{ MHz}$; $\sigma = 5.84 \text{ mho/m}$; $\epsilon_r = 47.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

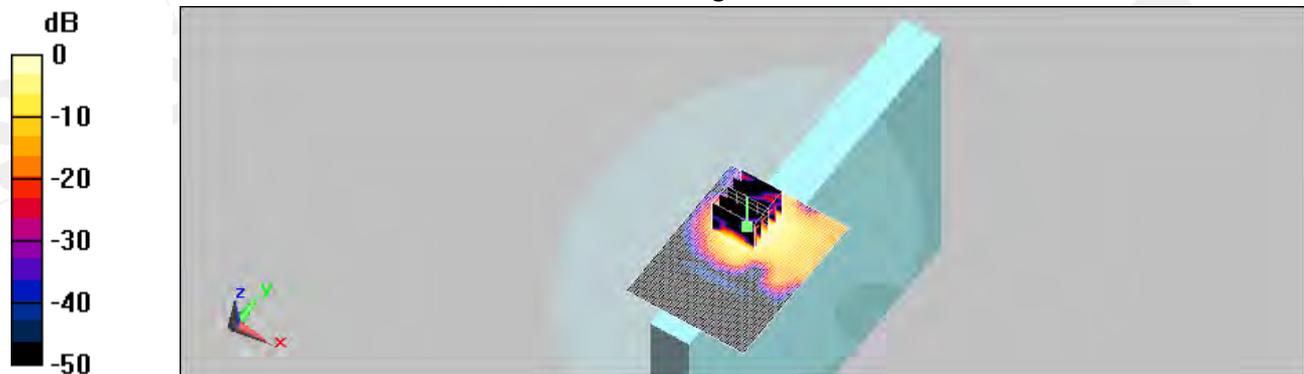
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.450 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 7.81 V/m; Power Drift = 0.144 dB
 Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.390 mW/g; SAR(10 g) = 0.137 mW/g
 Maximum value of SAR (measured) = 0.485 mW/g



0 dB = 0.485mW/g

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Date/Time: 01/19/2010 13:02:21

Configuration 6_CH118_WLAN 802.11n(40M)5.5G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5590 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5590 \text{ MHz}$; $\sigma = 5.89 \text{ mho/m}$; $\epsilon_r = 47.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

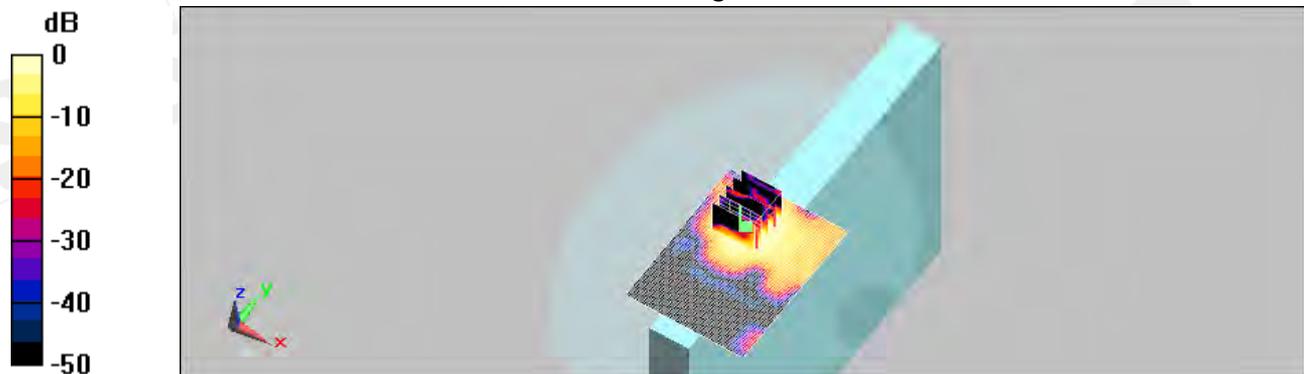
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.462 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 7.77 V/m; Power Drift = -0.123 dB
 Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.147 mW/g
 Maximum value of SAR (measured) = 0.536 mW/g



0 dB = 0.536mW/g

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Date/Time: 01/19/2010 13:29:00

Configuration 6_CH126_WLAN 802.11n(40M)5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5630 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5630 \text{ MHz}$; $\sigma = 5.91 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

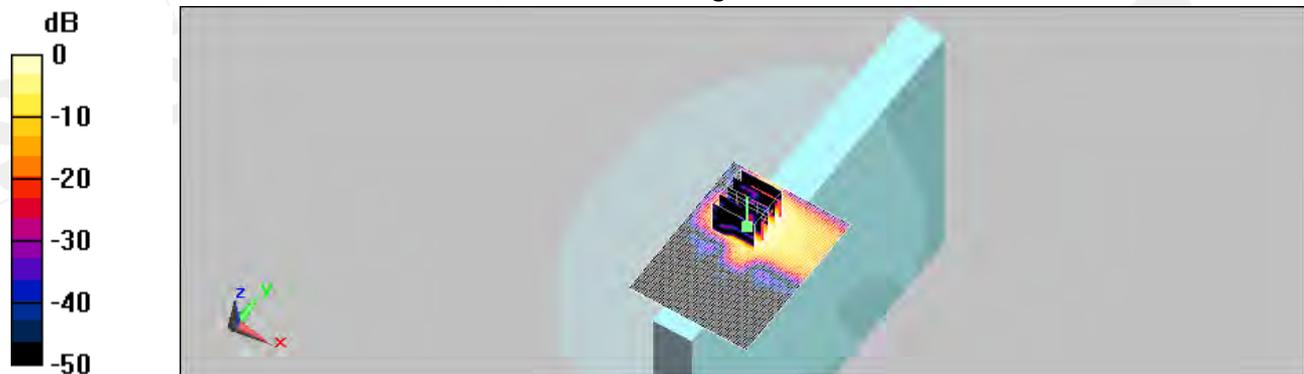
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.461 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 6.69 V/m; Power Drift = 0.033 dB
 Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.331 mW/g; SAR(10 g) = 0.120 mW/g
 Maximum value of SAR (measured) = 0.434 mW/g



0 dB = 0.434mW/g

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Date/Time: 01/19/2010 13:57:18

Configuration 6_CH134_WLAN 802.11n(40M)5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5670 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5670 \text{ MHz}$; $\sigma = 5.94 \text{ mho/m}$; $\epsilon_r = 47.2$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

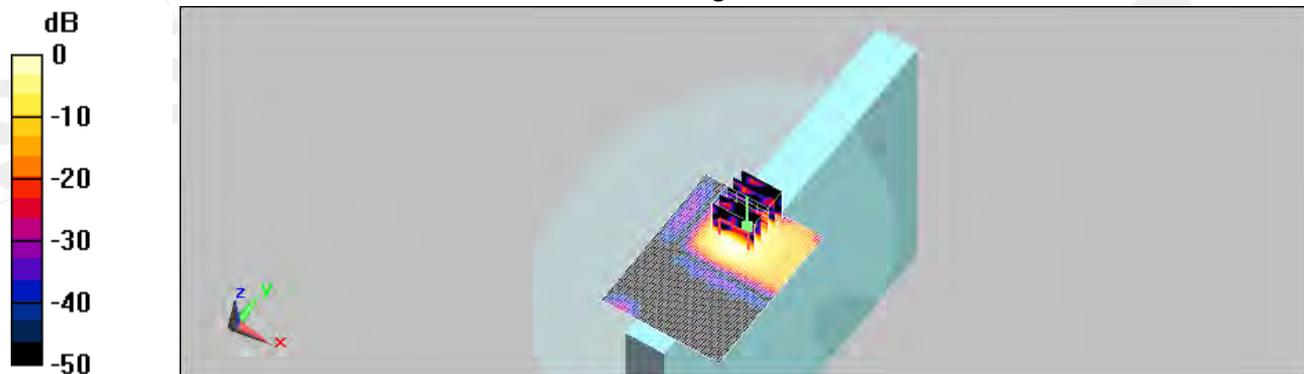
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.681 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 5.33 V/m; Power Drift = -0.050 dB
 Peak SAR (extrapolated) = 0.959 W/kg

SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.108 mW/g
 Maximum value of SAR (measured) = 0.421 mW/g



0 dB = 0.421mW/g

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Date/Time: 01/22/2010 03:04:48

Configuration 2_CH 159_WLAN 802.11n(40M)5.8G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5795 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5795 \text{ MHz}$; $\sigma = 6.16 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

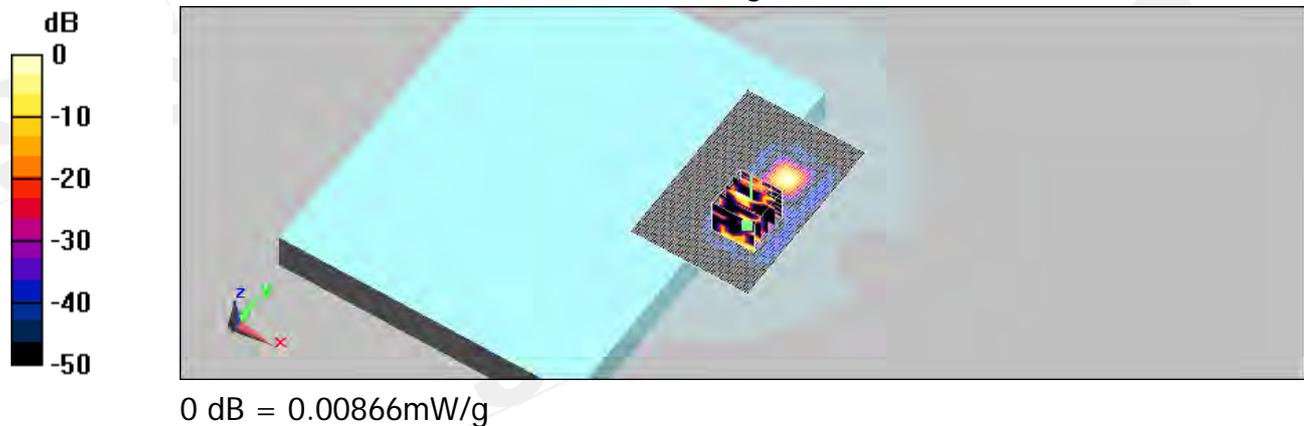
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00783 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.09 V/m; Power Drift = -0.22 dB
 Peak SAR (extrapolated) = 0.030 W/kg

SAR(1 g) = 0.00193 mW/g; SAR(10 g) = 0.000275 mW/g
 Maximum value of SAR (measured) = 0.00866 mW/g



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Date/Time: 01/22/2010 03:33:03

Configuration 3_CH159_WLAN 802.11n(40M)5.8G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5795 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5795 \text{ MHz}$; $\sigma = 6.16 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

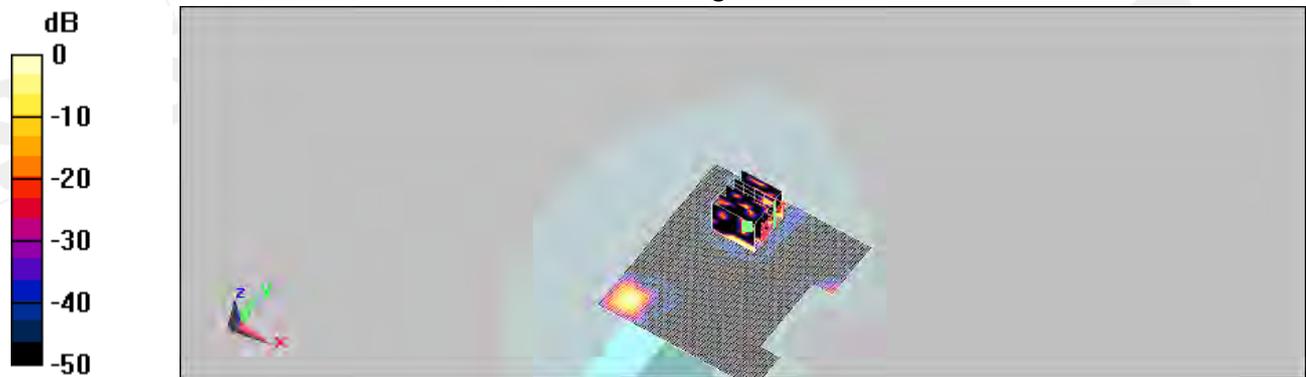
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00882 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.23 V/m; Power Drift = 0.144 dB
 Peak SAR (extrapolated) = 0.043 W/kg

SAR(1 g) = 0.00387 mW/g; SAR(10 g) = 0.000754 mW/g
 Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.011mW/g

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Date/Time: 01/22/2010 04:00:39

Configuration 4_CH159_WLAN 802.11n(40M)5.8G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5795 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5795 \text{ MHz}$; $\sigma = 6.16 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

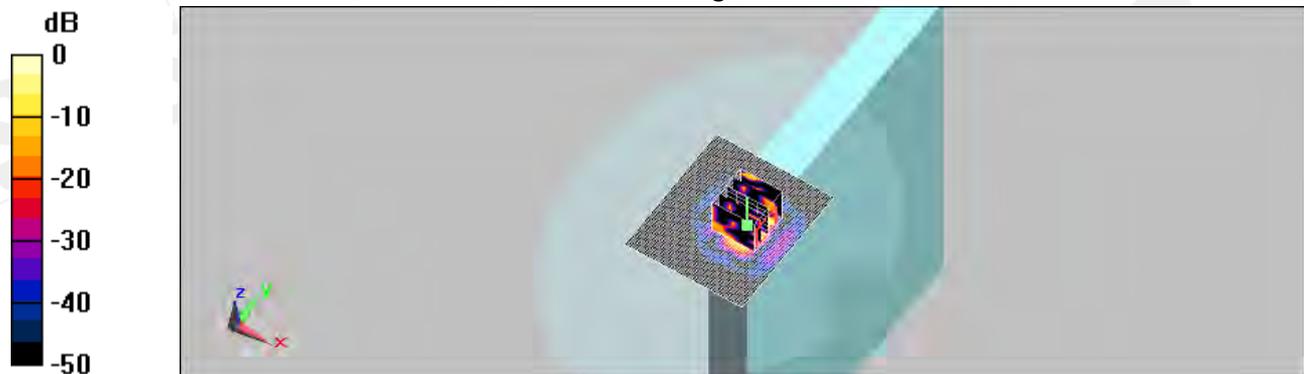
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.064 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.37 V/m; Power Drift = -0.120 dB
 Peak SAR (extrapolated) = 0.165 W/kg

SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.00925 mW/g
 Maximum value of SAR (measured) = 0.032 mW/g



0 dB = 0.032mW/g

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Date/Time: 01/22/2010 04:28:39

Configuration 6_CH159_WLAN 802.11n(40M)5.8G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5795 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5795 \text{ MHz}$; $\sigma = 6.16 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

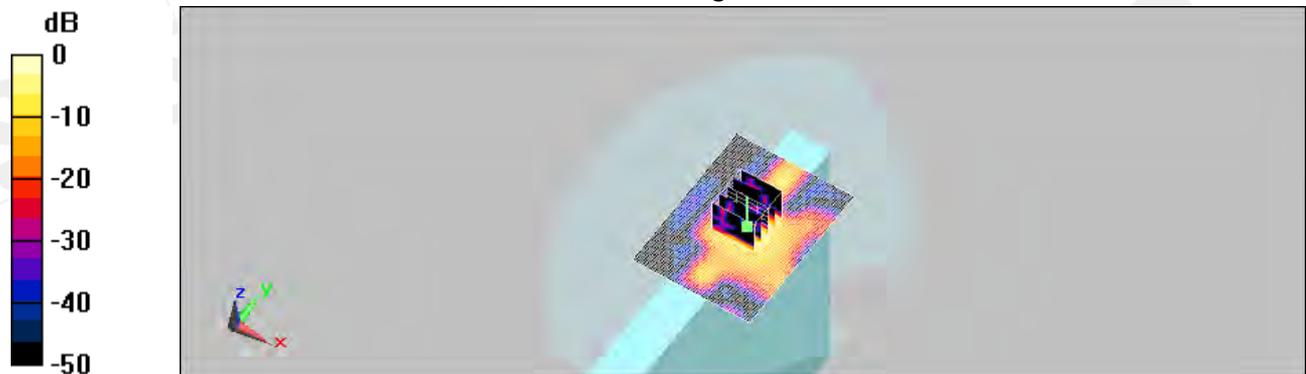
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.722 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 7.42 V/m; Power Drift = 0.176 dB
 Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.552 mW/g; SAR(10 g) = 0.155 mW/g
 Maximum value of SAR (measured) = 0.843 mW/g



0 dB = 0.843mW/g

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Date/Time: 01/22/2010 04:55:08

Configuration 2_CH159_WLAN 802.11n(40M)5.8G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5795 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5795 \text{ MHz}$; $\sigma = 6.16 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

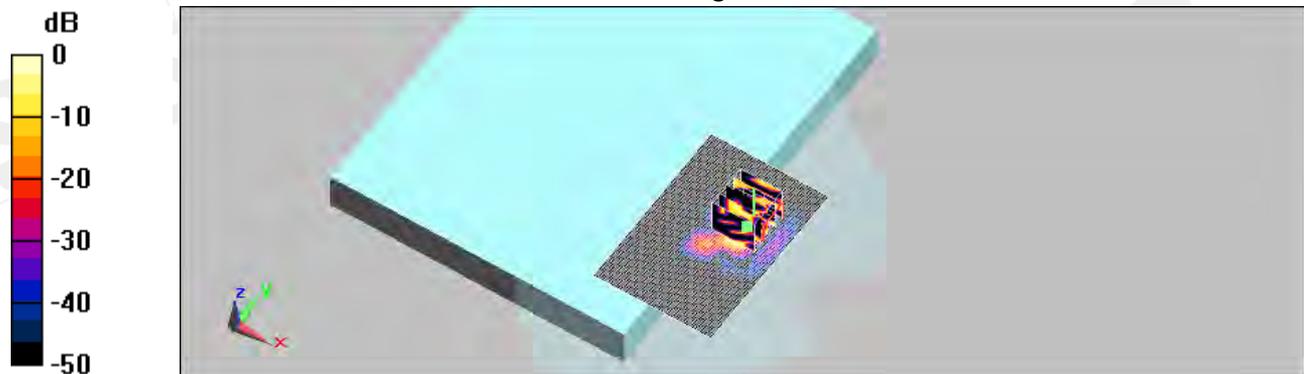
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.018 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.847 V/m; Power Drift = -0.107 dB
 Peak SAR (extrapolated) = 0.077 W/kg

SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00518 mW/g
 Maximum value of SAR (measured) = 0.019 mW/g



0 dB = 0.019mW/g

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Date/Time: 01/22/2010 05:22:52

Configuration 3_CH159_WLAN 802.11n(40M)5.8G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5795 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5795 \text{ MHz}$; $\sigma = 6.16 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.015 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.997 V/m; Power Drift = -0.126 dB
 Peak SAR (extrapolated) = 0.051 W/kg

SAR(1 g) = 0.010 mW/g; SAR(10 g) = 0.00173 mW/g
 Maximum value of SAR (measured) = 0.031 mW/g



0 dB = 0.031mW/g

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Date/Time: 01/22/2010 05:48:24

Configuration 4_CH159_WLAN 802.11n(40M)5.8G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5795 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5795 \text{ MHz}$; $\sigma = 6.16 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

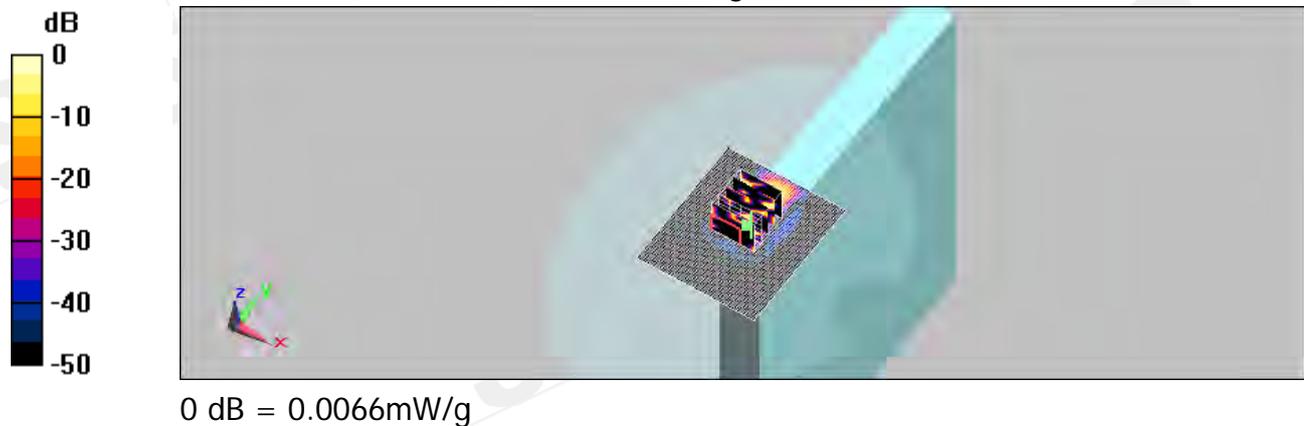
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00463 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.569 V/m; Power Drift = 0.152dB
 Peak SAR (extrapolated) = 0.00383 W/kg

SAR(1 g) = 0.000241 mW/g; SAR(10 g) = 0.000052 mW/g
 Maximum value of SAR (measured) = 0.0066 mW/g



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Date/Time: 01/22/2010 06:16:10

Configuration 6_CH159_WLAN 802.11n(40M)5.8G_ Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5795 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5795 \text{ MHz}$; $\sigma = 6.16 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

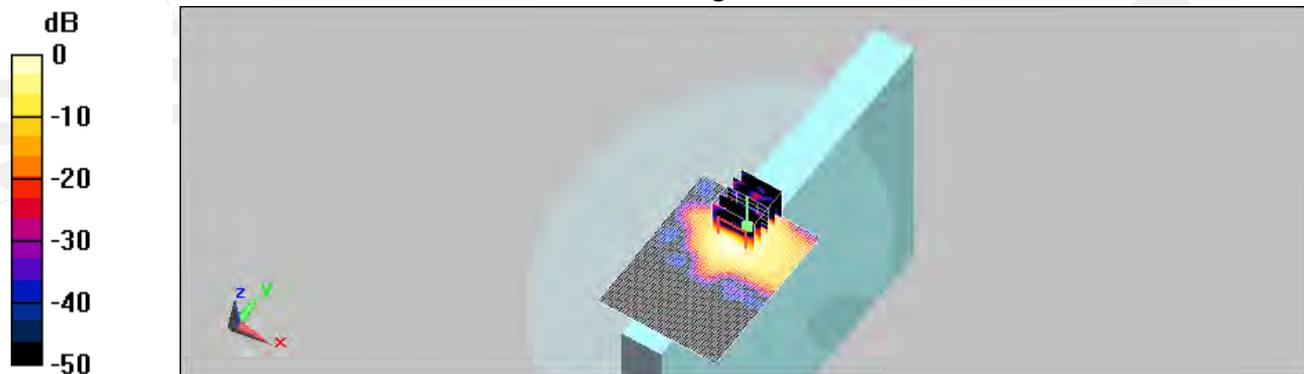
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.887 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 5.47 V/m; Power Drift = 0.154 dB
 Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.403 mW/g; SAR(10 g) = 0.141 mW/g
 Maximum value of SAR (measured) = 0.527 mW/g



0 dB = 0.527mW/g

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Date/Time: 01/16/2010 02:58:46

Configuration 2_CH 44_WLAN 802.11a5.2G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.017 mW/g

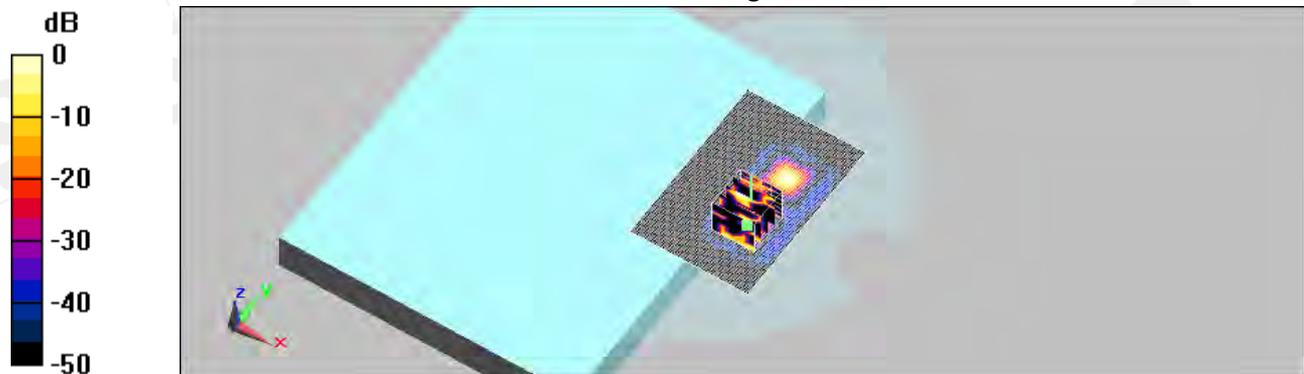
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.860 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.013 W/kg

SAR(1 g) = 0.000597 mW/g; SAR(10 g) = 0.000214 mW/g

Maximum value of SAR (measured) = 0.00771 mW/g



0 dB = 0.00771mW/g

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Date/Time: 01/16/2010 03:25:05

Configuration 3_CH44_WLAN 802.11a5.2G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.013 mW/g

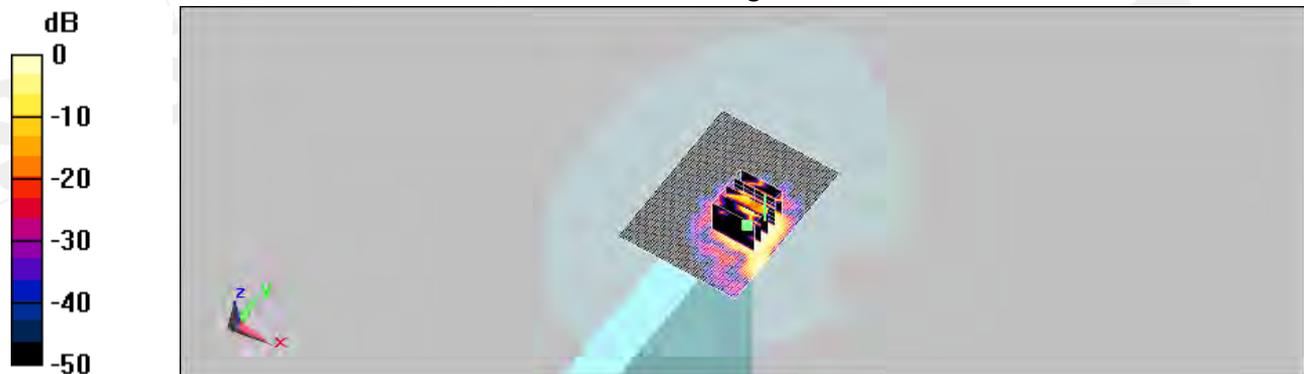
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.918 V/m; Power Drift = 0.106 dB

Peak SAR (extrapolated) = 0.037 W/kg

SAR(1 g) = 0.00801 mW/g; SAR(10 g) = 0.00244 mW/g

Maximum value of SAR (measured) = 0.00926 mW/g



0 dB = 0.00926mW/g

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Date/Time: 01/16/2010 03:53:16

Configuration 4_CH44_WLAN 802.11a5.2G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

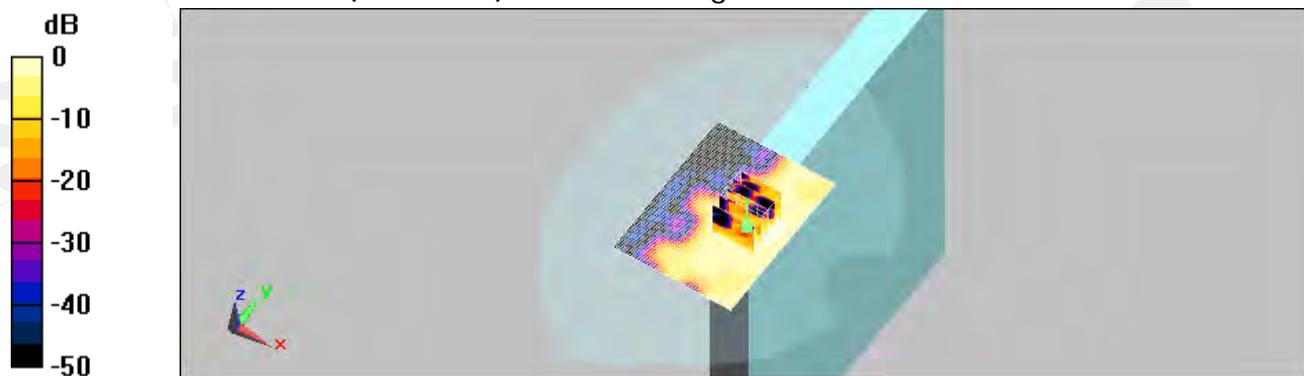
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.08 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.151 W/kg

SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.053 mW/g



0 dB = 0.053mW/g

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Date/Time: 01/16/2010 04:19:19

Configuration 6_CH44_WLAN 802.11a5.2G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

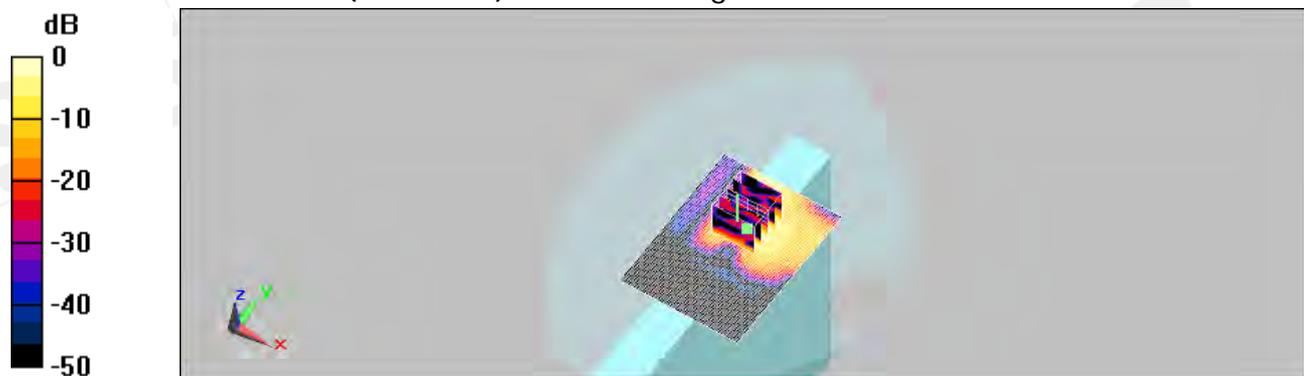
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.97 V/m; Power Drift = 0.190 dB

Peak SAR (extrapolated) = 0.891 W/kg

SAR(1 g) = 0.310 mW/g; SAR(10 g) = 0.096 mW/g

Maximum value of SAR (measured) = 0.375 mW/g



0 dB = 0.375mW/g

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Date/Time: 01/16/2010 04:47:45

Configuration 2_CH44_WLAN 802.11a5.2G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.00859 mW/g

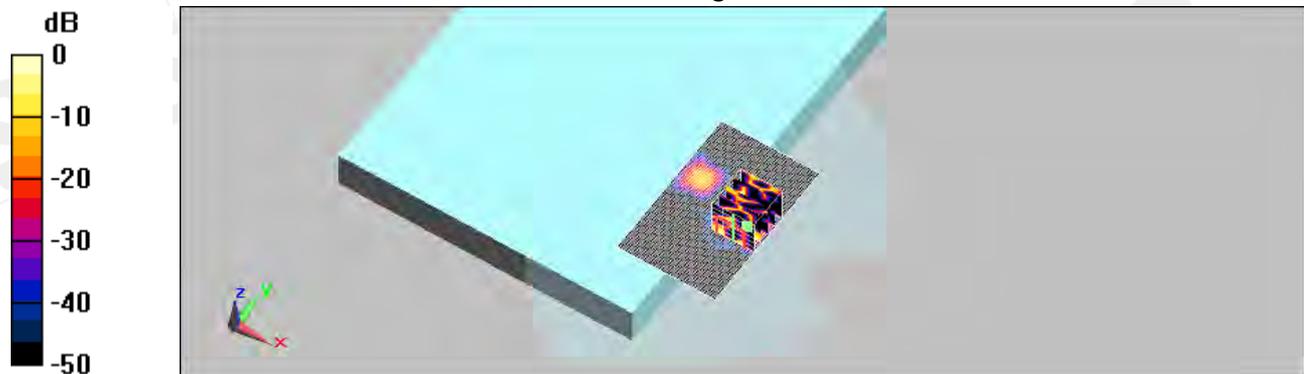
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.981 V/m; Power Drift = -0.132 dB

Peak SAR (extrapolated) = 0.036 W/kg

SAR(1 g) = 0.00743 mW/g; SAR(10 g) = 0.00286 mW/g

Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.011mW/g

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Date/Time: 01/16/2010 05:15:18

Configuration 3_CH44_WLAN 802.11a5.2G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.050 mW/g

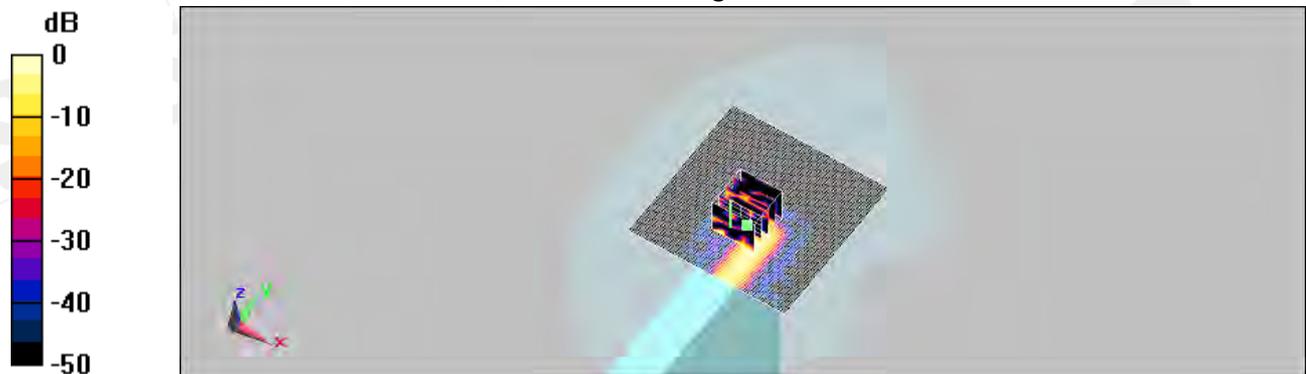
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.86 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 0.196 W/kg

SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.012 mW/g

Maximum value of SAR (measured) = 0.036 mW/g



0 dB = 0.036mW/g

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Date/Time: 01/16/2010 05:41:07

Configuration 4_CH44_WLAN 802.11a5.2G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.00308 mW/g

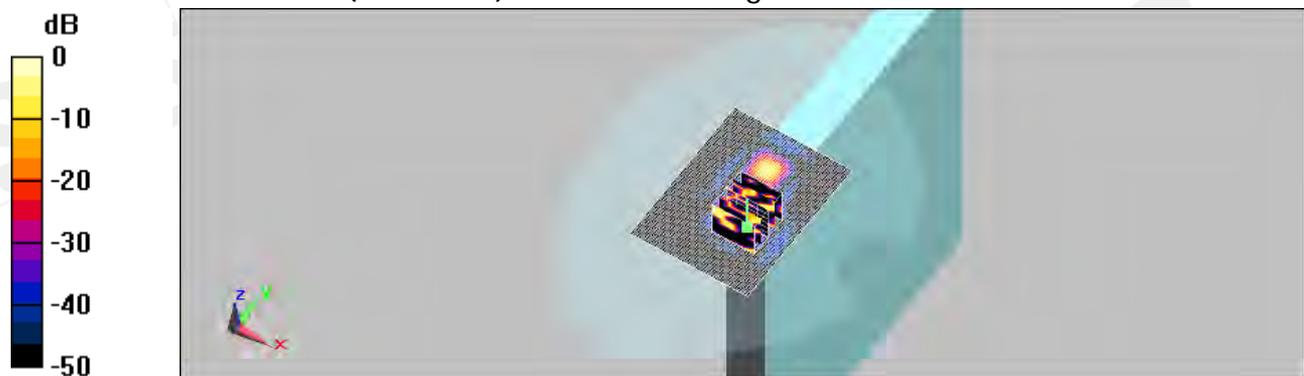
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.13 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.00183 W/kg

SAR(1 g) = 0.000116 mW/g; SAR(10 g) = 0.000089 mW/g

Maximum value of SAR (measured) = 0.00614 mW/g



0 dB = 0.00614mW/g

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Date/Time: 01/16/2010 06:08:00

Configuration 6_CH44_WLAN 802.11a5.2G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.591 mW/g

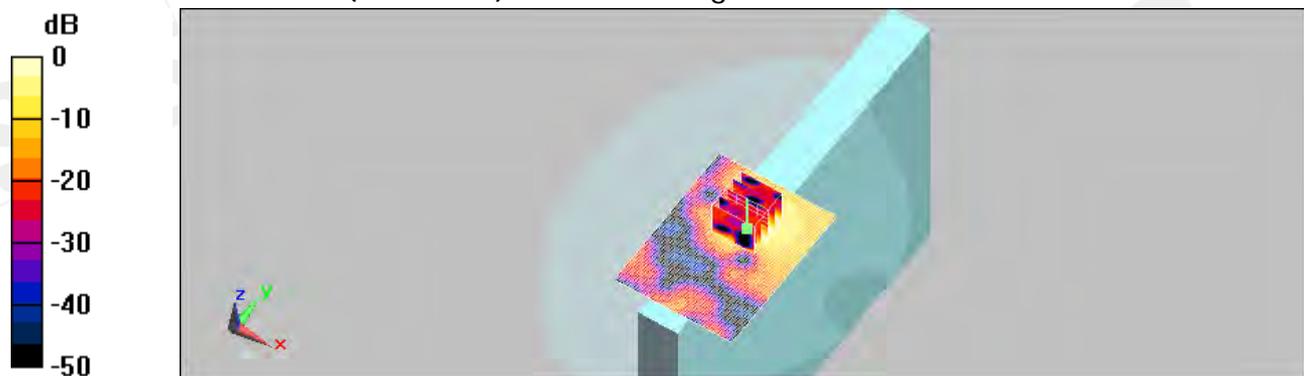
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.55 V/m; Power Drift = 0.167 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.139 mW/g

Maximum value of SAR (measured) = 0.679 mW/g



0 dB = 0.679mW/g

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Date/Time: 01/16/2010 13:53:24

Configuration 2_CH56_WLAN 802.11a5.3G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.00802 mW/g

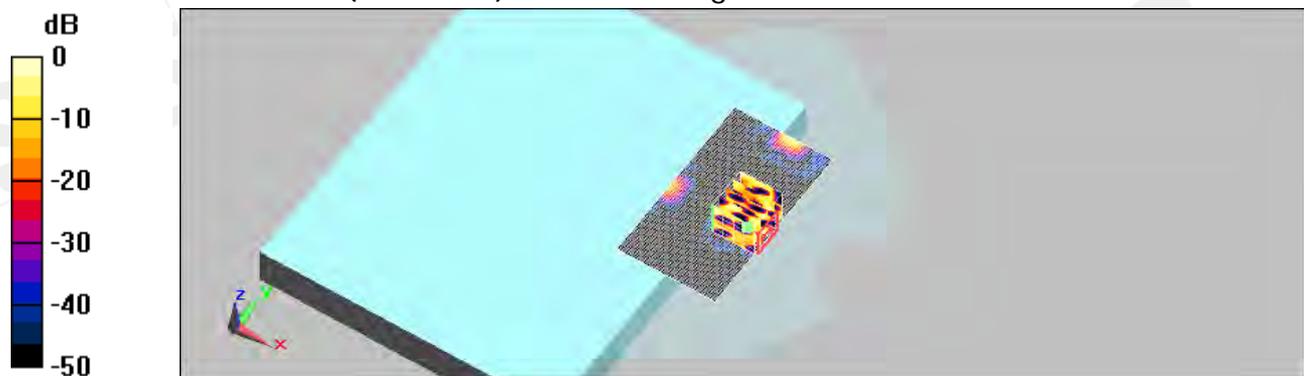
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.614 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.036 W/kg

SAR(1 g) = 0.0059 mW/g; SAR(10 g) = 0.00108 mW/g

Maximum value of SAR (measured) = 0.012 mW/g



0 dB = 0.012mW/g

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Date/Time: 01/16/2010 14:21:40

Configuration 3_CH56_WLAN 802.11a5.3G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

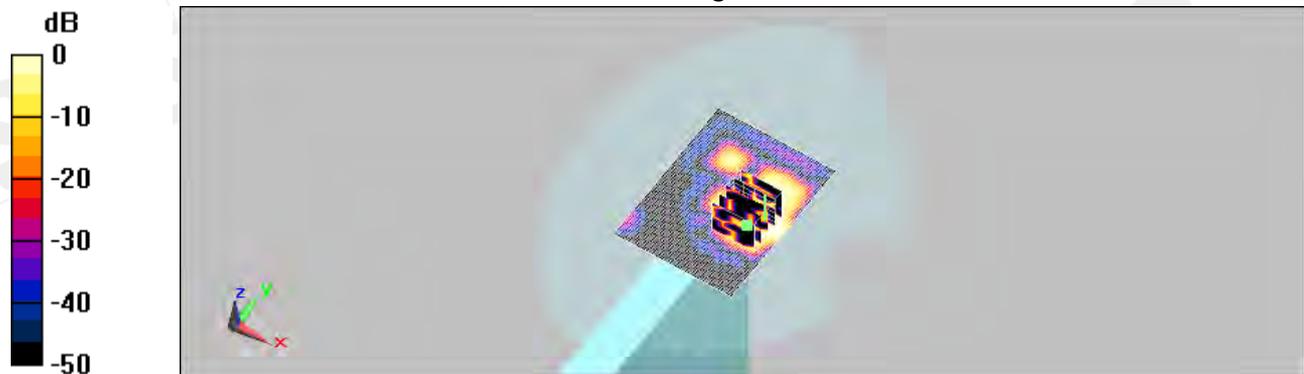
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.08 V/m; Power Drift = 0.144 dB

Peak SAR (extrapolated) = 0.045 W/kg

SAR(1 g) = 0.00942 mW/g; SAR(10 g) = 0.00282 mW/g

Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.011mW/g

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Date/Time: 01/16/2010 14:47:53

Configuration 4_CH56_WLAN 802.11a5.3G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.047 mW/g

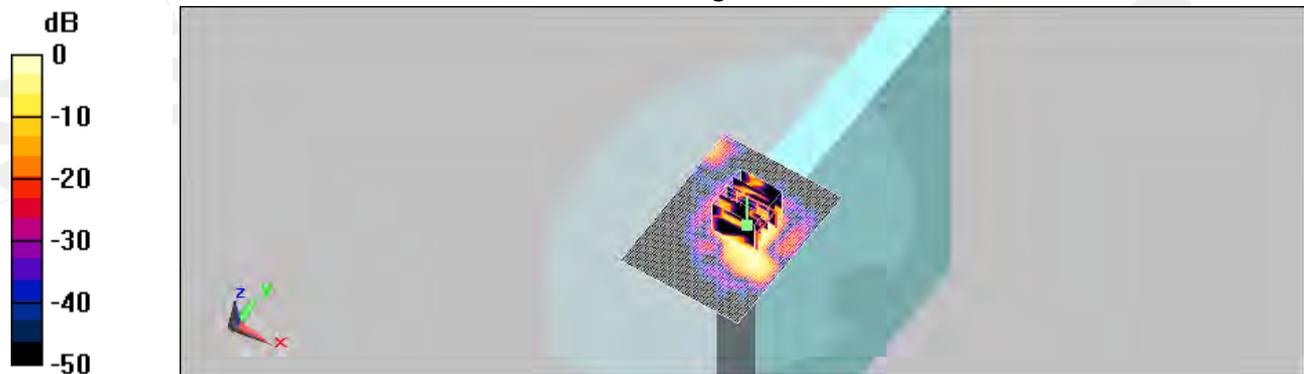
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.45 V/m; Power Drift = 0.092 dB

Peak SAR (extrapolated) = 0.216 W/kg

SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.016 mW/g

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



0 dB = 0.039mW/g

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Date/Time: 01/16/2010 15:15:39

Configuration 6_CH56_WLAN 802.11a5.3G_ Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.314 mW/g

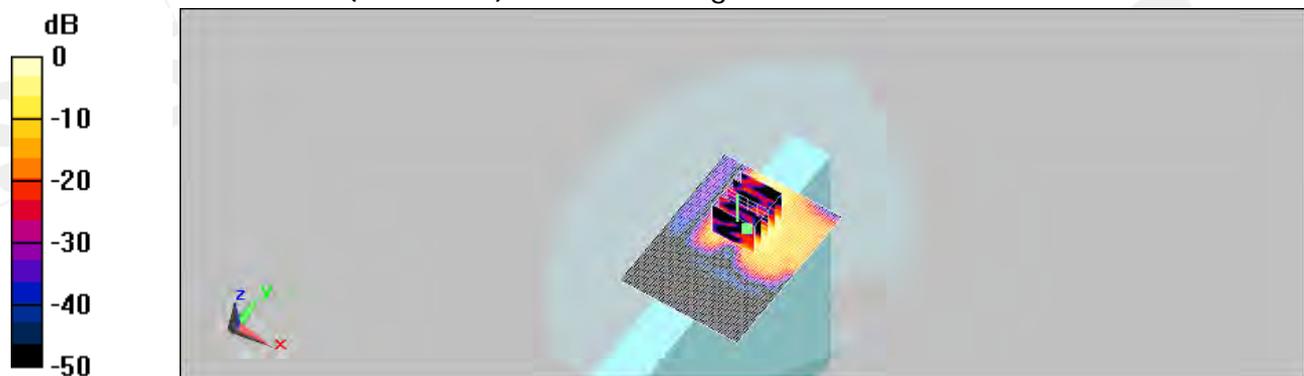
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.74 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.851 W/kg

SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.088 mW/g

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



0 dB = 0.361mW/g

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Date/Time: 01/16/2010 15:42:55

Configuration 2_CH56_WLAN 802.11a5.3G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.016 mW/g

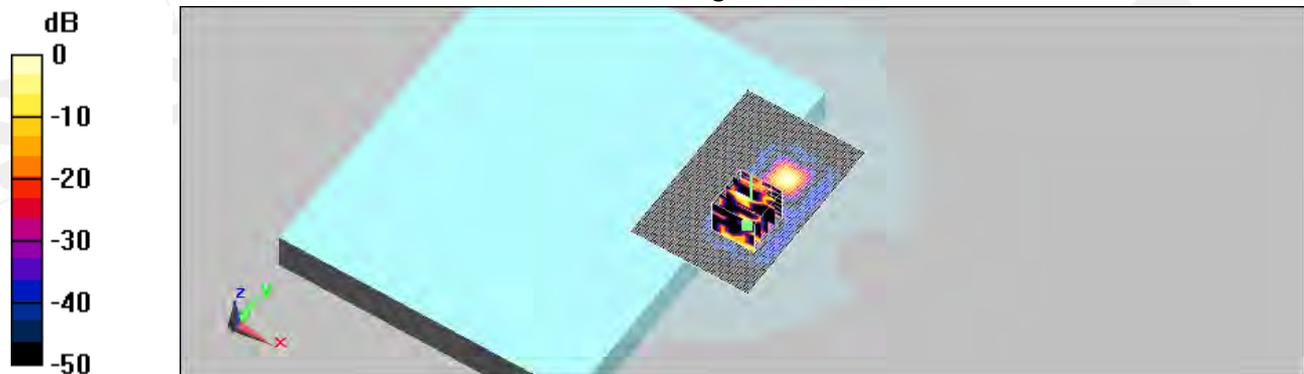
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.14 V/m; Power Drift = 0.156 dB

Peak SAR (extrapolated) = 0.056 W/kg

SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00332 mW/g

Maximum value of SAR (measured) = 0.014 mW/g



0 dB = 0.014mW/g

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Date/Time: 01/16/2010 16:11:25

Configuration 3_CH56_WLAN 802.11a5.3G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.020 mW/g

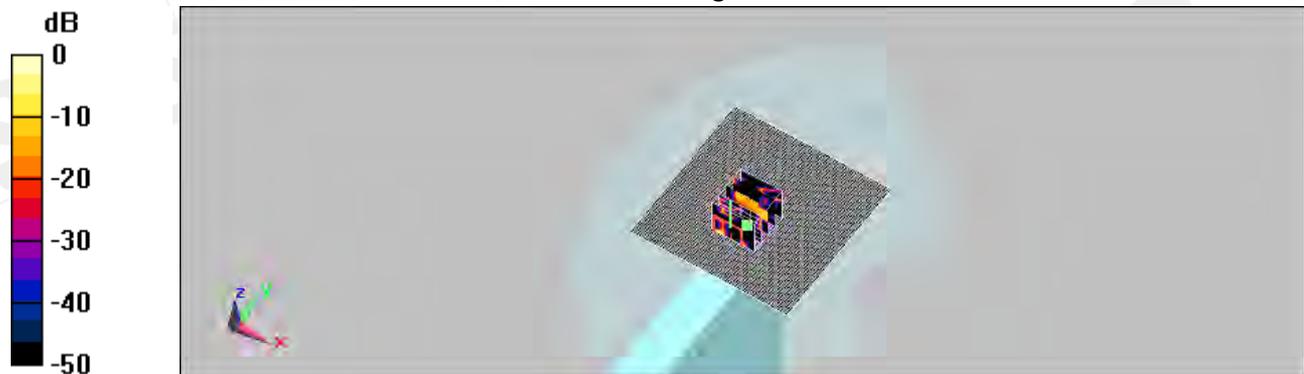
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.55 V/m; Power Drift = -0.185 dB

Peak SAR (extrapolated) = 0.090 W/kg

SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00367 mW/g

Maximum value of SAR (measured) = 0.030 mW/g



0 dB = 0.030mW/g

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Date/Time: 01/16/2010 16:39:37

Configuration 4_CH56_WLAN 802.11a5.3G_Aux

DUT:HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.013 mW/g

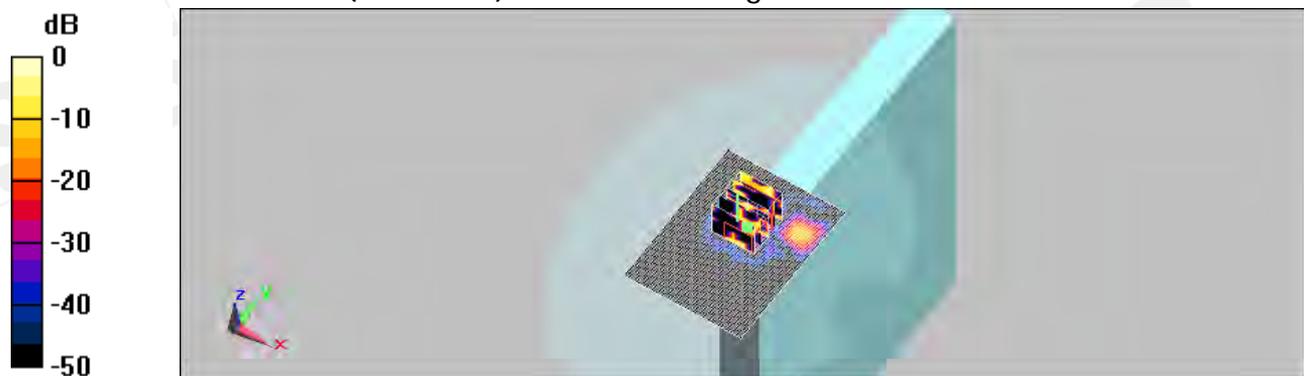
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.17 V/m; Power Drift = -0.142 dB

Peak SAR (extrapolated) = 0.028 W/kg

SAR(1 g) = 0.00594 mW/g; SAR(10 g) = 0.00115 mW/g

Maximum value of SAR (measured) = 0.00975 mW/g



0 dB = 0.00975mW/g

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Date/Time: 01/16/2010 17:08:11

Configuration 6_CH56_WLAN 802.11a5.3G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.98, 3.98, 3.98); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.708 mW/g

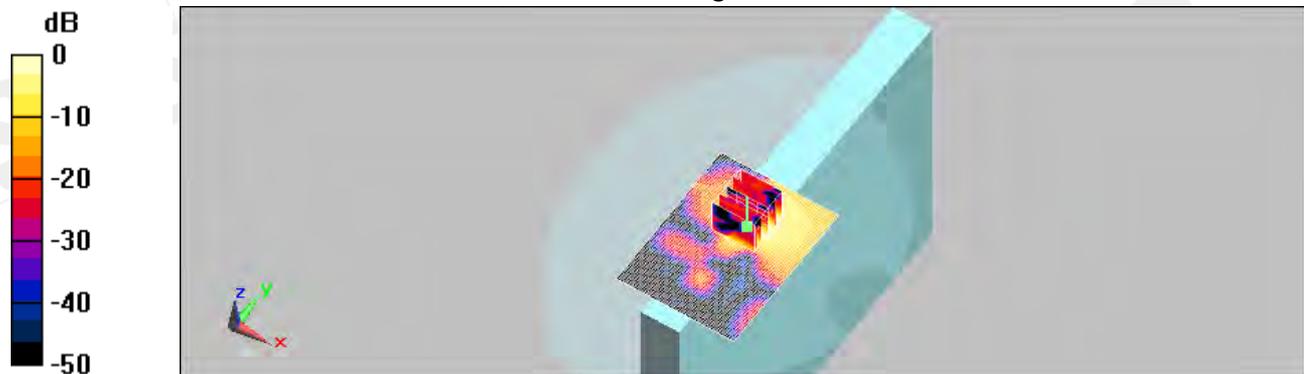
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.81 V/m; Power Drift = 0.107 dB

Peak SAR (extrapolated) = 2.44 W/kg

SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.180 mW/g

Maximum value of SAR (measured) = 0.705 mW/g



0 dB = 0.705mW/g

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Date/Time: 01/19/2010 14:23:27

Configuration 2_CH120_WLAN 802.11a5.5G_Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.024 mW/g

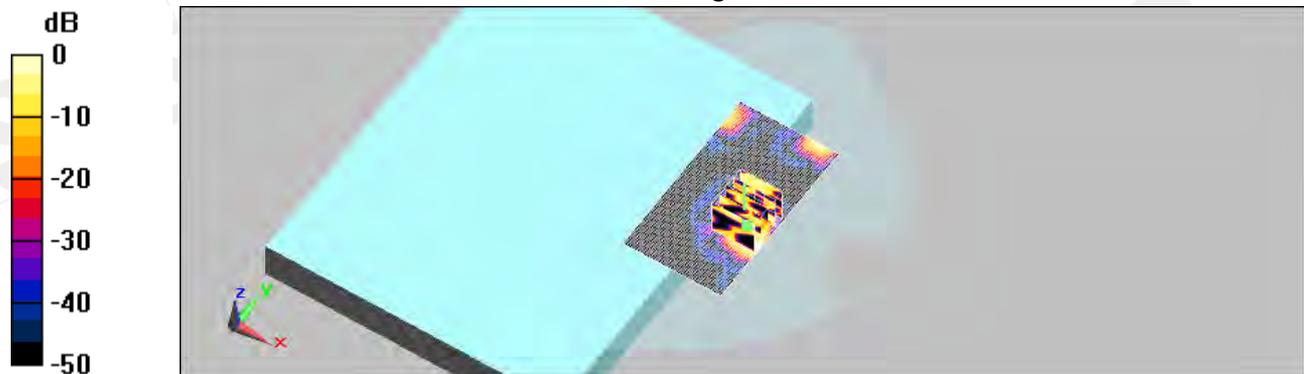
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.404 V/m; Power Drift = 0.184 dB

Peak SAR (extrapolated) = 0.029 W/kg

SAR(1 g) = 0.00626 mW/g; SAR(10 g) = 0.00171 mW/g

Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.011mW/g

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Date/Time: 01/19/2010 14:51:16

Configuration 3_CH120_WLAN 802.11a5.5G_Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.013 mW/g

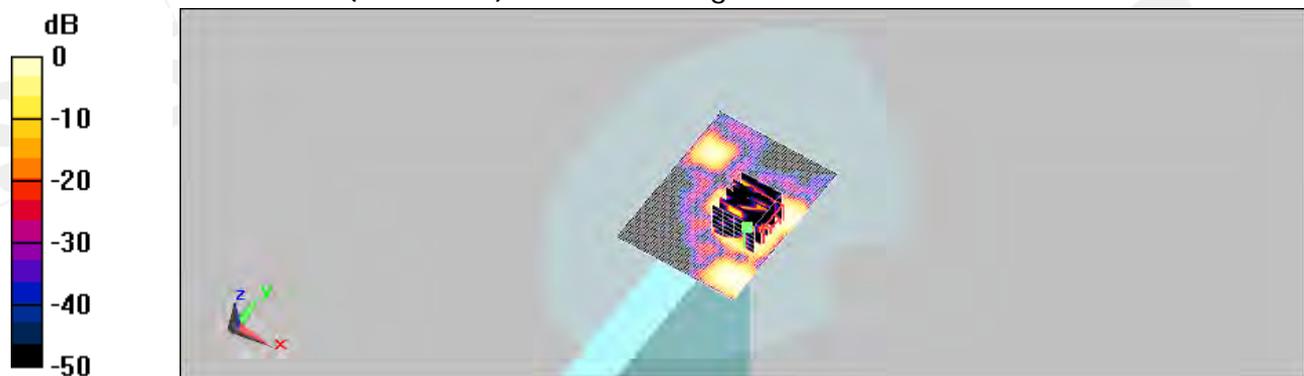
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.963 V/m; Power Drift = 0.076 dB

Peak SAR (extrapolated) = 0.015 W/kg

SAR(1 g) = 0.000953 mW/g; SAR(10 g) = 0.000127 mW/g

Maximum value of SAR (measured) = 0.012 mW/g



0 dB = 0.012mW/g

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Date/Time: 01/19/2010 15:20:02

Configuration 4_CH120_WLAN 802.11a5.5G_Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.037 mW/g

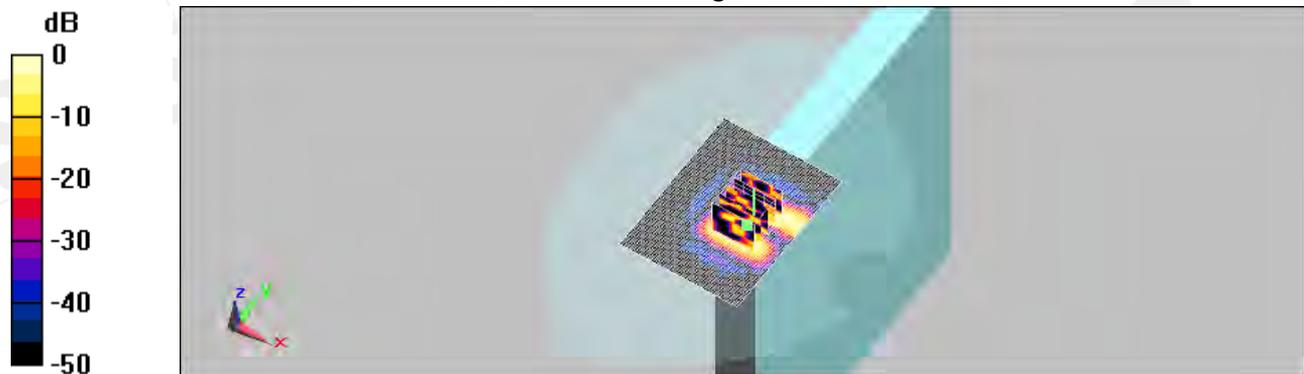
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.37 V/m; Power Drift = 0.123 dB

Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.011 mW/g

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



0 dB = 0.027mW/g

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Date/Time: 01/19/2010 15:47:18

Configuration 6_CH100_WLAN 802.11a5.5G_Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.76 \text{ mho/m}$; $\epsilon_r = 47.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.591 mW/g

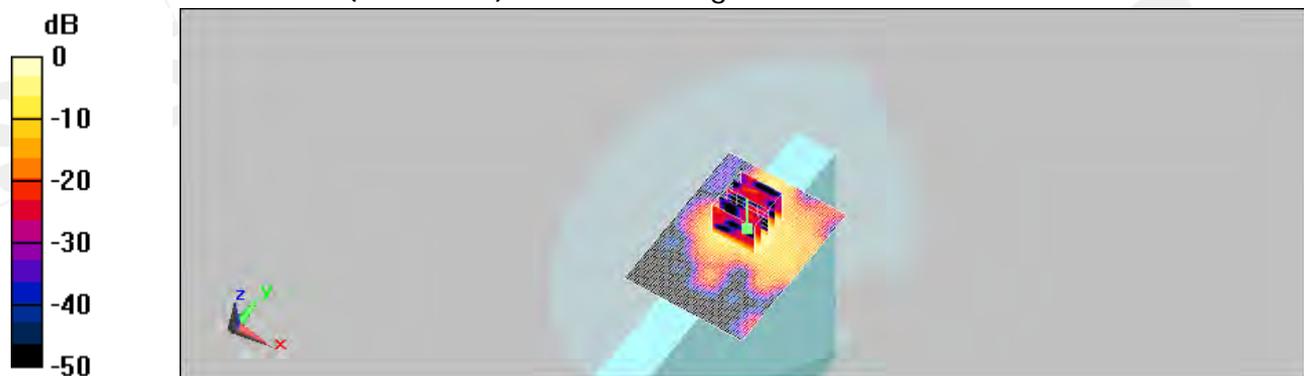
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.2 V/m; Power Drift = 0.130 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.525 mW/g; SAR(10 g) = 0.159 mW/g

Maximum value of SAR (measured) = 0.698 mW/g



0 dB = 0.698mW/g

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Date/Time: 01/19/2010 16:13:55

Configuration 6_CH120_WLAN 802.11a5.5G_Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

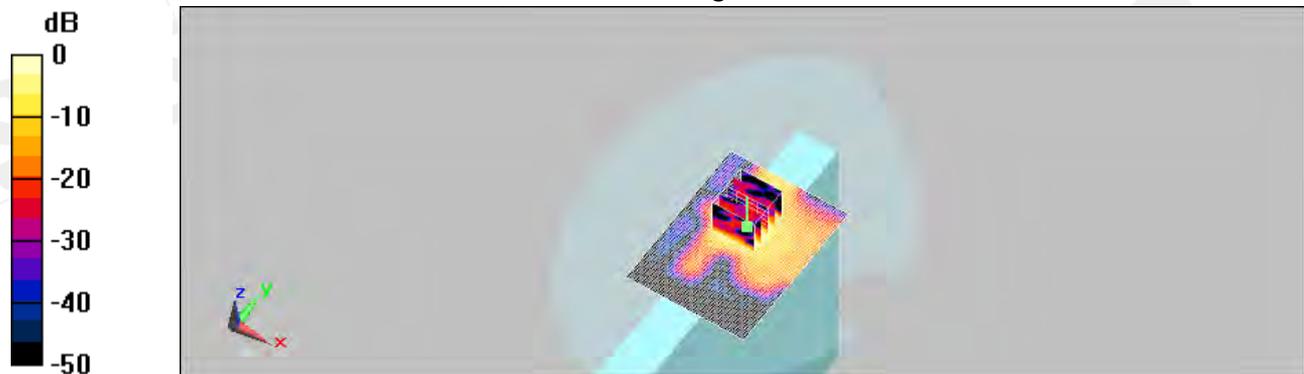
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.3 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.532 mW/g; SAR(10 g) = 0.153 mW/g

Maximum value of SAR (measured) = 0.776 mW/g



0 dB = 0.776mW/g

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Date/Time: 01/19/2010 16:41:27

Configuration 6_CH140_WLAN 802.11a5.5G_Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5700 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 5.95 \text{ mho/m}$; $\epsilon_r = 48.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.572 mW/g

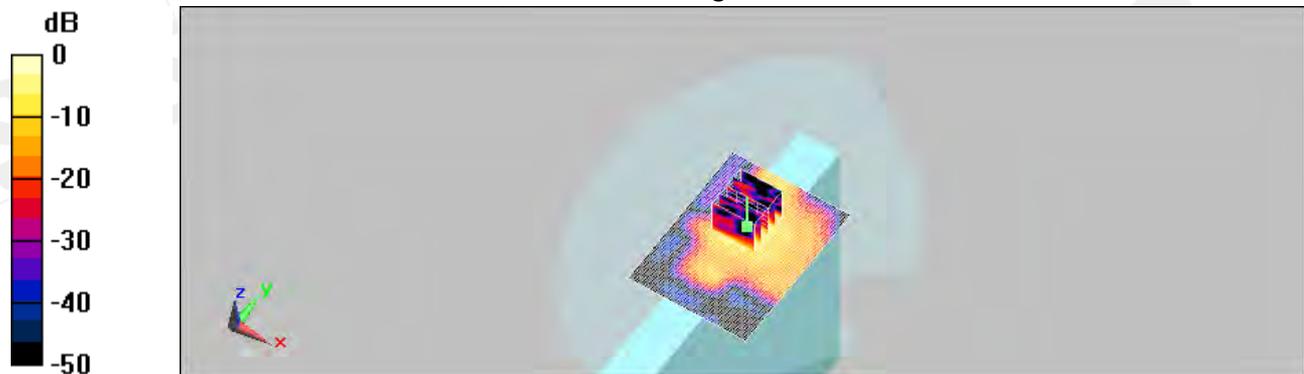
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.3 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.156 mW/g

Maximum value of SAR (measured) = 0.814 mW/g



0 dB = 0.814mW/g

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Date/Time: 01/19/2010 17:10:36

Configuration 2_CH120_WLAN 802.11a5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.033 mW/g

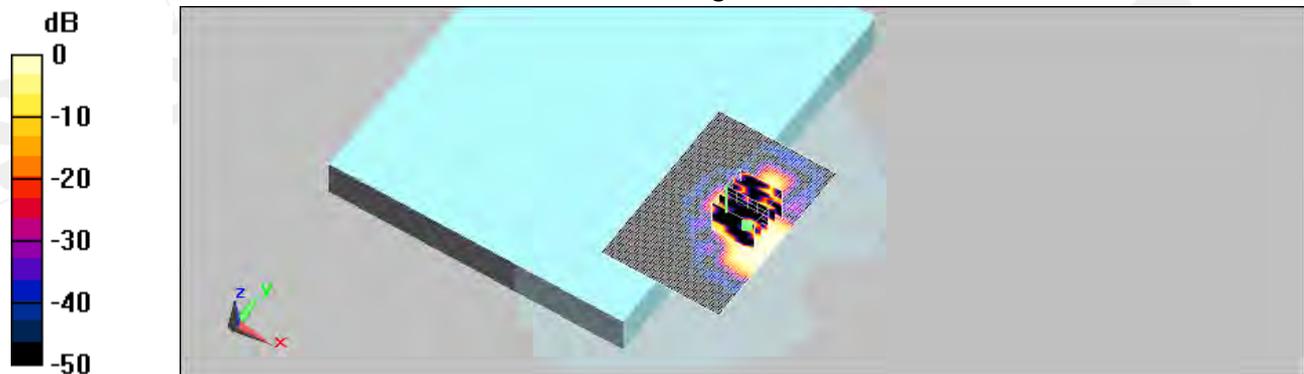
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.07 V/m; Power Drift = -0.115dB

Peak SAR (extrapolated) = 0.094 W/kg

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00703 mW/g

Maximum value of SAR (measured) = 0.017 mW/g



0 dB = 0.017mW/g

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Date/Time: 01/19/2010 17:37:47

Configuration 3_CH120_WLAN 802.11a5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.050 mW/g

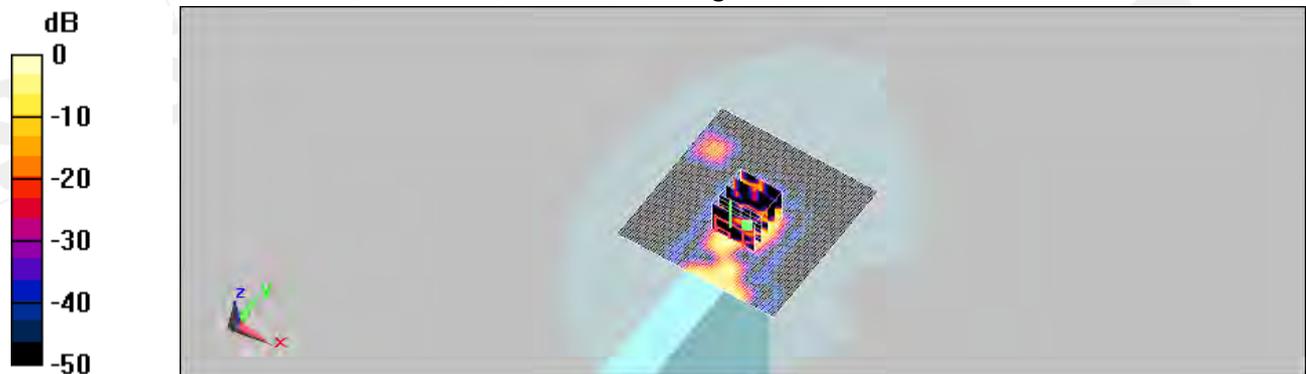
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.52 V/m; Power Drift = 0.129 dB

Peak SAR (extrapolated) = 0.120 W/kg

SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.00369 mW/g

Maximum value of SAR (measured) = 0.050 mW/g



0 dB = 0.050mW/g

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Date/Time: 01/19/2010 18:06:08

Configuration 4_CH120_WLAN 802.11a5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.00713 mW/g

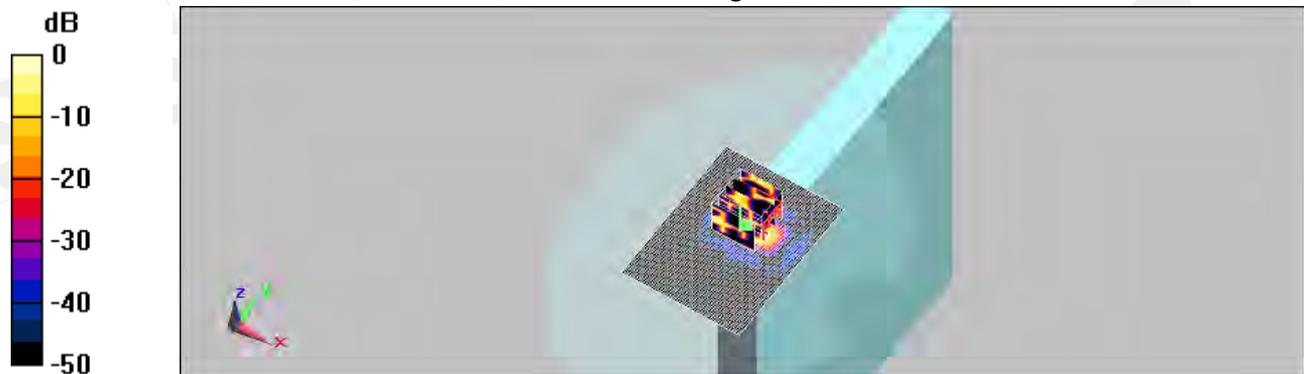
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.564 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 0.010 W/kg

SAR(1 g) = 0.000628 mW/g; SAR(10 g) = 0.000144 mW/g

Maximum value of SAR (measured) = 0.0068 mW/g



0 dB = 0.0068mW/g

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Date/Time: 01/19/2010 18:33:18

Configuration 6_CH100_WLAN 802.11a5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.76 \text{ mho/m}$; $\epsilon_r = 47.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.555 mW/g

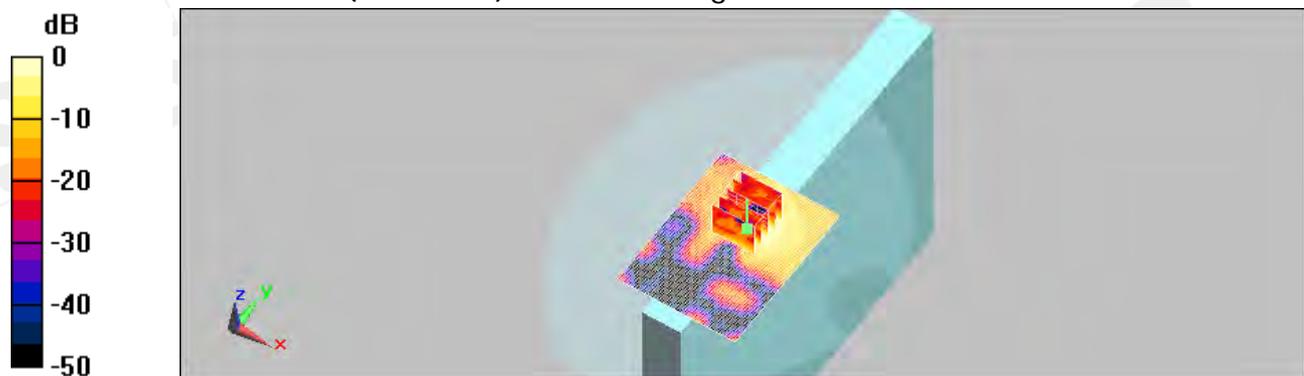
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.53 V/m; Power Drift = -0.174 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.131 mW/g

Maximum value of SAR (measured) = 0.484 mW/g



0 dB = 0.484mW/g

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Date/Time: 01/19/2010 19:01:51

Configuration 6_CH120_WLAN 802.11a5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.9 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.657 mW/g

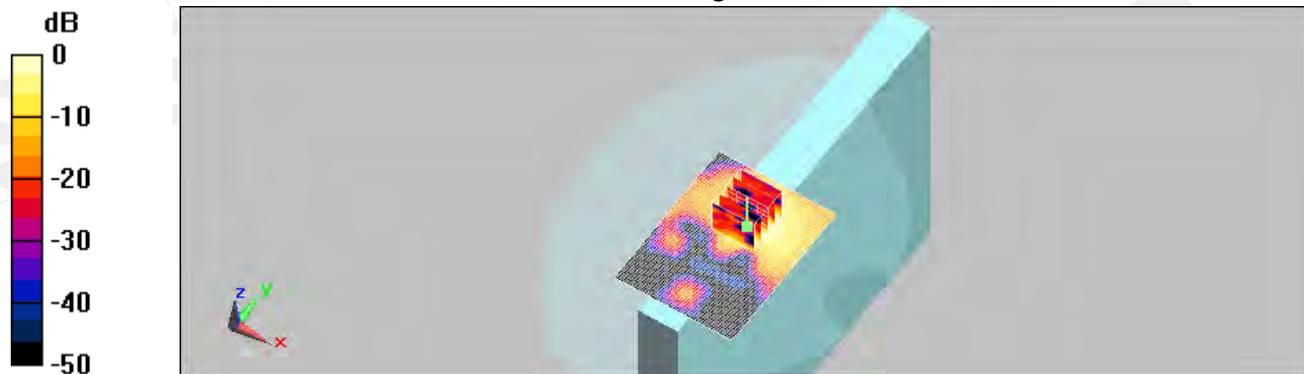
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.85 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.159 mW/g

Maximum value of SAR (measured) = 0.529 mW/g



0 dB = 0.529mW/g

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Date/Time: 01/19/2010 19:27:00

Configuration 6_CH140_WLAN 802.11a5.5G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5700 MHz; Duty Cycle: 1:1

Medium: Body 5000 Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 5.95 \text{ mho/m}$; $\epsilon_r = 48.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

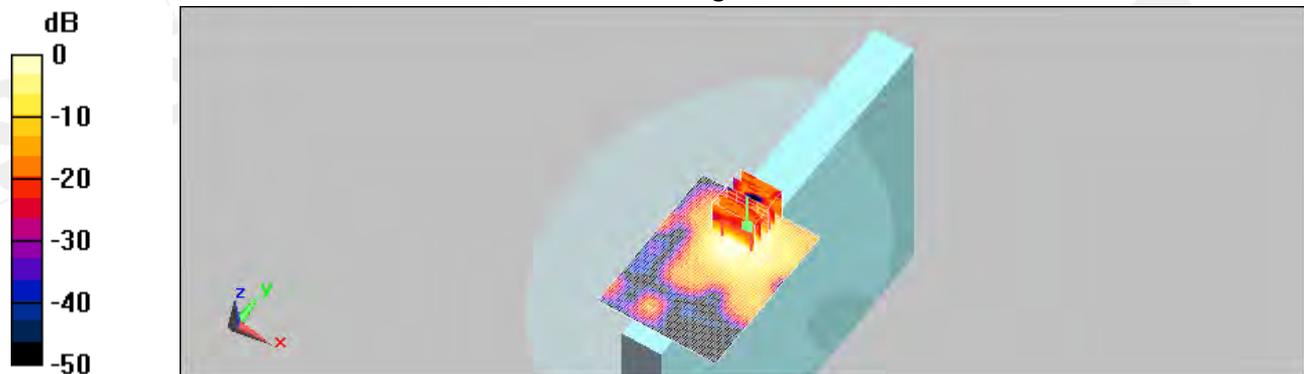
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.31 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.831 W/kg

SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.350 mW/g



0 dB = 0.350mW/g

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Date/Time: 01/22/2010 06:43:31

Configuration 2_CH157_WLAN 802.11a5.8G_Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

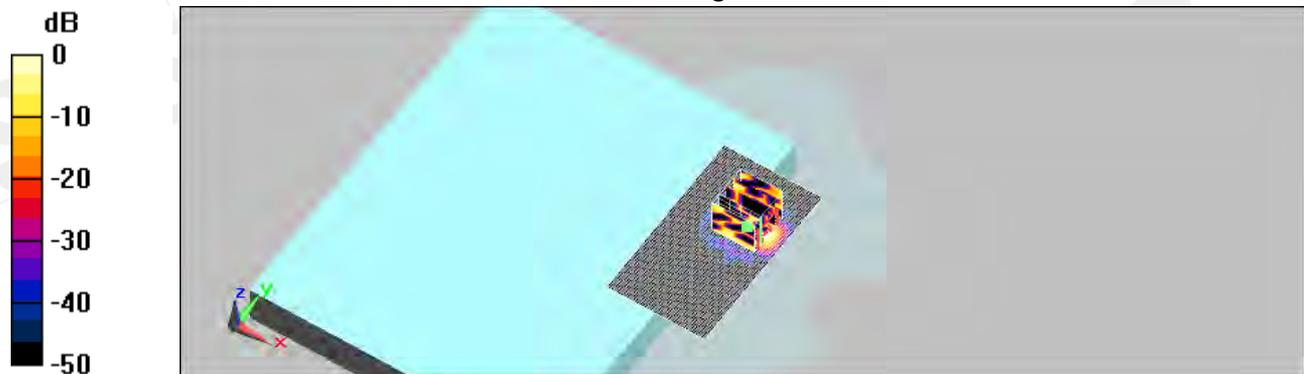
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.017 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.788 V/m; Power Drift = -0.14 dB
 Peak SAR (extrapolated) = 0.057 W/kg

SAR(1 g) = 0.00364 mW/g; SAR(10 g) = 0.000829 mW/g
 Maximum value of SAR (measured) = 0.013 mW/g



0 dB = 0.013mW/g

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Date/Time: 01/22/2010 07:10:09

Configuration 3_CH157_WLAN 802.11a5.8G_Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

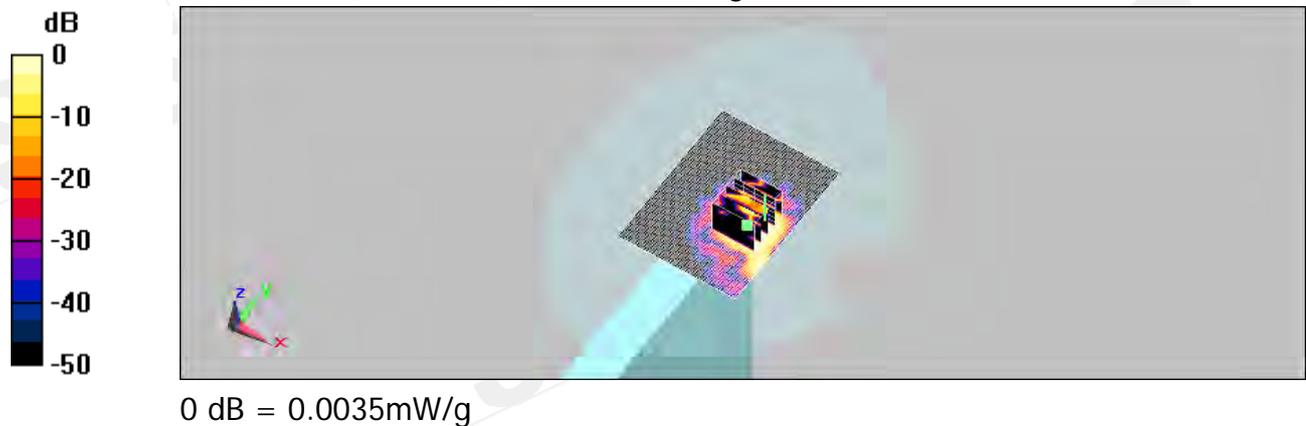
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00191 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.867 V/m; Power Drift = -0.21 dB
 Peak SAR (extrapolated) = 0.00808 W/kg

SAR(1 g) = 0.000363 mW/g; SAR(10 g) = 0.000122 mW/g
 Maximum value of SAR (measured) = 0.0035 mW/g



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Date/Time: 01/22/2010 07:37:53

Configuration 4_CH157_WLAN 802.11a5.8G_Main

DUT:HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz;Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

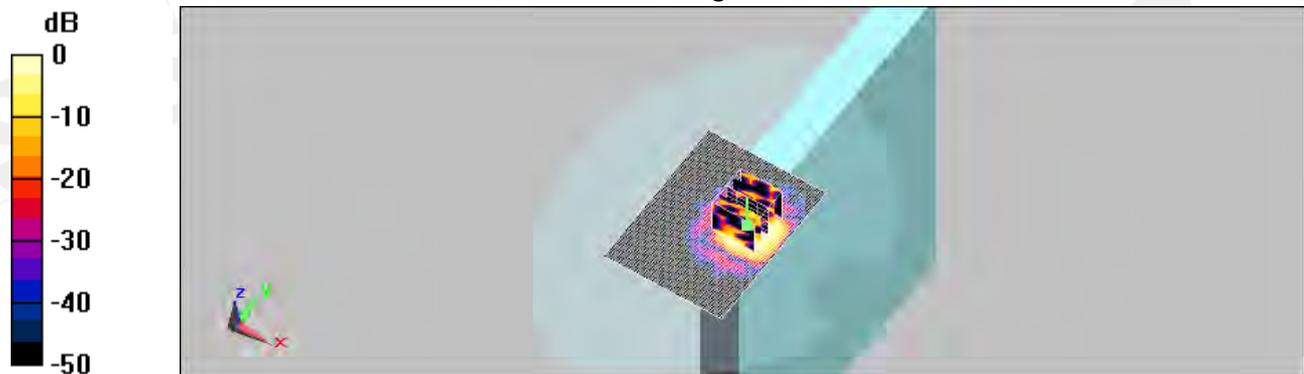
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.041 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.27 V/m; Power Drift = -0.157 dB
 Peak SAR (extrapolated) = 0.178 W/kg

SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.013 mW/g
 Maximum value of SAR (measured) = 0.032 mW/g



0 dB = 0.032mW/g

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Date/Time: 01/19/2010 08:05:34

Configuration 6_CH157_WLAN 802.11a5.8G_Main

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

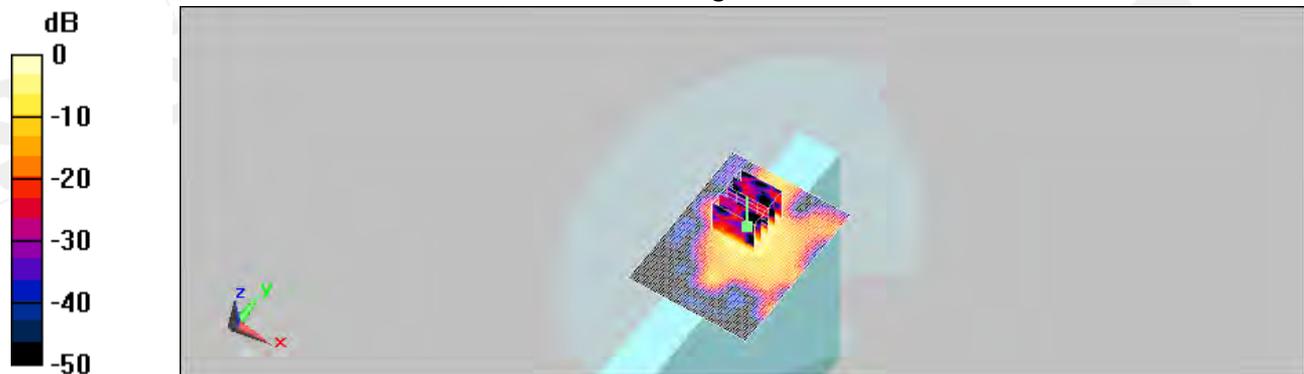
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.563 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 11.3 V/m; Power Drift = 0.165 dB
 Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.509 mW/g; SAR(10 g) = 0.151 mW/g
 Maximum value of SAR (measured) = 0.715 mW/g



0 dB = 0.715mW/g

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Date/Time: 01/22/2010 08:31:29

Configuration 2_CH157_WLAN 802.11a5.8G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

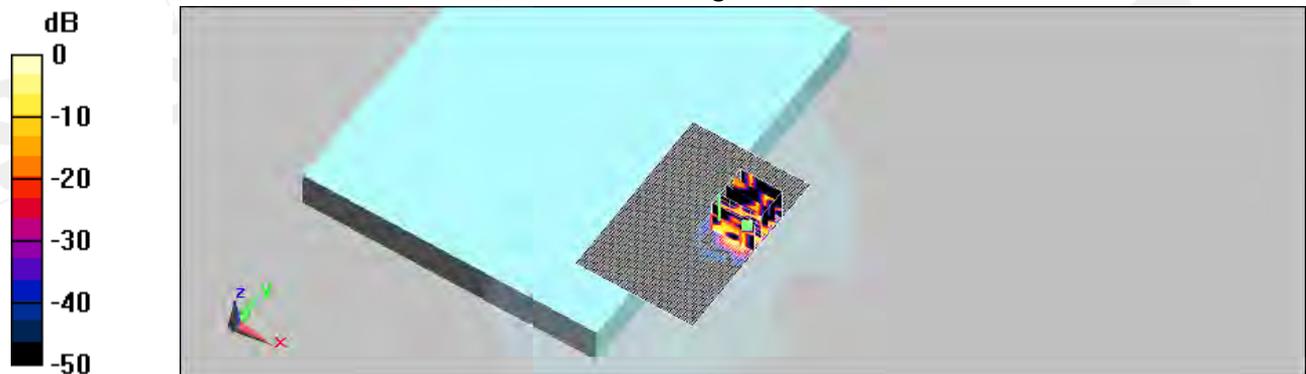
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.0185 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.552 V/m; Power Drift = 0.128 dB
 Peak SAR (extrapolated) = 0.076 W/kg

SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00291 mW/g
 Maximum value of SAR (measured) = 0.020 mW/g



0 dB = 0.020mW/g

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Date/Time: 01/22/2010 08:58:41

Configuration 3_CH157_WLAN 802.11a5.8G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

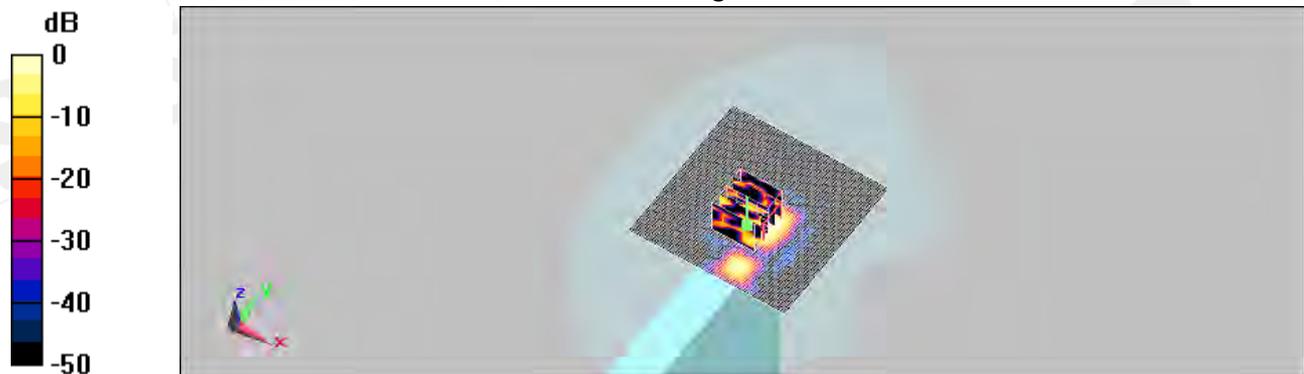
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (81x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.019 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.951 V/m; Power Drift = 0.119 dB
 Peak SAR (extrapolated) = 0.056 W/kg

SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00247 mW/g
 Maximum value of SAR (measured) = 0.020 mW/g



0 dB = 0.020mW/g

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Date/Time: 01/22/2010 09:26:29

Configuration 4_CH157_WLAN 802.11a5.8G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

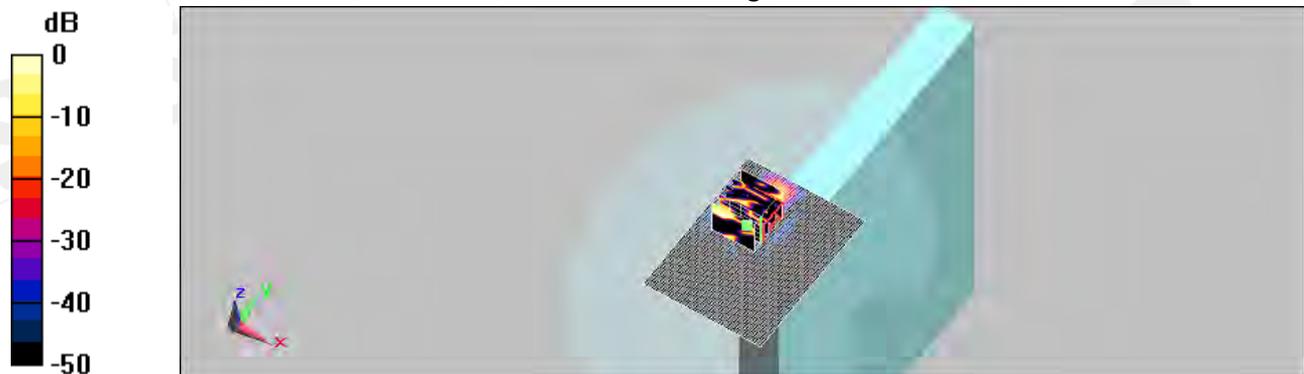
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.00157 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0.770 V/m; Power Drift = -0.046 dB
 Peak SAR (extrapolated) = 0.00322 W/kg

SAR(1 g) = 0.000203 mW/g; SAR(10 g) = 0.000098 mW/g
 Maximum value of SAR (measured) = 0.00432 mW/g



0 dB = 0.00432mW/g

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Date/Time: 01/22/2010 09:52:24

Configuration 6_CH157_WLAN 802.11a5.8G_Aux

DUT: HSTNN-W75C;

Communication System: WiFi a-FCC; Frequency: 5785 MHz; Duty Cycle: 1:1
 Medium: Body 5000 Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 6.15 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

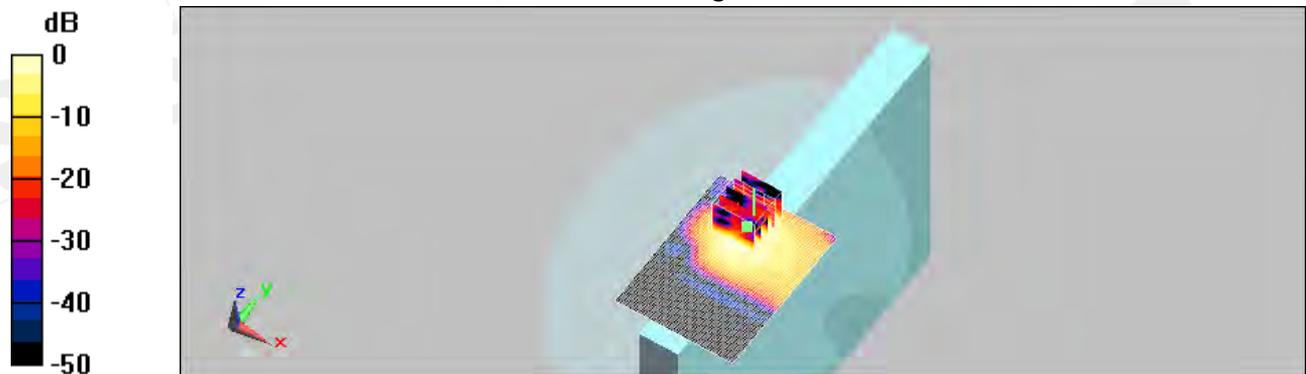
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.455 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 7.44 V/m; Power Drift = -0.119 dB
 Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.449 mW/g; SAR(10 g) = 0.158 mW/g
 Maximum value of SAR (measured) = 0.581 mW/g



0 dB = 0.581mW/g

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5. SAR System Performance Verification

Date/Time: 01/15/2010 00:36:24

DUT: Dipole 2450 MHz;

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

 Medium: HSL2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.52, 8.52, 8.52); Calibrated: 6/23/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=10mm, Pin=250mW, dist=3.4mm : Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 17.3 mW/g

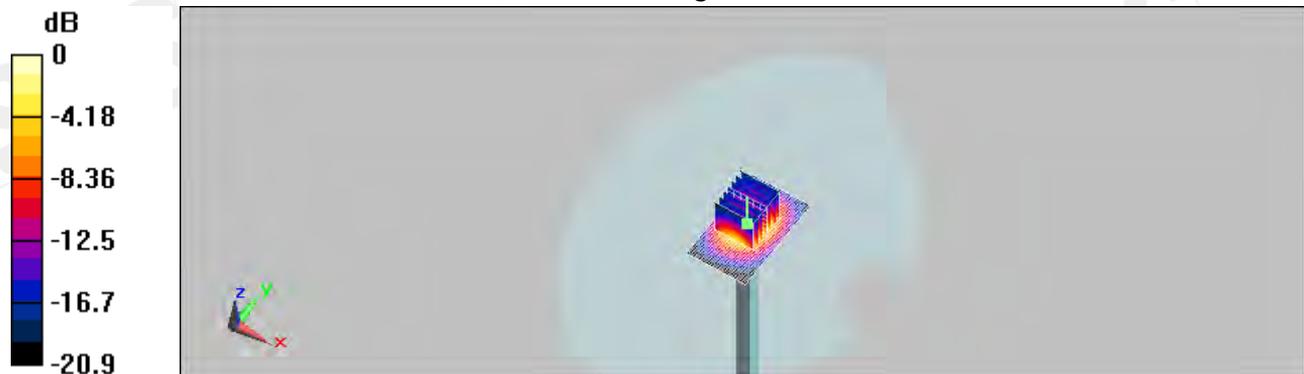
d=10mm, Pin=250mW, dist=3.4mm : Measurement grid: dx=5mm, dy=5mm,
 dz=5mm

Reference Value = 94 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 28.1 W/kg

SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.17 mW/g

Maximum value of SAR (measured) = 16.8 mW/g



0 dB = 16.8mW/g

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Date/Time: 01/15/2010 18:39:15

DUT: Dipole 5200MHz;

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: body 5200 Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 5.3 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.29, 4.29, 4.29); Calibrated: 8/26/2009
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=10mm, Pin=250mW, : Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.7 mW/g

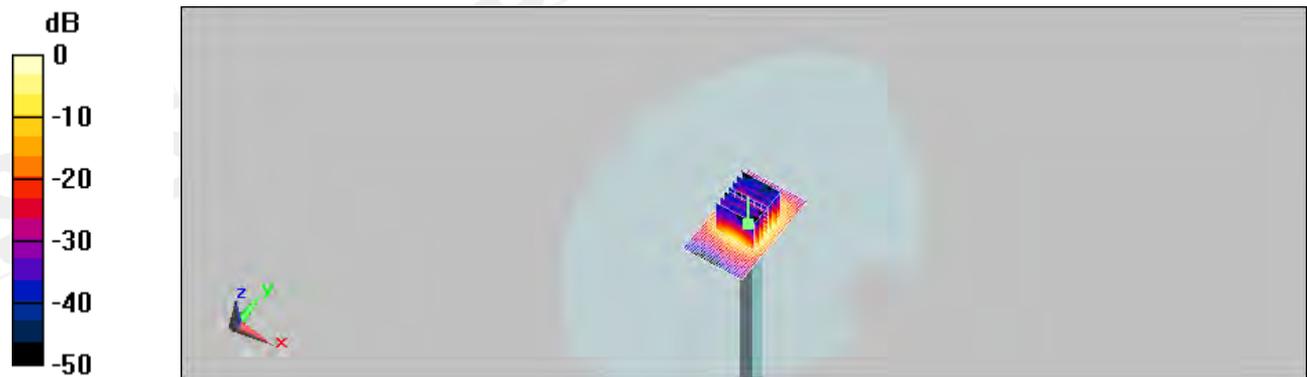
d=10mm, Pin=250mW, : Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.8 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 32.1 W/kg

SAR(1 g) = 7.22 mW/g; SAR(10 g) = 2.18 mW/g

Maximum value of SAR (measured) = 8.92 mW/g



0 dB = 8.92mW/g

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Date/Time: 01/19/2010 00:26:30

DUT: Dipole 5500MHz;

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: body 5500 Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.76 \text{ mho/m}$; $\epsilon_r = 47.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

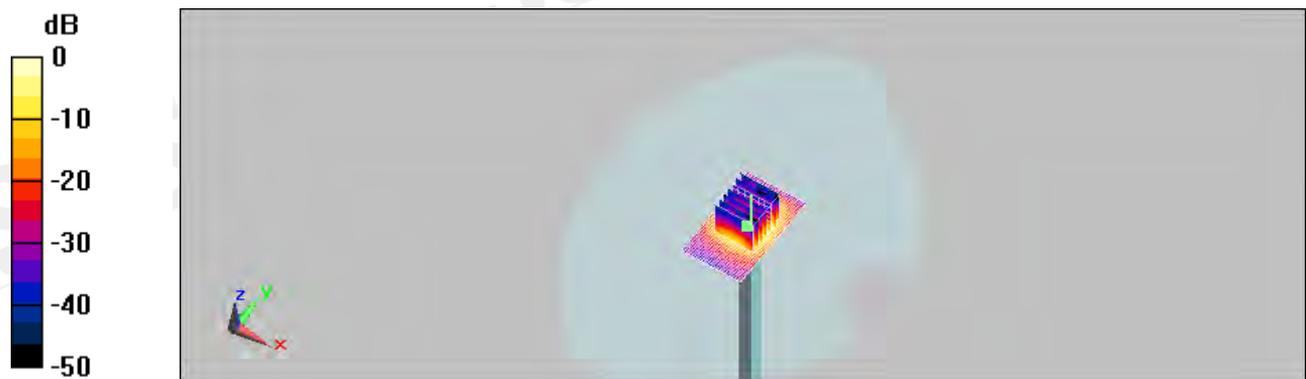
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(3.69, 3.69, 3.69); Calibrated: 8/26/2009
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=10mm, Pin=250mW, : Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.8 mW/g

d=10mm, Pin=250mW, : Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.2 V/m; Power Drift = -1.36 dB
Peak SAR (extrapolated) = 34.8 W/kg

SAR(1 g) = 7.96 mW/g; SAR(10 g) = 2.41 mW/g
Maximum value of SAR (measured) = 9.88 mW/g



0 dB = 9.88mW/g

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Date/Time: 01/19/2010 20:36:07

DUT: Dipole 5800MHz;

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: body 5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.17 \text{ mho/m}$; $\epsilon_r = 46.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=10mm, Pin=250mW, : Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.4 mW/g

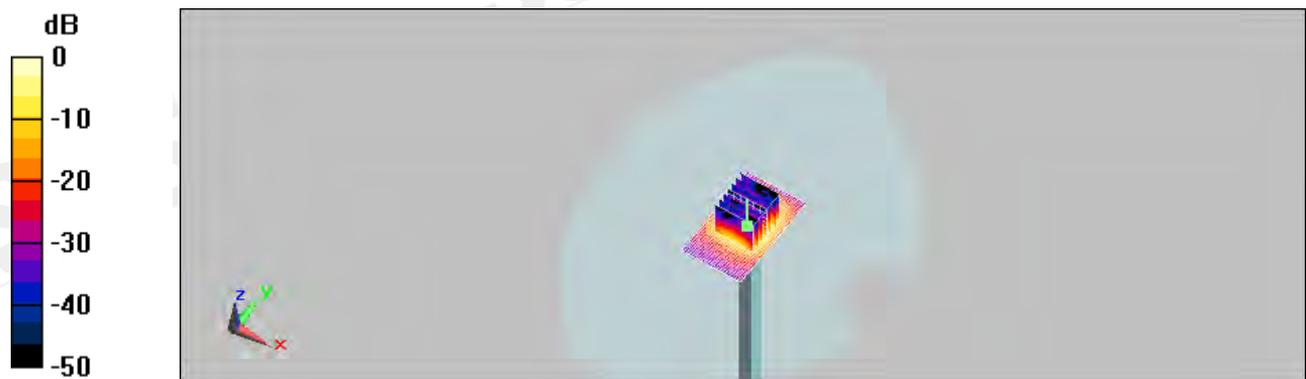
d=10mm, Pin=250mW, : Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45 V/m; Power Drift = -1.33 dB

Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 6.92 mW/g; SAR(10 g) = 2.1 mW/g

Maximum value of SAR (measured) = 8.58 mW/g



0 dB = 8.58mW/g

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Date/Time: 01/22/2010 00:35:07

DUT: Dipole 5800MHz;

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: body 5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.19 \text{ mho/m}$; $\epsilon_r = 47.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(4.05, 4.05, 4.05); Calibrated: 8/26/2009
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=10mm, Pin=250mW, : Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.4 mW/g

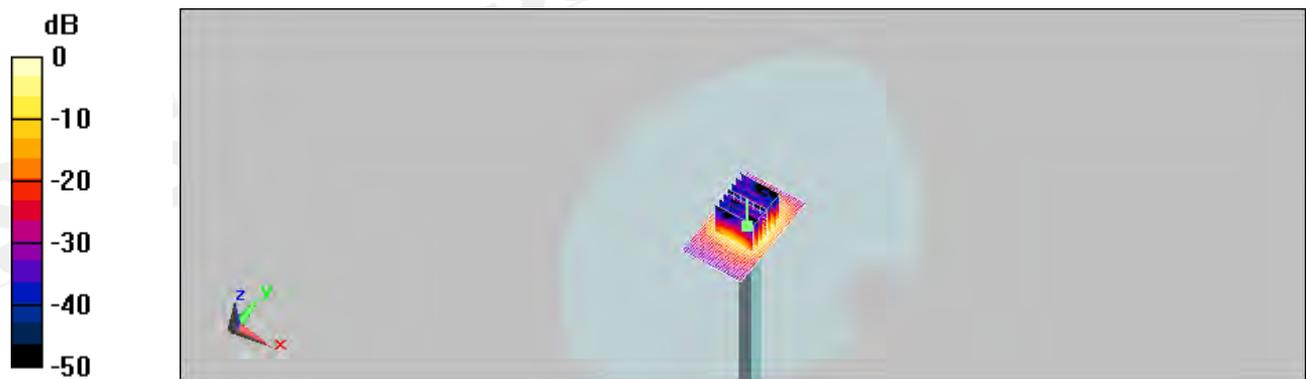
d=10mm, Pin=250mW, : Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45 V/m; Power Drift = -1.33 dB

Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 6.95 mW/g; SAR(10 g) = 2.19 mW/g

Maximum value of SAR (measured) = 8.58 mW/g



0 dB = 8.58mW/g

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6. DAE & Probe Calibration certificate

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



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S Swiss Calibration Service

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

Accreditation No.: SCS 108

Client **SGS (Auden)**

Certificate No: DAE4-856_May09

CALIBRATION CERTIFICATE

Object: **DAE4 - SD 000 D04 BJ - SN: 856**

Calibration procedure(s): **QA CAL-06.v12
Calibration procedure for the data acquisition electronics (DAE)**

Calibration date: **May 26, 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 (Certificate No.)	Scheduled Calibration
Fluke Process Calibrator Type 702	SN: 6295803	30-Sep-08 (No: 7673)	Sep-09
Keithley Multimeter Type 2001	SN: 0810278	30-Sep-08 (No: 7670)	Sep-09
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Calibrator Box V1.1	SE UMS 006 AB 1004	06-Jun-08 (in house check)	In house check: Jun-09

Calibrated by:	Name	Function	Signature
	Dominique Steffen	Technician	
Approved by:	Name	Function	Signature
	Fin Bornholt	R&D Director	

Issued: May 26, 2009

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: DAE4-856_May09

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**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



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

Accreditation No.: **SCS 108**

Client **SGS (Auden)**

Certificate No: **EX3-3526_Aug09**

CALIBRATION CERTIFICATE

Object: **EX3DV3 - SN:3526**

Calibration procedure(s): **QA CAL-01.v6, QA CAL-14.v3, QA CAL-23.v3 and QA CAL-25.v2
Calibration procedure for dosimetric E-field probes**

Calibration date: **August 26, 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 (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	1-Apr-09 (No. 217-01030)	Apr-10
Power sensor E4412A	MY41495277	1-Apr-09 (No. 217-01030)	Apr-10
Power sensor E4412A	MY41498087	1-Apr-09 (No. 217-01030)	Apr-10
Reference 3 dB Attenuator	SN: S5054 (3c)	31-Mar-09 (No. 217-01026)	Mar-10
Reference 20 dB Attenuator	SN: S5086 (20b)	31-Mar-09 (No. 217-01028)	Mar-10
Reference 30 dB Attenuator	SN: S5129 (30b)	31-Mar-09 (No. 217-01027)	Mar-10
Reference Probe ES3DV2	SN: 3013	2-Jan-09 (No. ES3-3013_Jan09)	Jan-10
DAE4	SN: 660	9-Sep-08 (No. DAE4-660_Sep08)	Sep-09

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-08)	In house check: Oct-09

	Name	Function	Signature
Calibrated by:	Katja Pokovic	Technical Manager	
Approved by:	Niels Kuster	Quality Manager	

Issued: August 26, 2009

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Certificate No: EX3-3526_Aug09

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Accreditation No.: SCS 108

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- **NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not effect the E^2 -field uncertainty inside TSL (see below ConvF).
- **NORM(f)_{x,y,z}** = NORM_{x,y,z} * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- **DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep (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 $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- **Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- **Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

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EX3DV3 SN:3526

August 26, 2009

Probe EX3DV3

SN:3526

Manufactured:	March 19, 2004
Last calibrated:	August 26, 2008
Recalibrated:	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 Space^A
Diode Compression^B

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

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect
TSL 900 MHz Typical SAR gradient: 5 % per mm

		2.0 mm	3.0 mm
Sensor Center to Phantom Surface Distance			
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

		2.0 mm	3.0 mm
Sensor Center to Phantom Surface Distance			
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%.

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

^B Numerical linearization parameter: uncertainty not required.

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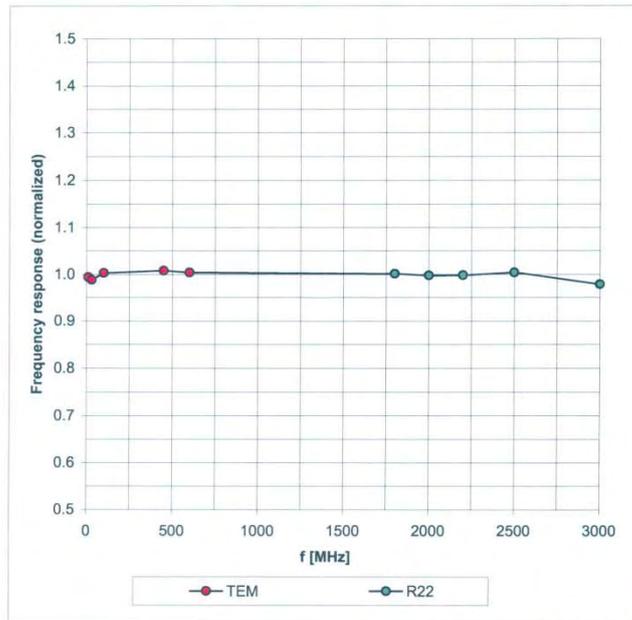
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EX3DV3 SN:3526

August 26, 2009

Frequency Response of E-Field

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



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

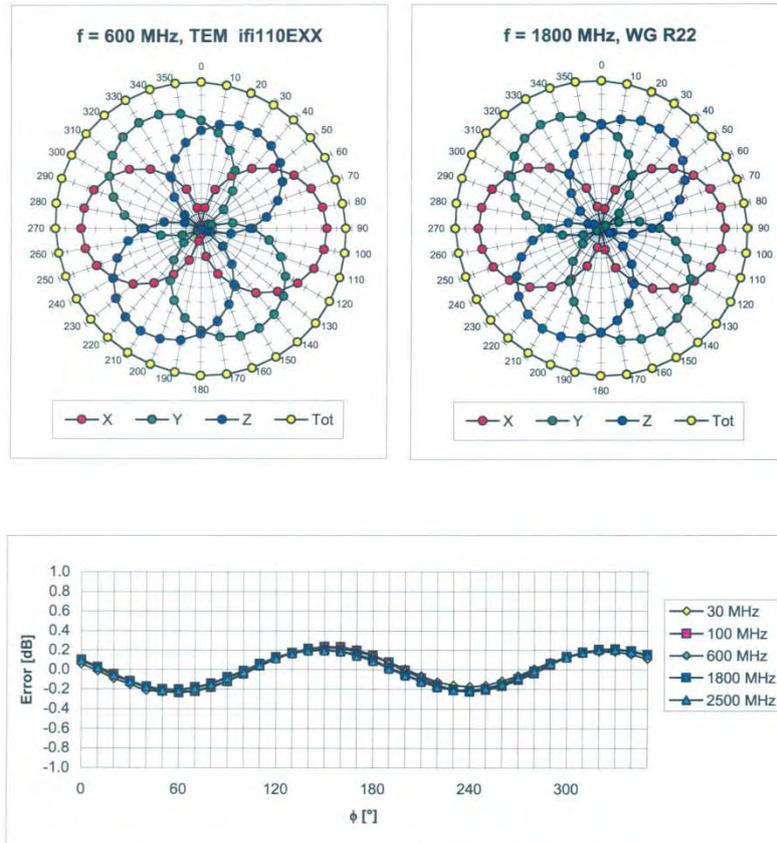
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EX3DV3 SN:3526

August 26, 2009

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



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Certificate No: EX3-3526_Aug09

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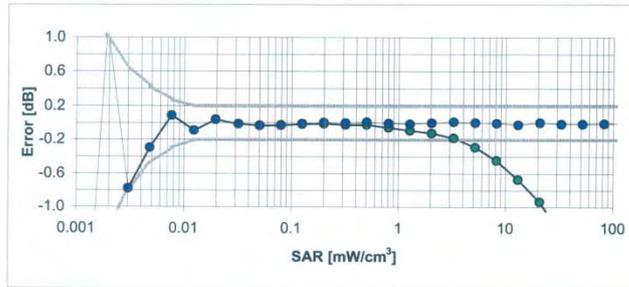
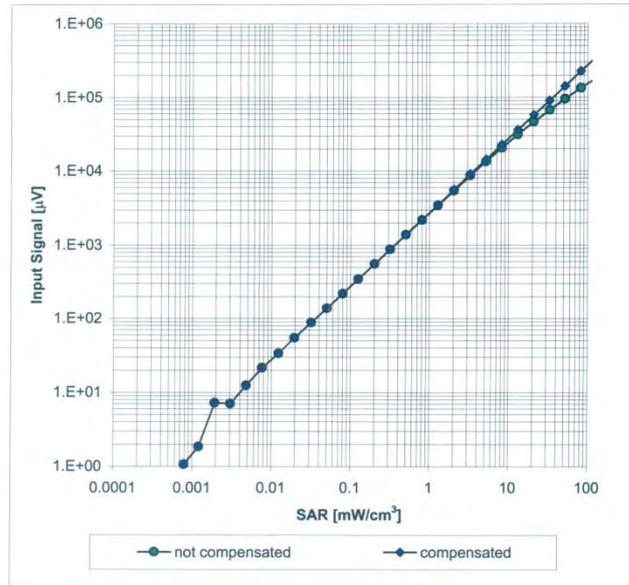
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EX3DV3 SN:3526

August 26, 2009

Dynamic Range f(SAR_{head}) (Waveguide R22, f = 1800 MHz)



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

Certificate No: EX3-3526_Aug09

Page 7 of 9

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EX3DV3 SN:3526

August 26, 2009

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 ± 5%	4.76 ± 5%	0.40	1.80	5.06 ± 13.1% (k=2)
5600	± 50 / ± 100	Head	35.5 ± 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 ± 5%	0.60	1.90	4.05 ± 13.1% (k=2)

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

Certificate No: EX3-3526_Aug09

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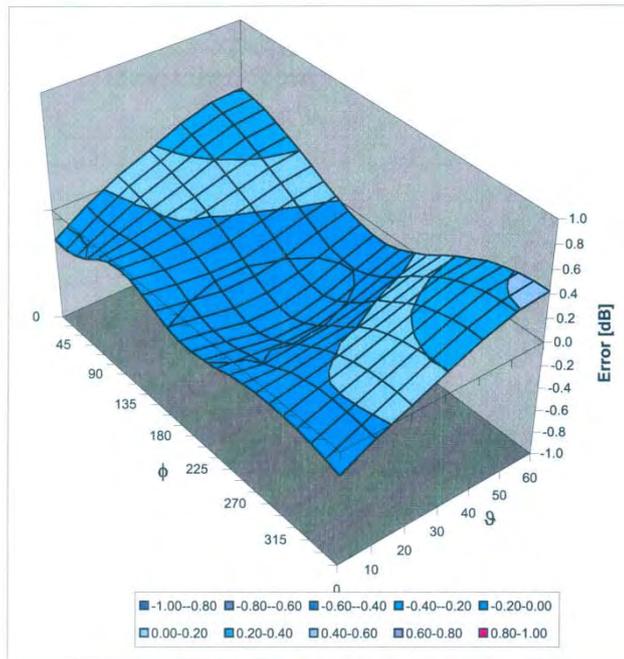
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EX3DV3 SN:3526

August 26, 2009

Deviation from Isotropy in HSL

Error (ϕ , θ), $f = 900$ MHz



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)

Certificate No: EX3-3526_Aug09

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7. Uncertainty Analysis

DASY4 Uncertainty Budget
According to IEEE P1528 [1]

Error Description	Uncertainty value	Prob. Dist.	Div.	(c_i) 1g	(c_i) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(v_i) v_{eff}
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 %	∞
Response Time	±0.8 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %	∞
Integration Time	±2.6 %	R	$\sqrt{3}$	1	1	±1.5 %	±1.5 %	∞
RF Ambient Conditions	±3.0 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
Probe Positioner	±0.4 %	R	$\sqrt{3}$	1	1	±0.2 %	±0.2 %	∞
Probe Positioning	±2.9 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
Max. SAR Eval.	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
Test Sample Related								
Device Positioning	±2.9 %	N	1	1	1	±2.9 %	±2.9 %	875
Device Holder	±3.6 %	N	1	1	1	±3.6 %	±3.6 %	5
Power Drift	±5.0 %	R	$\sqrt{3}$	1	1	±2.9 %	±2.9 %	∞
Phantom and Setup								
Phantom Uncertainty	±4.0 %	R	$\sqrt{3}$	1	1	±2.3 %	±2.3 %	∞
Liquid Conductivity (target)	±5.0 %	R	$\sqrt{3}$	0.64	0.43	±1.8 %	±1.2 %	∞
Liquid Conductivity (meas.)	±2.5 %	N	1	0.64	0.43	±1.6 %	±1.1 %	∞
Liquid Permittivity (target)	±5.0 %	R	$\sqrt{3}$	0.6	0.49	±1.7 %	±1.4 %	∞
Liquid Permittivity (meas.)	±2.5 %	N	1	0.6	0.49	±1.5 %	±1.2 %	∞
Combined Std. Uncertainty						±10.3 %	±10.0 %	331
Expanded STD Uncertainty						±20.6 %	±20.1 %	

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8. Phantom Description

Schmid & Partner Engineering AG



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

Certificate of Conformity / First Article Inspection

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

Tests

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

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

- [1] CENELEC EN 50351
- [2] IEEE Std 1528-2003
- [3] IEC 62209 Part 1
- [4] FCC OET Bulletin 65, Supplement C, Edition 01-01
- (*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of the other documents.

Conformity

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

Date 07.07.2005

Signature / Stamp



 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

Doc No 551 - QD 000 P40 C - F

Page 1 (1)

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9. System Validation from Original equipment supplier

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



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

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

Accreditation No.: SCS 108

Client **SGS (Auden)**

Certificate No: D2450V2-727_Apr09

CALIBRATION CERTIFICATE

Object	D2450V2 - SN: 727		
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
Calibrated by:	Name Jeton Kastrati	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature
			Issued: April 28, 2009
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

Certificate No: D2450V2-727_Apr09

Page 1 of 9

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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; $\epsilon_r = 54.4$; $\rho = 1000$ 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

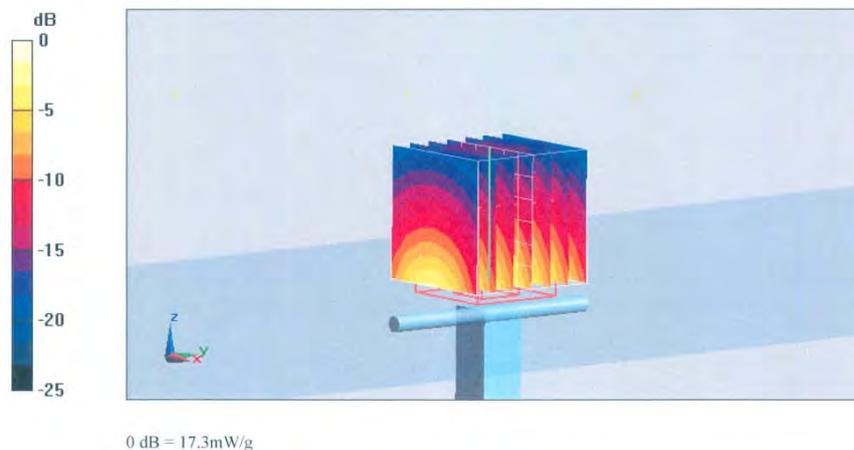
Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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/g

Maximum value of SAR (measured) = 17.3 mW/g



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



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

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

Accreditation No.: **SCS 108**

Client **SGS (Auden)**

Certificate No: **D5GHzV2-1023_Mar09**

CALIBRATION CERTIFICATE

Object **D5GHzV2 - SN: 1023**

Calibration procedure(s) **QA CAL-22.v1
 Calibration procedure for dipole validation kits between 3-6 GHz**

Calibration date: **March 13, 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 (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)	01-Jul-08 (No. 217-00864)	Jul-09
Type-N mismatch combination	SN: 5047.2 / 06327	01-Jul-08 (No. 217-00867)	Jul-09
Reference Probe EX3DV4	SN: 3503	11-Mar-09 (No. EX3-3503_Mar09)	Mar-10
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

Calibrated by:	Name	Function	Signature
	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: March 17, 2009

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DASY5 Validation Report for Body TSL

Date/Time: 13.03.2009 12:53:56

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 5GHz; Type: D5GHz; Serial: D5GHzV2 - SN:1023

Communication System: CW-5GHz; Frequency: 5200 MHz Frequency: 5500 MHz Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: MSL 5800 MHz

 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.3$ mho/m; $\epsilon_r = 47.7$; $\rho = 1000$ kg/m³ Medium parameters used: $f = 5500$ MHz; $\sigma = 5.68$ mho/m; $\epsilon_r = 47$; $\rho = 1000$ kg/m³ Medium parameters used: $f = 5800$ MHz; $\sigma = 6.05$ mho/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

DASY5 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(4.88, 4.88, 4.88)ConvF(4.37, 4.37, 4.37)ConvF(4.57, 4.57, 4.57); Calibrated: 11.03.2009
- Sensor-Surface: 2mm (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 13.2 Build 87

d=10mm, Pin=100mW, f=5200 MHz/Area Scan (61x61x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 15.7 mW/g

d=10mm, Pin=100mW, f=5200 MHz/Zoom Scan (8x8x10), dist=2mm (8x8x10)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 49.5 V/m; Power Drift = -0.00808 dB

Peak SAR (extrapolated) = 27.9 W/kg

SAR(1 g) = 7.4 mW/g; SAR(10 g) = 2.06 mW/g

Maximum value of SAR (measured) = 15.2 mW/g

d=10mm, Pin=100mW, f=5500 MHz/Zoom Scan (8x8x10), dist=2mm (8x8x10)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 49.1 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 31.6 W/kg

SAR(1 g) = 7.85 mW/g; SAR(10 g) = 2.17 mW/g

Maximum value of SAR (measured) = 16.5 mW/g

d=10mm, Pin=100mW, f=5800 MHz/Zoom Scan (8x8x10), dist=2mm (8x8x10)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 44.9 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 7.09 mW/g; SAR(10 g) = 1.95 mW/g

Maximum value of SAR (measured) = 15 mW/g

End of 1st part of report

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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