



SAR Test Report

Product Name : Notebook PC

Model No. : TAICHI21

Applicant : ASUSTeK COMPUTER INC.

Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Date of Receipt : 2012/08/20

Issued Date : 2012/09/28

Report No. : 128392R-HPUSP09V01

Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date: 2012/09/28

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Product Name : Notebook PC
 Applicant : ASUSTeK COMPUTER INC.
 Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
 Manufacturer : 1. PEGATRON CORPORATION Taoyuan Mfg
 2. Protek (Shanghai) Limited.
 3. Tech-Com(Shanghai) Computer Co. Ltd.
 4. Tech-Front (Chongqing) Computer Co.,Ltd.
 5. Compal Information Technology (Kunshan) Co., Ltd
 6. Digitek (Chongqing) Limited
 Model No. : TAICHI21
 Trade Name : ASUS
 FCC ID : MSQTAICHI21
 Applicable Standard : FCC Oet65 Supplement C June 2001
 IEEE Std. 1528-2003
 47CFR § 2.1093
 Measurement : KDB 447498 , KDB 248227, KDB616217
 procedures
 Test Result : Max. SAR Measurement (1g)
 802.11b/g(2.4GHz): **0.910** W/kg
 802.11a(5 GHz): **1.50** W/kg
 Application Type : Certification

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1. General Information

1.1 EUT Description

Product Name	Notebook PC
Trade Name	ASUS
Model No.	TAICHI21
FCC ID	MSQTAICHI21
TX Frequency	802.11b/g/n : 2412MHz~2462MHz 802.11a/n : 5150MHz~5825MHz
Wlan Modular	MFR: Intel, M/N: 6235ANHMW
Type of Modulation	DSSS/OFDM/BPSK/QPSK/16QAM/64QAM
Antenna Type	PIFA
Device Category	Portable
RF Exposure Environment	Uncontrolled
Max. Output Power (Conducted)	802.11b: 13.05 dBm 802.11g: 14.72 dBm 802.11a: 14.95 dBm

* Note :

- (1) This product has Dual-Monitor. the user could switch via the program to control the output of the monitors. As the screen shows on the external monitor, the user could close the Screen and use it as a tablet PC .So we evaluate SAR testing with 2 mode NB-Mode & Tablet-Mode .
- (2) This product can also choose the Mirror-Mode & Dual-Screen Mode , it will not be effect the result of SAR evaluation.
- (3) Per FCC KDB 616217 D01,
 - (i) The output power of BT is less than 10mW, so SAR not required.
 - (ii) BT & WLAN can't work simultaneously, thus simultaneous mode is no need.

1.2 Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	INPAQ	WA-F-LB-04-004	2.61dBi For 2.4GHz 2.19dBi For 5GHz
2	Foxconn	WDAN-IJU26V01-DH	2.77dBi For 2.4GHz 2.97dBi For 5GHz

* Note : Only the higher gain antenna was tested and recorded in this report.

1.3 Test Environment

Ambient conditions in the laboratory:

Test Date: Sep 20, 2012

Items	Required	Actual
Temperature (°C)	18-25	22.1± 2
Humidity (%RH)	30-70	51

Test Date: Sep 22, 2012

Items	Required	Actual
Temperature (°C)	18-25	21.4± 2
Humidity (%RH)	30-70	55

Site Description:

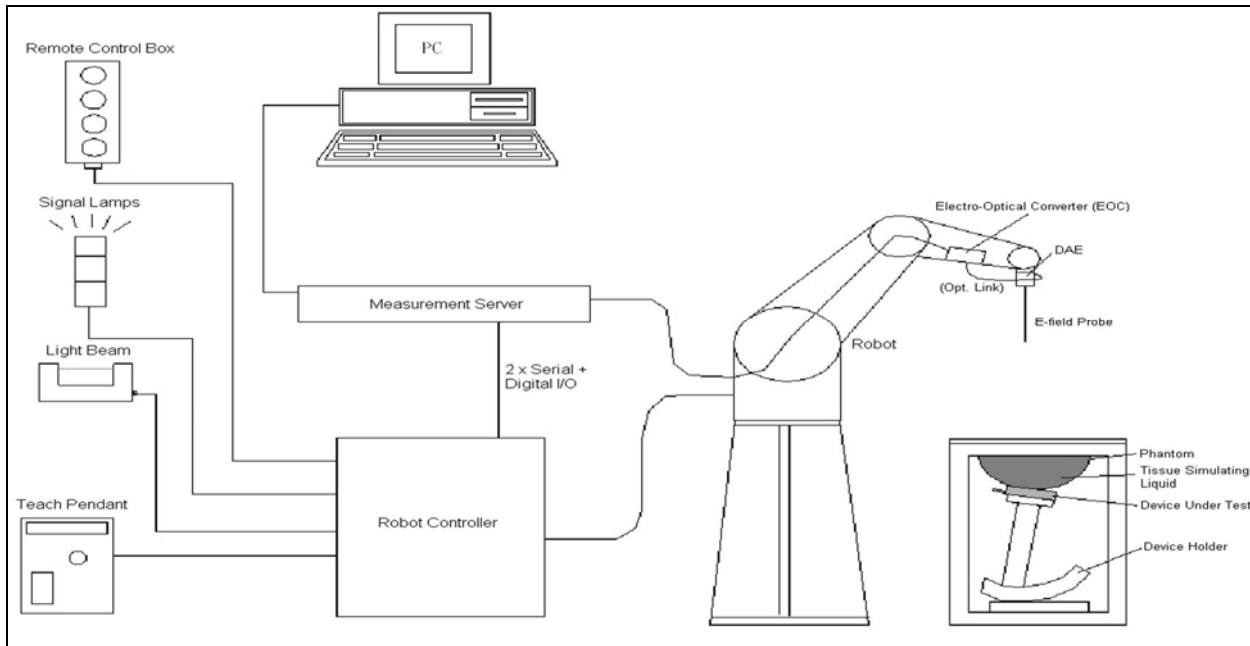
Accredited by TAF
Accredited Number: 0914
Effective through: December 12, 2014

Site Name: Quietek Corporation

Site Address: No. 5-22, Rueishu Keng, Linkou Dist.,
New Taipei City 24451,
Taiwan. R.O.C.
TEL: 886-2-8601-3788 / FAX: 886-2-8601-3789
E-Mail: service@quietek.com

2. SAR Measurement System

2.1 DASY5 System Description



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

- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

2.1.1 Applications

Predefined procedures and evaluations for automated compliance testing with all worldwide standards, e.g., IEEE 1528, OET 65, IEC 62209-1, IEC 62209-2, EN 50360, EN 50383 and others.

2.1.2 Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 10mm² step integral, with 1mm interpolation used to locate the peak SAR area used for zoom scan assessments.

When an Area Scan has measured all reachable points, it computes the field maxima found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE 1528-2003, EN 50361 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan).

2.1.3 Zoom Scan (Cube Scan Averaging)

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1 g cube is 10mm, with the side length of the 10 g cube 21,5mm.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 5x5x7 (8mmx8mmx5mm) providing a volume of 32mm in the X & Y axis, and 30mm in the Z axis.

2.1.4 Uncertainty of Inter-/Extrapolation and Averaging

In order to evaluate the uncertainty of the interpolation, extrapolation and averaged SAR calculation algorithms of the Postprocessor, DASY5 allows the generation of measurement grids which are artificially predefined by analytically based test functions. Therefore, the grids of area scans and zoom scans can be filled with uncertainty test data, according to the SAR benchmark functions of IEEE 1528. The three analytical functions shown in equations as below are used to describe the possible range of the expected SAR distributions for the tested handsets. The field gradients are covered by the spatially flat

distribution f_1 , the spatially steep distribution f_3 and f_2 accounts for H-field cancellation on the phantom/tissue surface.

$$f_1(x, y, z) = Ae^{-\frac{z}{2a}} \cos^2 \left(\frac{\pi}{2} \frac{\sqrt{x'^2 + y'^2}}{5a} \right)$$

$$f_2(x, y, z) = Ae^{-\frac{z}{a}} \frac{a^2}{a^2 + x'^2} \left(3 - e^{-\frac{2z}{a}} \right) \cos^2 \left(\frac{\pi}{2} \frac{y'}{3a} \right)$$

$$f_3(x, y, z) = A \frac{a^2}{\frac{a^2}{4} + x'^2 + y'^2} \left(e^{-\frac{2z}{a}} + \frac{a^2}{2(a + 2z)^2} \right)$$

2.2 DASY5 E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SPEAG.

The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528, EN 62209-1, IEC 62209, etc.) under ISO 17025. The calibration data are in Appendix D.

2.2.1 Isotropic E-Field Probe Specification

Model	Ex3DV4	
Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz to 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

2.3 Boundary Detection Unit and Probe Mounting Device

The DASY probes use a precise connector and an additional holder for the probe, consisting of a plastic tube and a flexible silicon ring to center the probe. The connector at the DAE is flexibly mounted and held in the default position with magnets and springs. Two switching systems in the connector mount detect frontal and lateral probe collisions and trigger the necessary software response.



2.4 DATA Acquisition Electronics (DAE) and Measurement Server

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit.

Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE4 is 200M Ohm; the inputs are symmetrical and floating. Common mode rejection is above 80dB.



The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz intel ULV Celeron, 128MB chipdisk and 128MB RAM. The necessary circuits for communication with the DAE electronics box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.



2.5 Robot

The DASY5 system uses the high precision robots TX90 XL type out of the newer series from Stäubli SA (France). For the 6-axis controller DASY5 system, the CS8C robot controller version from Stäubli is used.

The XL robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)
- 6-axis controller



2.6 Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.

The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



2.7 Device Holder

The DASY5 device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR).

Thus the device needs no repositioning when changing the angles.

The DASY5 device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon_r = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



2.8 SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

- Left head
- Right head
- Flat phantom



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

3. Tissue Simulating Liquid

3.1 The composition of the tissue simulating liquid

INGREDIENT (% Weight)	2450MHz Head	2450MHz Body	5200MHz Body	5800MHz Body
Water	46.7	73.2	76	75.68
Salt	0.00	0.04	0.00	0.43
Sugar	0.00	0.00	0.00	0.00
HEC	0.00	0.00	0.00	0.00
Preventol	0.00	0.00	0.00	0.00
DGBE	53.3	26.7	4.44	4.42
Triton X-100	0.00	0.00	19.56	19.47

3.2 Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using APREL Dielectric Probe Kit and Anritsu MS4623B Vector Network Analyzer.

Body Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
2450 MHz	Reference result ± 5% window	52.7 50.065 to 55.335	1.95 1.8525 to 2.0475	N/A
	22-Sep-12	54.03	1.92	20.4
2412 MHz	Low channel	54.69	1.89	20.4
2437 MHz	Mid channel	54.17	1.91	20.4
2462 MHz	High channel	53.72	1.93	20.4

Body Tissue Simulant Measurement

Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
5200MHz	Reference result ± 5% window	49 46.55 to 51.45	5.3 5.035 to 5.565	N/A
	20-Sep-12	50.14	5.19	20.8
5180 MHz	Low channel	50.37	5.14	20.8
5260 MHz	Mid channel	49.57	5.31	20.8
5320 MHz	High channel	49.04	5.43	20.8

Body Tissue Simulant Measurement

Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
5500MHz	Reference result ± 5% window	48.6 46.19 to 51.03	5.65 5.367 to 5.9325	N/A
	20-Sep-12	47.75	5.69	20.8
5510 MHz	Low channel	47.68	5.70	20.8
5550 MHz	Mid channel	47.39	5.72	20.8
5670 MHz	High channel	46.96	5.77	20.8

Body Tissue Simulant Measurement

Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
5800MHz	Reference result ± 5% window	48.2 45.79 to 50.61	6 5.7 to 6.3	N/A
	20-Sep-12	46.03	6.21	20.8
5700 MHz	Low channel	46.92	6.06	20.8
5785 MHz	Mid channel	46.25	6.16	20.8
5825 MHz	High channel	45.89	6.24	20.8

3.3 Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

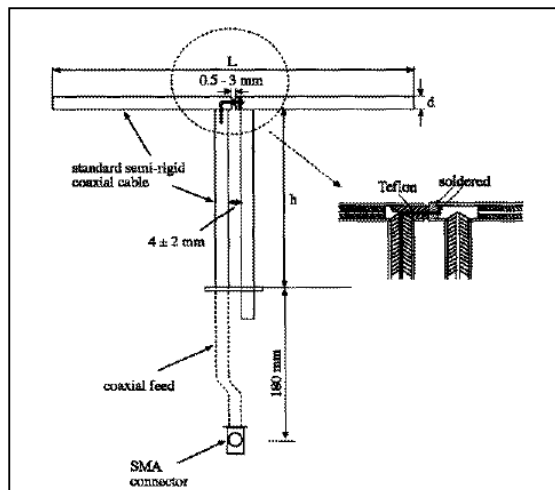
Target Frequency	Head		Body	
(MHz)	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

(ϵ_r = relative permittivity, σ = conductivity and ρ = 1000 kg/m³)

4. SAR Measurement Procedure

4.1 SAR System Check

4.1.1 Dipoles



The dipoles used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of both IEEE and FCC Supplement C. the table below provides details for the mechanical and electrical specifications for the dipoles.

Frequency	L (mm)	h (mm)	d (mm)
2450MHz	53.5	30.4	3.6
5200M~5800MHz	20.6	45.4	3.6

4.1.2 System Check Result

System Performance Check at 2450MHz				
Dipole Kit: ALS-D-2450				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
2450 MHz	Reference result ± 10% window	49.6 44.64 to 54.56	22.88 20.59 to 25.17	N/A
	22-Sep-12	52.8	23.6	20.4
Note: (1) The power level is used 250mW (2) All SAR values are normalized to 1W forward power.				

System Performance Check at 5200MHz

Dipole Kit: D5GHzV2

Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
5200 MHz	Reference result	76.2	21.2	N/A
	± 10% window	68.58 to 83.82	19.08 to 23.32	
	20-Sep-12	78	21.88	20.8

Note: (1) The power level is used 250mW
(2) All SAR values are normalized to 1W forward power.

System Performance Check at 5500MHz

Dipole Kit: D5GHzV2

Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
5500 MHz	Reference result	80.1	22.3	N/A
	± 10% window	72.09 to 88.11	20.07 to 24.53	
	20-Sep-12	76.4	21.28	20.8

Note: (1) The power level is used 250mW
(2) All SAR values are normalized to 1W forward power.

System Performance Check at 5800MHz

Dipole Kit: D5GHzV2

Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
5800 MHz	Reference result	75.7	21	N/A
	± 10% window	68.13 to 83.27	18.9 to 23.1	
	20-Sep-12	77.6	21.64	20.8

Note: (1) The power level is used 250mW
(2) All SAR values are normalized to 1W forward power.

4.2 SAR Measurement Procedure

The Dasy5 calculates SAR using the following equation,

$$SAR = \frac{\sigma |E|^2}{\rho}$$

σ : represents the simulated tissue conductivity

ρ : represents the tissue density

The EUT is set to transmit at the required power in line with product specification, at each frequency relating to the LOW, MID, and HIGH channel settings.

Pre-scans are made on the device to establish the location for the transmitting antenna, using a large area scan in either air or tissue simulation fluid.

The EUT is placed against the Universal Phantom where the maximum area scan dimensions are larger than the physical size of the resonating antenna. When the scan size is not large enough to cover the peak SAR distribution, it is modified by either extending the area scan size in both the X and Y directions, or the device is shifted within the predefined area.

The area scan is then run to establish the peak SAR location (interpolated resolution set at 1mm^2) which is then used to orient the center of the zoom scan. The zoom scan is then executed and the 1g and 10g averages are derived from the zoom scan volume (interpolated resolution set at 1mm^3).

5. SAR Exposure Limits

SAR assessments have been made in line with the requirements of IEEE-1528, FCC Supplement C, and comply with ANSI/IEEE C95.1-1992 “Uncontrolled Environments” limits. These limits apply to a location which is deemed as “Uncontrolled Environment” which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

Limits for General Population/Uncontrolled Exposure (W/kg)

Type Exposure	Uncontrolled Environment Limit
Spatial Peak SAR (1g cube tissue for brain or body)	1.60 W/kg
Spatial Average SAR (whole body)	0.08 W/kg
Spatial Peak SAR (10g for hands, feet, ankles and wrist)	4.00 W/kg

6. Test Equipment List

Instrument	Manufacturer	Model No.	Serial No.	Last Calibration	Next Calibration
Stäubli Robot TX60L	Stäubli	TX60L	F09/5BL1A1/A06	2009/05/18	only once
Controller	Speag	CS8c	N/A	2009/05/18	only once
Aprel Reference Dipole 2450MHz	Aprel	ALS-D-2450-S	QTK-319	2011/11/22	2012/11/21
Speag Reference Dipole 5GHz	Speag	D5GHzV2	1041	2011/05/20	2013/05/19
SAM Twin Phantom	Speag	QD000 P40 CA	Tp 1515	N/A	N/A
Device Holder	Speag	N/A	N/A	N/A	N/A
Data Acquisition Electronic	Speag	DAE4	1207	2012/05/30	2013/05/29
E-Field Probe	Speag	EX3DV4	3698	2012/07/27	2013/07/26
SAR Software	Speag	DASY52	V52.8 (2)	N/A	N/A
Aprel Dipole Spaccer	Aprel	ALS-DS-U	QTK-295	N/A	N/A
Power Amplifier	Mini-Circuit	ZHL-42	D051404-20	N/A	N/A
Directional Coupler	Agilent	778D-012	50550	N/A	N/A
Universal Radio Communication Tester	R&S	CMU 200	104846	2012/05/14	2013/05/13
Vector Network	Anritsu	MS4623B	992801	2012/07/30	2013/07/29
Signal Generator	Anritsu	MG3694A	041902	2012/08/03	2013/08/02
Power Meter	Anritsu	ML2487A	6K00001447	2011/12/01	2012/11/30
Wide Bandwidth Sensor	Anritsu	MA2491	030677	2011/12/01	2012/11/30

7. Measurement Uncertainty

DASY5 Uncertainty								
Measurement uncertainty for 300 MHz to 3 GHz averaged over 1 gram / 10 gram.								
Error Description	Uncert. value	Prob. Dist.	Div.	(ci) 1g	(ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(vi) V _{eff}
Measurement System								
Probe Calibration	±6.0%	N	1	1	1	±6.0%	±6.0%	∞
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	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
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 Noise	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±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%	145
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						±11%	±10.8%	387
Expanded STD Uncertainty						±22%	±21.5%	

DASY5 Uncertainty								
Measurement uncertainty for 3GHz to 6 GHz averaged over 1 gram / 10 gram.								
Error Description	Uncert. value	Prob. Dist.	Div.	(ci) 1g	(ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(vi) V _{eff}
Measurement System								
Probe Calibration	±6.6%	N	1	1	1	±6.6%	±6.6%	∞
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	±2.0%	R	$\sqrt{3}$	1	1	±1.2%	±1.2%	∞
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	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
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 Noise	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
Probe Positioning	±9.9%	R	$\sqrt{3}$	1	1	±5.7%	±5.7%	∞
Max. SAR Eval.	±4.0%	R	$\sqrt{3}$	1	1	±2.3%	±2.3%	∞
Test Sample Related								
Device Positioning	±2.9%	N	1	1	1	±2.9%	±2.9%	145
Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%	5
Power Drift	±5.0%	R	$\sqrt{3}$	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						±12.8%	±12.6%	330
Expanded STD Uncertainty						±25.6%	±25.2%	

8. Conducted Power Measurement

Mode	Frequency (MHz)	Channel	Chain A Average Power(dBm)	Chain B Average Power(dBm)
802.11b	2412	1	12.41	11.64
802.11b	2437	6	12.71	11.97
802.11b	2462	11	13.05	11.76
802.11g	2412	1	10.59	10.88
802.11g	2437	6	14.02	14.72
802.11g	2462	11	10.17	11.02
802.11a	5180	36	11.84	12.53
802.11a	5220	44	10.69	14.06
802.11a	5240	48	11.38	14.28
802.11a	5260	52	11.50	14.07
802.11a	5280	56	11.17	13.92
802.11a	5300	60	11.31	14.28
802.11a	5320	64	11.18	14.13
802.11a	5500	100	11.42	14.95
802.11a	5580	116	11.09	13.78
802.11a	5700	140	10.63	13.81
802.11a	5745	149	10.31	13.51
802.11a	5785	157	11.25	13.92
802.11a	5825	165	11.30	13.69

Mode	Frequency (MHz)	Channel	Chain A Average Power(dBm)	Chain B Average Power(dBm)	Chain A+ChainB Average Power(dBm)
802.11n-20M	2412	1	10.15	10.56	13.37
802.11n-20M	2437	6	10.37	11.49	13.98
802.11n-20M	2462	11	9.45	9.91	12.70
802.11n-20M	5180	36	10.68	10.52	13.61
802.11n-20M	5220	44	11.21	10.86	14.05
802.11n-20M	5240	48	11.13	10.77	13.96
802.11n-20M	5260	52	11.51	11.17	14.35
802.11n-20M	5280	56	11.36	11.09	14.24
802.11n-20M	5300	60	11.50	11.31	14.42
802.11n-20M	5320	64	11.92	11.84	14.89
802.11n-20M	5500	100	11.75	12.28	15.03
802.11n-20M	5580	116	10.92	11.24	14.09
802.11n-20M	5700	140	10.83	10.69	13.77
802.11n-20M	5745	149	11.07	10.86	13.98
802.11n-20M	5785	157	10.93	10.77	13.86
802.11n-20M	5825	165	11.08	10.98	14.04
802.11n-40M	2422	3	7.72	8.25	11.00
802.11n-40M	2437	6	9.19	10.33	12.81
802.11n-40M	2452	9	7.61	8.38	11.02
802.11n-40M	5190	38	6.93	6.11	9.55
802.11n-40M	5230	46	10.48	10.43	13.47
802.11n-40M	5270	54	10.57	10.43	13.51
802.11n-40M	5310	62	7.84	7.76	10.81
802.11n-40M	5510	102	10.01	10.77	13.42
802.11n-40M	5550	110	10.52	10.69	13.62
802.11n-40M	5670	134	9.64	10.86	13.30
802.11n-40M	5755	151	10.32	10.37	13.36
802.11n-40M	5795	159	9.99	9.67	12.84

9. Test Results

9.1 SAR Test Results Summary

SAR MEASUREMENT						
Ambient Temperature (°C) : 21.4 ±2				Relative Humidity (%): 55		
Liquid Temperature (°C) : 20.4 ±2				Depth of Liquid (cm):>15		
Test Mode: 802.11b - 2450 MHz- Foxconn Main Antenna(Chain A), P/N: WDAN-IJU26V01-DH						
Test Position Body	Antenna Position	Frequency		Conducted Power (dBm)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz			
Top	Fixed	11	2462	13.05	0.409	1.6
Back	Fixed	11	2462	13.05	0.224	1.6
Side	Fixed	11	2462	13.05	0.00287	1.6
NB-Mode	Fixed	11	2462	13.05	0.323	1.6
Test Mode: 802.11b - 2450 MHz- Foxconn Aux Antenna(Chain B), P/N: WDAN-IJU26V01-DH						
Top	Fixed	6	2437	11.97	0.404	1.6
Back	Fixed	6	2437	11.97	0.172	1.6
Right-Side	Fixed	6	2437	11.97	0.00377	1.6
NB-Mode	Fixed	6	2437	11.97	0.354	1.6
Test Mode: 802.11g - 2450 MHz- Foxconn Main Antenna(Chain A), P/N: WDAN-IJU26V01-DH						
Top	Fixed	6	2437	14.02	0.685	1.6
Test Mode: 802.11g - 2450 MHz- Foxconn Aux Antenna(Chain B), P/N: WDAN-IJU26V01-DH						
Top	Fixed	1	2412	10.88	0.593	1.6
Top	Fixed	6	2437	14.72	0.910	1.6
Top	Fixed	11	2462	11.02	0.268	1.6
Test Mode: 802.11n (20M) - 2450 MHz- Foxconn Antenna(Chain A + Chain B), P/N: WDAN-IJU26V01-DH						
Top	Fixed	6	2437	13.98	0.384	1.6
Test Mode: 802.11n (40M) - 2450 MHz- Foxconn Antenna(Chain A + Chain B), P/N: WDAN-IJU26V01-DH						
Top	Fixed	6	2437	12.81	0.397	1.6
Note : (1) According KDB 447498 D01, for antenna(s) located ≥ 5 cm from Left side , the SAR is not required, (2) The test channels are chosen with the worst case power of 802.11n 20/40M (Chain A+Chain B) (3) When testing 802.11n(20/40), The Chain A & B are simultaneous transmission for MIMO.						

SAR MEASUREMENT						
Ambient Temperature (°C) : 21.1 ±2				Relative Humidity (%): 51		
Liquid Temperature (°C) : 20.8 ±2				Depth of Liquid (cm):>15		
Test Mode: 802.11a - 5 GHz - Foxconn Main Antenna (Chain A), P/N: WDAN-IJU26V01-DH						
Test Position Body	Antenna Position	Frequency		Conducted Power (dBm)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz			
Top	Fixed	36	5180	11.84	1.16	1.6
Top	Fixed	44	5220	10.69	1.31	1.6
Top	Fixed	48	5240	11.38	1.43	1.6
Top	Fixed	52	5260	11.50	1.39	1.6
Top	Fixed	56	5280	11.17	1.44	1.6
Top	Fixed	60	5300	11.31	1.48	1.6
Top	Fixed	64	5320	11.18	1.38	1.6
Top	Fixed	100	5500	11.42	1.49	1.6
Top	Fixed	116	5580	11.09	1.50	1.6
Top	Fixed	140	5700	10.63	1.38	1.6
Top	Fixed	149	5745	10.31	1.39	1.6
Top	Fixed	157	5785	11.25	1.47	1.6
Top	Fixed	165	5825	11.30	1.49	1.6
Back	Fixed	36	5180	11.84	0.489	1.6
Right-Side	Fixed	36	5180	11.84	0.018	1.6
NB-Mode	Fixed	36	5180	11.84	0.652	1.6
Test Mode: 802.11a - 5 GHz - Foxconn Aux Antenna(Chain B), P/N: WDAN-IJU26V01-DH						
Top	Fixed	36	5180	12.53	0.679	1.6
Top	Fixed	44	5220	14.06	1.09	1.6
Top	Fixed	48	5240	14.28	1.15	1.6
Top	Fixed	52	5260	14.07	1.40	1.6
Top	Fixed	56	5280	13.92	1.43	1.6
Top	Fixed	60	5300	14.28	1.28	1.6
Top	Fixed	64	5320	14.13	1.26	1.6
Top	Fixed	100	5500	14.95	1.49	1.6
Top	Fixed	116	5580	13.78	1.30	1.6
Top	Fixed	140	5700	13.81	1.42	1.6
Top	Fixed	149	5745	13.51	1.43	1.6
Top	Fixed	157	5785	13.92	1.16	1.6
Top	Fixed	165	5825	13.69	0.958	1.6
Back	Fixed	100	5500	14.95	0.713	1.6
Right-Side	Fixed	100	5500	14.95	0.011	1.6
NB-Mode	Fixed	100	5500	14.95	0.785	1.6
Note : (1) According KDB 447498 D01, for antenna(s) located ≥ 5 cm from Left side , the SAR is not required.						

SAR MEASUREMENT						
Ambient Temperature (°C) : 22.1 ±2				Relative Humidity (%): 51		
Liquid Temperature (°C) : 20.8 ±2				Depth of Liquid (cm):>15		
Test Mode: 802.11n (20M)-5GHz -Foxconn Antenna (Chain A + Chain B), P/N: DAN-IJU26V01-DH						
Top	Fixed	36	5180	13.61	1.170	1.6
Top	Fixed	44	5220	14.05	1.250	1.6
Top	Fixed	48	5240	13.96	0.915	1.6
Top	Fixed	52	5260	14.35	0.995	1.6
Top	Fixed	56	5280	14.24	0.919	1.6
Top	Fixed	60	5300	14.42	0.947	1.6
Top	Fixed	64	5320	14.89	1.230	1.6
Top	Fixed	100	5500	15.03	1.470	1.6
Top	Fixed	116	5580	14.09	1.430	1.6
Top	Fixed	140	5700	13.77	1.190	1.6
Top	Fixed	149	5745	13.98	1.120	1.6
Top	Fixed	157	5785	13.86	1.100	1.6
Top	Fixed	165	5825	14.04	1.070	1.6
Test Mode: 802.11n (40M)-5GHz – Foxconn Antenna(Chain A + Chain B),P/N:WDAN-IJU26V01-DH						
Top	Fixed	110	5550	13.62	0.784	1.6
Note : (1) The test channels are chosen with the worst case power of 802.11n 20/40M (Chain A+Chain B) (2) When testing 802.11n(20/40), The Chain A & B are simultaneous transmission for MIMO.						

Appendix**Appendix A. SAR System Check Data****Appendix B. SAR measurement Data****Appendix C. Test Setup Photographs & EUT Photographs****Appendix D. Probe Calibration Data****Appendix E. Dipole Calibration Data**

Appendix A. SAR System Check Data

Test Laboratory: QuieTek

Date/Time: 9/22/2012

System Performance Check_2450MHz-Body

DUT: Dipole 2450 MHz; Type: ALS-D-2450-S-2

Communication System: CW; Frequency: 2450 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 54.03$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/2450MHz_Body/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 12.7 W/kg

Configuration/2450MHz_Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

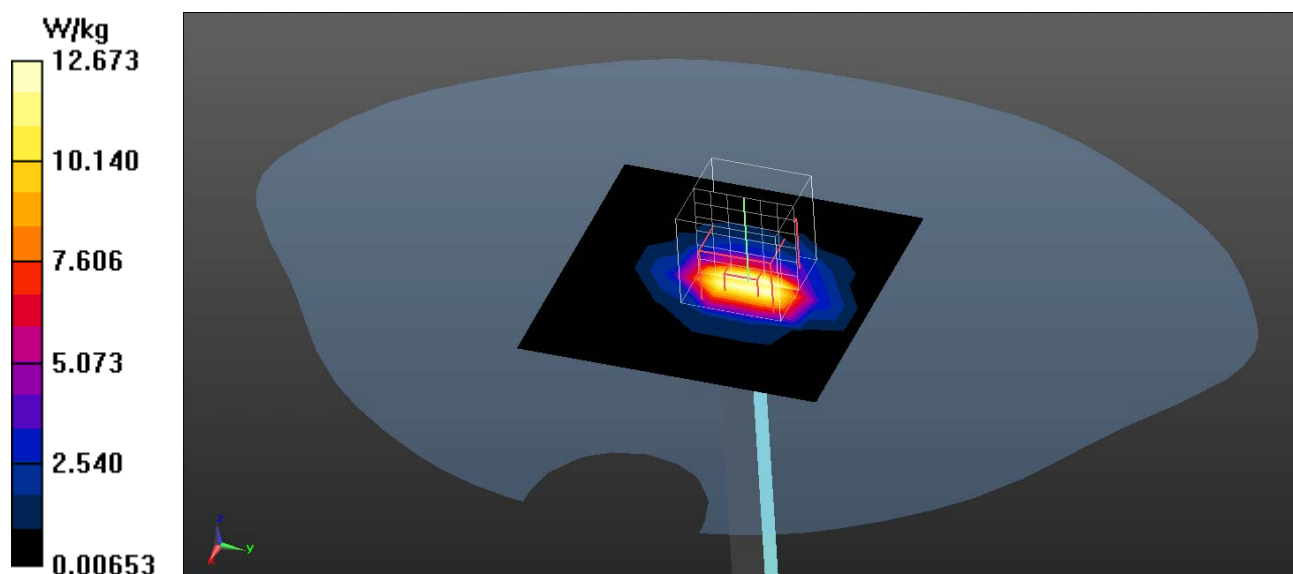
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.140 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 28.305 mW/g

SAR(1 g) = 13.2 mW/g; SAR(10 g) = 5.9 mW/g

Maximum value of SAR (measured) = 15.1 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

System Performance Check_5200-Body

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: CW; Frequency: 5200 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5200$ MHz; $\sigma = 5.19$ mho/m; $\epsilon_r = 50.14$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/5200MHz-Body/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 24.5 W/kg

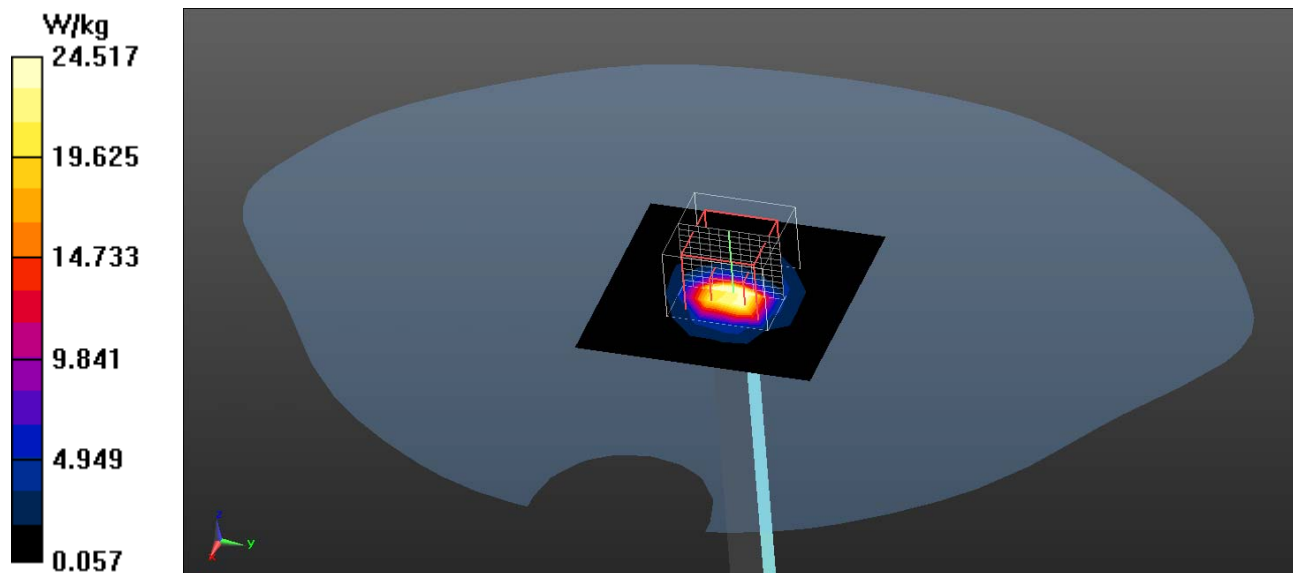
Configuration/5200MHz-Body/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 95.456 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 80.787 mW/g

SAR(1 g) = 19.5 mW/g; SAR(10 g) = 5.47 mW/g

Maximum value of SAR (measured) = 40.8 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

System Performance Check_5500-Body

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: CW; Frequency: 5500 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ mho/m; $\epsilon_r = 47.75$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.76, 3.76, 3.76); Calibrated: 7/27/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/5500MHz-Body/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 30.9 W/kg

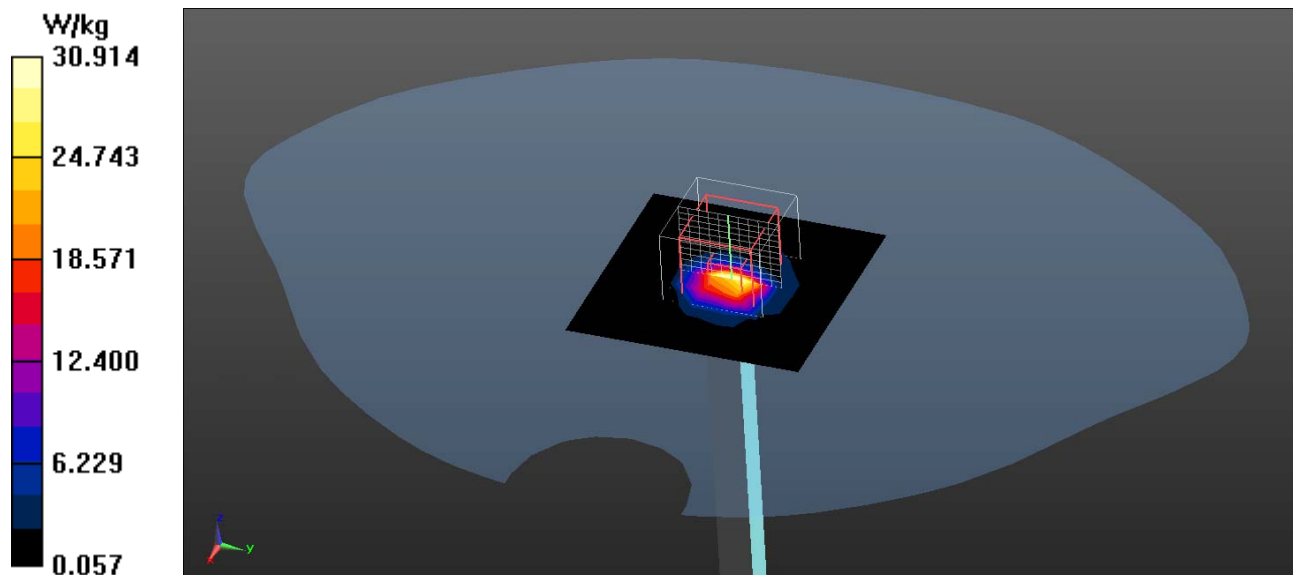
Configuration/5500MHz-Body/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 94.734 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 79.663 mW/g

SAR(1 g) = 19.1 mW/g; SAR(10 g) = 5.32 mW/g

Maximum value of SAR (measured) = 40.5 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

System Performance Check_5800-Body

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: CW; Frequency: 5800 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5800$ MHz; $\sigma = 6.21$ mho/m; $\epsilon_r = 46.03$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.86, 3.86, 3.86); Calibrated: 7/27/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/5800MHz-Body/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 30.4 W/kg

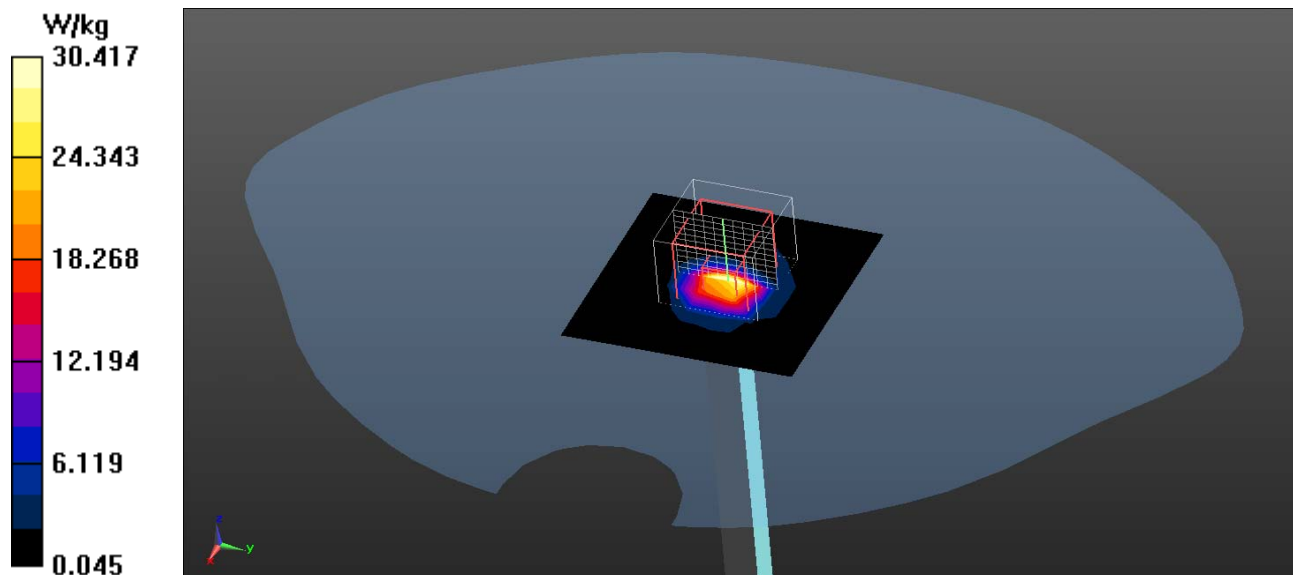
Configuration/5800MHz-Body/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 94.205 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 83.079 mW/g

SAR(1 g) = 19.4 mW/g; SAR(10 g) = 5.41 mW/g

Maximum value of SAR (measured) = 41.8 W/kg



Appendix B. SAR measurement Data

Antenna Kit : Foxconn Chain A Antenna: P/N: WDAN-IJU26V01-DH

Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11b_11-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2462 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 53.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.350 W/kg

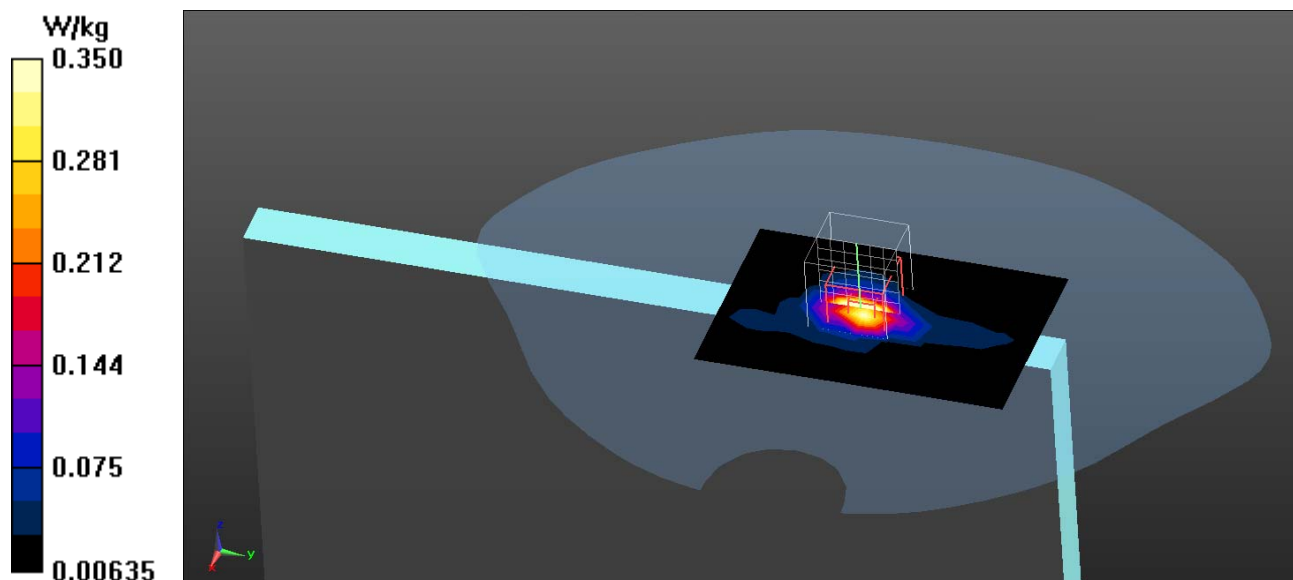
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.283 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.547 mW/g

SAR(1 g) = 0.409 mW/g; SAR(10 g) = 0.136 mW/g

Maximum value of SAR (measured) = 0.515 W/kg



Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11b 11-Back Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2462 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 53.72$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 21.4, Liquid Temperature ($^{\circ}\text{C}$) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 0.269 W/kg

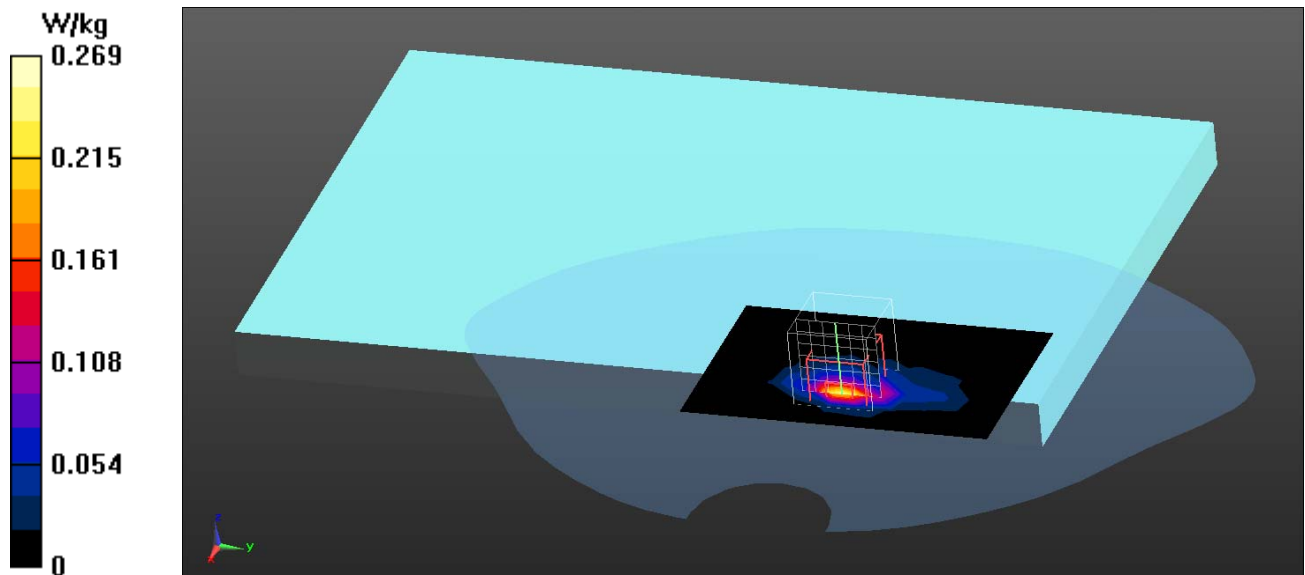
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.772 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.648 mW/g

SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.078 mW/g

Maximum value of SAR (measured) = 0.263 W/kg



Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11b 11-Side Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2462 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 53.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.00425 W/kg

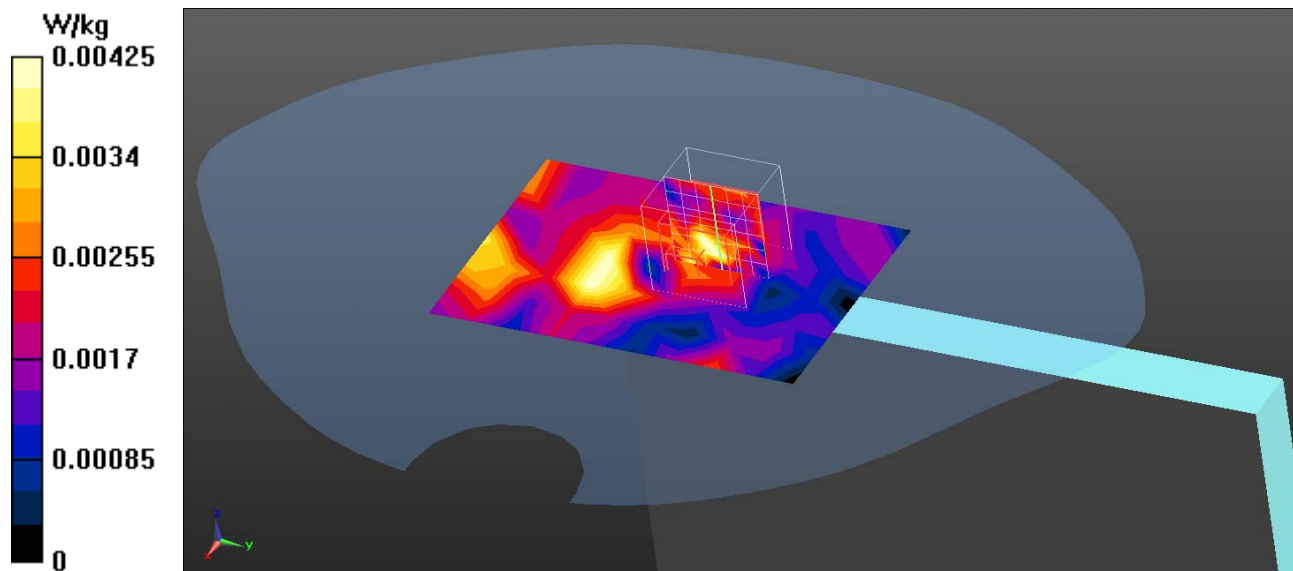
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.484 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.0068 mW/g

SAR(1 g) = 0.00287 mW/g; SAR(10 g) = 0.00197 mW/g

Maximum value of SAR (measured) = 0.00429 W/kg



Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11b 11-Bottom Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2462 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 53.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.309 W/kg

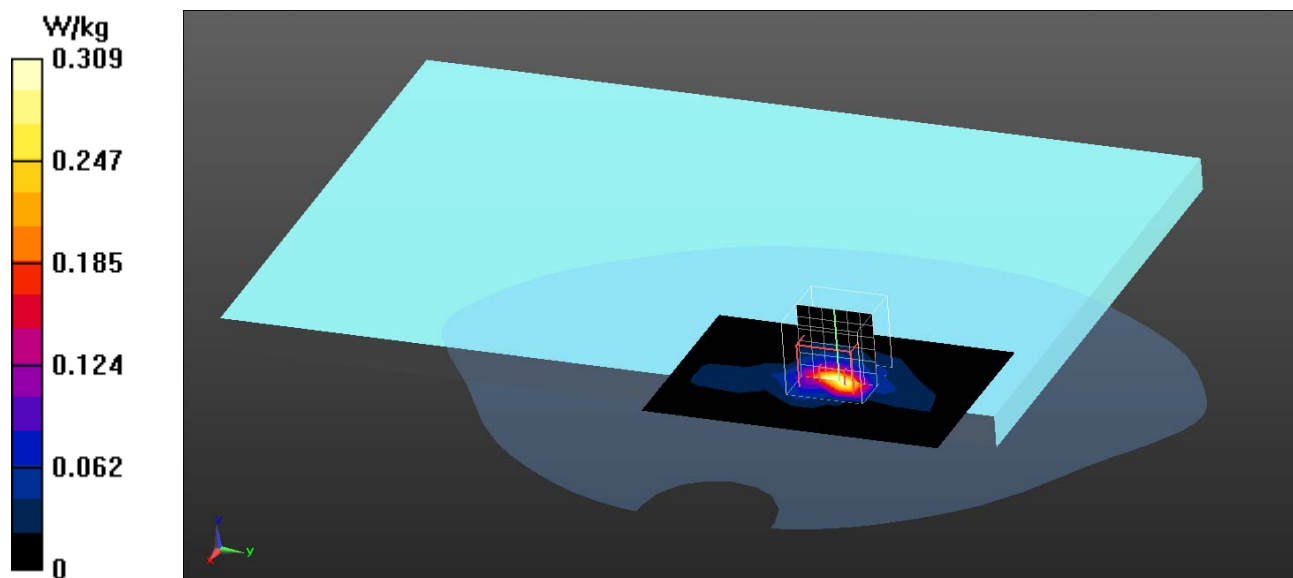
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.864 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.059 mW/g

SAR(1 g) = 0.323 mW/g; SAR(10 g) = 0.109 mW/g

Maximum value of SAR (measured) = 0.369 W/kg



Antenna Kit : Foxconn Chain B Antenna: P/N: WDAN-IJU26V01-DH

Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11b_6-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2437 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 54.17$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.421 W/kg

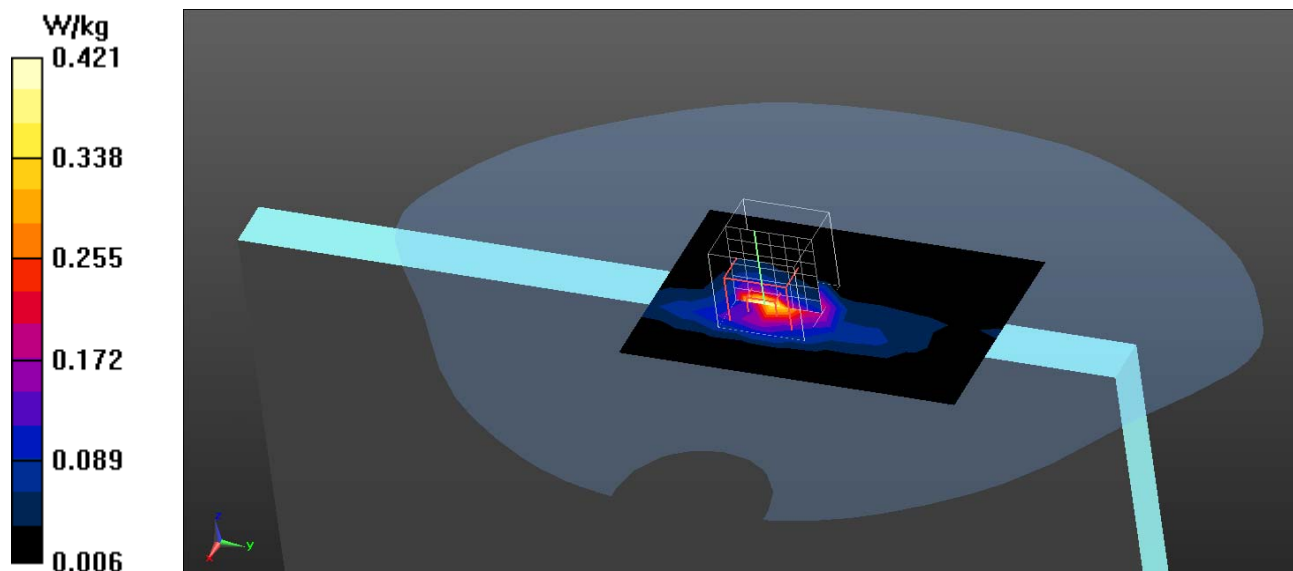
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.753 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.376 mW/g

SAR(1 g) = 0.404 mW/g; SAR(10 g) = 0.146 mW/g

Maximum value of SAR (measured) = 0.457 W/kg



Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11b_6-Back Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2437 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 54.17$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.166 W/kg

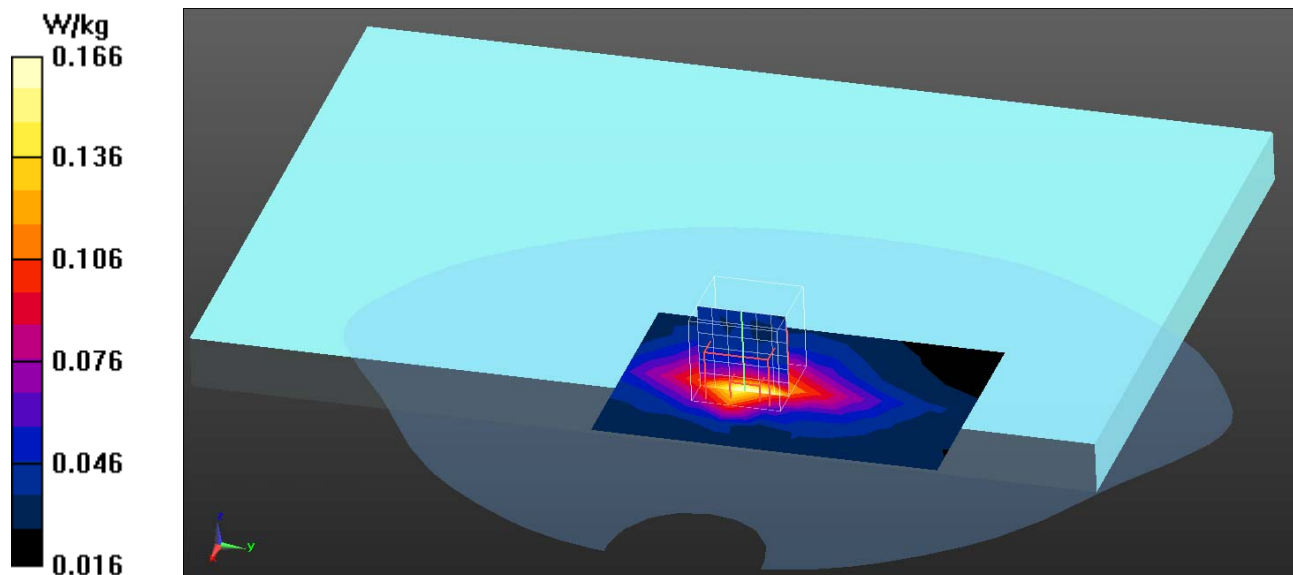
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.204 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.449 mW/g

SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.182 W/kg



Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11b_6-Side Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2437 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 54.17$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.00463 W/kg

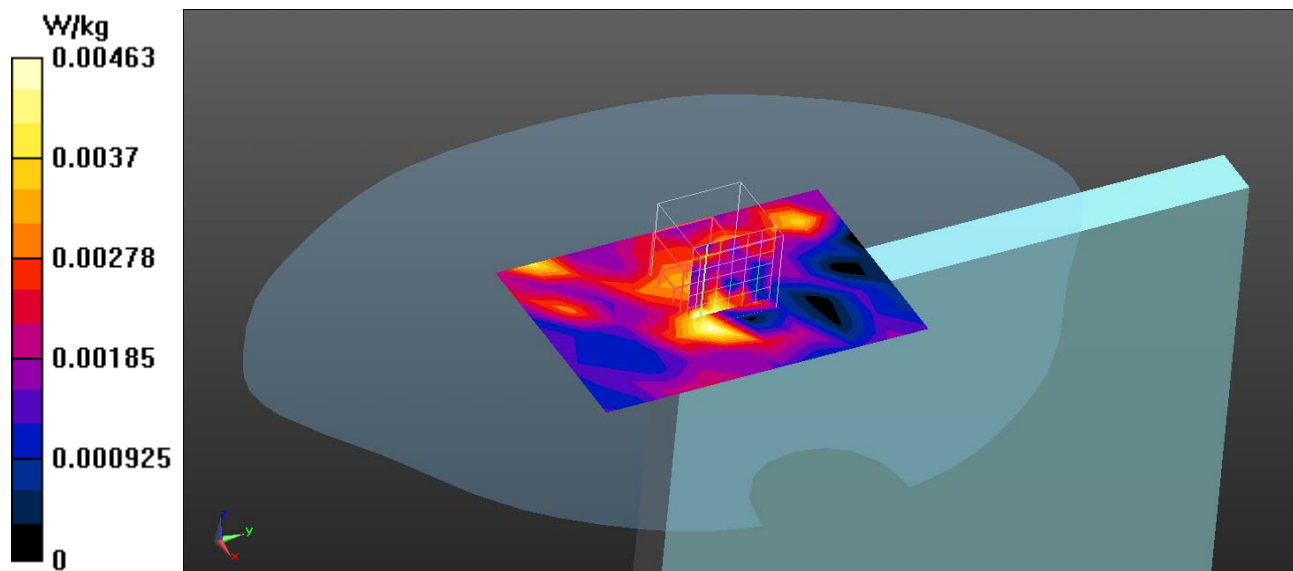
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.033 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.00786 mW/g

SAR(1 g) = 0.00377 mW/g; SAR(10 g) = 0.00247 mW/g

Maximum value of SAR (measured) = 0.00554 W/kg



Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11b_6-Bottom Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2437 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 54.17$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.306 W/kg

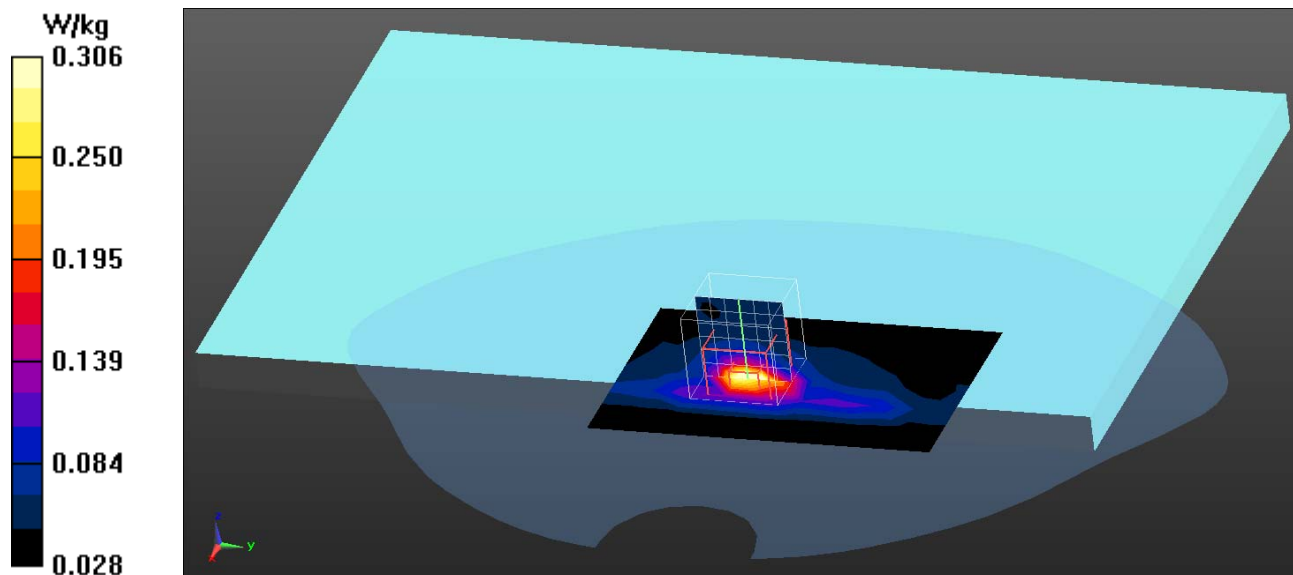
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.173 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.314 mW/g

SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.143 mW/g

Maximum value of SAR (measured) = 0.407 W/kg



Antenna Kit : Foxconn Chain A Antenna: P/N: WDAN-IJU26V01-DH

Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11g_6-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2437 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 54.17$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.505 W/kg

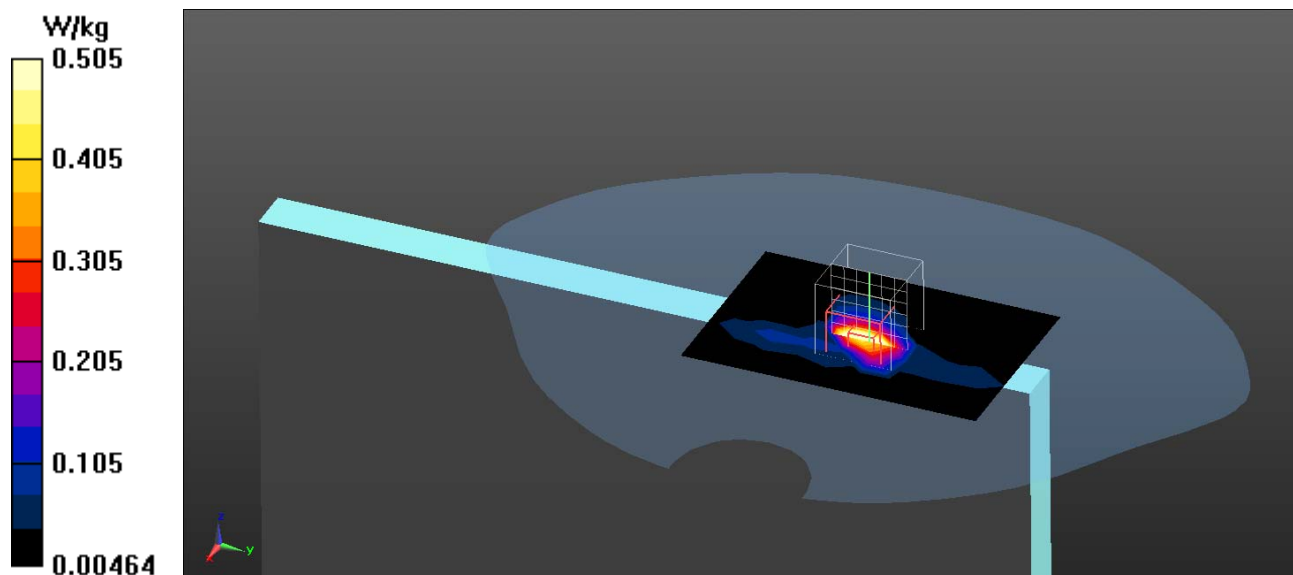
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.386 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.533 mW/g

SAR(1 g) = 0.685 mW/g; SAR(10 g) = 0.217 mW/g

Maximum value of SAR (measured) = 0.838 W/kg



Antenna Kit : Foxconn Chain B Antenna: P/N: WDAN-IJU26V01-DH

Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11g_1-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2412 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 54.69$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.505 W/kg

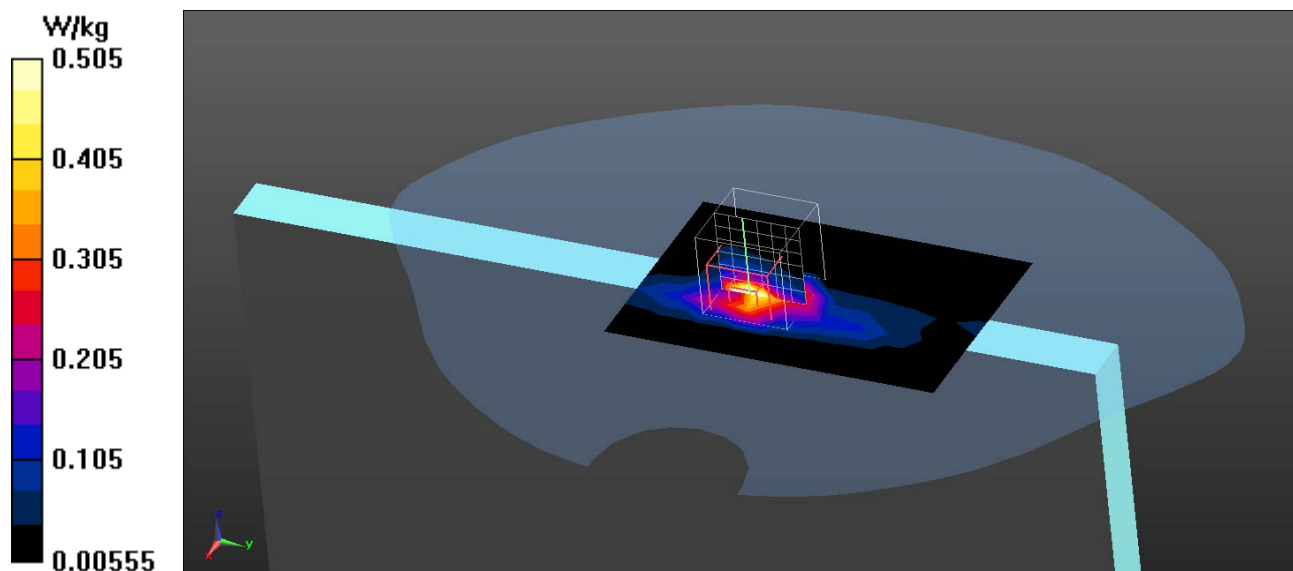
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.193 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.246 mW/g

SAR(1 g) = 0.593 mW/g; SAR(10 g) = 0.200 mW/g

Maximum value of SAR (measured) = 0.723 W/kg



Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11g_6-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2437 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 54.17$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.775 W/kg

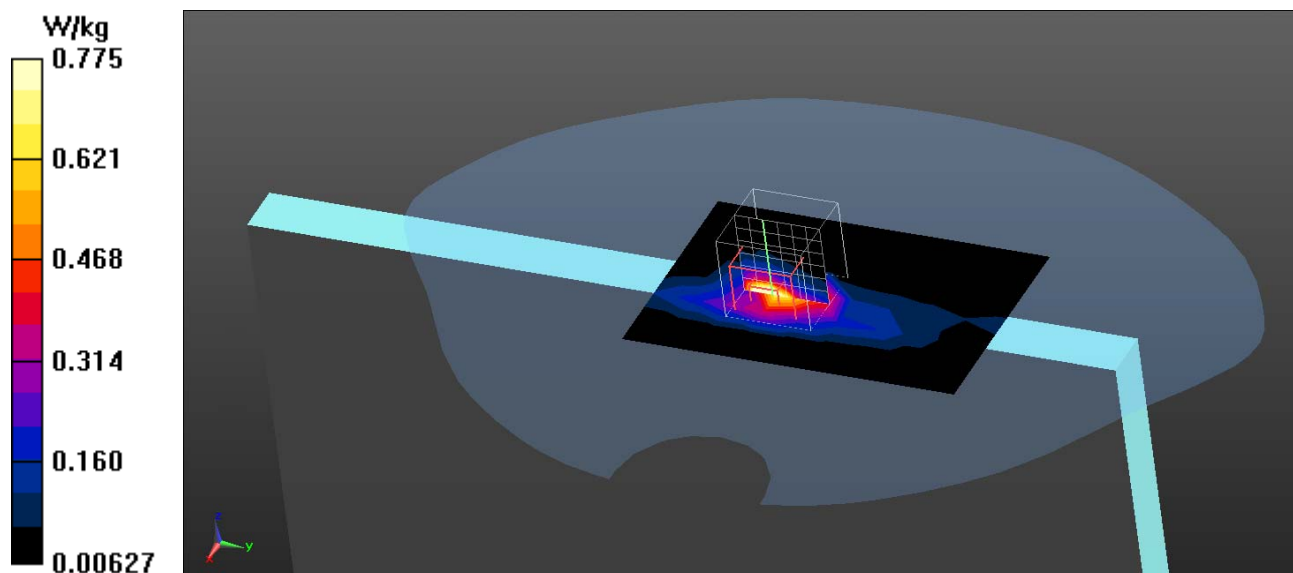
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.110 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 3.014 mW/g

SAR(1 g) = 0.910 mW/g; SAR(10 g) = 0.312 mW/g

Maximum value of SAR (measured) = 1.14 W/kg



Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11g_11-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2462 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 53.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.234 W/kg

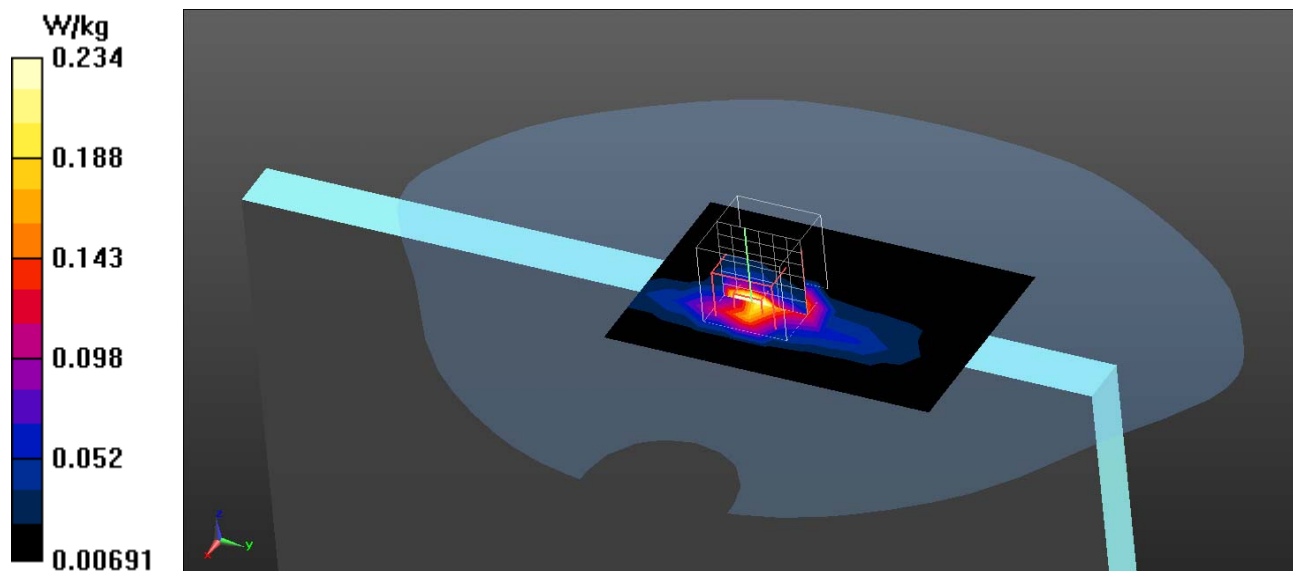
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.623 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.045 mW/g

SAR(1 g) = 0.268 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.321 W/kg



Antenna Kit : Foxconn (Chain A + Chain B) Antenna: P/N: WDAN-IJU26V01-DH

Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11n_20M_6-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2437 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 54.17$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=13mm, dy=13mm

Maximum value of SAR (measured) = 0.445 W/kg

Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

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

Reference Value = 13.120 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.114 mW/g

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.129 mW/g

Maximum value of SAR (measured) = 0.454 W/kg

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

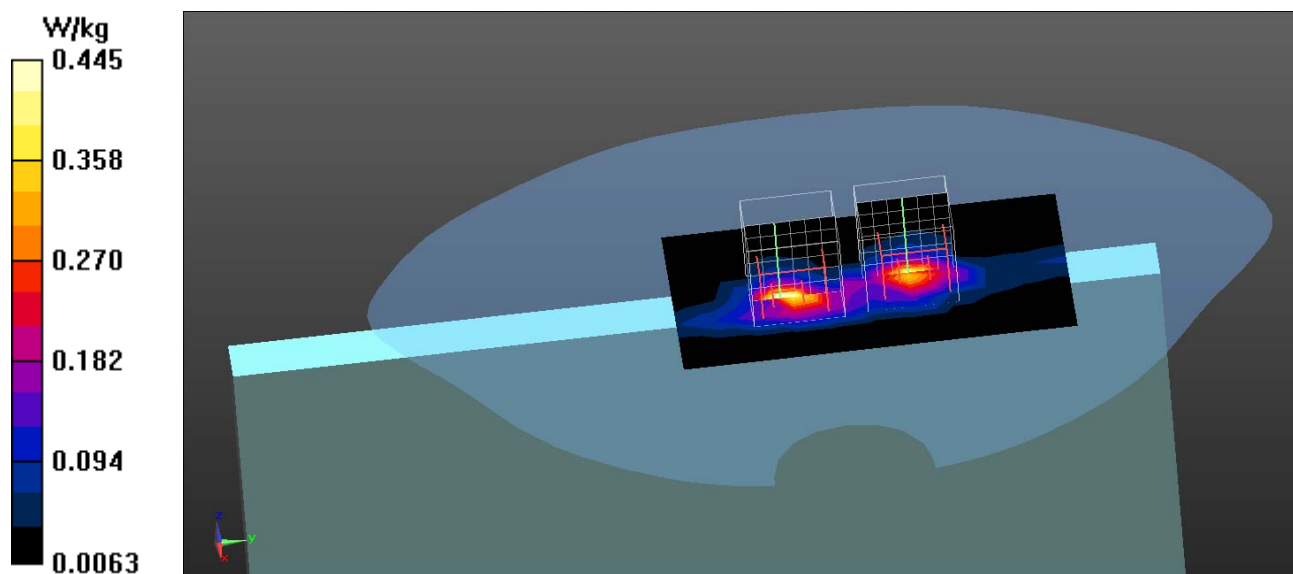
dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.120 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.136 mW/g

SAR(1 g) = 0.384 mW/g; SAR(10 g) = 0.149 mW/g

Maximum value of SAR (measured) = 0.521 W/kg



Test Laboratory: QuieTek

Date/Time: 9/22/2012

802.11n_40M_6-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 2.4G; Frequency: 2437 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 54.17$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.4, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(6.68, 6.68, 6.68); Calibrated: 7/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=13mm, dy=13mm

Maximum value of SAR (measured) = 0.434 W/kg

Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

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

Reference Value = 12.122 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.517 mW/g

SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.082 mW/g

Maximum value of SAR (measured) = 0.224 W/kg

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

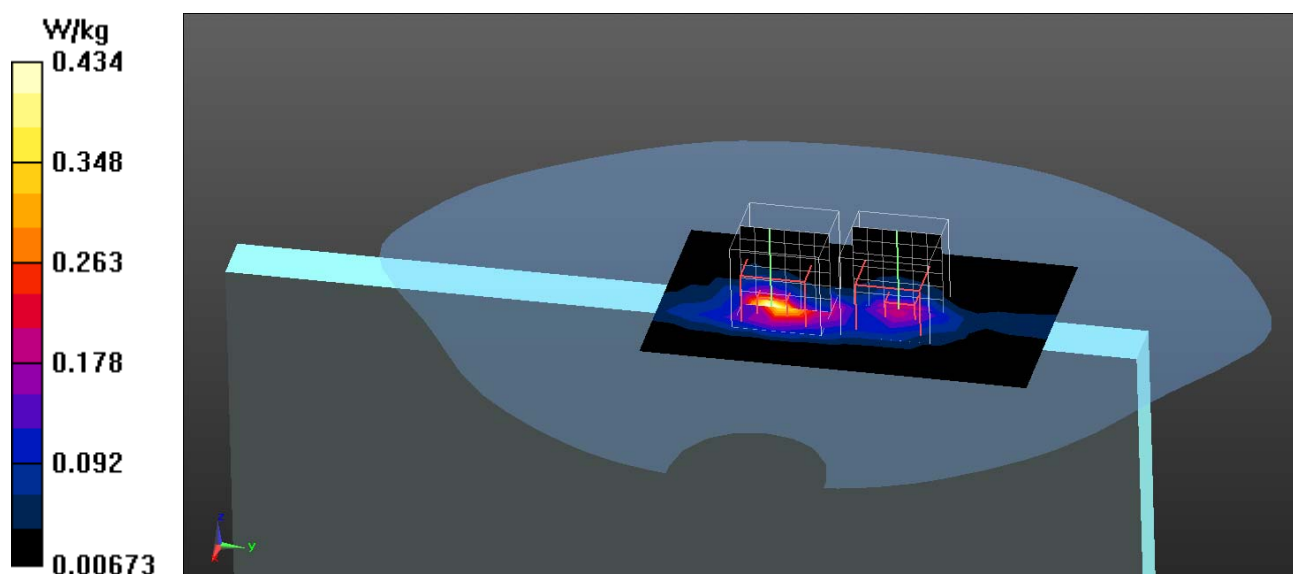
dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.122 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.321 mW/g

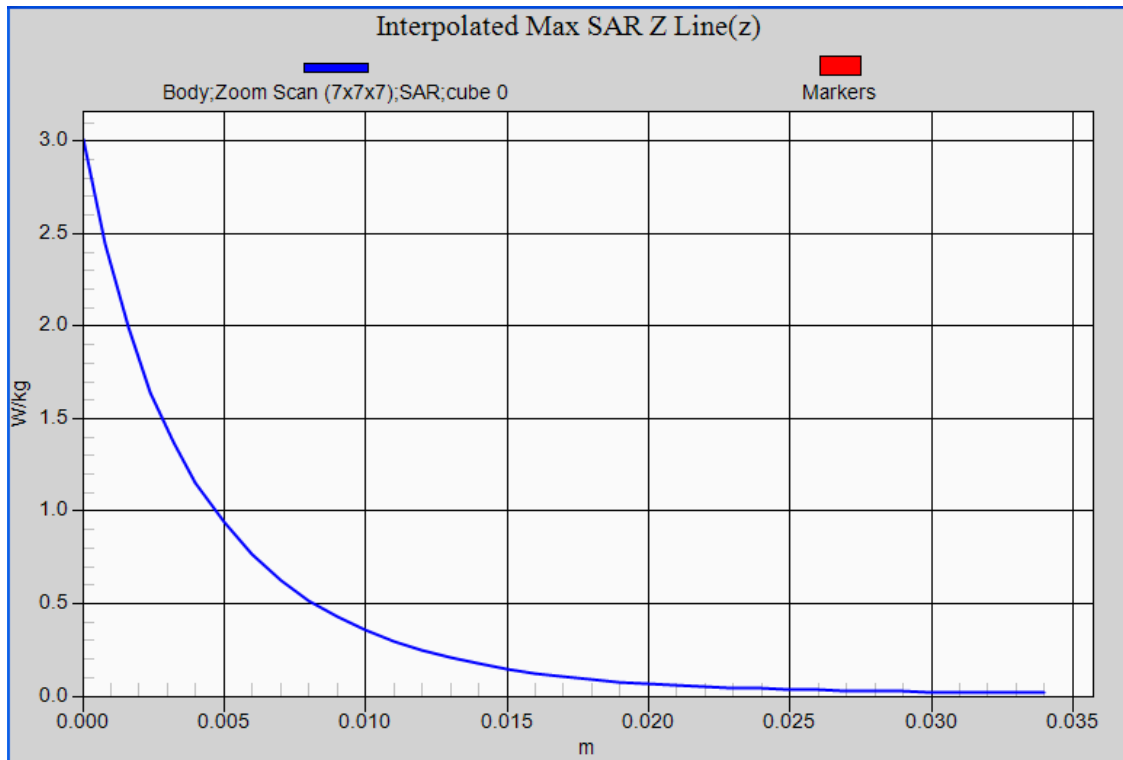
SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.141 mW/g

Maximum value of SAR (measured) = 0.499 W/kg



802.11g Chain B Antenna EUT Top Z-Axis plot

Channel: 6



Antenna Kit : Foxconn Chain A Antenna: P/N: WDAN-IJU26V01-DH

Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5180-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5180 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5180$ MHz; $\sigma = 5.14$ mho/m; $\epsilon_r = 50.37$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 1.27 W/kg

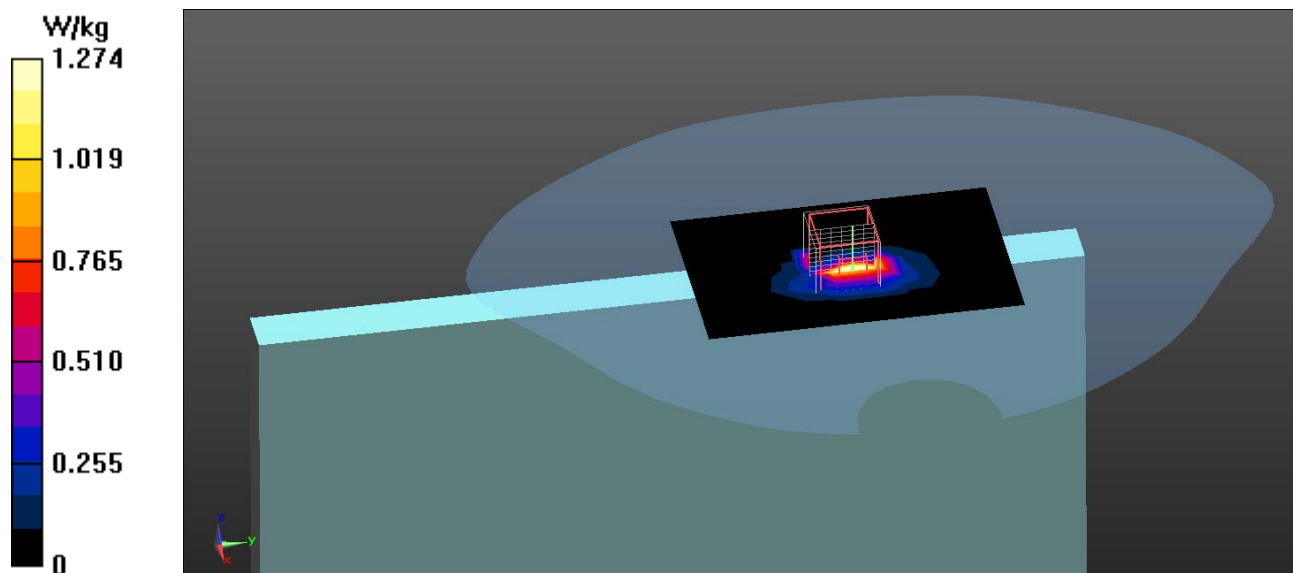
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.865 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 4.151 mW/g

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.335 mW/g

Maximum value of SAR (measured) = 2.18 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5220-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5220 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5220$ MHz; $\sigma = 5.23$ mho/m; $\epsilon_r = 50.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 2.02 W/kg

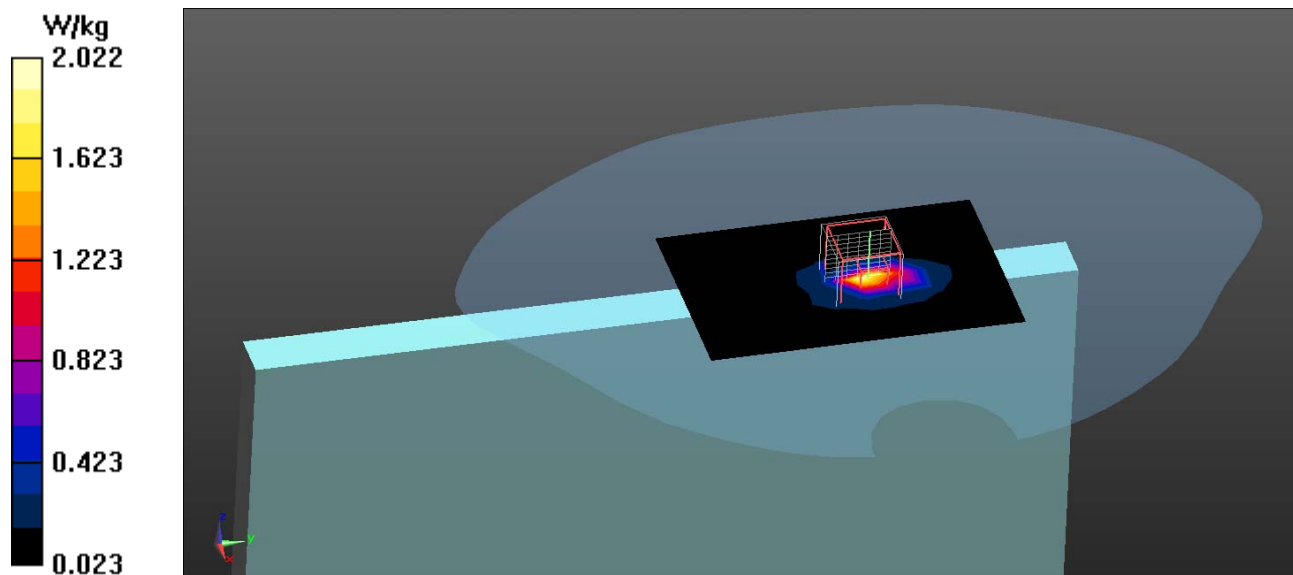
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 22.605 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 5.517 mW/g

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.381 mW/g

Maximum value of SAR (measured) = 2.18 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5240-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5240 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5240$ MHz; $\sigma = 5.28$ mho/m; $\epsilon_r = 49.86$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 2.16 W/kg

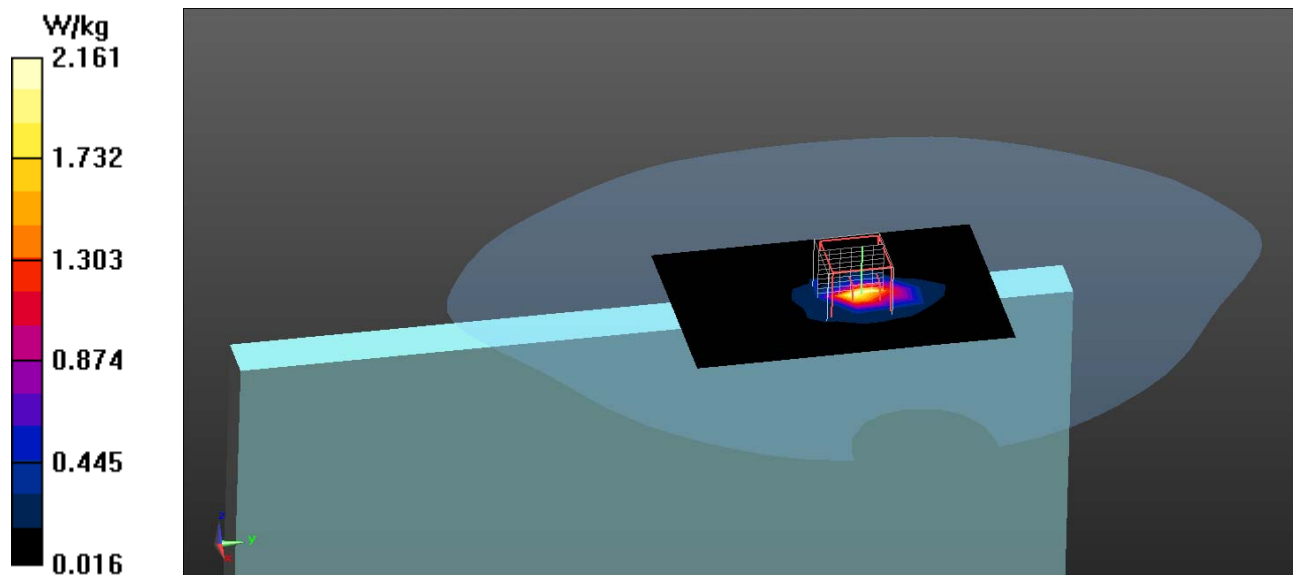
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 23.195 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 6.653 mW/g

SAR(1 g) = 1.43 mW/g; SAR(10 g) = 0.455 mW/g

Maximum value of SAR (measured) = 2.70 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5260-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5260 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5260$ MHz; $\sigma = 5.31$ mho/m; $\epsilon_r = 49.57$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.02, 4.02, 4.02); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 1.91 W/kg

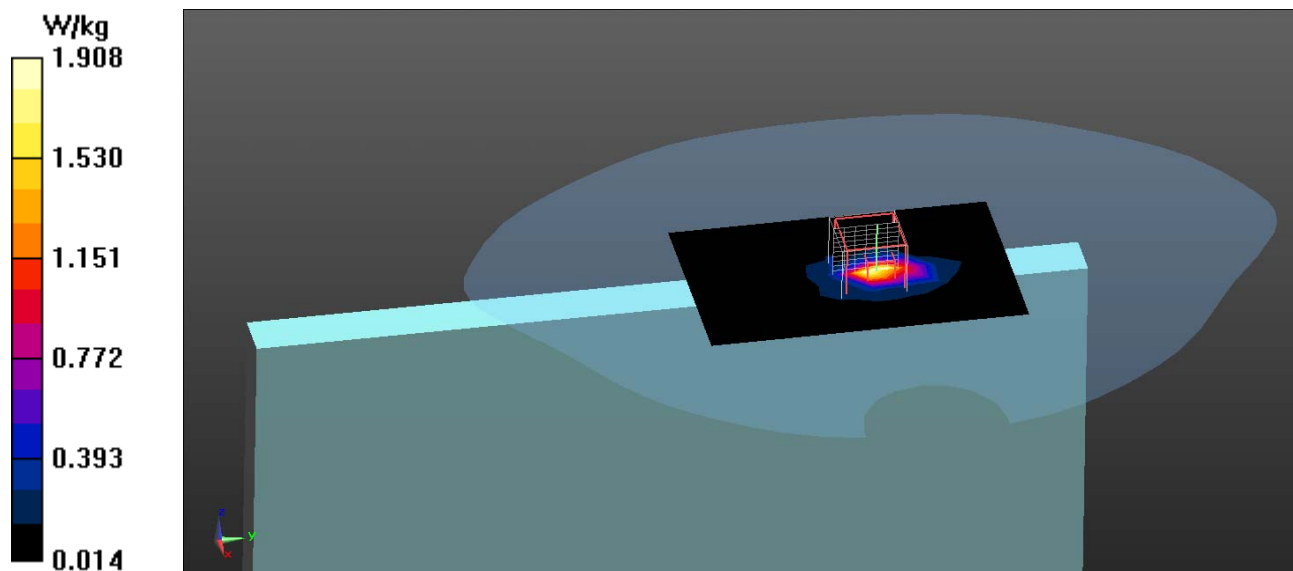
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 21.734 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 5.757 mW/g

SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.394 mW/g

Maximum value of SAR (measured) = 2.32 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5280-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5280 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 5280$ MHz; $\sigma = 5.34$ mho/m; $\epsilon_r = 49.42$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.02, 4.02, 4.02); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 1.94 W/kg

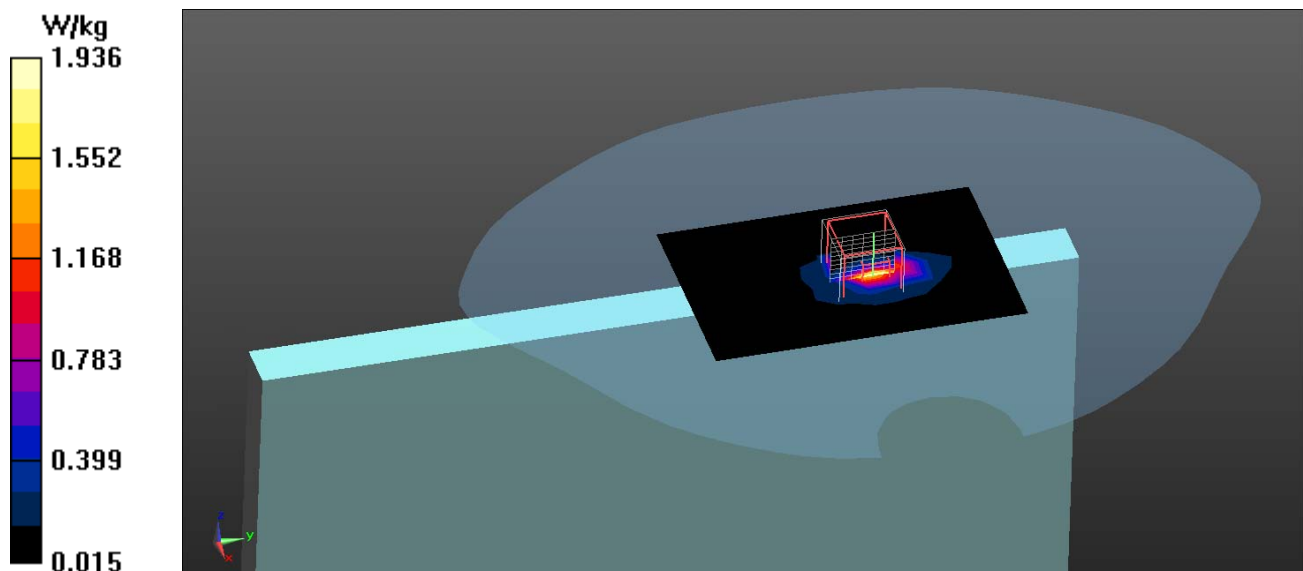
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 21.890 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 5.961 mW/g

SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.406 mW/g

Maximum value of SAR (measured) = 2.43 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5300-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5300 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5300$ MHz; $\sigma = 5.38$ mho/m; $\epsilon_r = 49.25$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.02, 4.02, 4.02); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 1.99 W/kg

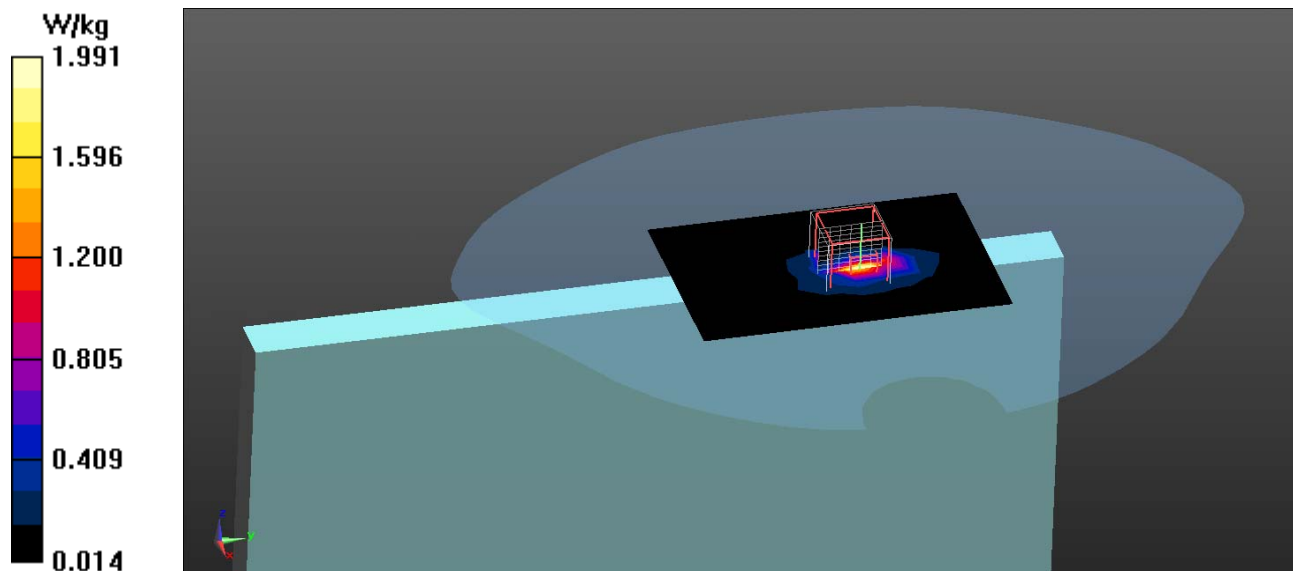
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 21.954 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 6.271 mW/g

SAR(1 g) = 1.48 mW/g; SAR(10 g) = 0.420 mW/g

Maximum value of SAR (measured) = 2.57 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5320-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5320 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5320$ MHz; $\sigma = 5.43$ mho/m; $\epsilon_r = 49.04$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.02, 4.02, 4.02); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 1.86 W/kg

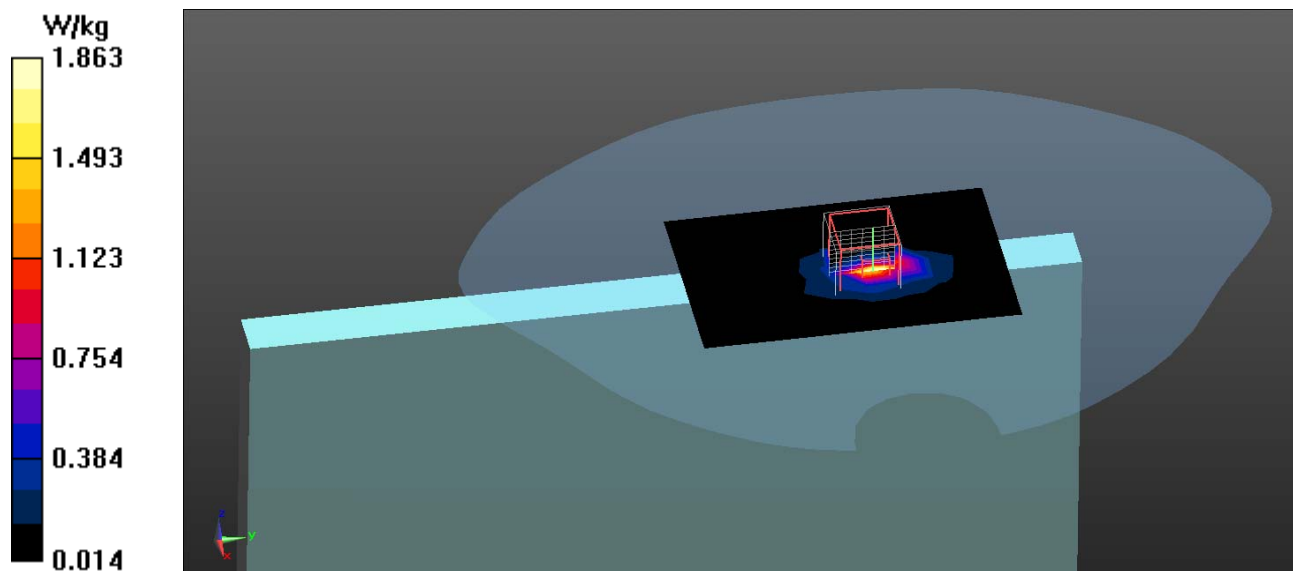
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 20.783 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 5.924 mW/g

SAR(1 g) = 1.38 mW/g; SAR(10 g) = 0.393 mW/g

Maximum value of SAR (measured) = 2.44 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5500-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5500 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ mho/m; $\epsilon_r = 47.75$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.76, 3.76, 3.76); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 2.25 W/kg

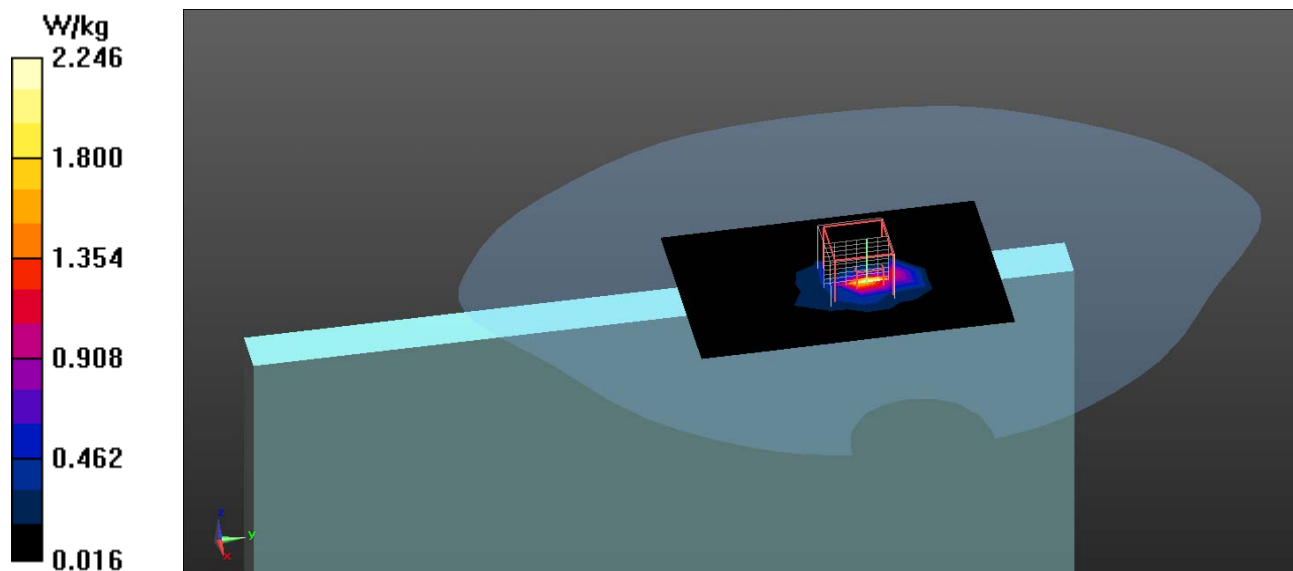
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 22.408 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 7.051 mW/g

SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.449 mW/g

Maximum value of SAR (measured) = 2.82 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5580-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5580 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.75$ mho/m; $\epsilon_r = 47.03$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.72, 3.72, 3.72); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 2.59 W/kg

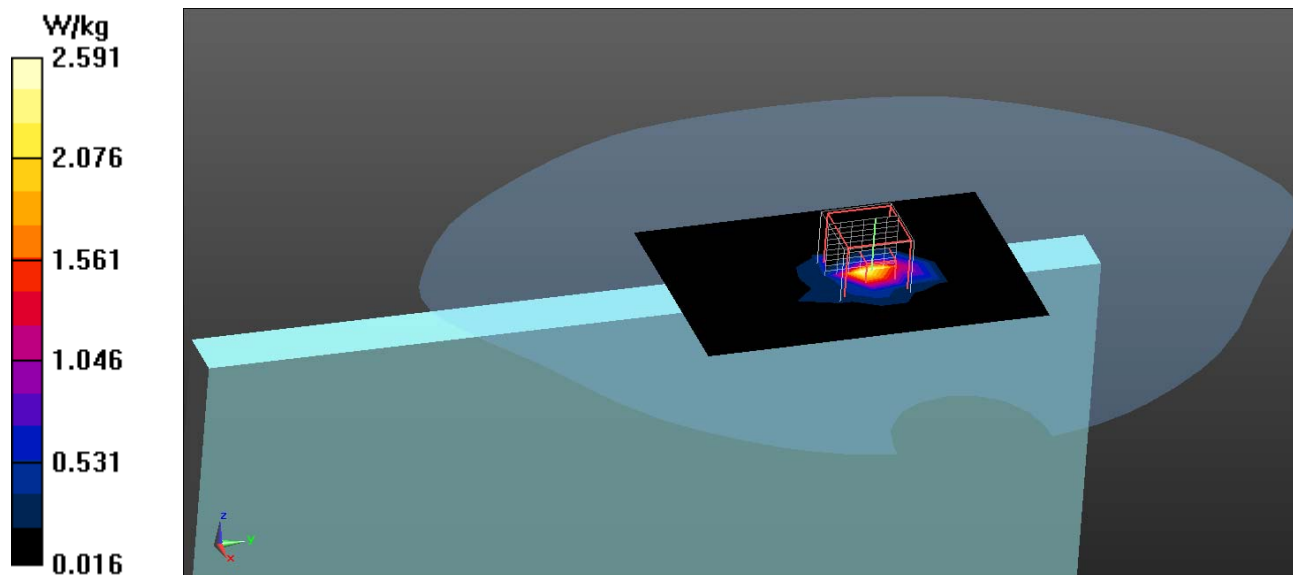
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 22.718 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 7.557 mW/g

SAR(1 g) = 1.50 mW/g; SAR(10 g) = 0.477 mW/g

Maximum value of SAR (measured) = 2.95 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5700-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5700 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5700$ MHz; $\sigma = 6.06$ mho/m; $\epsilon_r = 46.92$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.72, 3.72, 3.72); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 2.48 W/kg

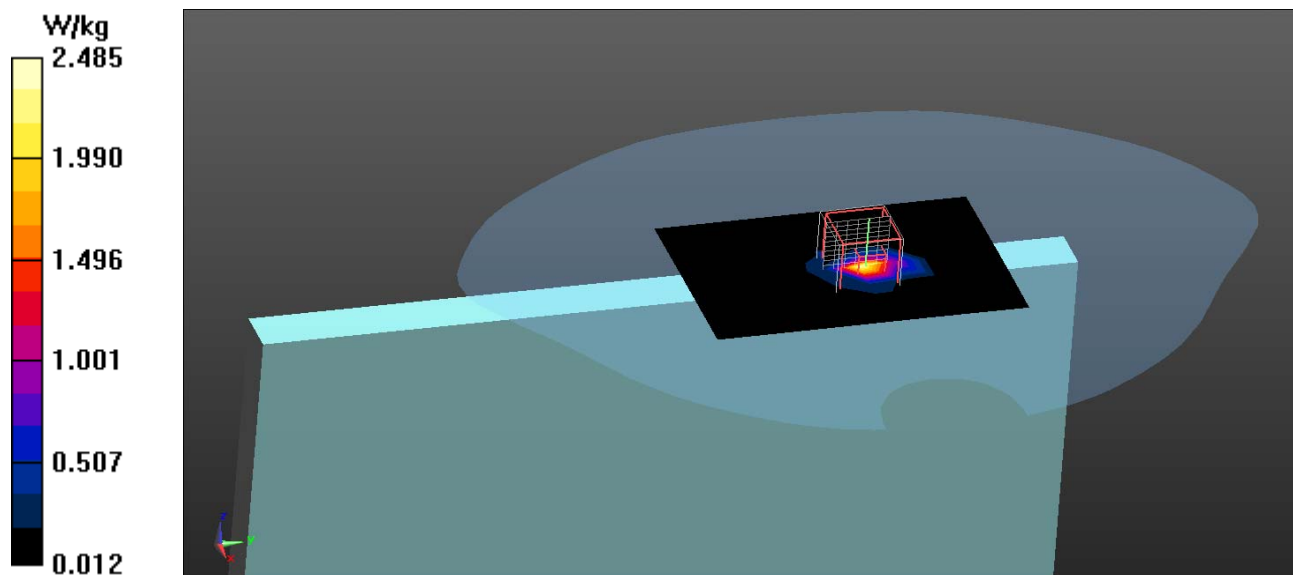
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 21.788 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 6.069 mW/g

SAR(1 g) = 1.38 mW/g; SAR(10 g) = 0.381 mW/g

Maximum value of SAR (measured) = 2.61 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5745-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5745 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5745$ MHz; $\sigma = 6.12$ mho/m; $\epsilon_r = 46.44$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.86, 3.86, 3.86); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 2.53 W/kg

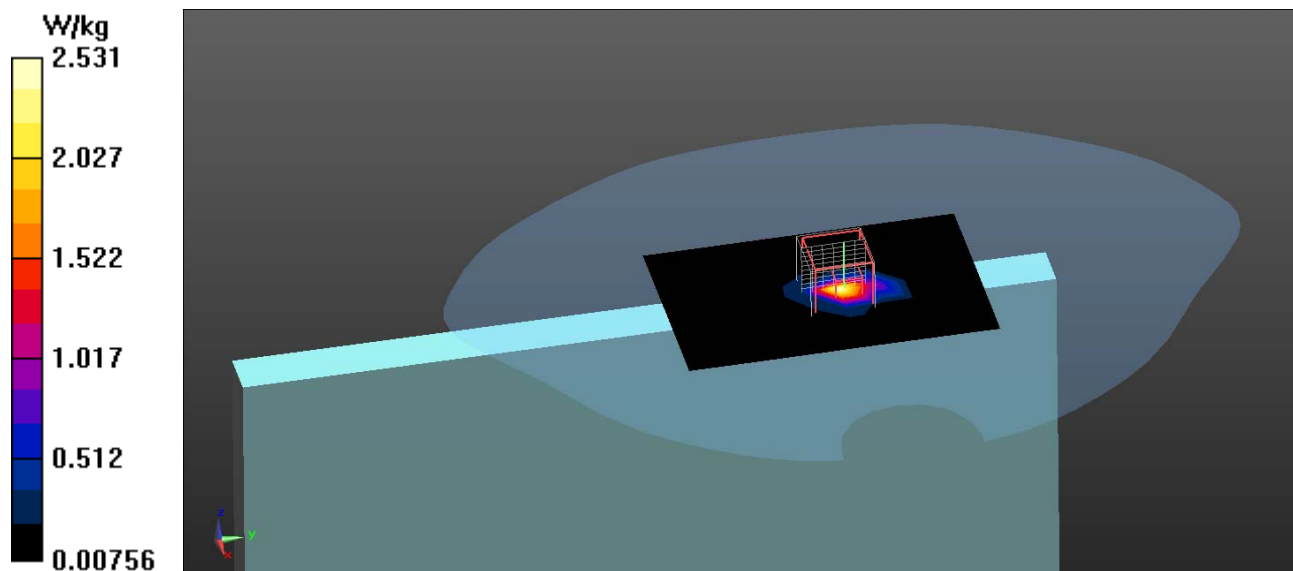
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 21.664 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 6.279 mW/g

SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.391 mW/g

Maximum value of SAR (measured) = 2.56 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5785-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5785 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5785$ MHz; $\sigma = 6.16$ mho/m; $\epsilon_r = 46.25$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.86, 3.86, 3.86); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 2.57 W/kg

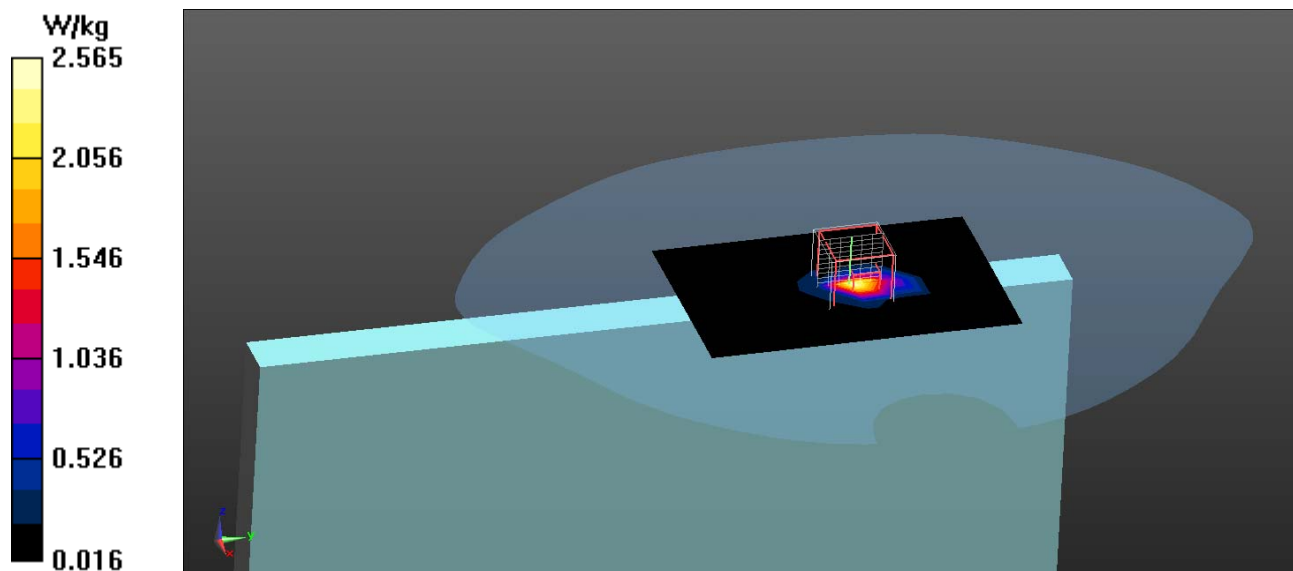
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 21.867 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 6.862 mW/g

SAR(1 g) = 1.47 mW/g; SAR(10 g) = 0.413 mW/g

Maximum value of SAR (measured) = 2.72 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5825-Top Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5825 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5825$ MHz; $\sigma = 6.24$ mho/m; $\epsilon_r = 45.89$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.86, 3.86, 3.86); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 2.53 W/kg

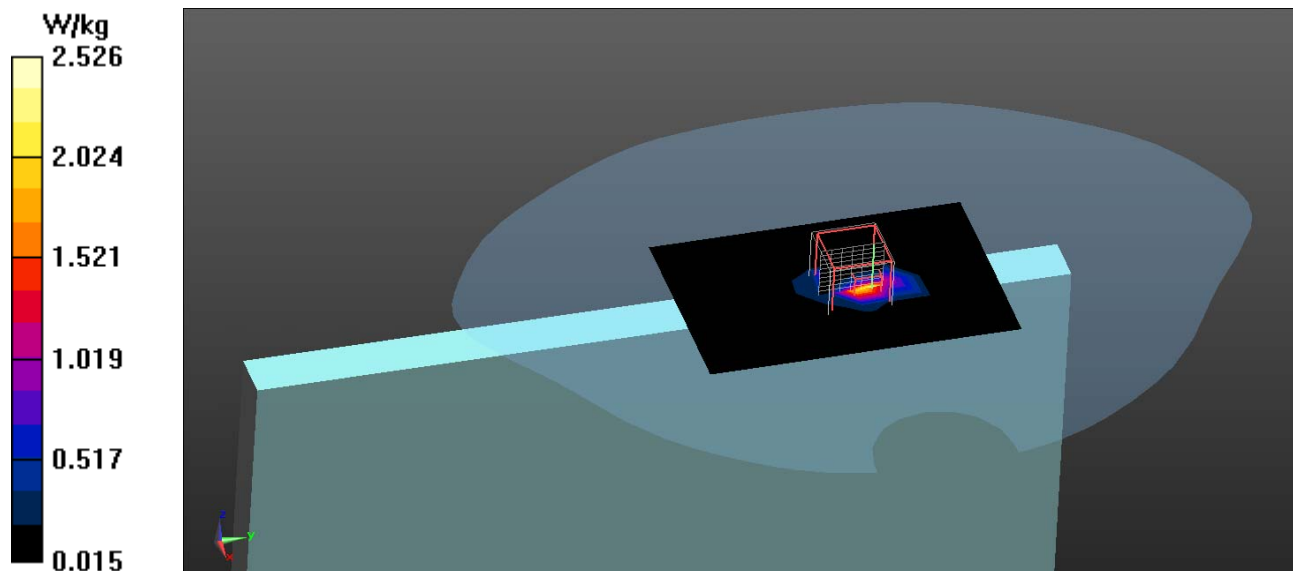
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 21.822 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 7.023 mW/g

SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.425 mW/g

Maximum value of SAR (measured) = 2.72 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5180-Back Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5180 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.14 \text{ mho/m}$; $\epsilon_r = 50.37$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.1, Liquid Temperature ($^{\circ}\text{C}$) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 0.776 W/kg

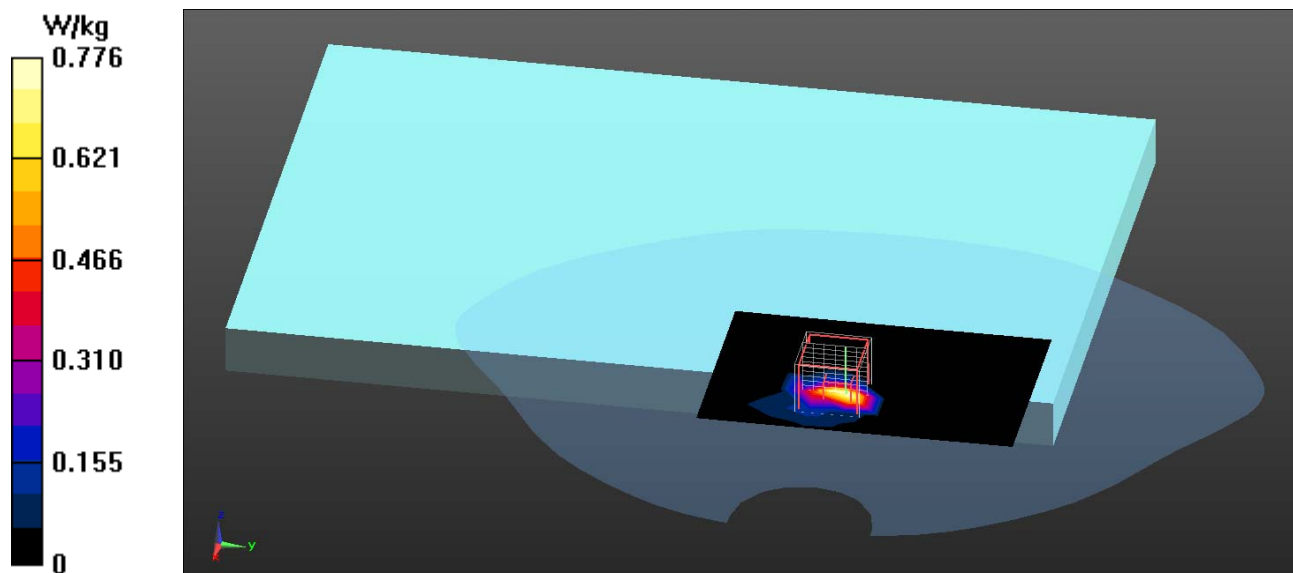
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.598 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.222 mW/g

SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.131 mW/g

Maximum value of SAR (measured) = 0.915 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5180-Side Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5180 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5180$ MHz; $\sigma = 5.14$ mho/m; $\epsilon_r = 50.37$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.0234 W/kg

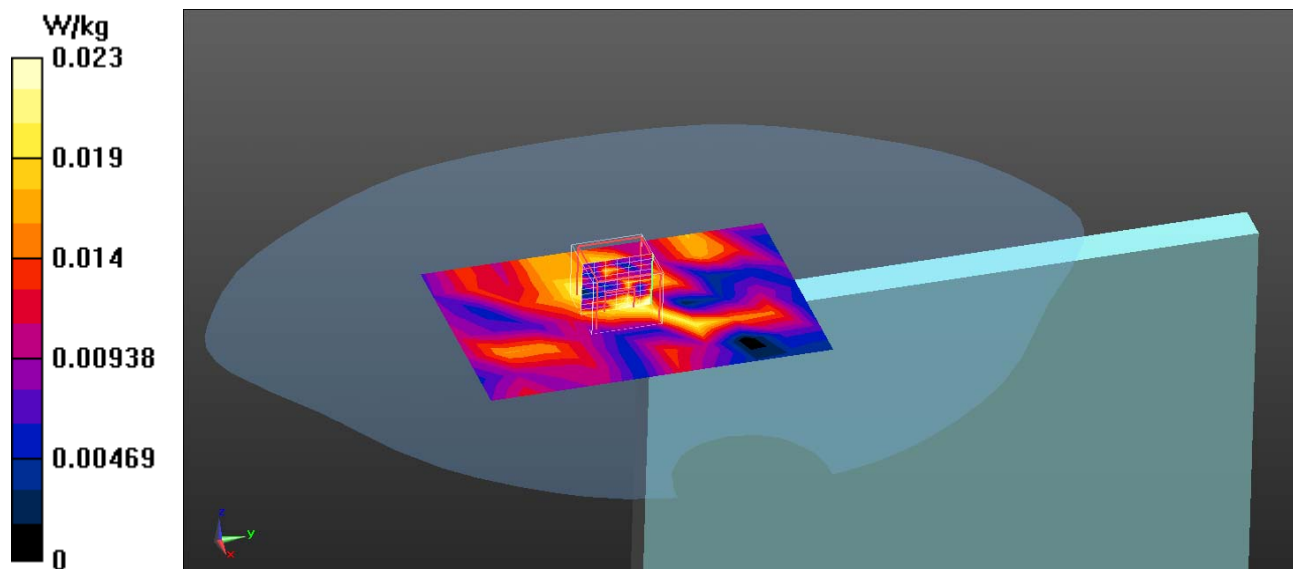
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.150 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.118 mW/g

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00904 mW/g

Maximum value of SAR (measured) = 0.0297 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5180-Bottom Chain A

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5180 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.14 \text{ mho/m}$; $\epsilon_r = 50.37$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.1, Liquid Temperature ($^{\circ}\text{C}$) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 0.488 W/kg

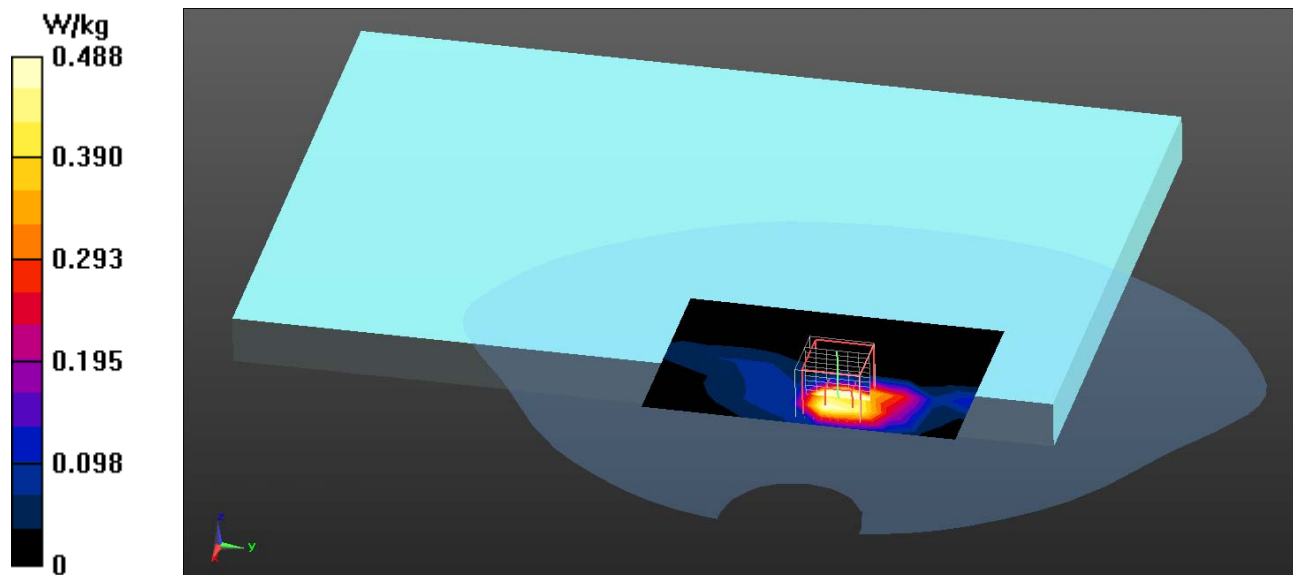
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.815 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.796 mW/g

SAR(1 g) = 0.652 mW/g; SAR(10 g) = 0.184 mW/g

Maximum value of SAR (measured) = 1.21 W/kg



Antenna Kit : Foxconn Chain B Antenna: P/N: WDAN-IJU26V01-DH

Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5180-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5180 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5180$ MHz; $\sigma = 5.14$ mho/m; $\epsilon_r = 50.37$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x8x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.680 W/kg

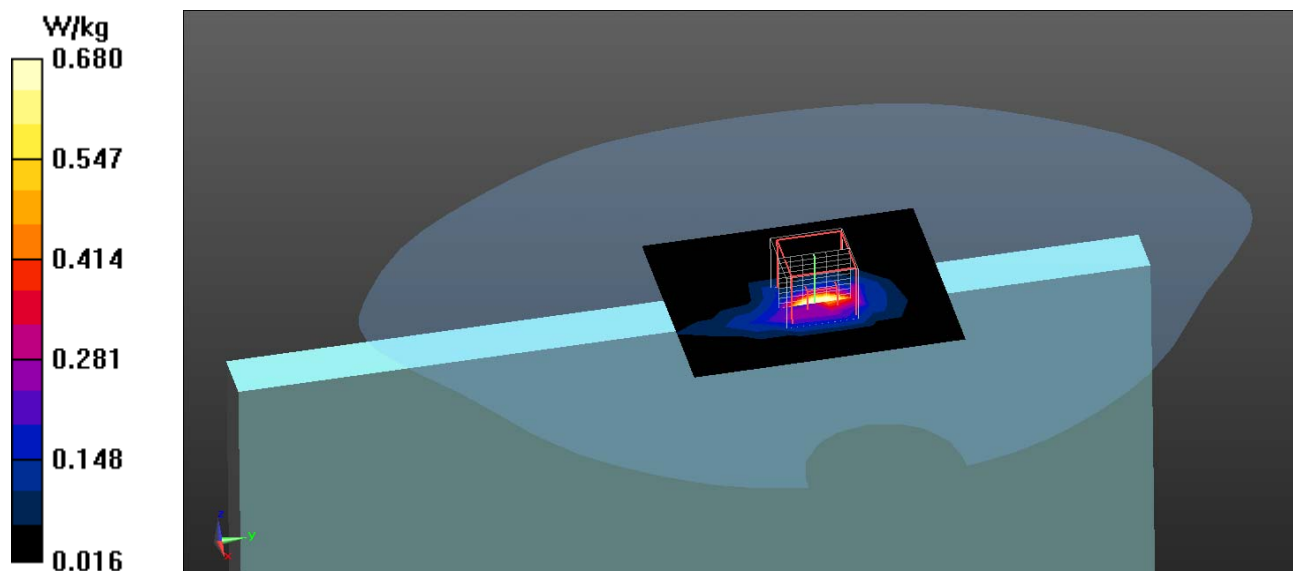
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.723 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 3.390 mW/g

SAR(1 g) = 0.679 mW/g; SAR(10 g) = 0.195 mW/g

Maximum value of SAR (measured) = 1.16 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5220-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5220 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5220$ MHz; $\sigma = 5.23$ mho/m; $\epsilon_r = 50.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x8x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.997 W/kg

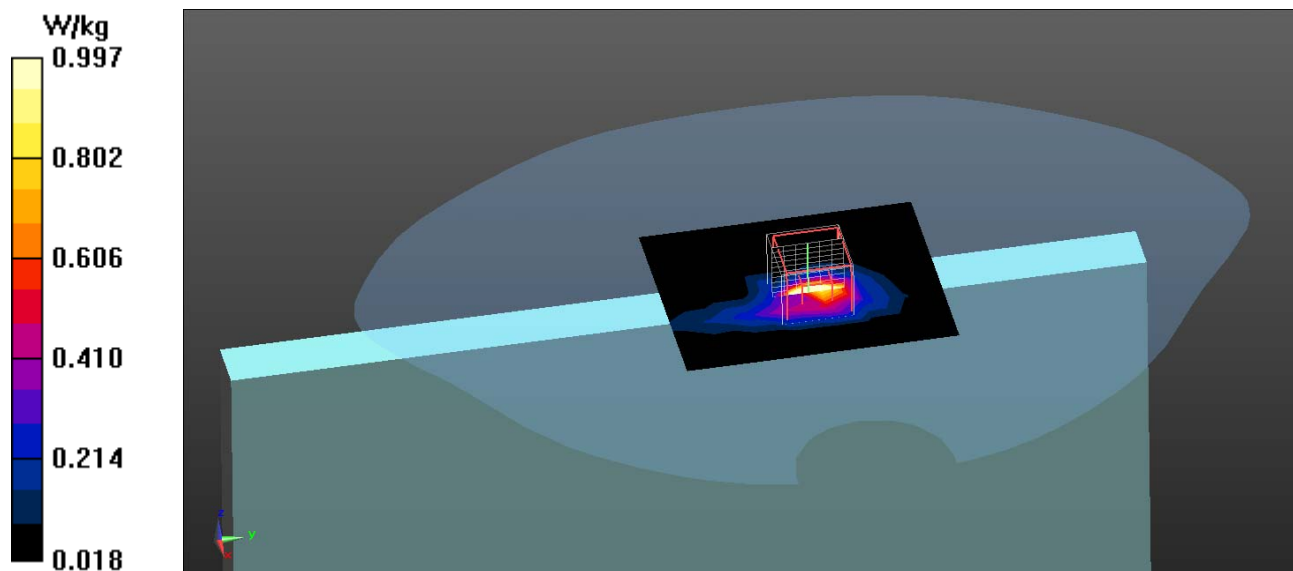
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.014 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 6.093 mW/g

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.296 mW/g

Maximum value of SAR (measured) = 1.95 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5240-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5240 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5240$ MHz; $\sigma = 5.28$ mho/m; $\epsilon_r = 49.86$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x8x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 1.12 W/kg

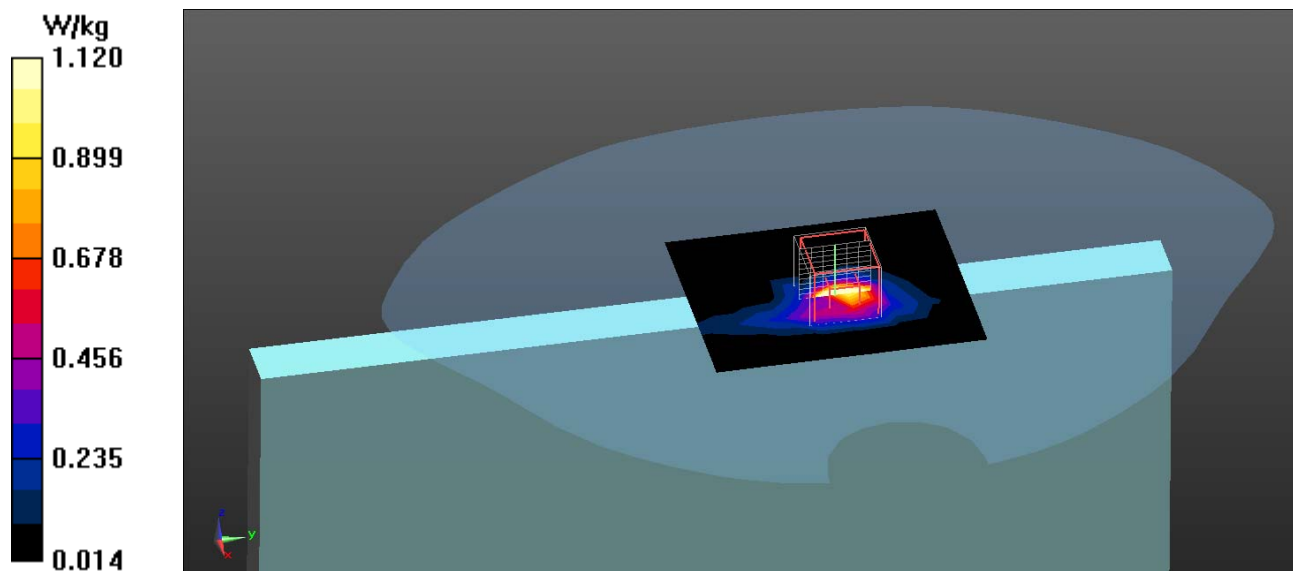
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.778 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 5.180 mW/g

SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.312 mW/g

Maximum value of SAR (measured) = 2.20 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5260-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5260 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.31 \text{ mho/m}$; $\epsilon_r = 49.57$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.1, Liquid Temperature ($^{\circ}\text{C}$) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.02, 4.02, 4.02); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x8x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 1.43 W/kg

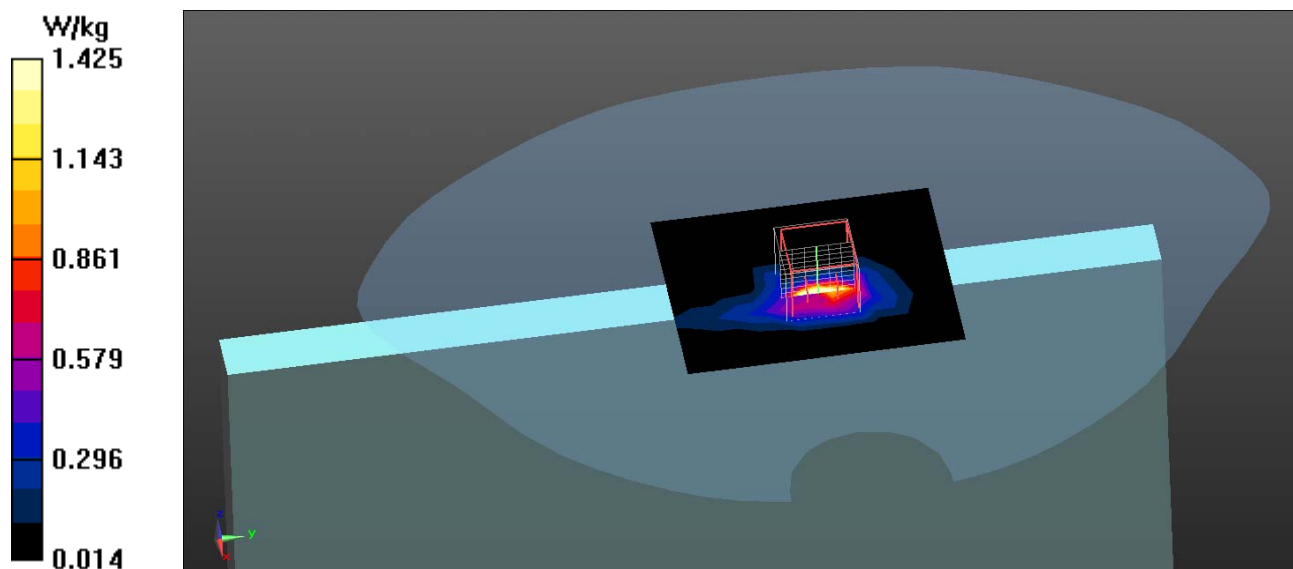
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 14.523 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 10.527 mW/g

SAR(1 g) = 1.40 mW/g; SAR(10 g) = 0.409 mW/g

Maximum value of SAR (measured) = 2.66 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5280-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5280 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 5280$ MHz; $\sigma = 5.34$ mho/m; $\epsilon_r = 49.42$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

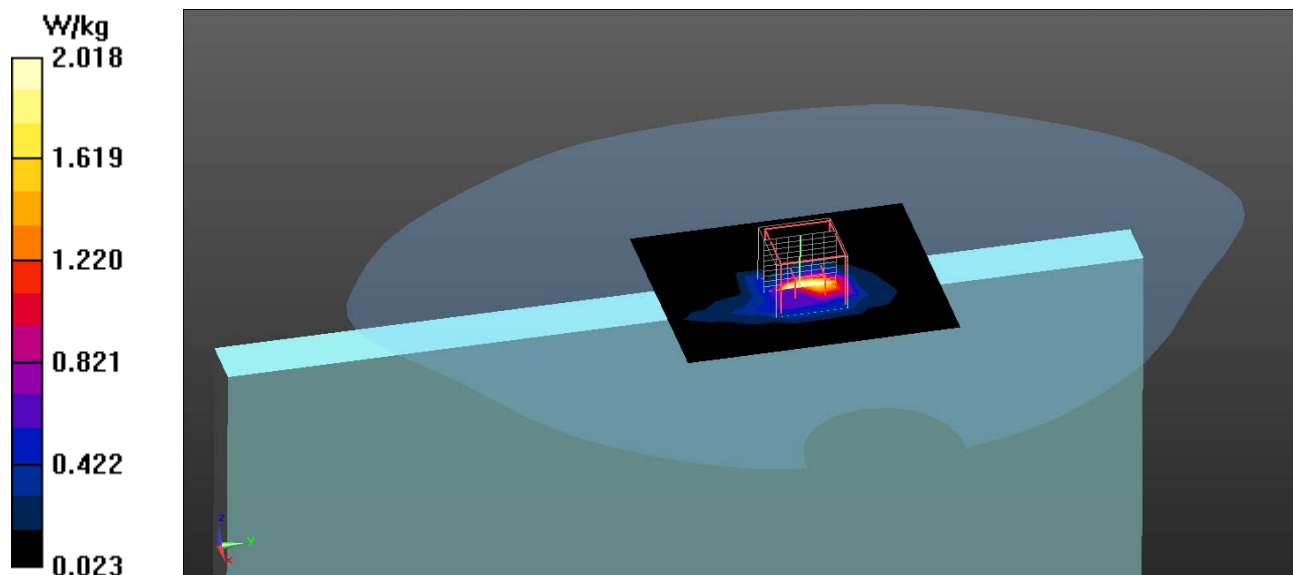
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.02, 4.02, 4.02); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x8x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 2.02 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm
Reference Value = 19.655 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 7.888 mW/g
SAR(1 g) = 1.43 mW/g; SAR(10 g) = 0.429 mW/g
Maximum value of SAR (measured) = 3.03 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5300-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5300 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5300$ MHz; $\sigma = 5.38$ mho/m; $\epsilon_r = 49.25$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.02, 4.02, 4.02); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x8x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 1.17 W/kg

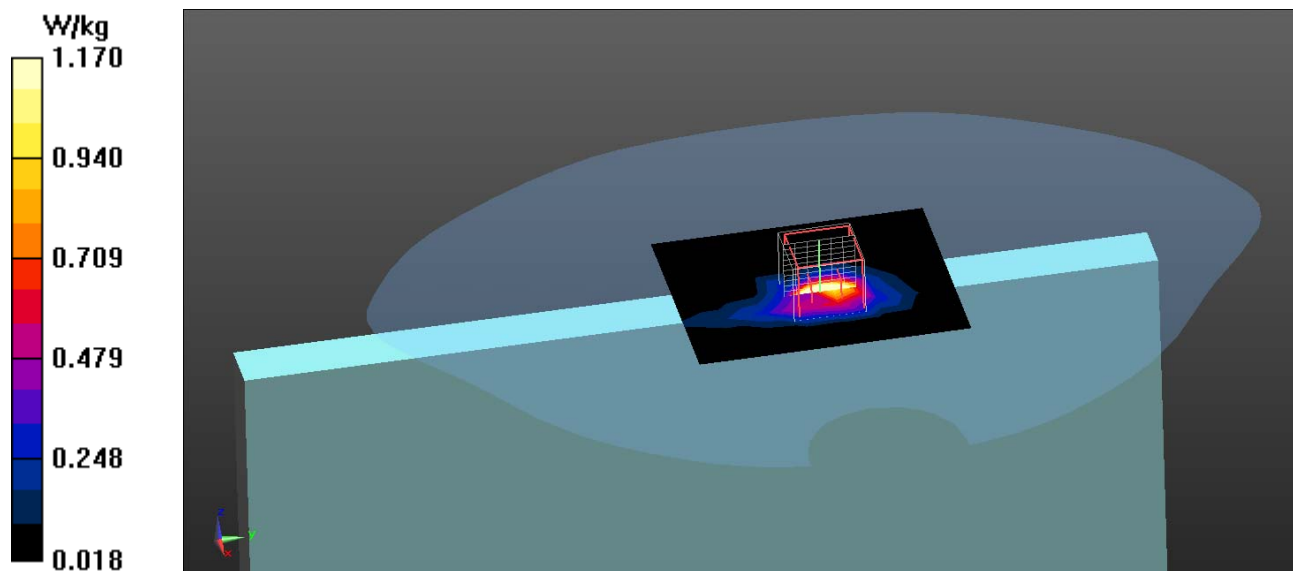
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.209 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 6.035 mW/g

SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.342 mW/g

Maximum value of SAR (measured) = 2.45 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5320-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5320 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5320$ MHz; $\sigma = 5.43$ mho/m; $\epsilon_r = 49.04$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.02, 4.02, 4.02); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x8x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 1.15 W/kg

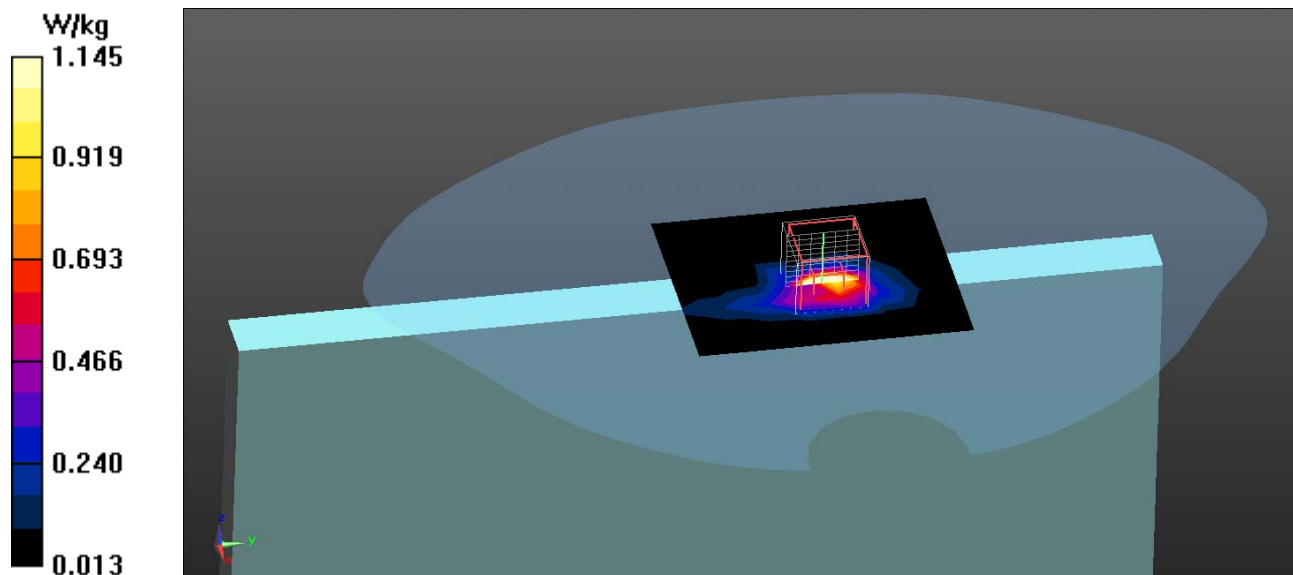
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.167 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 6.012 mW/g

SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.338 mW/g

Maximum value of SAR (measured) = 2.45 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5500-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5500 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ mho/m; $\epsilon_r = 47.75$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.76, 3.76, 3.76); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 1.93 W/kg

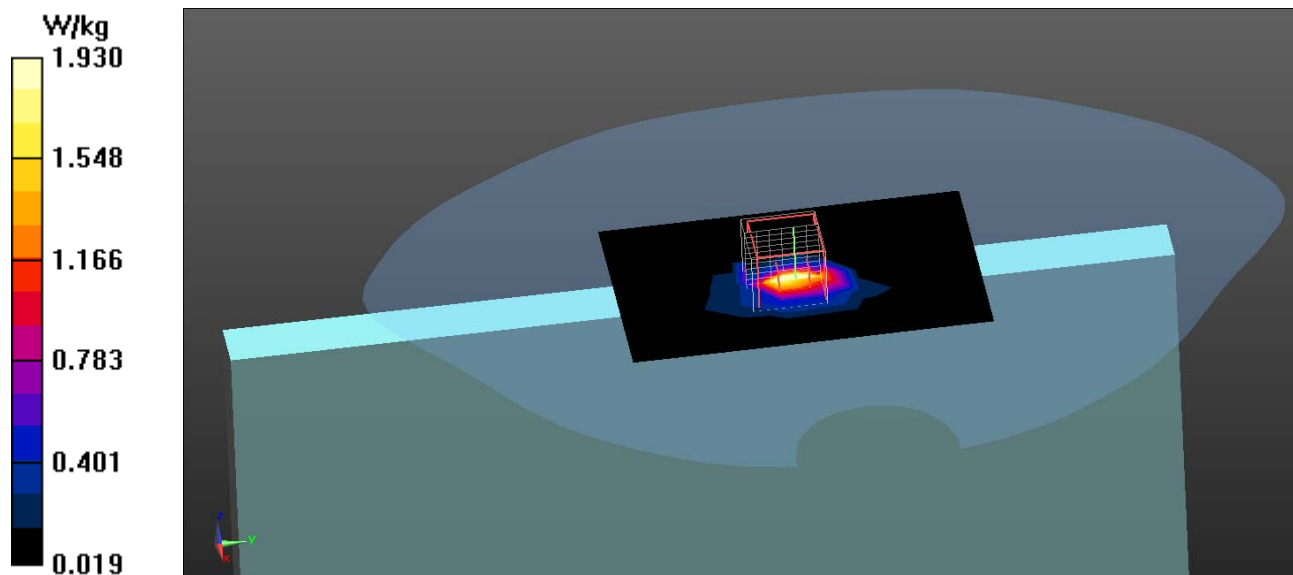
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.811 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 7.356 mW/g

SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.434 mW/g

Maximum value of SAR (measured) = 3.01 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5580-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5580 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5590$ MHz; $\sigma = 5.75$ mho/m; $\epsilon_r = 47.03$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.72, 3.72, 3.72); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x8x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.981 W/kg

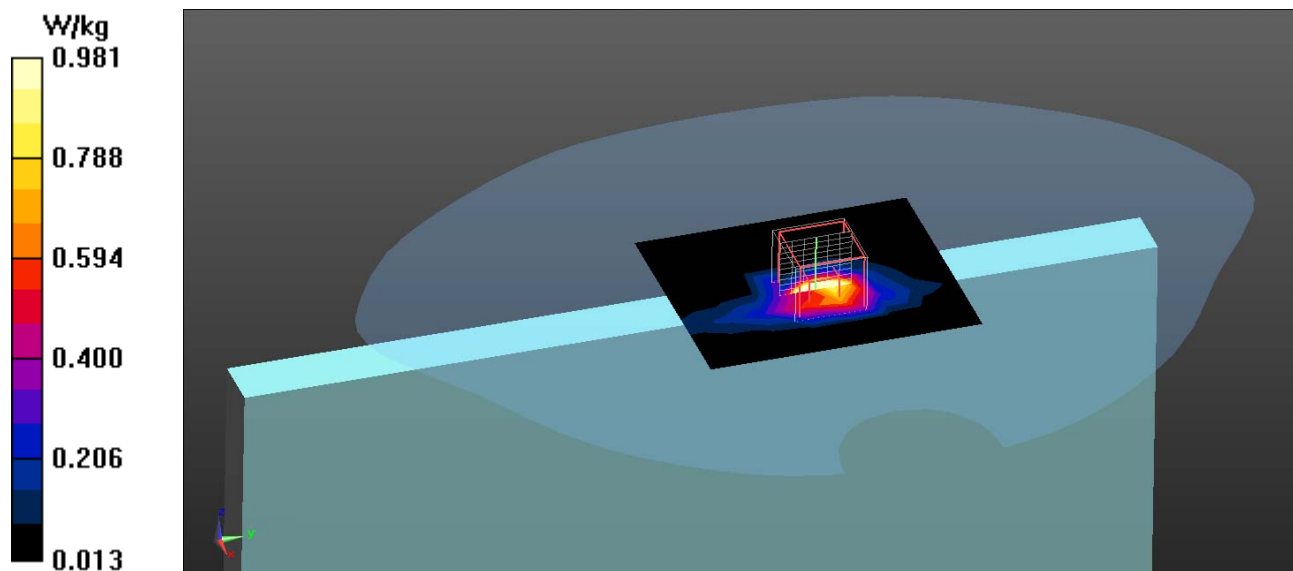
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.190 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 6.415 mW/g

SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.335 mW/g

Maximum value of SAR (measured) = 2.49 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5700-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5700 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5700$ MHz; $\sigma = 6.06$ mho/m; $\epsilon_r = 46.92$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.72, 3.72, 3.72); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x8x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 1.03 W/kg

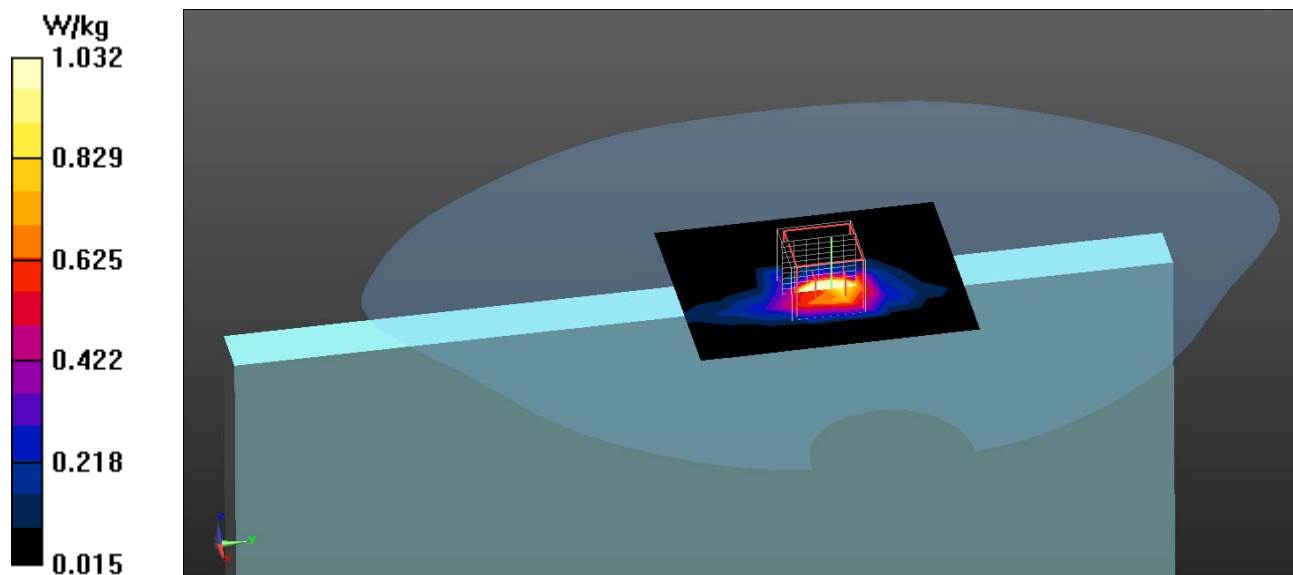
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.816 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 6.952 mW/g

SAR(1 g) = 1.42 mW/g; SAR(10 g) = 0.350 mW/g

Maximum value of SAR (measured) = 2.76 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5745-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5745 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5745$ MHz; $\sigma = 6.12$ mho/m; $\epsilon_r = 46.44$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.86, 3.86, 3.86); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x8x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 1.18 W/kg

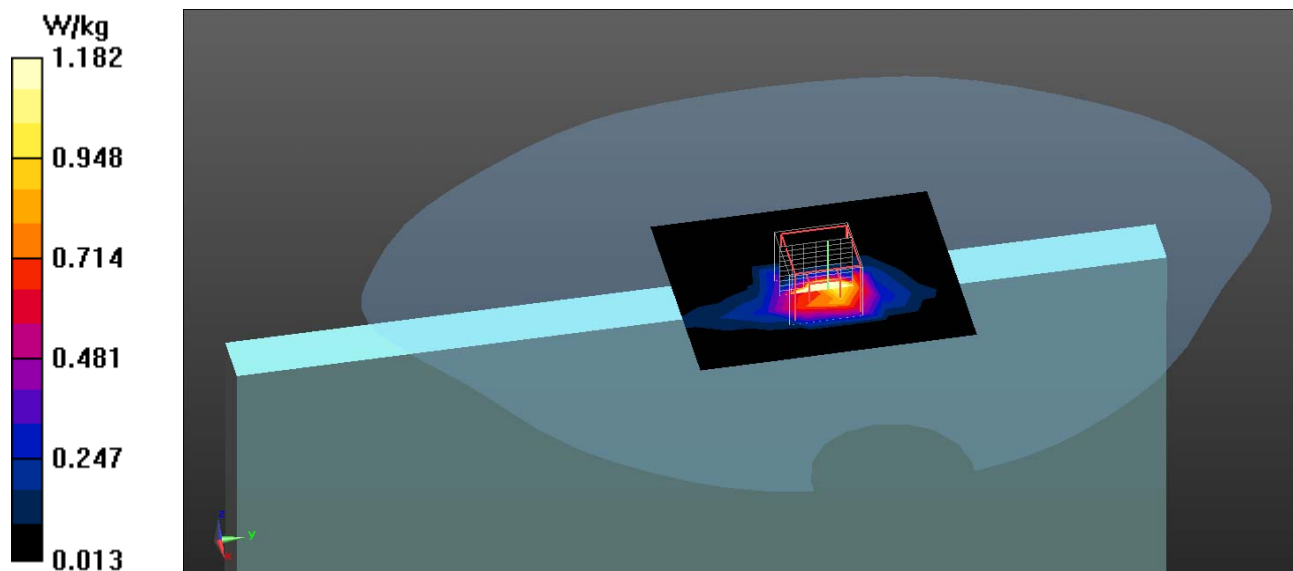
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.709 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 9.793 mW/g

SAR(1 g) = 1.43 mW/g; SAR(10 g) = 0.405 mW/g

Maximum value of SAR (measured) = 3.19 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5785-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5785 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5785$ MHz; $\sigma = 6.16$ mho/m; $\epsilon_r = 46.25$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.86, 3.86, 3.86); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.980 W/kg

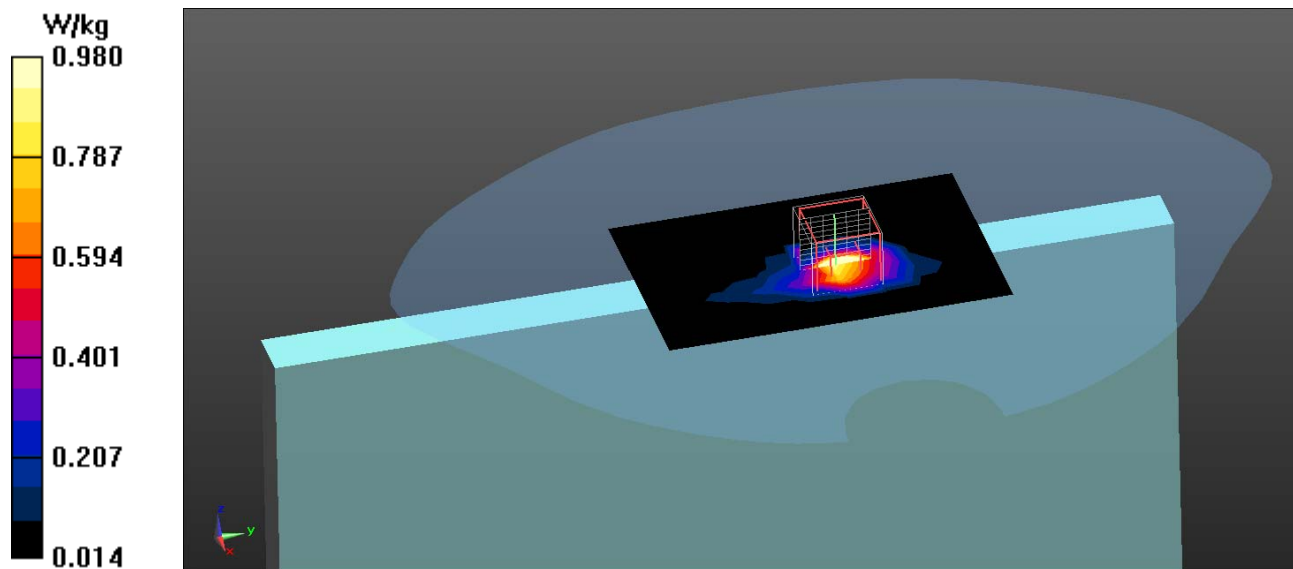
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.954 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 5.879 mW/g

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.298 mW/g

Maximum value of SAR (measured) = 2.21 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a_5825-Top Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5825 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.24 \text{ mho/m}$; $\epsilon_r = 45.89$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.1, Liquid Temperature ($^{\circ}\text{C}$) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.86, 3.86, 3.86); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 0.822 W/kg

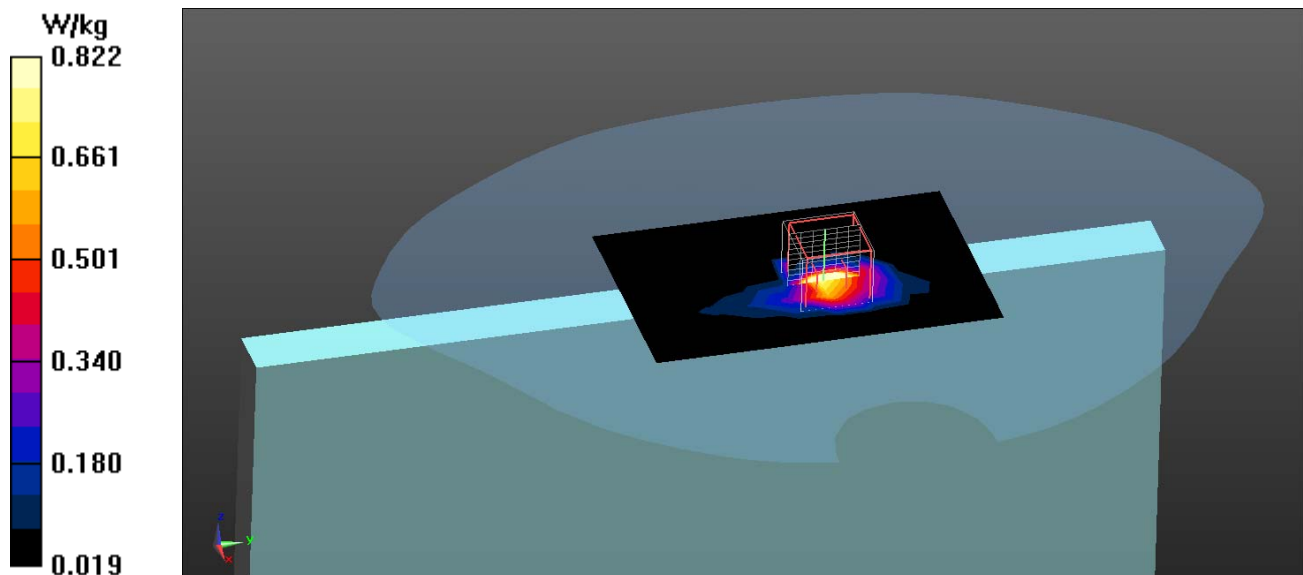
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 12.153 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 4.829 mW/g

SAR(1 g) = 0.958 mW/g; SAR(10 g) = 0.250 mW/g

Maximum value of SAR (measured) = 1.77 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5500-Back Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5500 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ mho/m; $\epsilon_r = 47.75$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.76, 3.76, 3.76); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.572 W/kg

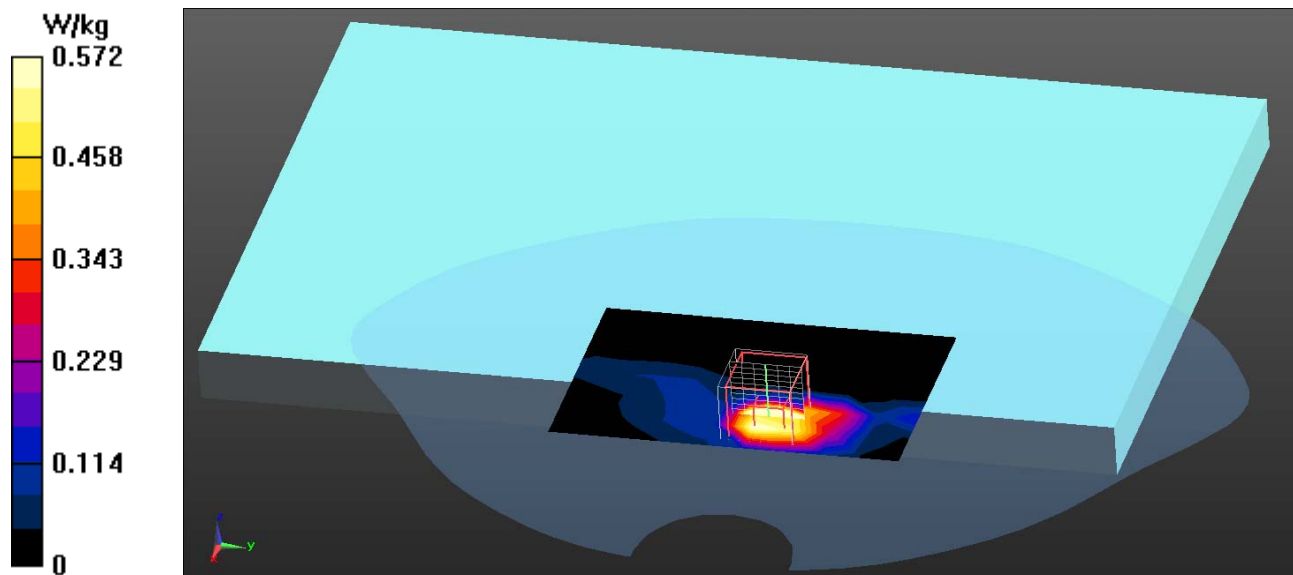
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.985 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 3.192 mW/g

SAR(1 g) = 0.713 mW/g; SAR(10 g) = 0.216 mW/g

Maximum value of SAR (measured) = 1.42 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5500-Side Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5500 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ mho/m; $\epsilon_r = 47.75$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.76, 3.76, 3.76); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.0203 W/kg

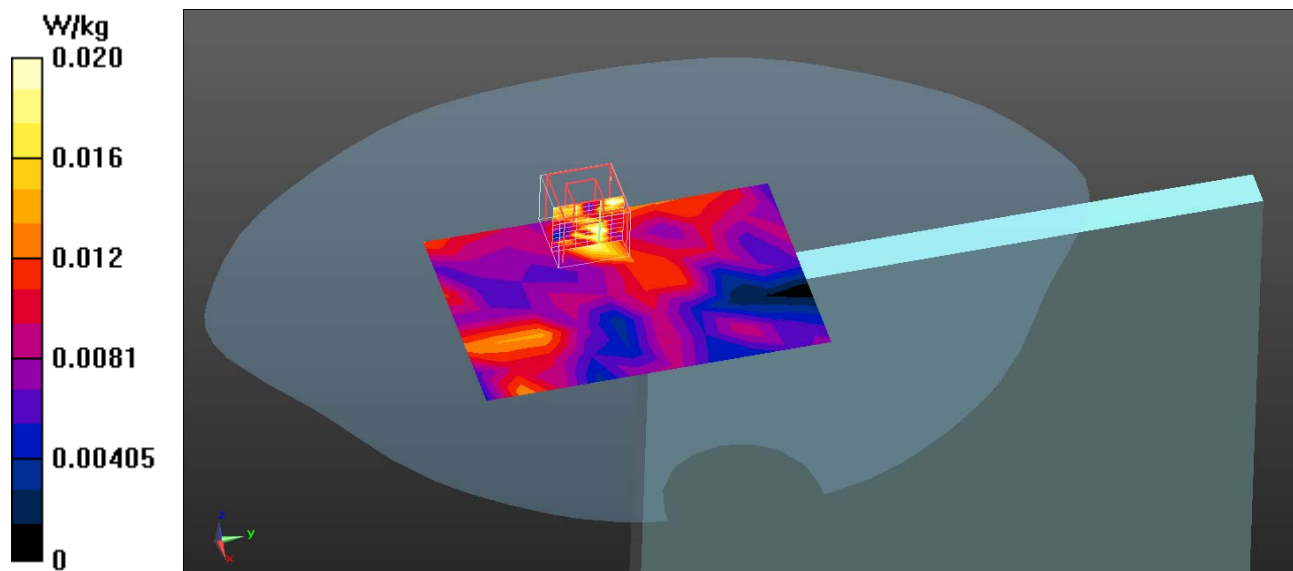
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.717 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.125 mW/g

SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00783 mW/g

Maximum value of SAR (measured) = 0.0293 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11a 5500-Bottom Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5500 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ mho/m; $\epsilon_r = 47.75$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.76, 3.76, 3.76); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x10x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.642 W/kg

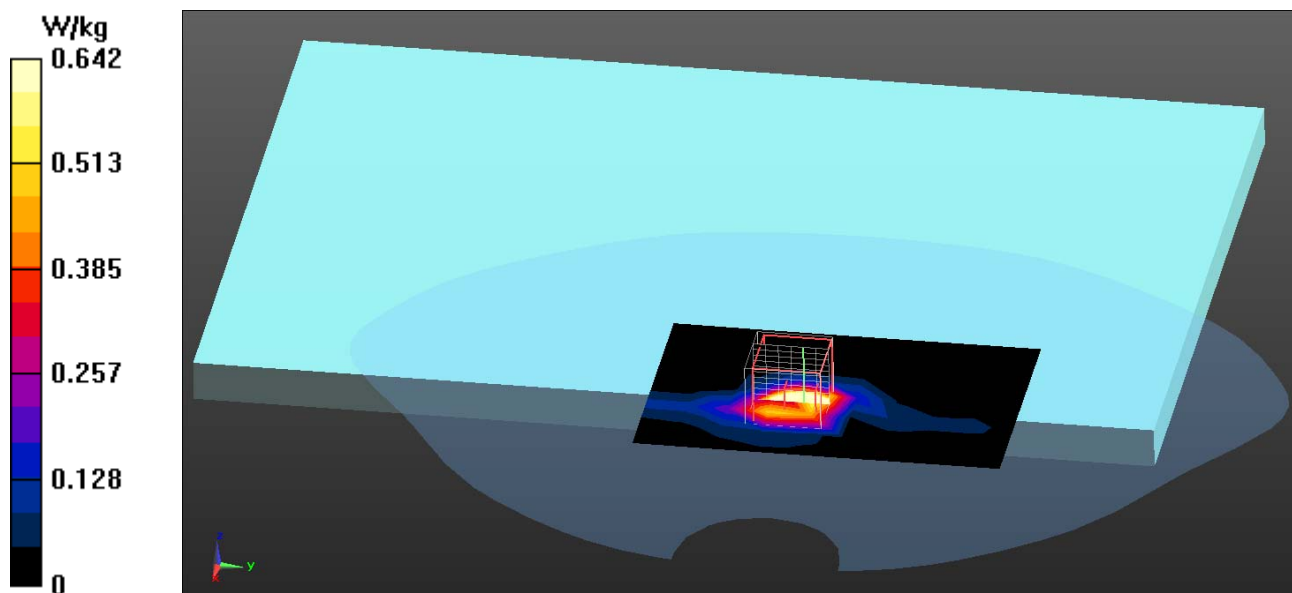
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.045 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 4.211 mW/g

SAR(1 g) = 0.785 mW/g; SAR(10 g) = 0.222 mW/g

Maximum value of SAR (measured) = 1.73 W/kg



Antenna Kit : Foxconn (Chain A + Chain B) Antenna: P/N: WDAN-IJU26V01-DH

Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5180-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5180 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5180$ MHz; $\sigma = 5.14$ mho/m; $\epsilon_r = 50.37$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: dx=13mm, dy=13mm

Maximum value of SAR (measured) = 0.767 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.482 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 6.598 mW/g

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.313 mW/g

Maximum value of SAR (measured) = 1.97 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:

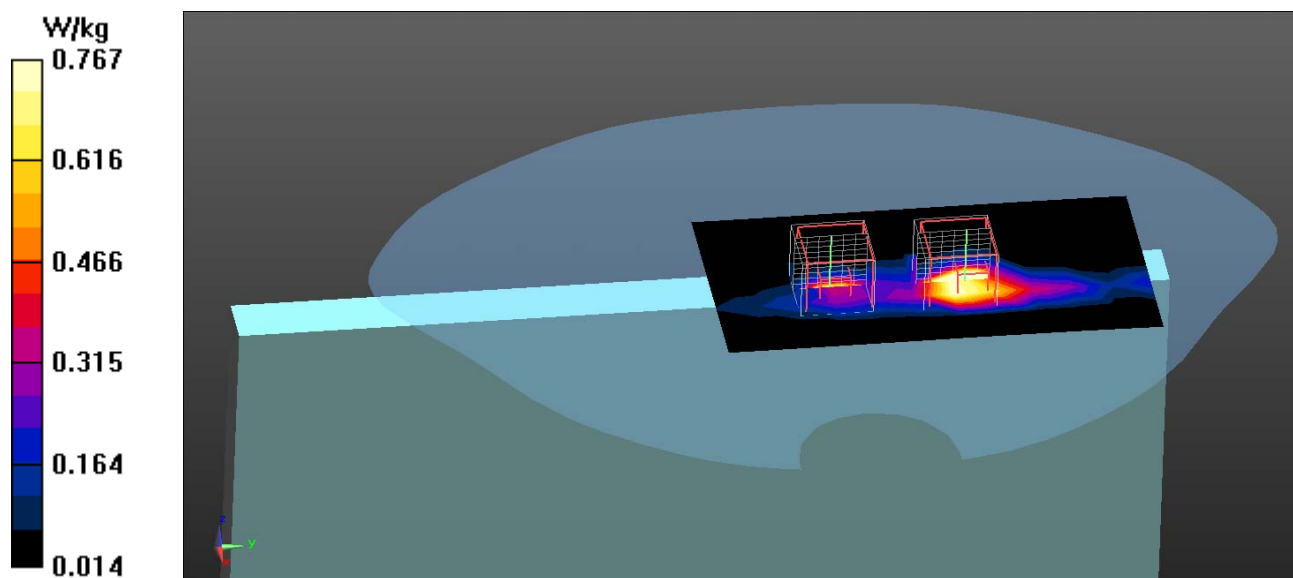
dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.482 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.082 mW/g

SAR(1 g) = 0.410 mW/g; SAR(10 g) = 0.127 mW/g

Maximum value of SAR (measured) = 0.740 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5220-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5220 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5220$ MHz; $\sigma = 5.23$ mho/m; $\epsilon_r = 50.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 1.15 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.610 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 6.148 mW/g

SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.339 mW/g

Maximum value of SAR (measured) = 2.29 W/kg

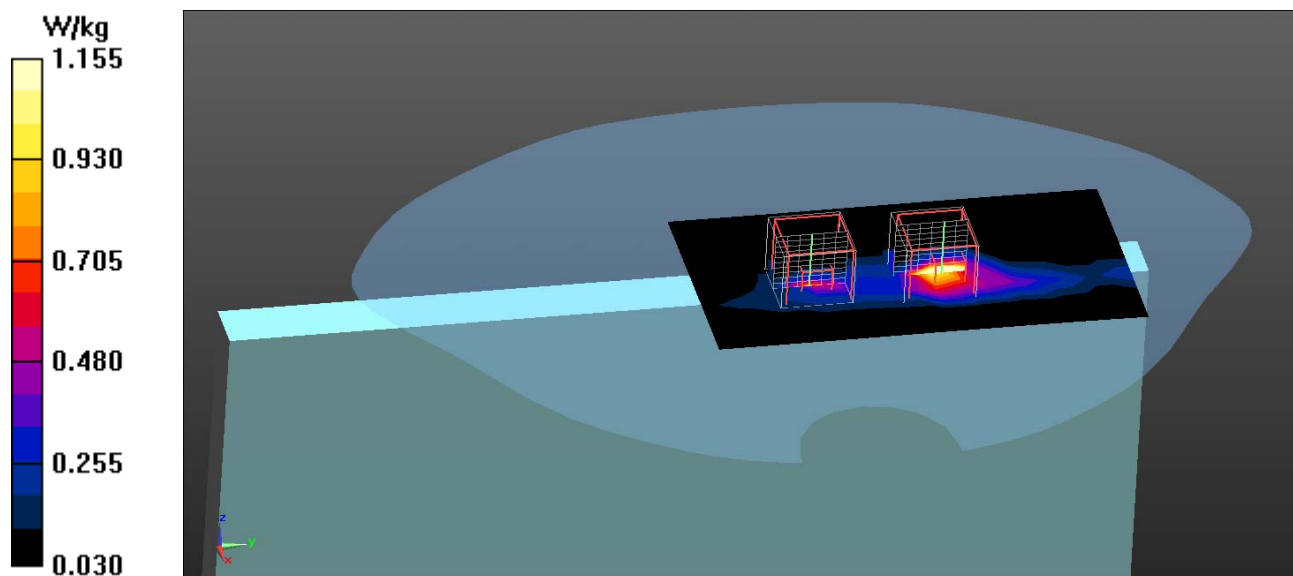
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.610 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 3.031 mW/g

SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.153 mW/g

Maximum value of SAR (measured) = 0.836 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5240-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5240 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 5.28 \text{ mho/m}$; $\epsilon_r = 49.86$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.1, Liquid Temperature ($^{\circ}\text{C}$) : 20.8

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

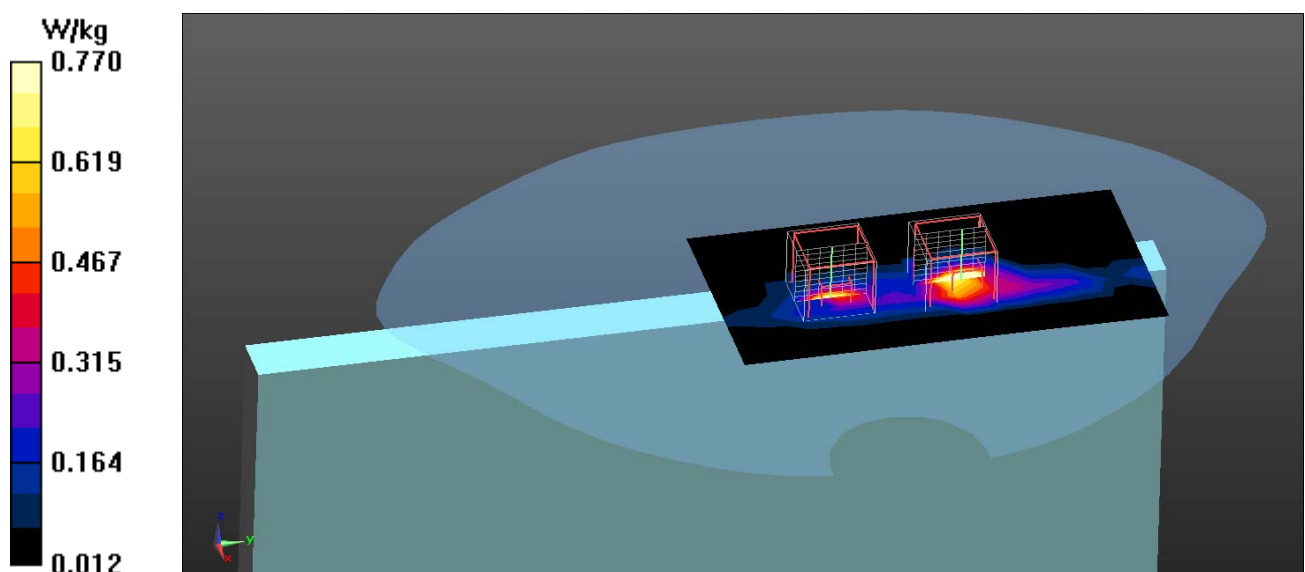
DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.2, 4.2, 4.2); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 0.770 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 10.768 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 4.157 mW/g
SAR(1 g) = 0.915 mW/g; SAR(10 g) = 0.253 mW/g
Maximum value of SAR (measured) = 1.58 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 10.768 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 2.257 mW/g
SAR(1 g) = 0.507 mW/g; SAR(10 g) = 0.163 mW/g
Maximum value of SAR (measured) = 0.857 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5260-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5260 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5260$ MHz; $\sigma = 5.31$ mho/m; $\epsilon_r = 49.57$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.02, 4.02, 4.02); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.830 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.934 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 4.615 mW/g

SAR(1 g) = 0.995 mW/g; SAR(10 g) = 0.275 mW/g

Maximum value of SAR (measured) = 1.72 W/kg

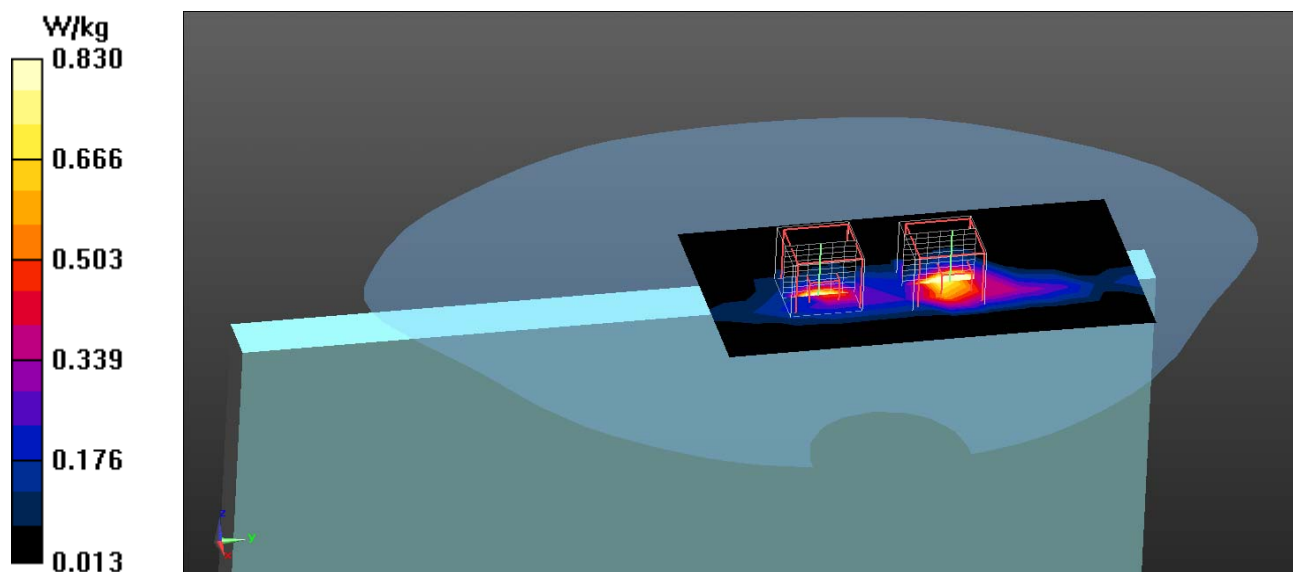
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.934 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 2.477 mW/g

SAR(1 g) = 0.563 mW/g; SAR(10 g) = 0.181 mW/g

Maximum value of SAR (measured) = 0.977 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5280-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5280 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.34 \text{ mho/m}$; $\epsilon_r = 49.42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.1, Liquid Temperature ($^{\circ}\text{C}$) : 20.8

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

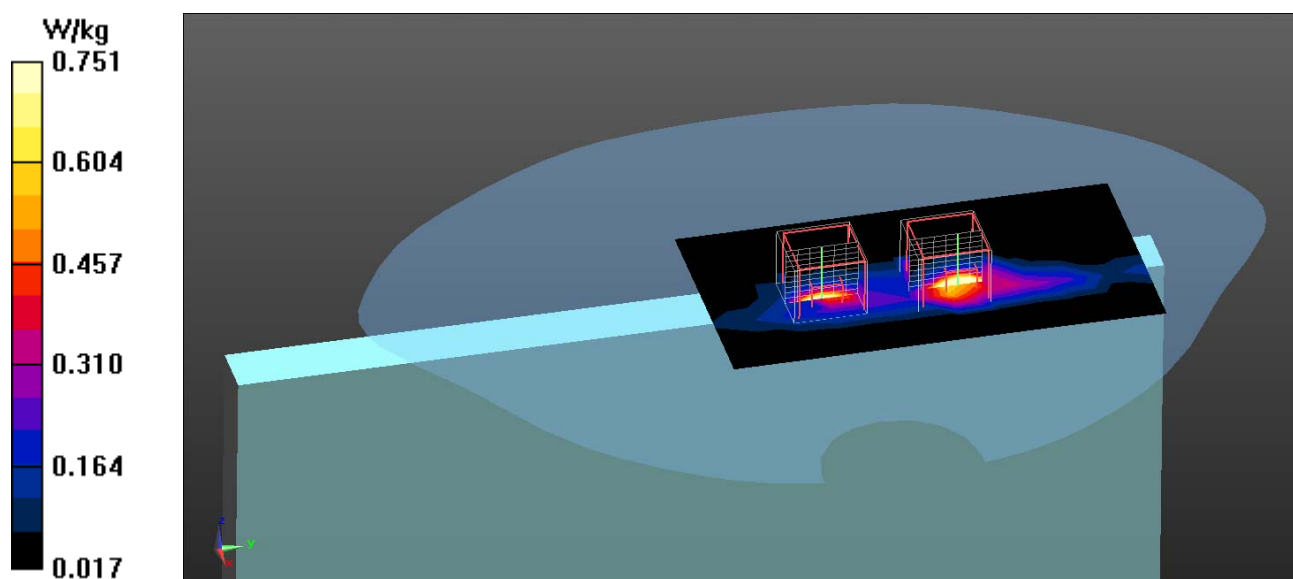
DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.02, 4.02, 4.02); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 0.751 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 10.760 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 4.383 mW/g
SAR(1 g) = 0.919 mW/g; SAR(10 g) = 0.254 mW/g
Maximum value of SAR (measured) = 1.61 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 10.760 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 2.316 mW/g
SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.171 mW/g
Maximum value of SAR (measured) = 0.933 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5300-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5300 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.38 \text{ mho/m}$; $\epsilon_r = 49.25$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.1, Liquid Temperature ($^{\circ}\text{C}$) : 20.8

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

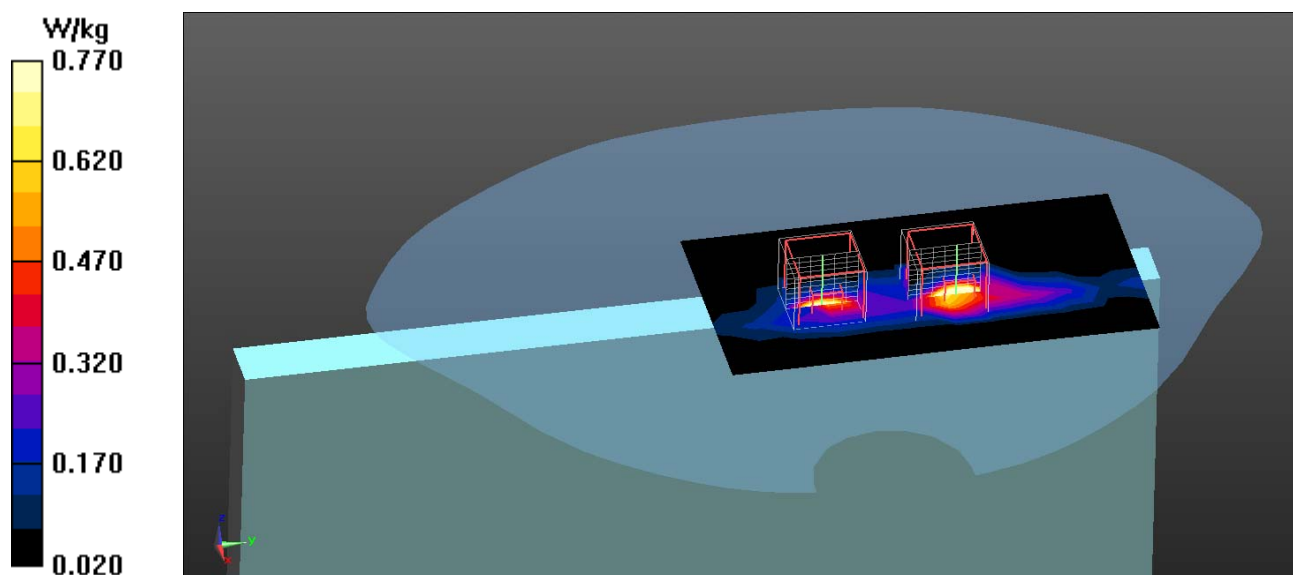
DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.02, 4.02, 4.02); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 0.770 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 11.154 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 4.584 mW/g
SAR(1 g) = 0.947 mW/g; SAR(10 g) = 0.261 mW/g
Maximum value of SAR (measured) = 1.67 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 11.154 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 2.433 mW/g
SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.179 mW/g
Maximum value of SAR (measured) = 0.991 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5320-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5320 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5320$ MHz; $\sigma = 5.43$ mho/m; $\epsilon_r = 49.04$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

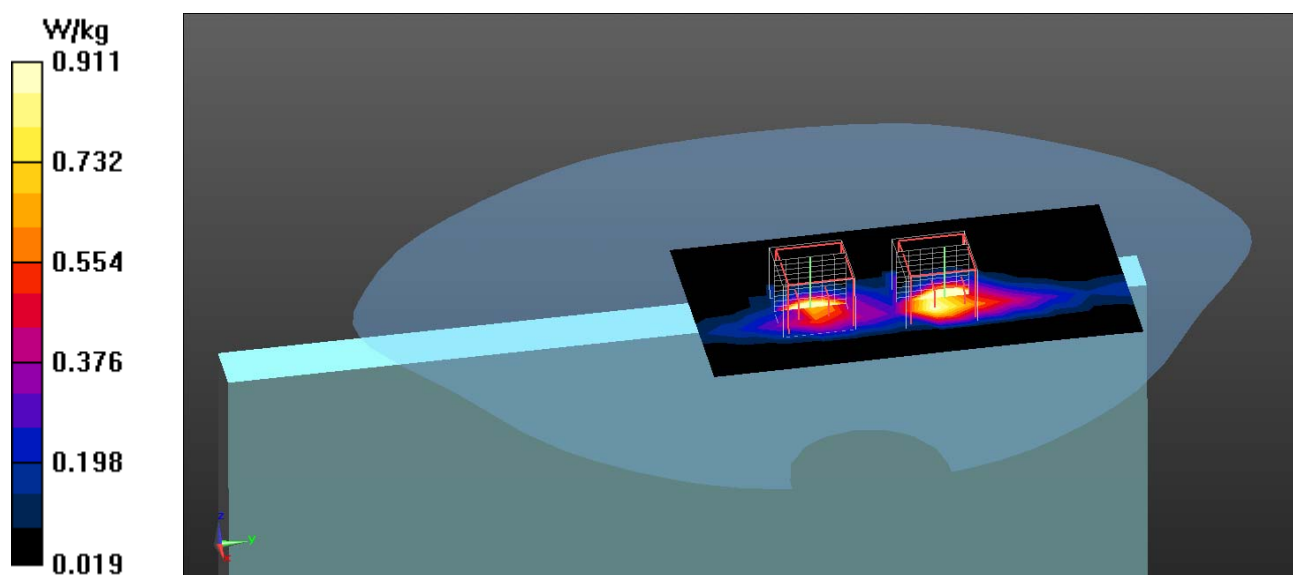
DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.02, 4.02, 4.02); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.911 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm
Reference Value = 11.397 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 5.944 mW/g
SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.325 mW/g
Maximum value of SAR (measured) = 2.35 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
dx=4mm, dy=4mm, dz=2mm
Reference Value = 11.397 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 3.676 mW/g
SAR(1 g) = 0.820 mW/g; SAR(10 g) = 0.232 mW/g
Maximum value of SAR (measured) = 1.53 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5500-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5500 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ mho/m; $\epsilon_r = 47.75$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

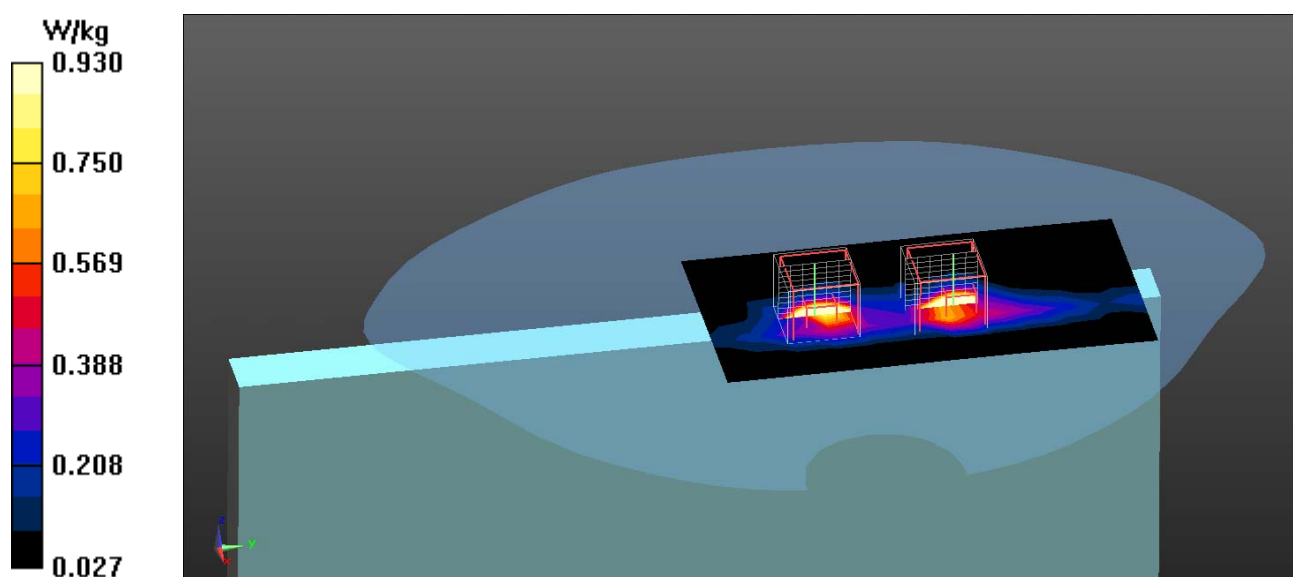
DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.76, 3.76, 3.76); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.930 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm
Reference Value = 11.973 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 7.877 mW/g
SAR(1 g) = 1.47 mW/g; SAR(10 g) = 0.407 mW/g
Maximum value of SAR (measured) = 2.90 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
dx=4mm, dy=4mm, dz=2mm
Reference Value = 11.973 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 6.334 mW/g
SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.380 mW/g
Maximum value of SAR (measured) = 2.48 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5580-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5580 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.75 \text{ mho/m}$; $\epsilon_r = 47.03$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.1, Liquid Temperature ($^{\circ}\text{C}$) : 20.8

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

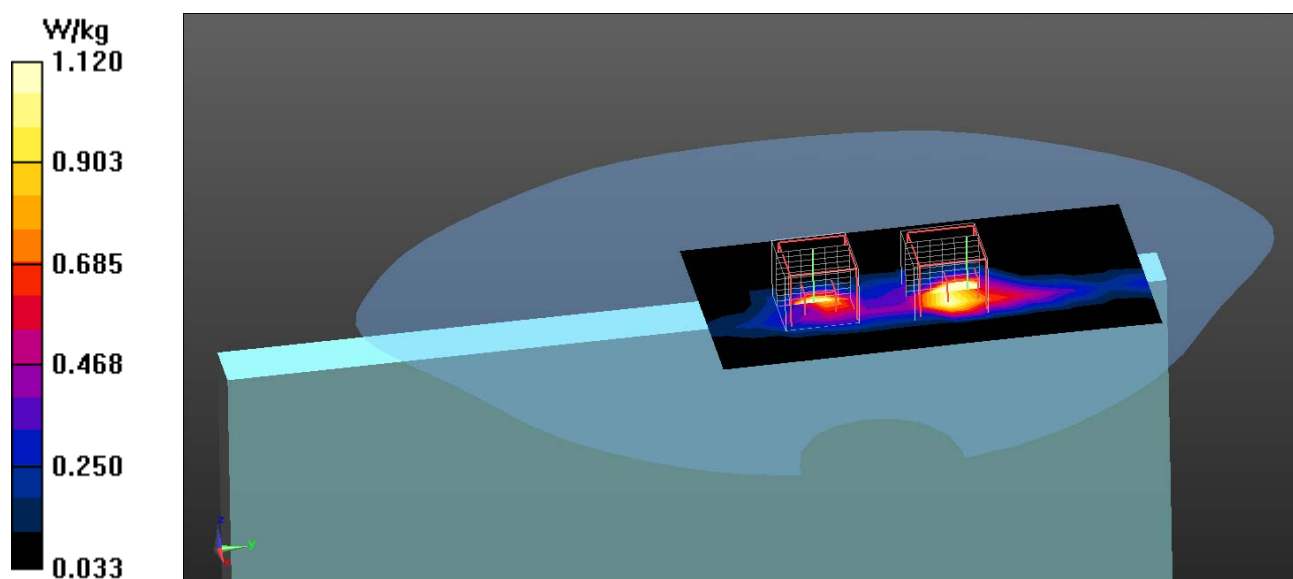
DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.72, 3.72, 3.72); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 1.12 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 12.198 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 8.073 mW/g
SAR(1 g) = 1.43 mW/g; SAR(10 g) = 0.388 mW/g
Maximum value of SAR (measured) = 2.75 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 12.198 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 4.244 mW/g
SAR(1 g) = 0.849 mW/g; SAR(10 g) = 0.236 mW/g
Maximum value of SAR (measured) = 1.53 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5700-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5700 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 6.06 \text{ mho/m}$; $\epsilon_r = 46.92$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.1, Liquid Temperature ($^{\circ}\text{C}$) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.86, 3.86, 3.86); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 0.848 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 9.827 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 6.150 mW/g

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.298 mW/g

Maximum value of SAR (measured) = 2.34 W/kg

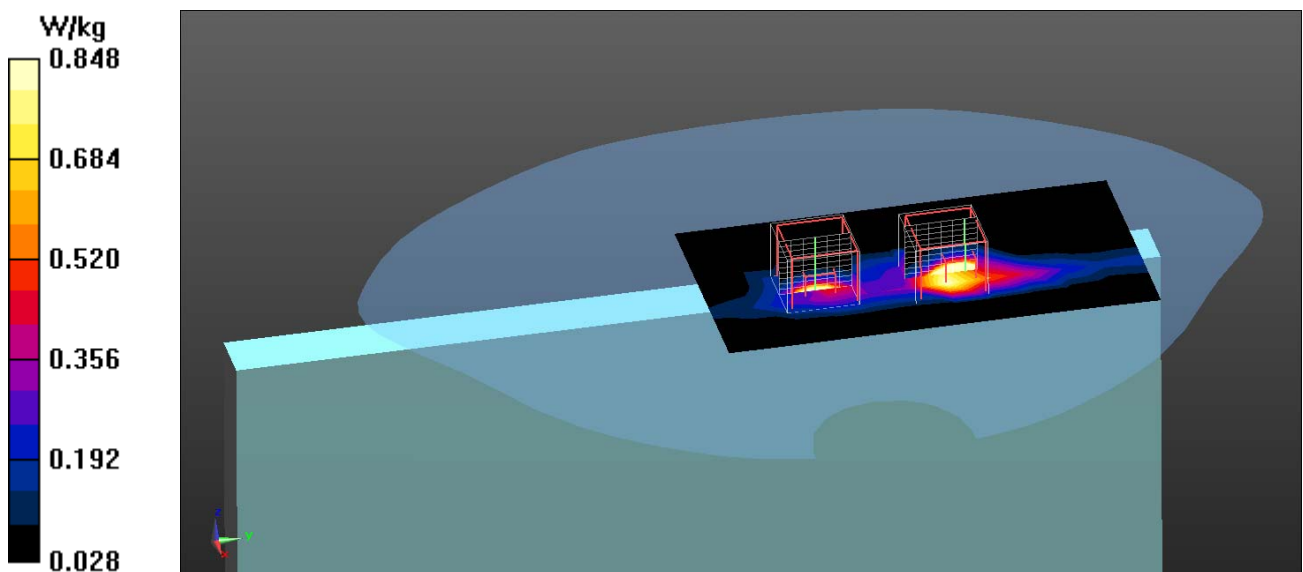
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 9.827 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 3.019 mW/g

SAR(1 g) = 0.619 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 1.13 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5745-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5745 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.12 \text{ mho/m}$; $\epsilon_r = 46.44$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.1, Liquid Temperature ($^{\circ}\text{C}$) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.86, 3.86, 3.86); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 0.838 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.659 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 5.862 mW/g

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.288 mW/g

Maximum value of SAR (measured) = 2.32 W/kg

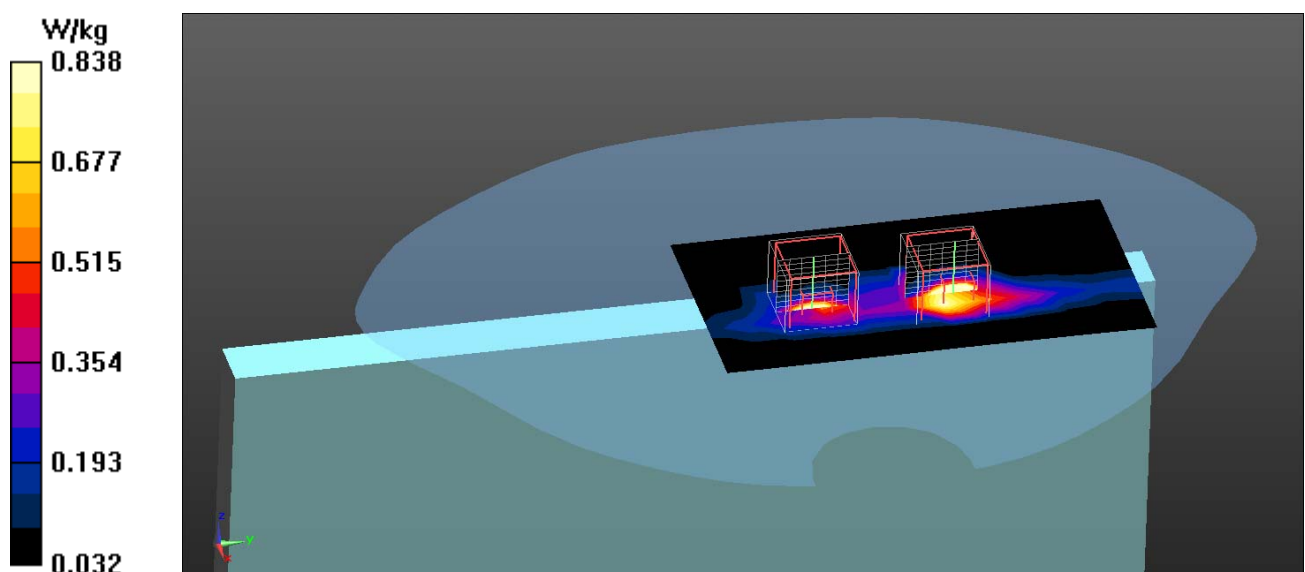
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.659 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 3.241 mW/g

SAR(1 g) = 0.668 mW/g; SAR(10 g) = 0.203 mW/g

Maximum value of SAR (measured) = 1.20 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5785-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5785 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.16 \text{ mho/m}$; $\epsilon_r = 46.25$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.1, Liquid Temperature ($^{\circ}\text{C}$) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.86, 3.86, 3.86); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 0.794 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.837 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 6.136 mW/g

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.279 mW/g

Maximum value of SAR (measured) = 2.28 W/kg

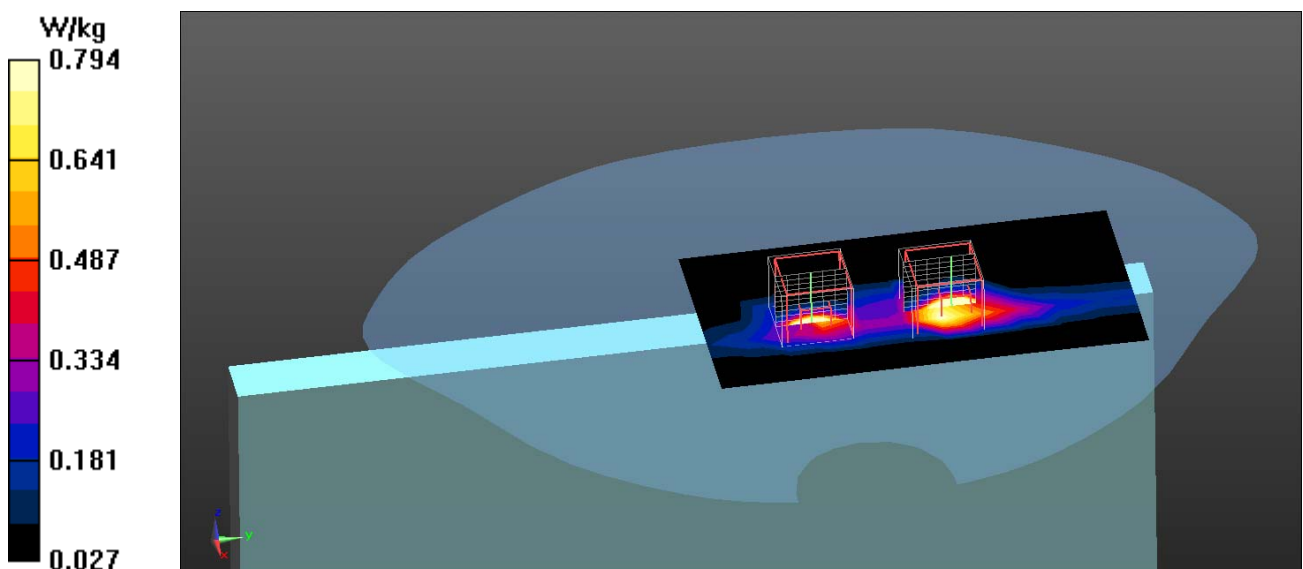
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.837 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.586 mW/g

SAR(1 g) = 0.735 mW/g; SAR(10 g) = 0.203 mW/g

Maximum value of SAR (measured) = 1.34 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_20M_5825-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5825 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5825$ MHz; $\sigma = 6.24$ mho/m; $\epsilon_r = 45.89$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.1, Liquid Temperature (°C) : 20.8

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

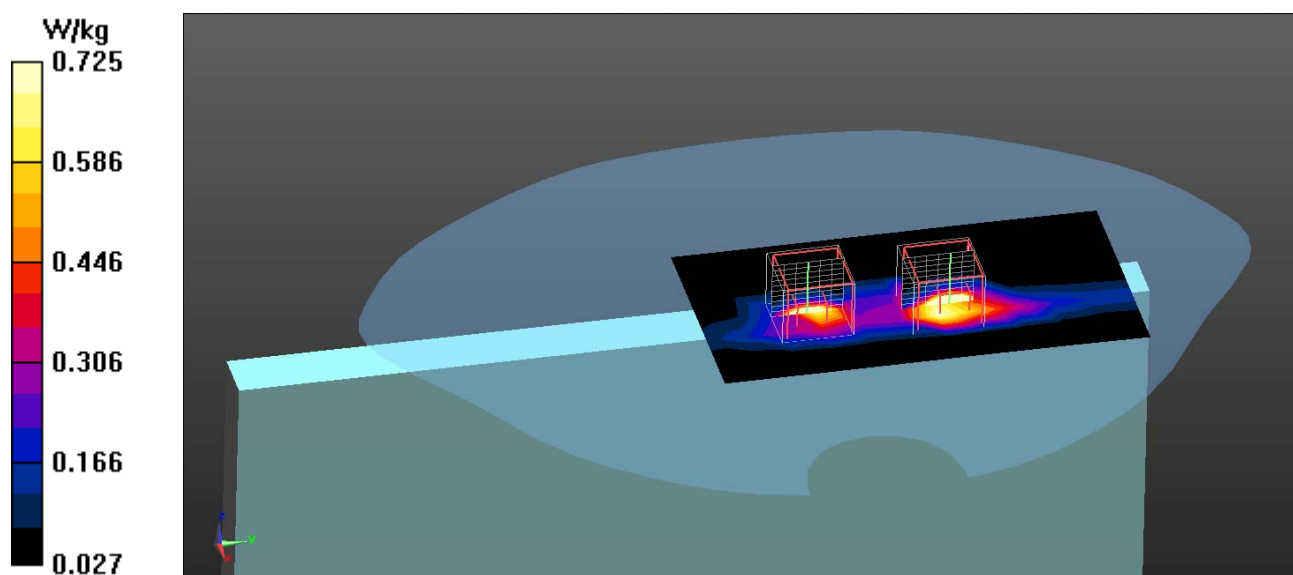
DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.86, 3.86, 3.86); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: dx=13mm, dy=13mm
Maximum value of SAR (measured) = 0.725 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm
Reference Value = 11.005 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 5.687 mW/g
SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.273 mW/g
Maximum value of SAR (measured) = 2.24 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
dx=4mm, dy=4mm, dz=2mm
Reference Value = 11.005 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 3.354 mW/g
SAR(1 g) = 0.711 mW/g; SAR(10 g) = 0.197 mW/g
Maximum value of SAR (measured) = 1.34 W/kg



Test Laboratory: QuieTek

Date/Time: 9/20/2012

802.11n_40M_5550-Top Chain A & Chain B

DUT: Notebook PC; Type: TAICHI21

Communication System: WLAN 5G; Frequency: 5550 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.72 \text{ mho/m}$; $\epsilon_r = 47.39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.1, Liquid Temperature ($^{\circ}\text{C}$) : 20.8

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3698; ConvF(3.76, 3.76, 3.76); Calibrated: 7/27/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 5/30/2012
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=13\text{mm}$, $dy=13\text{mm}$
Maximum value of SAR (measured) = 0.769 W/kg

Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.973 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 3.946 mW/g

SAR(1 g) = 0.784 mW/g; SAR(10 g) = 0.236 mW/g

Maximum value of SAR (measured) = 1.73 W/kg

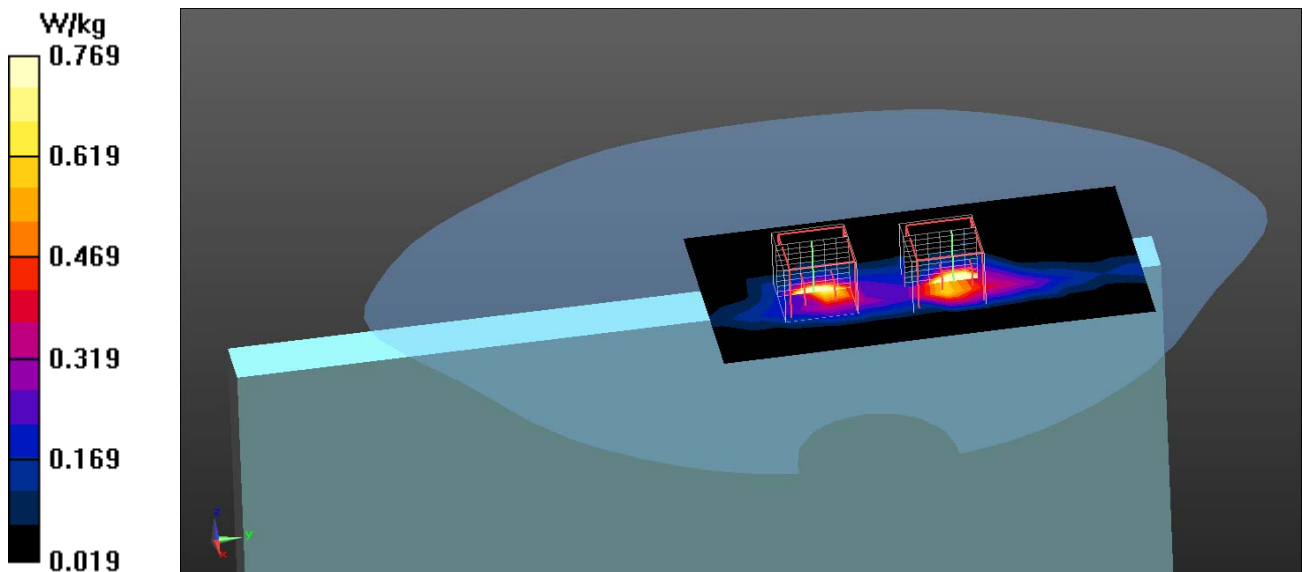
Configuration/Body/Zoom Scan (7x7x9) (7x7x11)/Cube 1: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.973 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 6.416 mW/g

SAR(1 g) = 0.713 mW/g; SAR(10 g) = 0.220 mW/g

Maximum value of SAR (measured) = 1.27 W/kg



802.11a Chain A Antenna EUT Top Z-Axis plot
Channel: 116

