

FCC SAR Test Report (Class II Permissive Change)

Product Name : INTEL DUAL BAND WIRELESS – AC 7265

Model No. : 7265NGW

Applicant : ASUSTeK COMPUTER INC.

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

Date of Receipt : 2015/01/21

Issued Date : 2015/02/26

Report No. : 1510451R-SAUSP46V00

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report

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Product Name : INTEL DUAL BAND WIRELESS - AC 7265
 Applicant : ASUSTeK COMPUTER INC.
 Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
 Manufacturer : Intel Mobile Communications
 Model No. : 7265NGW
 Trade Name : INTEL
 FCC ID : MSQ7265NG
 Applicable Standard : FCC Oet65 Supplement C June 2001
 IEEE Std. 1528-2003
 47CFR § 2.1093
 Measurement procedures : KDB447498 D01 v05r02
 KDB 248227 D01 v01r02
 KDB 616217 D04 V01r01
 KDB 865664 D01 V01r01
 Test Result : Max. SAR Measurement (1g)
 802.11b/g/n(2.4GHz): **0.615** W/kg
 802.11a/n/ac(5 GHz): **0.980** W/kg
 Application Type : Certification

Documented By : Anny Chou
 (Adm. Specialist / Anny Chou)

Tested By : wen Lee
 (Engineer / Wen Lee)

Approved By : [Signature]
 (Director / Vincent Lin)

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1. General Information

1.1 EUT Description

Product Name	INTEL DUAL BAND WIRELESS – AC 7265
Trade Name	INTEL
Model No.	7265NGW
FCC ID	MSQ7265NG
TX Frequency	802.11b/g/n-20MHz: 2412MHz~2462MHz 802.11n-40MHz: 2422MHz~2452MHz 802.11a/n-20MHz: 5180-5320MHz, 5500-5700MHz, 5745-5825MHz 802.11n-40MHz: 5190-5310, 5510-5670MHz, 5755-5795MHz 802.11ac-20MHz: 5720 MHz, 802.11ac-40MHz: 5710 MHz 802.11ac-80MHz: 5210-5290MHz, 5530-5690MHz, 5775 MHz
Number of Channels	802.11b/g/n-20MHz: 11, n-40MHz: 7 802.11a/n-20MHz: 24; 802.11n-40MHz:11 802.11ac-20MHz: 1, 802.11ac-40MHz: 1, 802.11ac-80MHz: 6
Data Rate	802.11b: 1-11Mbps, 802.11a/g: 6-54Mbps, 802.11n: up to 300Mbps 802.11ac-80MHz: up to 866.7MHz
Type of Modulation	DSSS/OFDM/BPSK/QPSK/16QAM/64QAM/256QAM
Antenna Type	PIFA
Device Category	Portable
RF Exposure Environment	Uncontrolled
Max. Output Power (Conducted)	802.11b: 15.00 dBm 802.11g/n-20M/n-40M: 16.79 dBm 802.11a/n-20M/n-40M/ac-80: 13.50 dBm

* Note:

This is to request a Class II permissive change for FCC ID: MSQ7265NG, originally granted on 10/20/2014.

The major change filed under this application is:

- Change #1: Additional Chassis added, Model number: UX305F
- #2: Reduce the Output Power through firmware
(only reduce Wi-Fi Power, Bluetooth power haven't changes).
- #3: Addition two new antennas, the antenna type is the same, the antenna gain is higher than the original application.

1.2 Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	TONGDA	T-543-3010300-A(Main) T-543-3010300-A(Aux)	0.12dBi For 2.4GHz 1.55dBi For 5.15~5.25GHz 1.12dBi For 5.25~5.35GHz 1.00dBi For 5.47~5.725GHz 1.74dBi For 5725-5825GHz
2	INPAQ	WA-F-LBLB-02-005 (Main) WA-F-LBLB-02-005 (Aux)	1.63dBi For 2.4GHz 0.25dBi For 5.15~5.25GHz 1.94dBi For 5.25~5.35GHz 0.92dBi For 5.47~5.725GHz 0.63dBi For 5725-5825GHz

1.3 Maximum output power and tolerance allowed for production units

Band	Mode	Nominal power (dBm)	Tolerance (dBm)	Upper Tolerance (dBm)
2.4G	802.11b(Main), 802.11g(Main)(CH6)	13	±1.5	14.5
2.4G	802.11b(Aux), 802.11g(Aux)(CH6)	13.5	±1.5	15.0
2.4G	802.11g(Main)(CH1)	12.5	±1.5	14
2.4G	802.11g(Main)(CH11), 802.11g (Aux)(CH1,11)	11	±1.5	12.5
2.4G	802.11n-20M(CH1,11)	13.5	±1.5	15
2.4G	802.11n-20M(CH6)	16	±1.5	17.5
2.4G	802.11n-40M(CH3,9)	11	±1.5	12.5
2.4G	802.11n-40M(CH6)	15	±1.5	16.5
5G	802.11a(Main)(CH36),802.11a(Aux)(CH44~52)	11.5	±1.5	13
5G	802.11a(Main)(CH149),802.11a(Aux)(CH36,116~140)	11	±1.5	12.5
5G	802.11a(Main)(CH44,60,64),802.11a(Aux)(CH60,64)	10	±1.5	11.5
5G	802.11a(Main)(CH48,52,100,157)	9.5	±1.5	11
5G	802.11a(Main)(CH140,144),802.11a(Aux)(CH100~112,149~165)	10.5	±1.5	12
5G	802.11a(Main)(CH104~136,161,165)	9	±1.5	10.5
5G	802.11n-20M(CH36,52~64,140~161),802.11n-40M(CH54,62,134~159)	12	±1.5	13.5
5G	802.11n-20M(CH44~48,100~136,165),802.11n-40M(CH38,46,102~126)	11.5	±1.5	13
5G	802.11ac-80M(CH42,58,122~155)	12	±1.5	13.5
5G	802.11ac-80M(CH106)	11.5	±1.5	12.5

1.4 Test Environment

Ambient conditions in the laboratory:

Test Date: Feb. 13, 2015

Items	Required	Actual
Temperature (°C)	18-25	21.3± 2
Humidity (%RH)	30-70	53

Test Date: Feb. 16, 2015

Items	Required	Actual
Temperature (°C)	18-25	23.6± 2
Humidity (%RH)	30-70	55

Site Description:

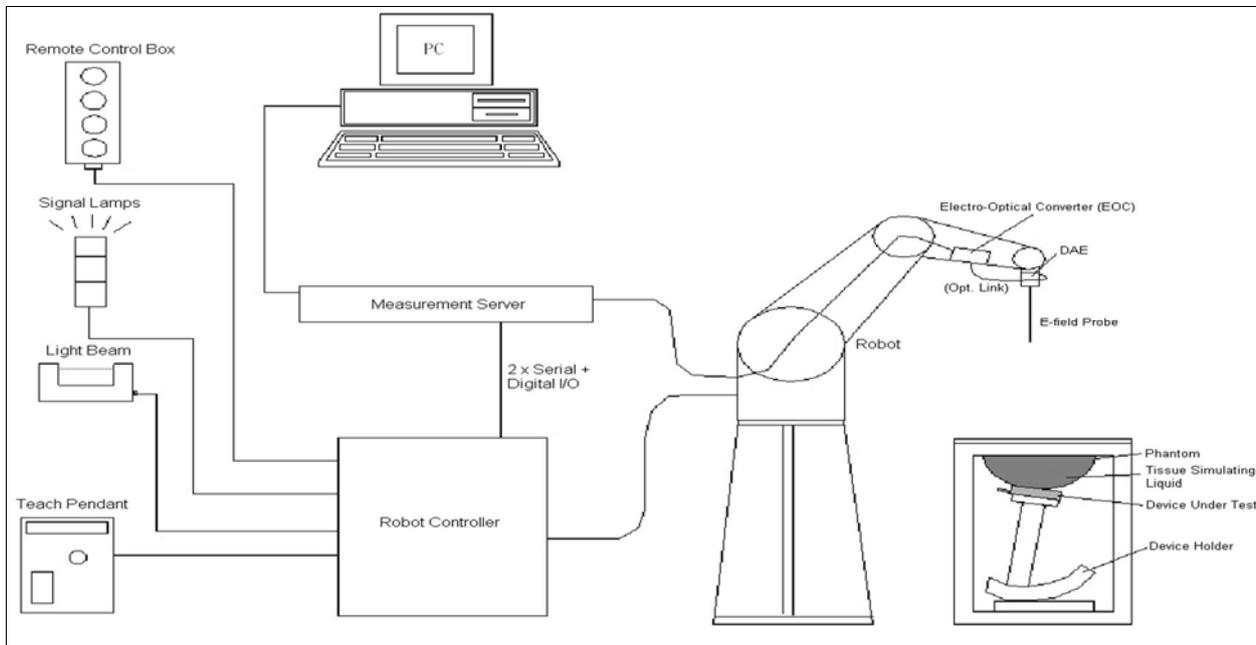
Accredited by TAF
Accredited Number: 3023
Effective through: December 12, 2017

Site Name: Quietek Corporation

Site Address: No.5-22, Ruishukeng, Linkou Dist.,
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E-Mail: service@quietek.com

2. SAR Measurement System

2.1 DASYS System Description



The DASYS 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 DASYS 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 f1, the spatially steep distribution f3 and f2 accounts for H-field cancellation on the phantom/tissue surface.

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

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

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

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 µW/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/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

3.2 Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using APREL Dielectric Probe Kit and Agilent E5071C 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
	13-Feb-15	53.09	1.92	20.4
2412 MHz	Low channel	53.21	1.87	20.4
2437 MHz	Mid channel	53.14	1.9	20.4
2462 MHz	High channel	52.91	1.95	20.4

Body Tissue Simulate 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 5.03 to 5.56	N/A
	16-Feb-15	49.40	5.29	22.1
5180 MHz	Low channel	49.45	5.26	22.1
5200 MHz	Mid channel	49.35	5.32	22.1
5260 MHz	High channel	49.29	5.36	22.1

Body Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
5300MHz	Reference result ± 5% window	48.9 46.45 to 51.34	5.42 5.15 to 5.69	N/A
	16-Feb-15	49.14	5.45	22.1
5260 MHz	Low channel	49.24	5.39	22.1
5290 MHz	Mid channel	49.16	5.44	22.1
5320 MHz	High channel	49.08	5.48	22.1

Body Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
5600MHz	Reference result ± 5% window	48.5 46.07 to 50.92	5.77 5.48 to 6.06	N/A
	16-Feb-15	48.29	5.90	22.1
5500 MHz	Low channel	48.58	5.73	22.1
5580 MHz	Mid channel	48.21	5.87	22.1
5700 MHz	High channel	48.03	6.06	22.1

Body Tissue Simulate 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
	16-Feb-15	47.78	6.27	22.1
5745 MHz	Low channel	47.92	6.17	22.1
5785 MHz	Mid channel	47.82	6.23	22.1
5825 MHz	High channel	47.73	6.3	22.1

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.

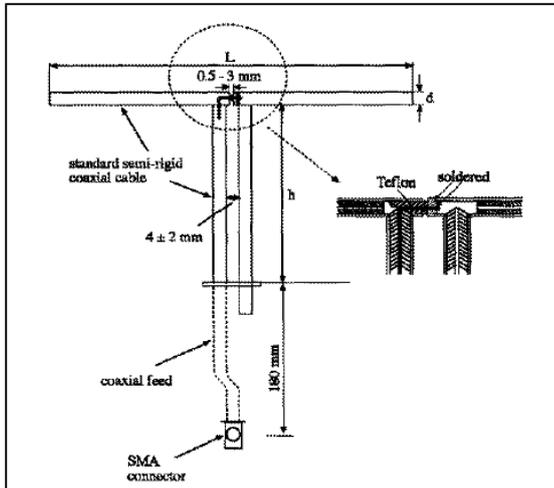
Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	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 $\rho = 1000 \text{ kg/m}^3$)

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	50.4 45.36 to 55.44	23.44 21.1 to 25.78	N/A
	13-Feb-15	52.8	25.2	20.4

Note: (1) The power level is used 250mW
 (2) All SAR values are normalized to 1W forward power.
 (3) The reference result is from Appendix E.

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 ± 10% window	74 66.6 to 81.4	20.7 18.63 to 22.77	N/A
	16-Feb-15	78.6	21.9	22.1
Note: (1) The power level is used 100mW (2) All SAR values are normalized to 1W forward power. (3) The reference result is from Appendix E.				

System Performance Check at 5300MHz				
Dipole Kit: D5GHzV2				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
5300 MHz	Reference result ± 10% window	75.3 67.77 to 82.83	21.1 18.99 to 23.21	N/A
	16-Feb-15	76.3	20.8	22.1
Note: (1) The power level is used 100mW (4) All SAR values are normalized to 1W forward power. (5) The reference result is from Appendix E.				

System Performance Check at 5600MHz				
Dipole Kit: D5GHzV2				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
5600 MHz	Reference result ± 10% window	79.4 71.46 to 87.34	22 19.8 to 24.2	N/A
	16-Feb-15	83.3	22.7	22.1
Note: (1) The power level is used 100mW (6) All SAR values are normalized to 1W forward power. (7) The reference result is from Appendix E.				

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 ± 10% window	73.8 66.42 to 81.18	20.4 18.36 to 22.44	N/A
	16-Feb-15	77.4	20.8	22.1
Note: (1) The power level is used 100mW (2) All SAR values are normalized to 1W forward power. (3) The reference result is from Appendix E.				

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 1mm²) 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 1mm³).

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	QTK-319	2014/07/24	2016/07/23
Speag Reference Dipole 5GHz	Speag	D5GHzV2	1041	2013/05/31	2015/05/30
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	1425	2014/11/13	2015/11/12
E-Field Probe	Speag	EX3DV4	3979	2014/11/21	2015/11/20
SAR Software	Speag	DASY52	V52.8 (8)	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	2014/05/05	2015/05/04
Vector Network	Agilent	E5071C	MY46108013	2014/06/09	2015/06/08
Signal Generator	Anritsu	MG3694A	041902	2014/08/06	2015/08/05
Power Meter	Anritsu	ML2495A	143004	2014/09/05	2015/09/04
Wide Bandwidth Sensor	Anritsu	MA2411B	1339194	2014/09/12	2015/09/11

7. Measurement Uncertainty

DASY5 Uncertainty (According to IEC 62209-2/2010)								
Measurement uncertainty for 30 MHz 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	±6.55%	N	1	1	1	±6.55%	±6.55%	∞
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%	∞
Modulation Response	±2.4%	R	$\sqrt{3}$	1	1	±1.4%	±1.4%	∞
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	±6.7%	R	$\sqrt{3}$	1	1	±3.9%	±3.9%	∞
Post-processing	±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 Scaling	±0%	R	$\sqrt{3}$	1	1	±0.0%	±0.0%	
Power Drift	±5.0%	R	$\sqrt{3}$	1	1	±2.9%	±2.9%	∞
Phantom and Setup								
Phantom Uncertainty	±7.9%	R	$\sqrt{3}$	1	1	±4.6%	±4.6%	∞
SAR correction	±1.9%	R	$\sqrt{3}$	1	0.84	±1.1%	±1.1%	∞
Liquid Conductivity (meas.)	±2.5%	N	1	0.78	0.71	±1.1%	±1.0%	∞
Liquid Permittivity (meas.)	±2.5%	N	1	0.26	0.26	±0.3%	±0.4%	∞
Temp. unc. - Conductivity	±3.4%	R	$\sqrt{3}$	0.78	0.71	±1.5%	±1.4%	∞
Temp. unc. - Permittivity	±0.4%	R	$\sqrt{3}$	0.23	0.26	±0.1%	±0.1%	∞
Combined Std. Uncertainty						±12.5%	±12.5%	748
Expanded STD Uncertainty						±25.1%	±25.1%	

8. Conducted Power Measurement

BT:

Mode	Frequency (MHz)	Channel	1Mbps	3Mbps	Frequency (MHz)	Channel	BLE
BT	2402	00	5.06	3.25	2402	00	3.23
BT	2441	39	5.25	3.59	2440	39	3.54
BT	2480	78	5.38	3.51	2480	78	3.51

WLAN:

Mode	Frequency (MHz)	Channel	Main (Chain A) Average Power(dBm)	Aux (Chain B) Average Power(dBm)
802.11b	2412	1	14.49	14.99
802.11b	2437	6	14.50	15.00
802.11b	2462	11	14.42	14.68
802.11g	2412	1	13.96	12.50
802.11g	2437	6	14.21	14.75
802.11g	2462	11	12.50	12.50
802.11a	5180	36	12.91	12.12
802.11a	5200	40	11.44	13.00
802.11a	5240	48	11.00	12.99
802.11a	5260	52	10.77	12.94
802.11a	5300	60	11.46	11.45
802.11a	5320	64	11.5	11.43
802.11a	5500	100	10.76	11.72
802.11a	5580	116	10.18	12.49
802.11a	5700	140	12.00	12.46
802.11a	5745	149	12.50	11.92
802.11a	5785	157	11.00	11.77
802.11a	5825	165	10.50	12.00

Mode	Frequency (MHz)	Channel	Main (Chain A) Average Power(dBm)	Aux (Chain B) Average Power(dBm)	Main (Chain A)+ Aux (ChainB) Average Power(dBm)
802.11n-20M	2412	1	11.85	11.59	14.73
802.11n-20M	2437	6	13.71	13.84	16.79
802.11n-20M	2462	11	11.77	11.76	14.78
802.11n-20M	5180	36	10.27	10.50	13.40
802.11n-20M	5220	44	9.18	10.00	12.62
802.11n-20M	5240	48	9.35	9.99	12.69
802.11n-20M	5260	52	10.50	10.50	13.50
802.11n-20M	5300	60	10.10	10.50	13.31
802.11n-20M	5320	64	10.28	10.50	13.40
802.11n-20M	5500	100	10.00	9.84	12.93
802.11n-20M	5580	116	10.00	9.88	12.95
802.11n-20M	5700	140	10.50	10.38	13.45
802.11n-20M	5745	149	9.99	10.16	13.09
802.11n-20M	5785	157	10.14	10.50	13.33
802.11n-20M	5825	165	9.80	10.00	12.91
802.11n-40M	2422	3	9.50	9.38	12.45
802.11n-40M	2437	6	13.50	13.36	16.44
802.11n-40M	2452	9	9.50	9.50	12.50
802.11n-40M	5190	38	9.73	10.00	12.88
802.11n-40M	5230	46	9.58	10.00	12.81
802.11n-40M	5270	54	10.50	10.50	13.50
802.11n-40M	5310	62	10.30	10.50	13.41
802.11n-40M	5510	102	10.00	9.60	12.81
802.11n-40M	5550	110	10.00	9.91	12.97
802.11n-40M	5670	134	10.47	10.30	13.40
802.11n-40M	5755	151	10.14	10.09	13.13
802.11n-40M	5795	159	10.46	10.50	13.49
802.11ac-80M	5210	42	10.48	10.50	13.50
802.11ac-80M	5290	58	10.50	10.50	13.50
802.11ac-80M	5530	106	10.00	10.00	13.00
802.11ac-80M	5610	122	10.50	10.25	13.39
802.11ac-80M	5690	138	10.47	10.50	13.50
802.11ac-80M	5775	155	10.46	10.50	13.49

9. Test Results

9.1 SAR Test Results Summary

SAR MEASUREMENT								
Ambient Temperature (°C) : 21.3 ±2				Relative Humidity (%) : 53				
Liquid Temperature (°C) : 20.4 ±2				Depth of Liquid (cm):>15				
Test Mode: 802.11b - 2450 MHz –INPAQ Main Antenna, P/N: WA-F-LBLB-02-005								
Test Position Body	Antenna Position	Frequency		Conducted Power (dBm)		SAR 1g (W/kg)		Limit (W/kg)
		Channel	MHz	Measurement	Tune-up Limit	Measurement	Tune-up Scaled	
Bottom	Fixed	1	2412	14.49	14.50	0.583	0.584	1.6
Bottom	Fixed	6	2437	14.50	14.50	0.535	0.535	1.6
Bottom	Fixed	11	2462	14.42	14.50	0.579	0.590	1.6
Test Mode: 802.11b - 2450 MHz –INPAQ Aux Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	6	2437	15.00	15.00	0.457	0.457	1.6
Test Mode: 802.11g - 2450 MHz –INPAQ Main Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	6	2437	14.21	14.50	0.472	0.505	1.6
Test Mode: 802.11g - 2450 MHz –INPAQ Aux Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	6	2437	14.75	15.00	0.443	0.469	1.6
Test Mode: 802.11n (20M)- 2450 MHz –INPAQ Main Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	6	2437	13.71	14.50	0.494	0.593	1.6
Test Mode: 802.11n (20M)- 2450 MHz –INPAQ Aux Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	6	2437	13.84	14.50	N/A	N/A	1.6
Test Mode: 802.11n (40M)- 2450 MHz –INPAQ Main Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	6	2437	13.50	13.50	0.523	0.523	1.6
Test Mode: 802.11n (40M)- 2450 MHz –INPAQ Aux Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	6	2437	13.36	13.50	0.363	0.375	1.6
Test Mode: 802.11b - 2450 MHz –TONGDA Main Antenna, P/N: T-543-3010300-A								
Bottom	Fixed	1	2412	14.49	14.50	0.614	0.615	1.6
Note: According KDB 447498D01 , When higher antenna is less than 0.8W/Kg, SAR evaluation is not required to other antenna .								

SAR MEASUREMENT								
Ambient Temperature (°C) : 23.6 ±2				Relative Humidity (%) : 55				
Liquid Temperature (°C) : 22.1 ±2				Depth of Liquid (cm) : >15				
Test Mode: 802.11a - 5 GHz –INPAQ Main Antenna, P/N: WA-F-LBLB-02-005								
Test Position Body	Antenna Position	Frequency		Conducted Power (dBm)		SAR 1g (W/kg)		Limit (W/kg)
		Channel	MHz	Measurement	Tune-up Limit	Measurement	Tune-up Scaled	
Bottom	Fixed	36	5180	12.91	13.00	0.710	0.725	1.6
Bottom	Fixed	44	5220	11.44	11.50	0.569	0.577	1.6
Bottom	Fixed	48	5240	11.00	11.00	0.679	0.679	1.6
Bottom	Fixed	52	5260	10.77	11.00	0.580	0.612	1.6
Bottom	Fixed	60	5300	11.46	11.50	0.732	0.739	1.6
Bottom	Fixed	64	5320	11.5	11.50	0.667	0.667	1.6
Bottom	Fixed	100	5500	10.76	11.00	0.518	0.547	1.6
Bottom	Fixed	116	5580	10.18	10.50	0.249	0.268	1.6
Bottom	Fixed	140	5700	12.00	12.00	0.278	0.278	1.6
Bottom	Fixed	149	5745	12.50	12.50	0.517	0.517	1.6
Bottom	Fixed	157	5785	11.00	11.00	0.464	0.464	1.6
Bottom	Fixed	165	5825	10.50	10.50	0.493	0.493	1.6
Test Mode: 802.11a - 5 GHz –INPAQ Aux Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	36	5180	12.12	12.50	0.511	0.558	1.6
Bottom	Fixed	44	5220	13.00	13.00	0.761	0.761	1.6
Bottom	Fixed	48	5240	12.99	13.00	0.826	0.828	1.6
Bottom	Fixed	52	5260	12.94	13.00	0.863	0.875	1.6
Bottom	Fixed	60	5300	11.45	11.50	0.568	0.575	1.6
Bottom	Fixed	64	5320	11.43	11.50	0.502	0.510	1.6
Bottom	Fixed	100	5500	11.72	12.00	0.789	0.842	1.6
Bottom	Fixed	116	5580	12.49	12.50	0.671	0.673	1.6
Bottom	Fixed	140	5700	12.46	12.50	0.577	0.582	1.6
Bottom	Fixed	149	5745	11.92	12.00	0.666	0.678	1.6
Bottom	Fixed	157	5785	11.77	12.00	0.614	0.647	1.6
Bottom	Fixed	165	5825	12.00	12.00	0.765	0.765	1.6

Test Mode: 802.11n (20M)- 5GHz –INPAQ Main Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	52	5260	10.50	10.50	0.512	0.512	1.6
Test Mode: 802.11n (20M)- 5GHz –INPAQ Aux Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	52	5260	10.50	10.50	0.632	0.632	1.6
Test Mode: 802.11n (40M)- 5GHz –INPAQ Main Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	54	5270	10.50	10.50	0.543	0.543	1.6
Test Mode: 802.11n (40M)- 5GHz –INPAQ Aux Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	54	5270	10.50	10.50	0.593	0.593	1.6
Test Mode: 802.11ac (80M)- 5GHz –INPAQ Main Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	58	5290	10.50	10.50	0.552	0.552	1.6
Test Mode: 802.11ac (80M)- 5GHz –INPAQ Aux Antenna, P/N: WA-F-LBLB-02-005								
Bottom	Fixed	58	5290	10.50	10.50	0.599	0.599	1.6
Test Mode: 802.11a - 5 GHz –TONGDA Main Antenna, P/N: T-543-3010300-A								
Bottom	Fixed	36	5180	12.91	13.00	0.619	0.632	1.6
Bottom	Fixed	60	5300	11.46	11.50	0.617	0.623	1.6
Bottom	Fixed	100	5500	10.76	11.00	0.330	0.349	1.6
Bottom	Fixed	149	5745	12.50	12.50	0.980	0.980	1.6
Bottom	Fixed	157	5785	11.00	11.00	0.648	0.648	1.6
Bottom	Fixed	165	5825	10.50	10.50	0.624	0.624	1.6
Test Mode: 802.11a - 5 GHz –TONGDA Aux Antenna, P/N: T-543-3010300-A								
Bottom	Fixed	48	5240	12.99	13.00	0.536	0.537	1.6
Bottom	Fixed	52	5260	12.94	13.00	0.550	0.558	1.6
Bottom	Fixed	100	5500	11.72	12.00	0.510	0.544	1.6
Bottom	Fixed	165	5825	12.00	12.00	0.297	0.297	1.6

9.2 Simultaneous Transmission

According the KDB 447498 D01 Section 4.3.2,

For UNII Band :

WLAN SAR (W/Kg)	BT SAR (W/Kg)	Simultaneous Transmission (W/Kg)	Antenna pair in mm	Peak location separation ratio
0.875	0.13	1.005	N/A	N/A

The sum of value is less than 1.6W/Kg, thus simultaneous SAR testing is no need.

For DTS Band :

WLAN SAR (W/Kg)	Estimated BT SAR (W/Kg)	Simultaneous Transmission (W/Kg)	Antenna pair in mm	Peak location separation ratio
0.980	0.13	1.110	N/A	N/A

The sum of value is less than 1.6W/Kg, thus simultaneous SAR testing is no need.

10. SAR measurement variability

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Frequency		SAR 1g (W/kg)						
Channel	MHz	Original	First Repeated		Second Repeated		Third Repeated	
			Value	Ratio	Value	Ratio	Value	Ratio
149	5745	0.980	0.947	1.03	N/A	N/A	N/A	N/A

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: 2015/2/13

System Performance Check_2450MHz-Body

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

Communication System: UID 10000, CW; Frequency: 2450 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.92$ S/m; $\epsilon_r = 53.09$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.3, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.08, 7.08, 7.08); Calibrated: 2014/11/21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/2450MHz_Body/Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 17.3 W/kg

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

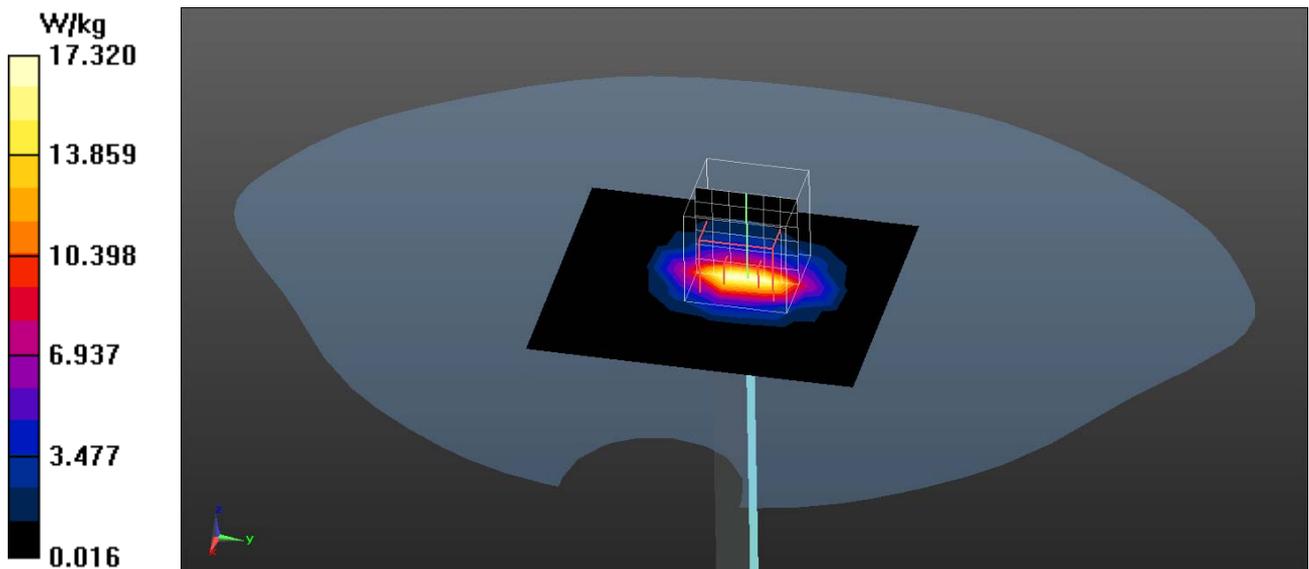
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.95 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 28.7 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.3 W/kg

Maximum value of SAR (measured) = 18.4 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

System Performance Check_5200MHz-Body

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: UID 0, WLAN 5G; Frequency: 5200 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5200$ MHz; $\sigma = 5.29$ S/m; $\epsilon_r = 49.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.6, 4.6, 4.6); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/5200MHz-Body 100mW/Area Scan (8x8x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 16.8 W/kg

Configuration/5200MHz-Body 100mW/Zoom Scan (7x7x12), dist=2mm

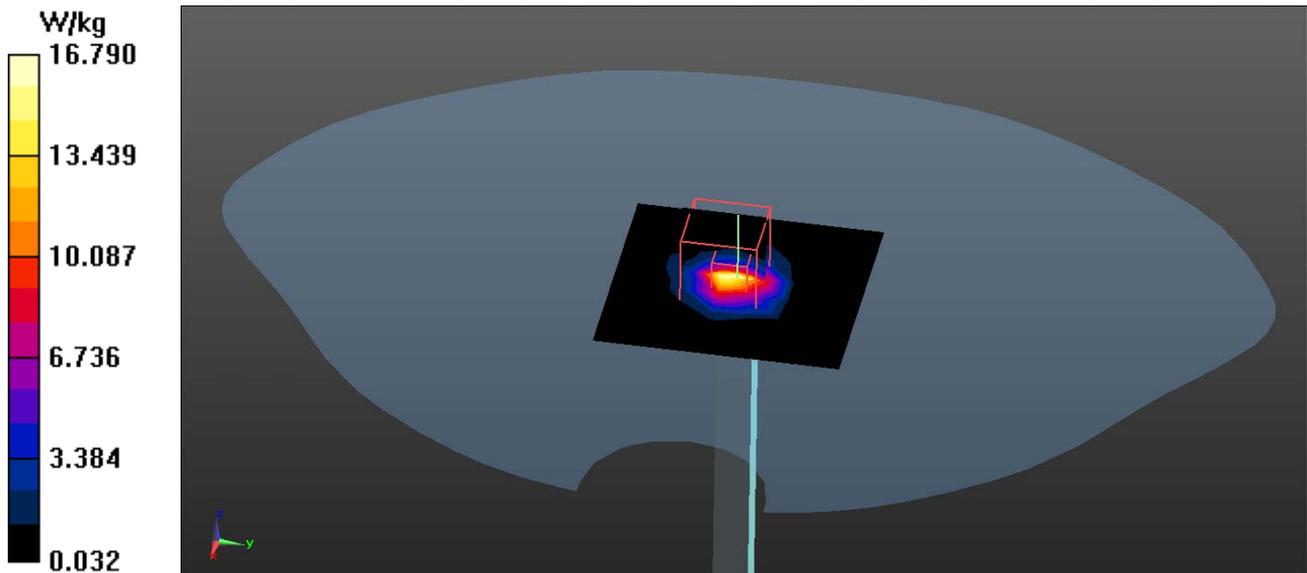
(7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 64.07 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 31.1 W/kg

SAR(1 g) = 7.86 W/kg; SAR(10 g) = 2.19 W/kg

Maximum value of SAR (measured) = 19.6 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

System Performance Check_5300MHz-Body

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: UID 0, CW; Frequency: 5300 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.45 \text{ S/m}$; $\epsilon_r = 49.14$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/5300MHz-Body 100mW/Area Scan (8x8x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 12.6 W/kg

Configuration/5300MHz-Body 100mW/Zoom Scan (7x7x12), dist=2mm

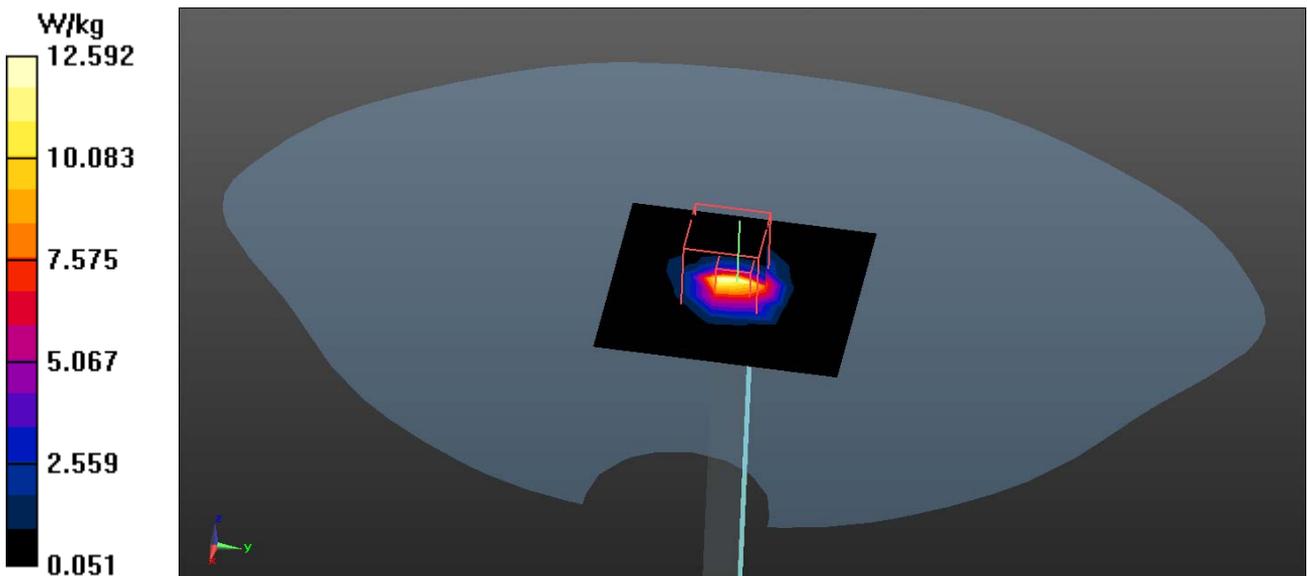
(7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 63.99 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 30.4 W/kg

SAR(1 g) = 7.63 W/kg; SAR(10 g) = 2.08 W/kg

Maximum value of SAR (measured) = 17.8 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

System Performance Check_5600MHz-Body

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: UID 0, CW; Frequency: 5600 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.9$ S/m; $\epsilon_r = 48.29$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.01, 4.01, 4.01); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/5600MHz-Body 100mW/Area Scan (8x8x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 14.7 W/kg

Configuration/5600MHz-Body 100mW/Zoom Scan (7x7x12), dist=2mm

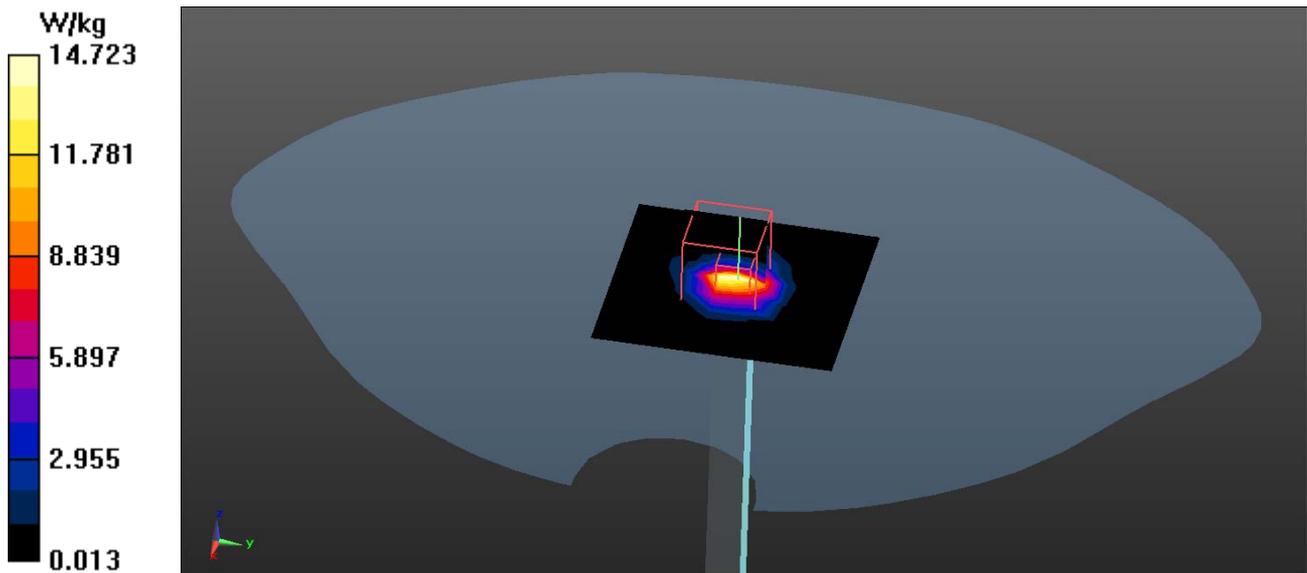
(7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 67.95 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 38.8 W/kg

SAR(1 g) = 8.33 W/kg; SAR(10 g) = 2.27 W/kg

Maximum value of SAR (measured) = 19.7 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

System Performance Check_5800MHz-Body

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: UID 0, CW; Frequency: 5800 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.27 \text{ S/m}$; $\epsilon_r = 47.78$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/5800MHz-Body 100mW/Area Scan (8x8x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 11.3 W/kg

Configuration/5800MHz-Body 100mW/Zoom Scan (7x7x12), dist=2mm

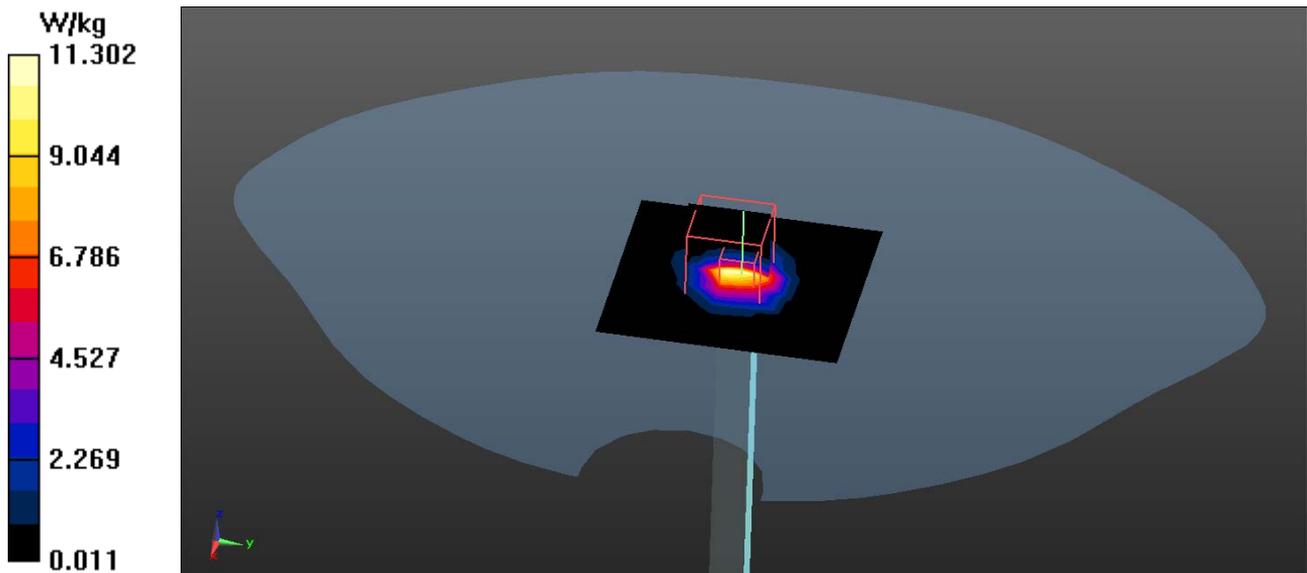
(7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 61.38 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 36.2 W/kg

SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.05 W/kg

Maximum value of SAR (measured) = 18.8 W/kg



Appendix B. SAR measurement Data

Antenna Kit #2 : INPAQ Main Antenna, P/N: WA-F-LBLB-02-005

Test Laboratory: QuieTek

Date/Time: 2015/2/13

802.11b_1-Bottom Main INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 2.4G; Frequency: 2412 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.87$ S/m; $\epsilon_r = 53.21$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.3, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.08, 7.08, 7.08); Calibrated: 2014/11/21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 0.742 W/kg

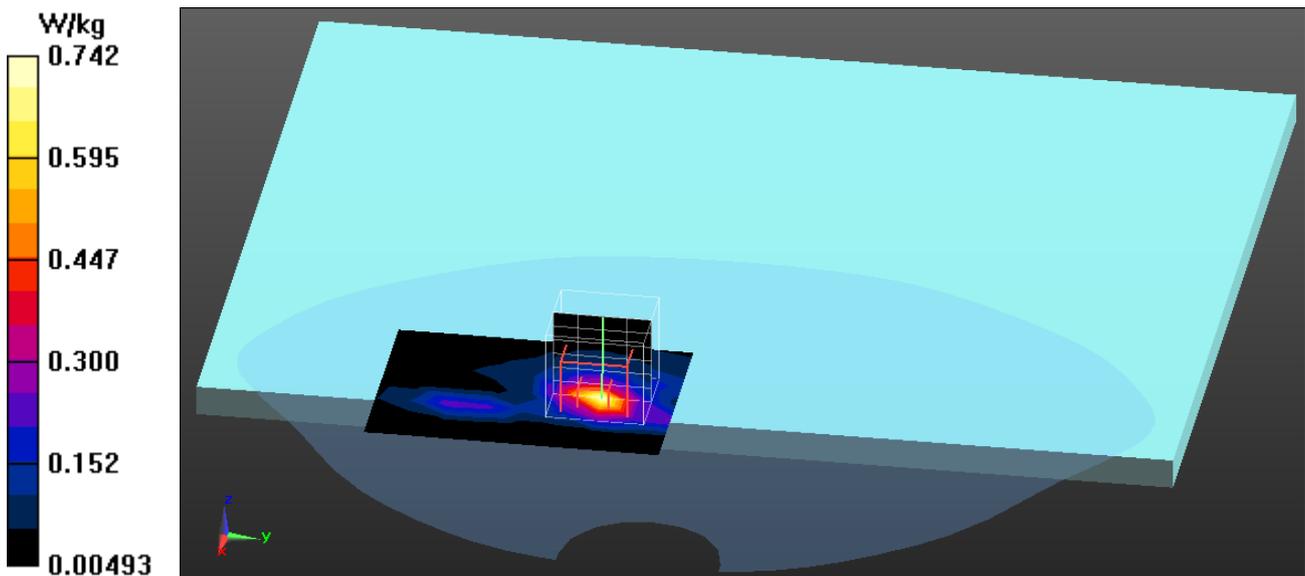
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.574 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.235 W/kg

Maximum value of SAR (measured) = 0.750 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/13

802.11b_6-Bottom Main INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.9$ S/m; $\epsilon_r = 53.14$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.3, Liquid Temperature (°C) : 20.4

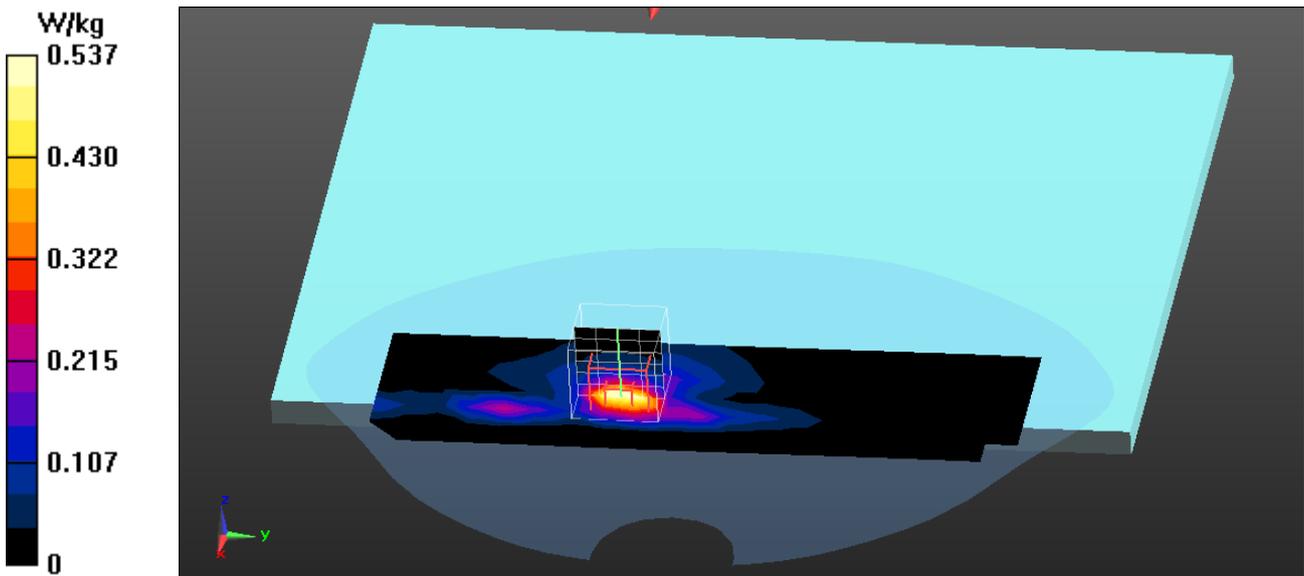
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.08, 7.08, 7.08); Calibrated: 2014/11/21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x21x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 0.537 W/kg

Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 dx=8mm, dy=8mm, dz=5mm
 Reference Value = 5.083 V/m; Power Drift = 0.17 dB
 Peak SAR (extrapolated) = 1.40 W/kg
SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.215 W/kg
 Maximum value of SAR (measured) = 0.777 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/13

802.11b_11-Bottom Main INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 2.4G; Frequency: 2462 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.95$ S/m; $\epsilon_r = 52.91$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.3, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.08, 7.08, 7.08); Calibrated: 2014/11/21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.753 W/kg

Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

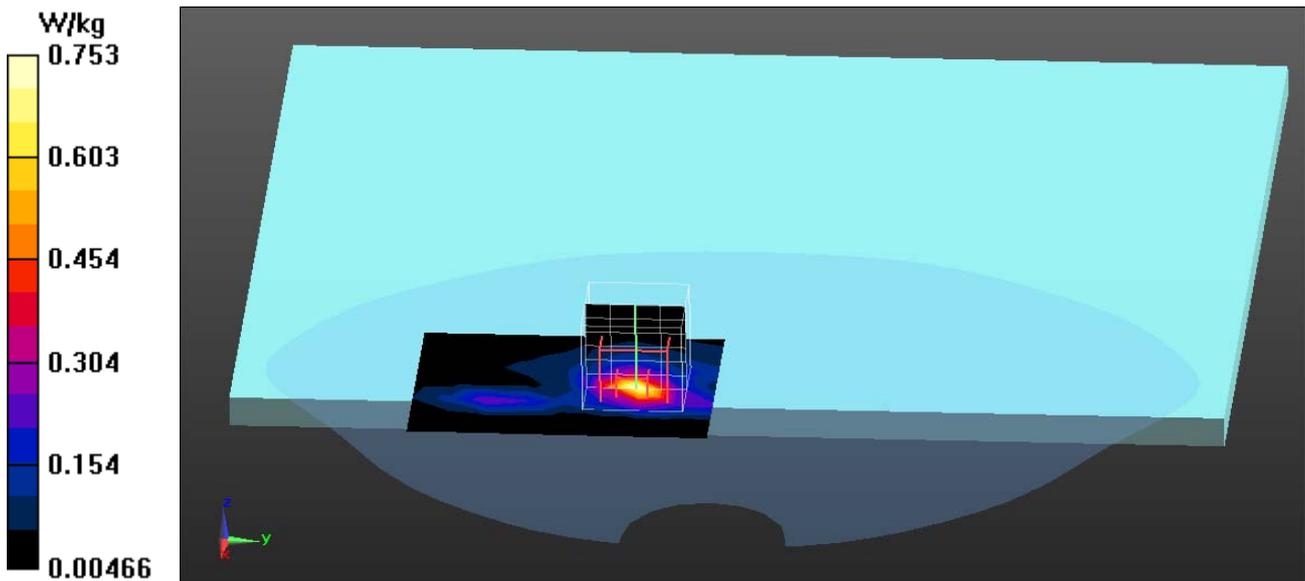
dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.406 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.579 W/kg; SAR(10 g) = 0.231 W/kg

Maximum value of SAR (measured) = 0.837 W/kg



Antenna Kit #2 : INPAQ Aux Antenna, P/N: WA-F-LBLB-02-005

Test Laboratory: QuieTek

Date/Time: 2015/2/13

802.11b_6-Bottom Aux INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.9$ S/m; $\epsilon_r = 53.14$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.3, Liquid Temperature (°C) : 20.4

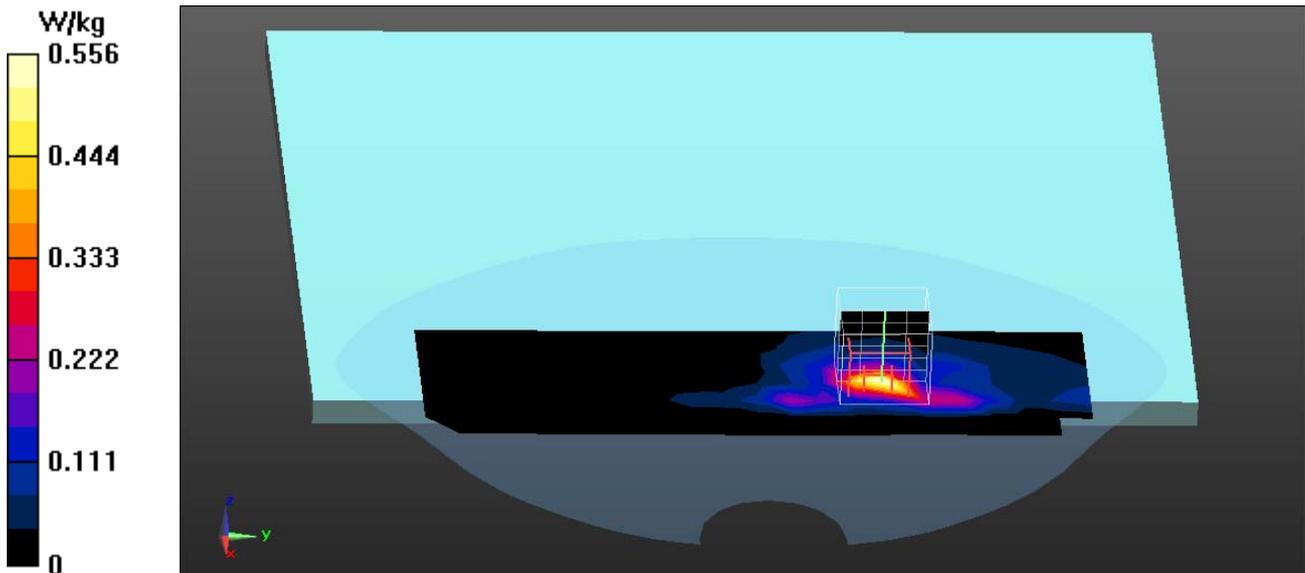
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.08, 7.08, 7.08); Calibrated: 2014/11/21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x21x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 0.556 W/kg

Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 dx=8mm, dy=8mm, dz=5mm
 Reference Value = 4.455 V/m; Power Drift = -0.18 dB
 Peak SAR (extrapolated) = 1.15 W/kg
SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.188 W/kg
 Maximum value of SAR (measured) = 0.627 W/kg



Antenna Kit #2 : INPAQ Main Antenna, P/N: WA-F-LBLB-02-005

Test Laboratory: QuieTek

Date/Time: 2015/2/13

802.11g_6-Bottom Main INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.9$ S/m; $\epsilon_r = 53.14$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.3, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.08, 7.08, 7.08); Calibrated: 2014/11/21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.608 W/kg

Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

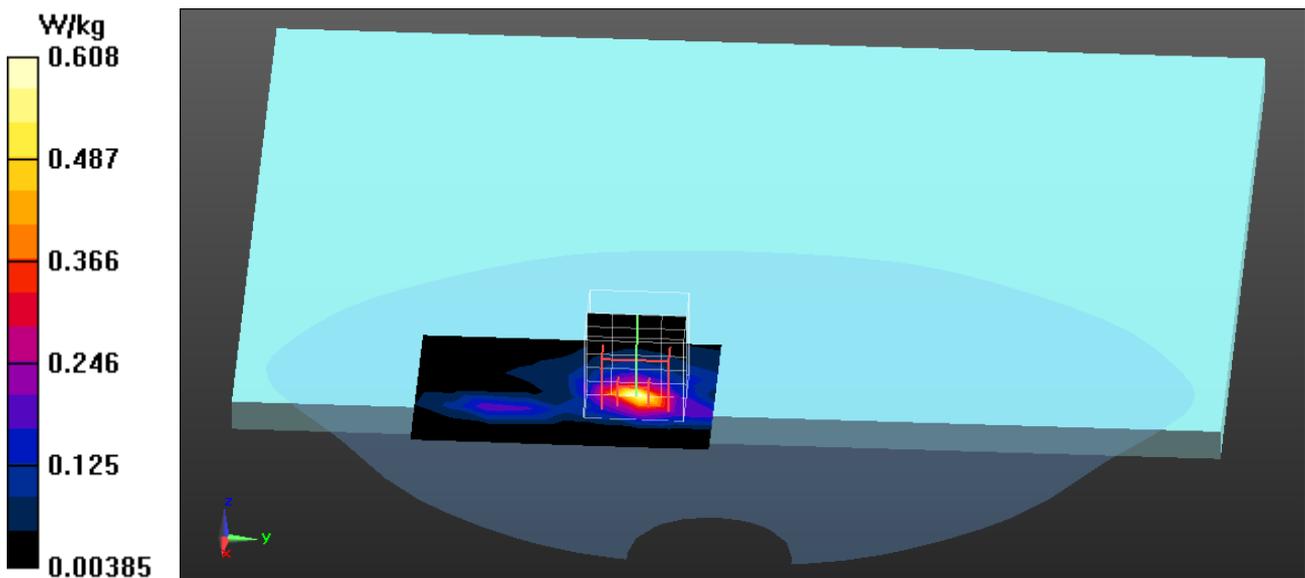
dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.070 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.190 W/kg

Maximum value of SAR (measured) = 0.678 W/kg



Antenna Kit #2 : INPAQ Aux Antenna, P/N: WA-F-LBLB-02-005

Test Laboratory: QuieTek

Date/Time: 2015/2/13

802.11g_6-Bottom Aux INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.9$ S/m; $\epsilon_r = 53.14$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.3, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.08, 7.08, 7.08); Calibrated: 2014/11/21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.506 W/kg

Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

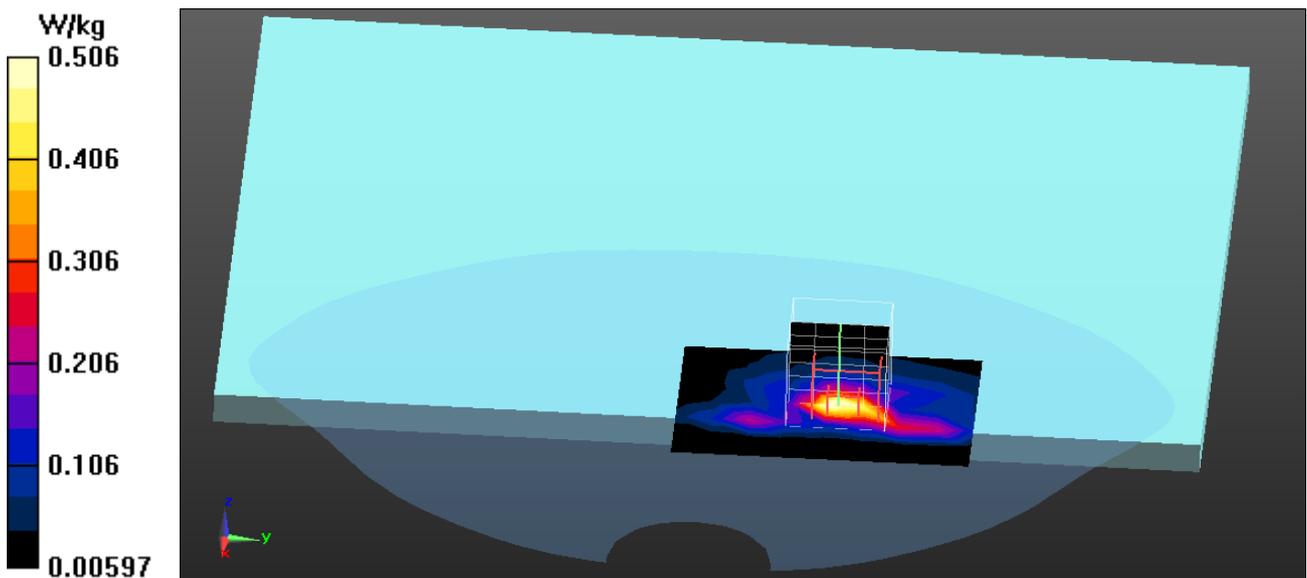
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.458 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.182 W/kg

Maximum value of SAR (measured) = 0.615 W/kg



Antenna Kit #2 : INPAQ Main & Aux Antenna, P/N: WA-F-LBLB-02-005

Test Laboratory: QuieTek

Date/Time: 2015/2/13

802.11n-20M_6-Bottom HT8 INPAQ Main&Aux

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.9$ S/m; $\epsilon_r = 53.14$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.3, Liquid Temperature (°C) : 20.4

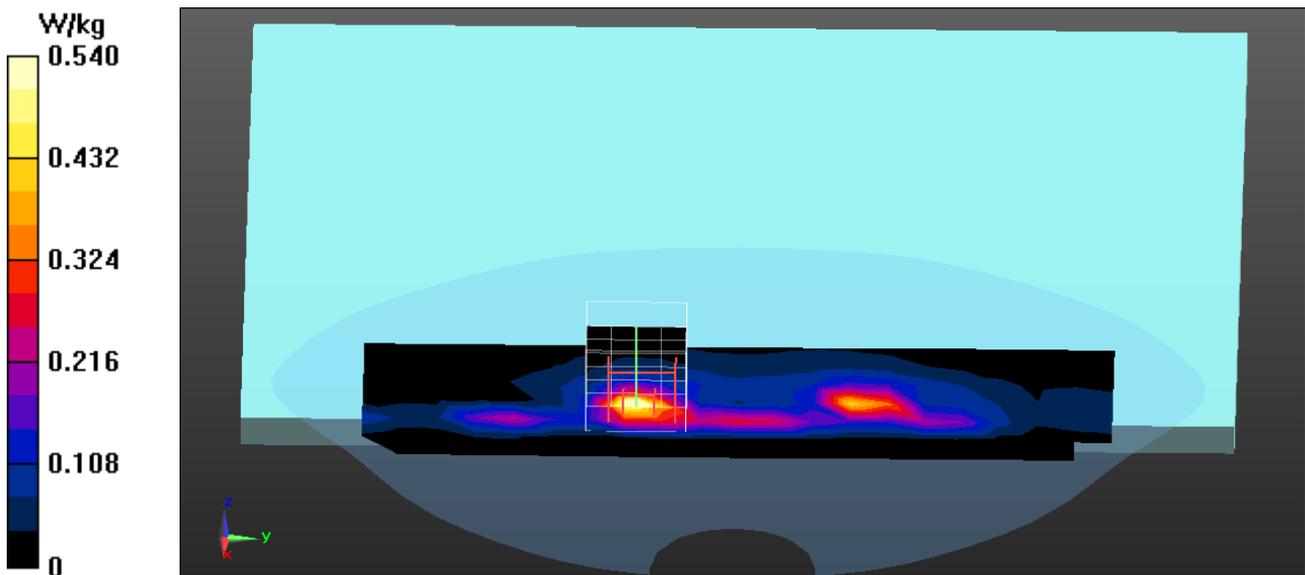
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.08, 7.08, 7.08); Calibrated: 2014/11/21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x21x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 0.540 W/kg

Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 dx=8mm, dy=8mm, dz=5mm
 Reference Value = 6.539 V/m; Power Drift = -0.12 dB
 Peak SAR (extrapolated) = 1.33 W/kg
SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.195 W/kg
 Maximum value of SAR (measured) = 0.770 W/kg



Antenna Kit #2 : INPAQ Main & Aux Antenna, P/N: WA-F-LBLB-02-005

Test Laboratory: QuieTek

Date/Time: 2015/2/13

802.11n-40M_6-Bottom HT8 INPAQ Main&Aux

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.9$ S/m; $\epsilon_r = 53.14$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 21.3, Liquid Temperature (°C) : 20.4

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.08, 7.08, 7.08); Calibrated: 2014/11/21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x21x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 0.746 W/kg

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

Reference Value = 7.654 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.207 W/kg

Maximum value of SAR (measured) = 0.809 W/kg

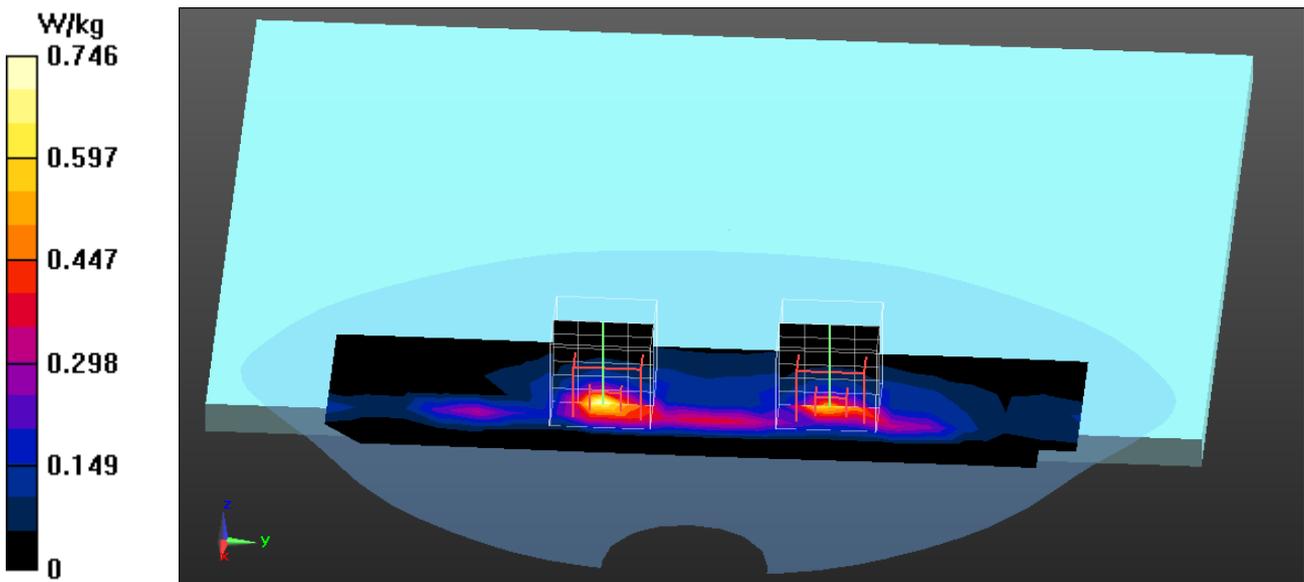
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 1: Measurement grid:
 dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.654 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.923 W/kg

SAR(1 g) = 0.363 W/kg; SAR(10 g) = 0.151 W/kg

Maximum value of SAR (measured) = 0.532 W/kg



Antenna Kit #1 : TONGDA Main Antenna, P/N: T-543-3010300-A

Test Laboratory: QuieTek

Date/Time: 2015/2/13

802.11b_1-Bottom Main TD

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 2.4G; Frequency: 2412 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.87 \text{ S/m}$; $\epsilon_r = 53.21$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 21.3, Liquid Temperature ($^{\circ}\text{C}$) : 20.4

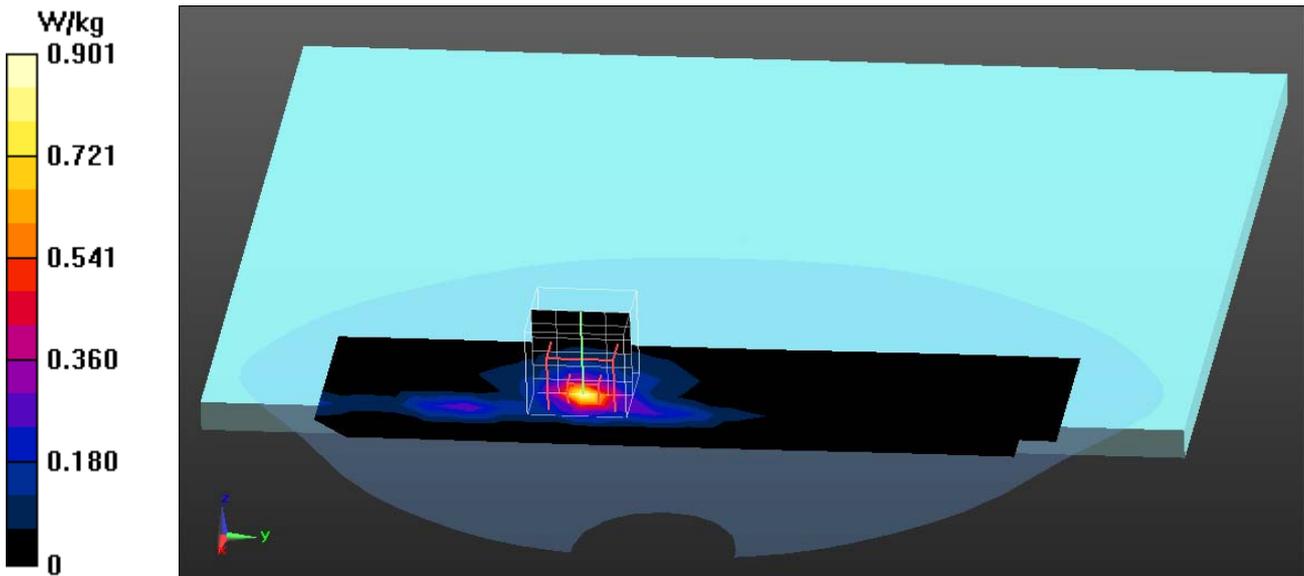
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

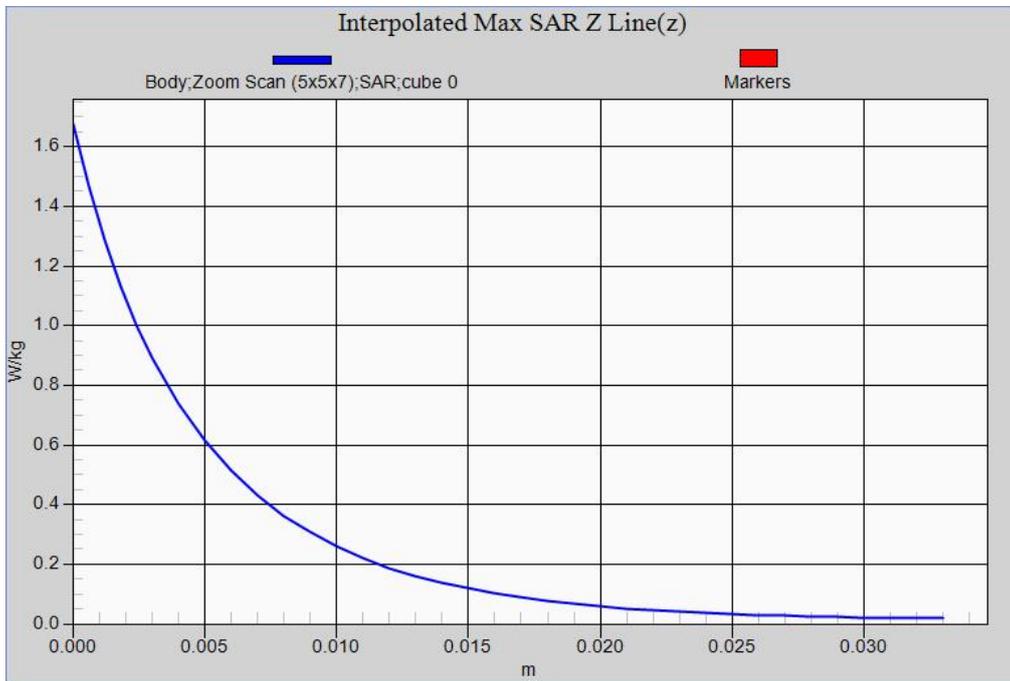
- Probe: EX3DV4 - SN3979; ConvF(7.08, 7.08, 7.08); Calibrated: 2014/11/21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x21x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$
 Maximum value of SAR (measured) = 0.901 W/kg

Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 4.908 V/m; Power Drift = -0.02 dB
 Peak SAR (extrapolated) = 1.68 W/kg
SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.240 W/kg
 Maximum value of SAR (measured) = 0.858 W/kg



802.11b TONGDA Main Antenna EUT Bottom Z-Axis plot
Channel: 1



Antenna Kit #2 : INPAQ Main Antenna, P/N: WA-F-LBLB-02-005

Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_36-Bottom 6M-Main-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5180 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.26 \text{ S/m}$; $\epsilon_r = 49.45$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

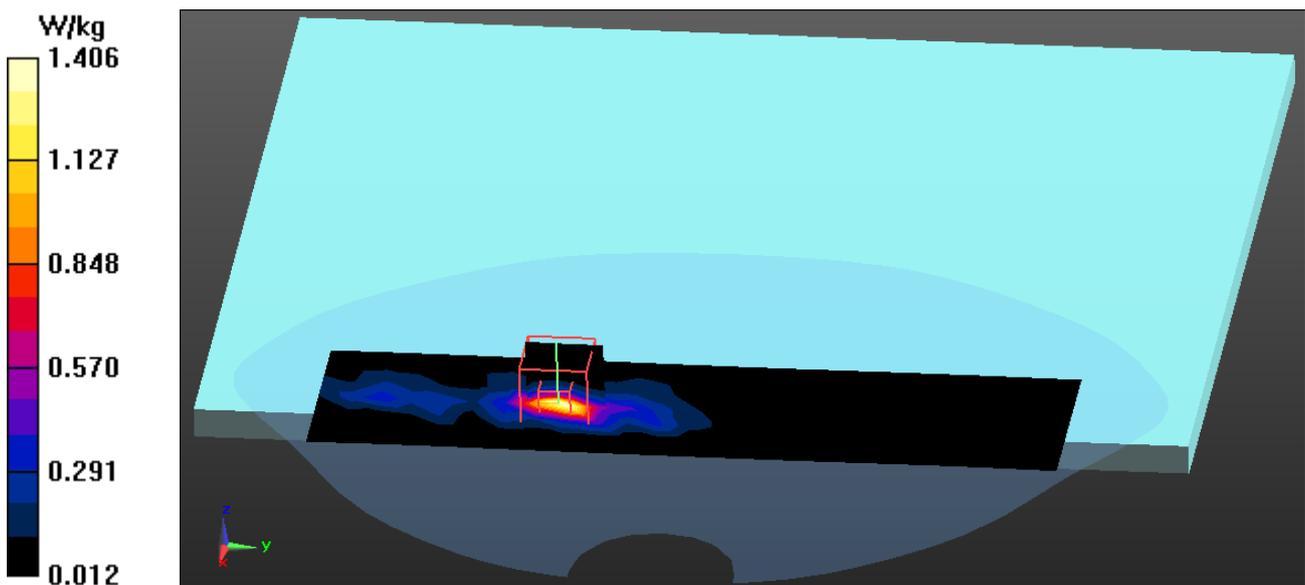
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.6, 4.6, 4.6); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x25x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 1.41 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$
 Reference Value = 5.873 V/m; Power Drift = -0.18 dB
 Peak SAR (extrapolated) = 4.12 W/kg
SAR(1 g) = 0.710 W/kg; SAR(10 g) = 0.213 W/kg
 Maximum value of SAR (measured) = 1.64 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_44-Bottom 6M-Main-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5220 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.32 \text{ S/m}$; $\epsilon_r = 49.35$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

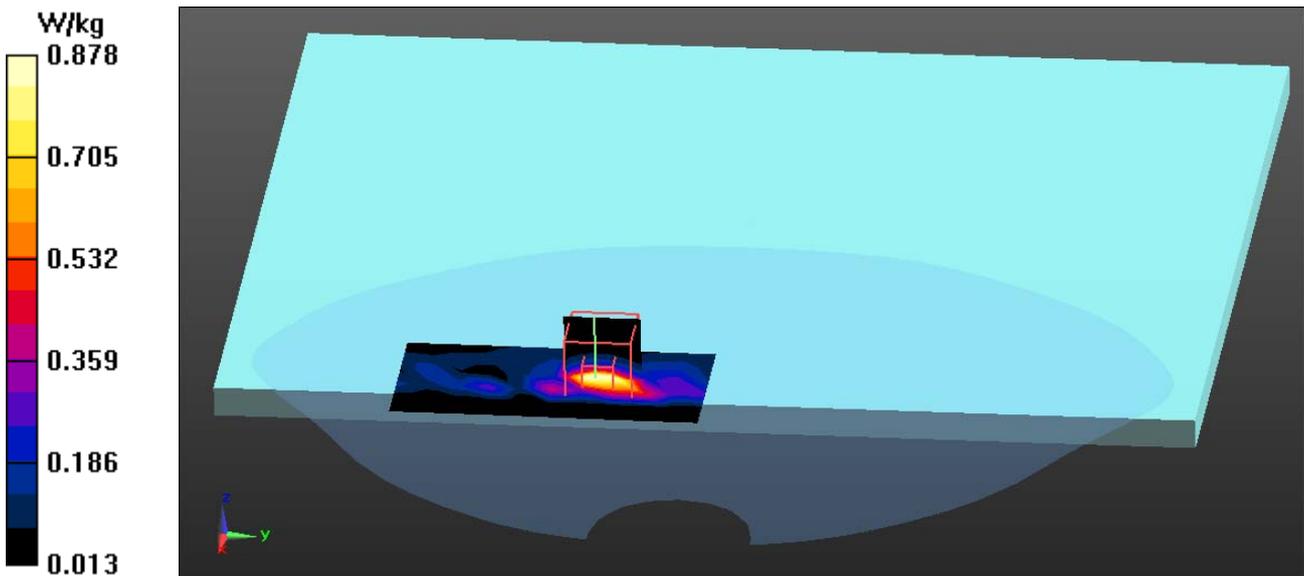
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.6, 4.6, 4.6); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 0.878 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$
 Reference Value = 8.858 V/m; Power Drift = -0.18 dB
 Peak SAR (extrapolated) = 3.38 W/kg
SAR(1 g) = 0.569 W/kg; SAR(10 g) = 0.168 W/kg
 Maximum value of SAR (measured) = 1.20 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_48-Bottom 6M-Main-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5240 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 5.36 \text{ S/m}$; $\epsilon_r = 49.29$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

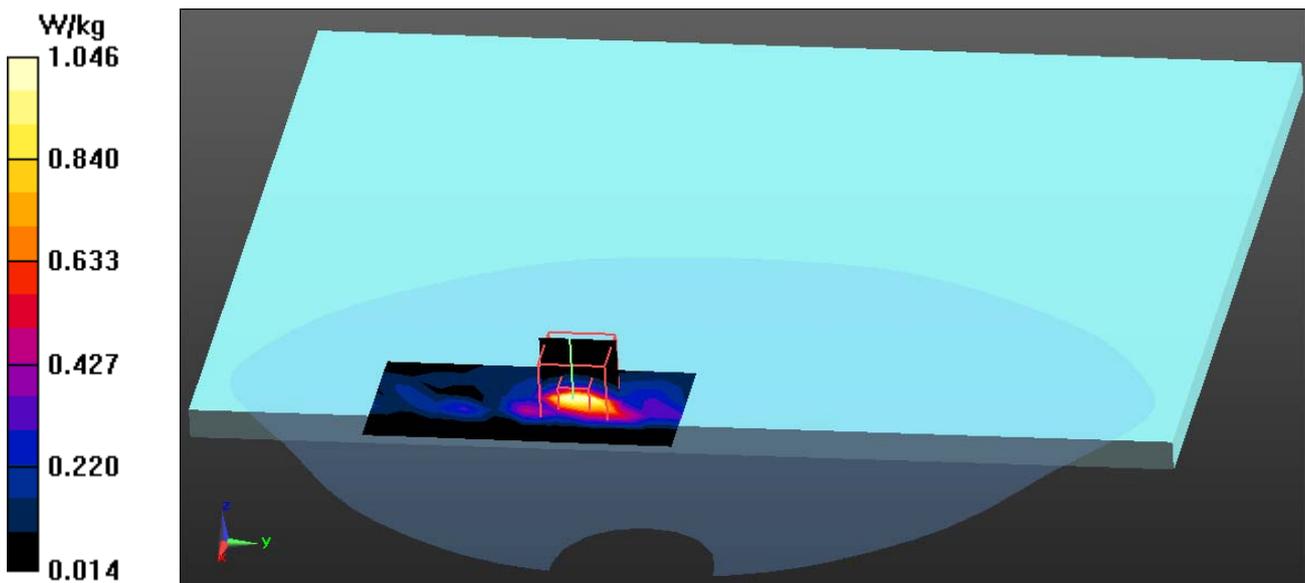
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.6, 4.6, 4.6); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.05 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=2mm
 Reference Value = 9.488 V/m; Power Drift = -0.14 dB
 Peak SAR (extrapolated) = 3.94 W/kg
SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.197 W/kg
 Maximum value of SAR (measured) = 1.44 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_52-Bottom 6M-Main-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5260 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.39 \text{ S/m}$; $\epsilon_r = 49.24$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.892 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

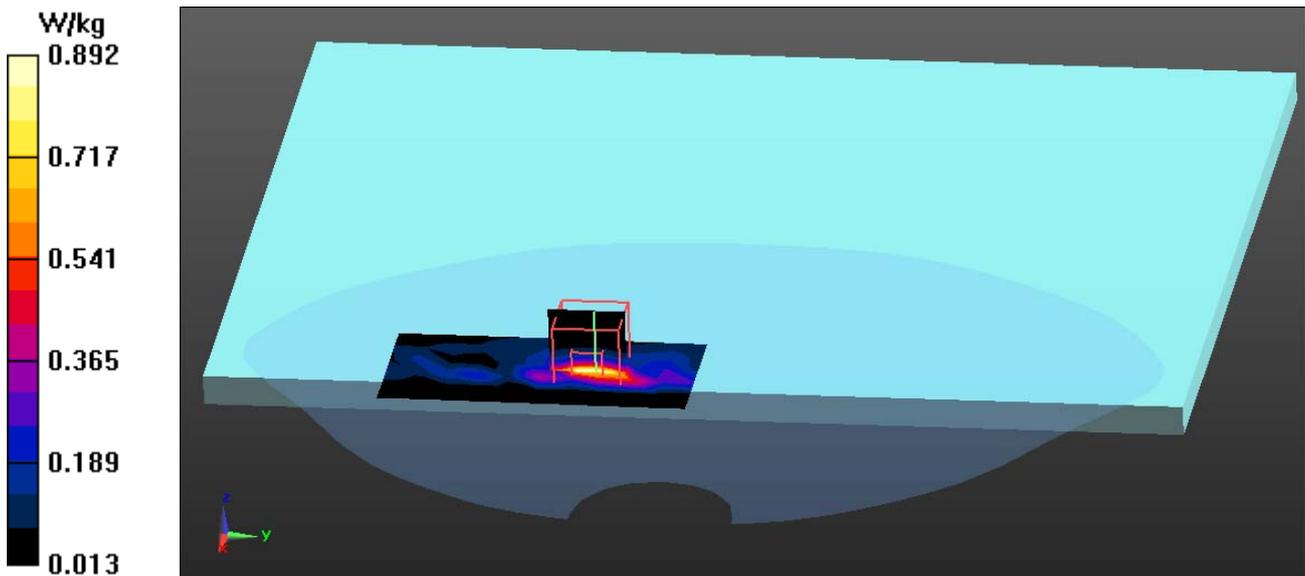
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$

Reference Value = 8.518 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 0.580 W/kg; SAR(10 g) = 0.168 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_60-Bottom 6M-Main-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5300 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.45 \text{ S/m}$; $\epsilon_r = 49.14$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.11 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

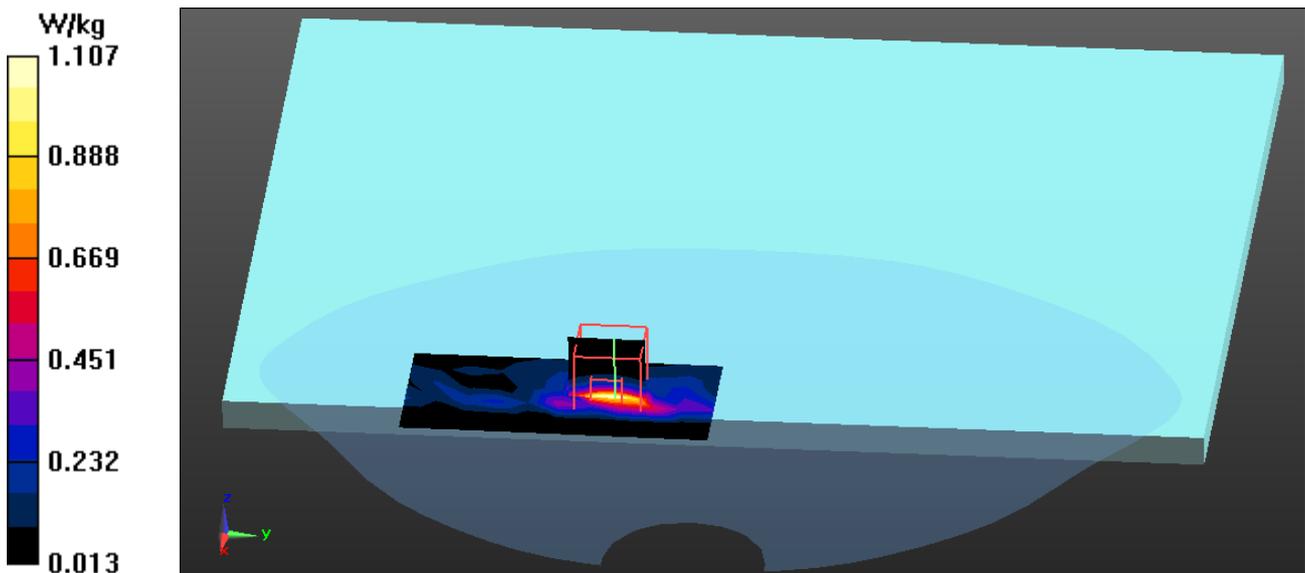
dx=5mm, dy=5mm, dz=2mm

Reference Value = 9.049 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 4.27 W/kg

SAR(1 g) = 0.732 W/kg; SAR(10 g) = 0.204 W/kg

Maximum value of SAR (measured) = 1.37 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_64-Bottom 6M-Main-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5320 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5320$ MHz; $\sigma = 5.48$ S/m; $\epsilon_r = 49.08$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.993 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

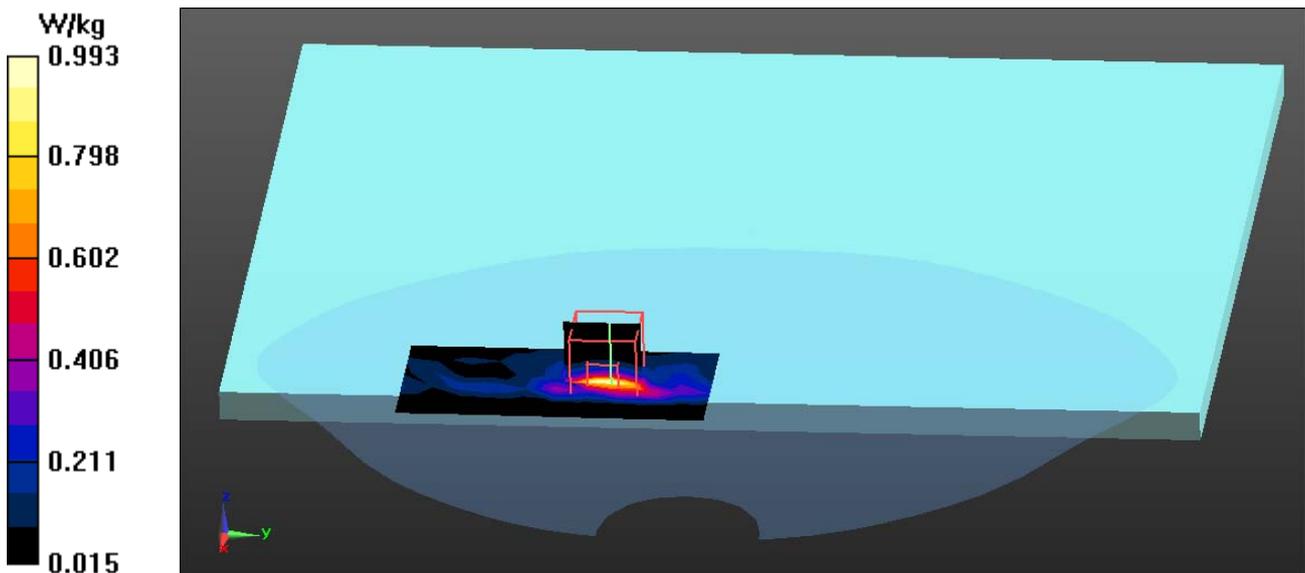
dx=5mm, dy=5mm, dz=2mm

Reference Value = 8.406 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.93 W/kg

SAR(1 g) = 0.667 W/kg; SAR(10 g) = 0.186 W/kg

Maximum value of SAR (measured) = 1.25 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_100-Bottom 6M-Main-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5500 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.73 \text{ S/m}$; $\epsilon_r = 48.58$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.04, 4.04, 4.04); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.790 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

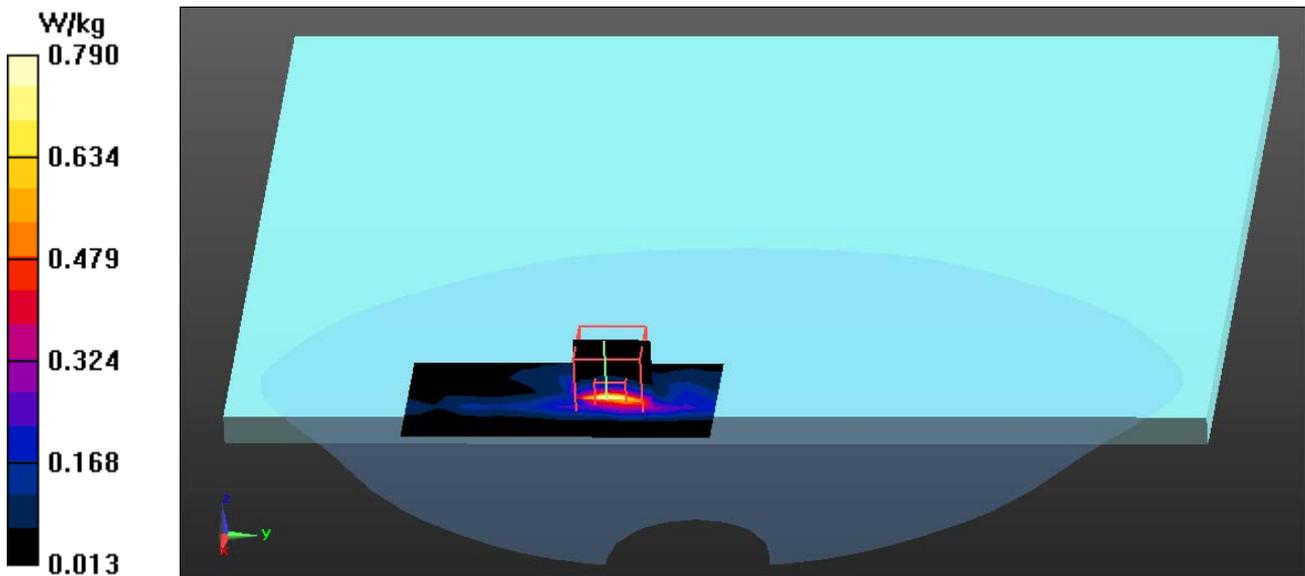
dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.914 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 3.14 W/kg

SAR(1 g) = 0.518 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_116-Bottom 6M-Main-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5580 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.87 \text{ S/m}$; $\epsilon_r = 48.21$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.01, 4.01, 4.01); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.391 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

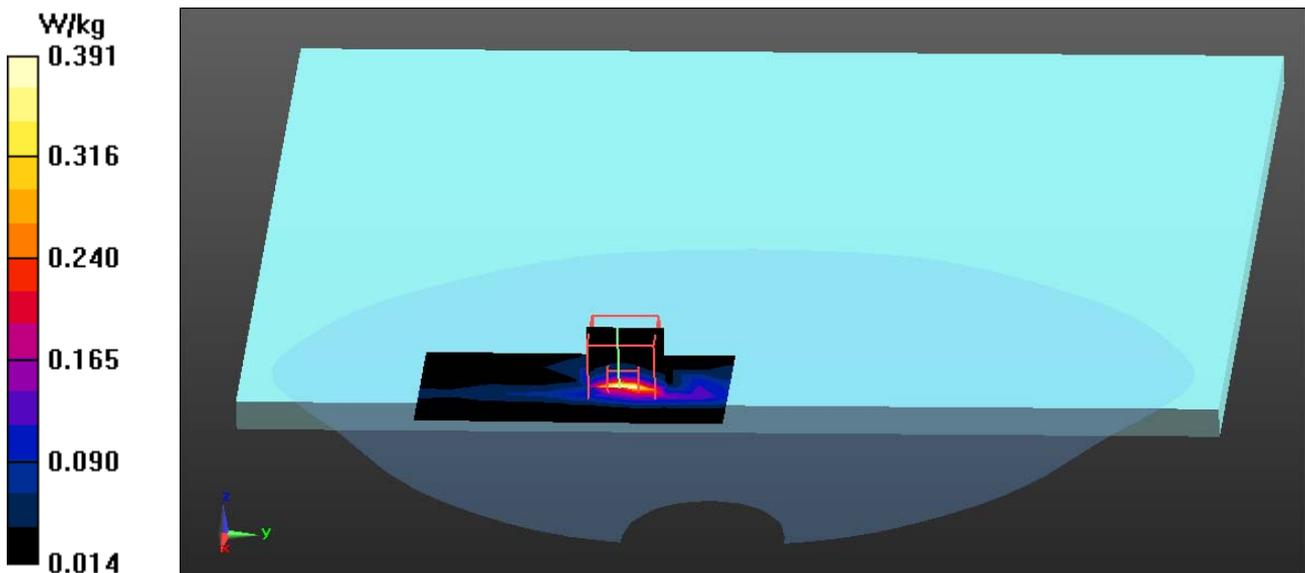
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.800 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.078 W/kg

Maximum value of SAR (measured) = 0.492 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_140-Bottom 6M-Main-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5700 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 6.06 \text{ S/m}$; $\epsilon_r = 48.03$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.487 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

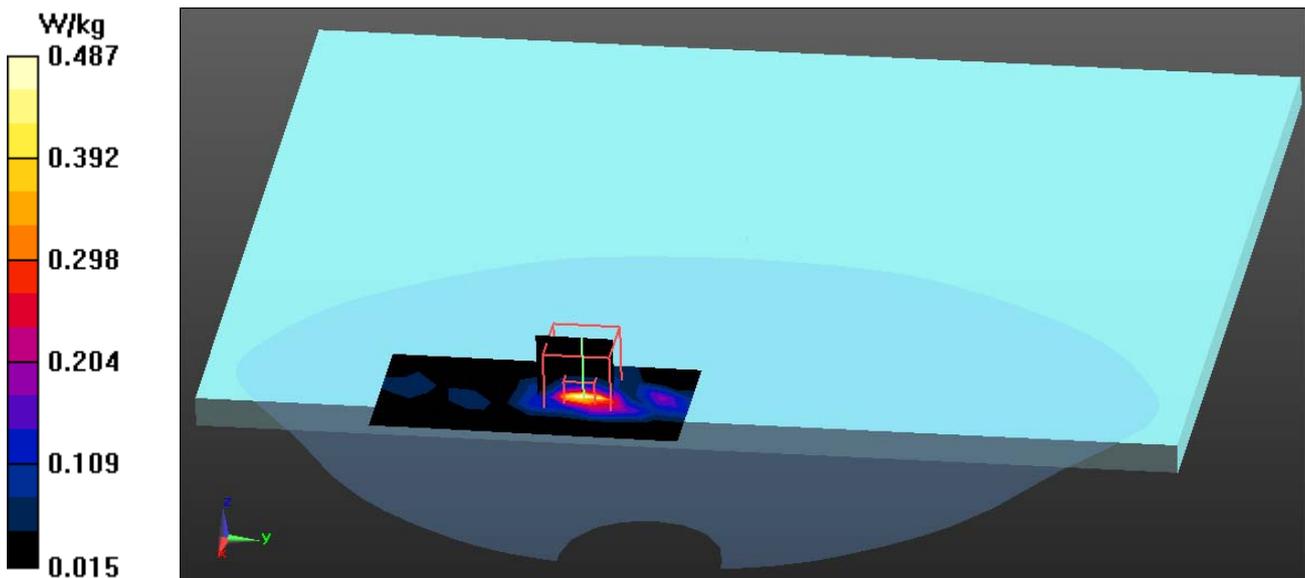
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$

Reference Value = 3.743 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.090 W/kg

Maximum value of SAR (measured) = 0.614 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_149-Bottom 6M-Main-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5745 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.17 \text{ S/m}$; $\epsilon_r = 47.92$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.979 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

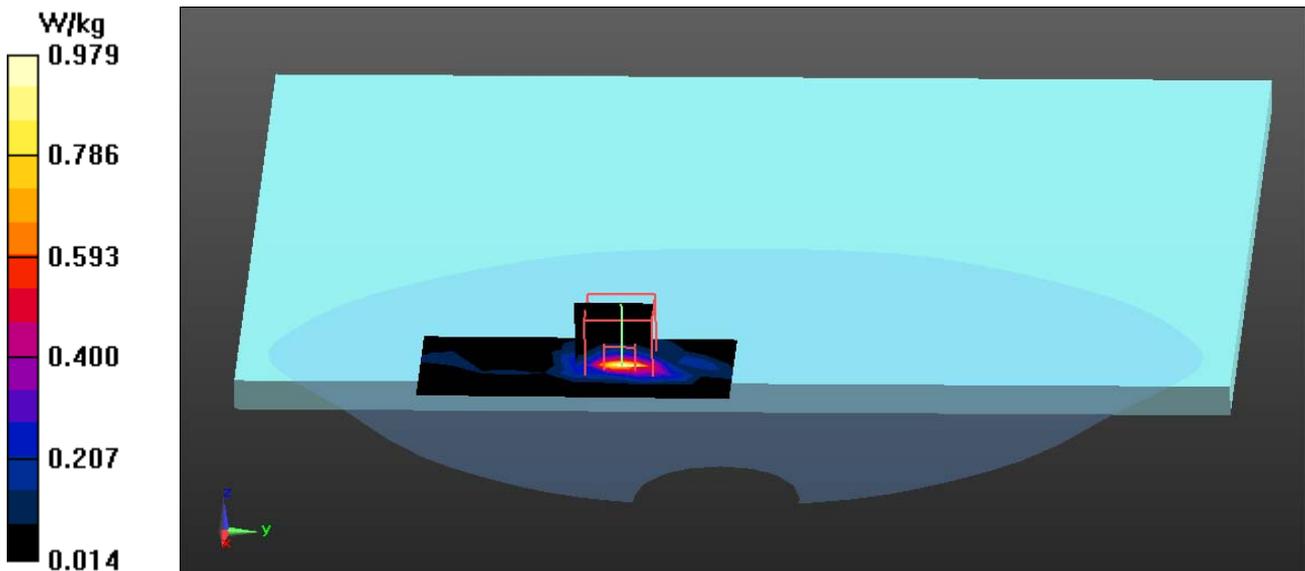
dx=5mm, dy=5mm, dz=2mm

Reference Value = 3.950 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 3.06 W/kg

SAR(1 g) = 0.517 W/kg; SAR(10 g) = 0.151 W/kg

Maximum value of SAR (measured) = 1.15 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_157-Bottom 6M-Main-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5785 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.23 \text{ S/m}$; $\epsilon_r = 47.82$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

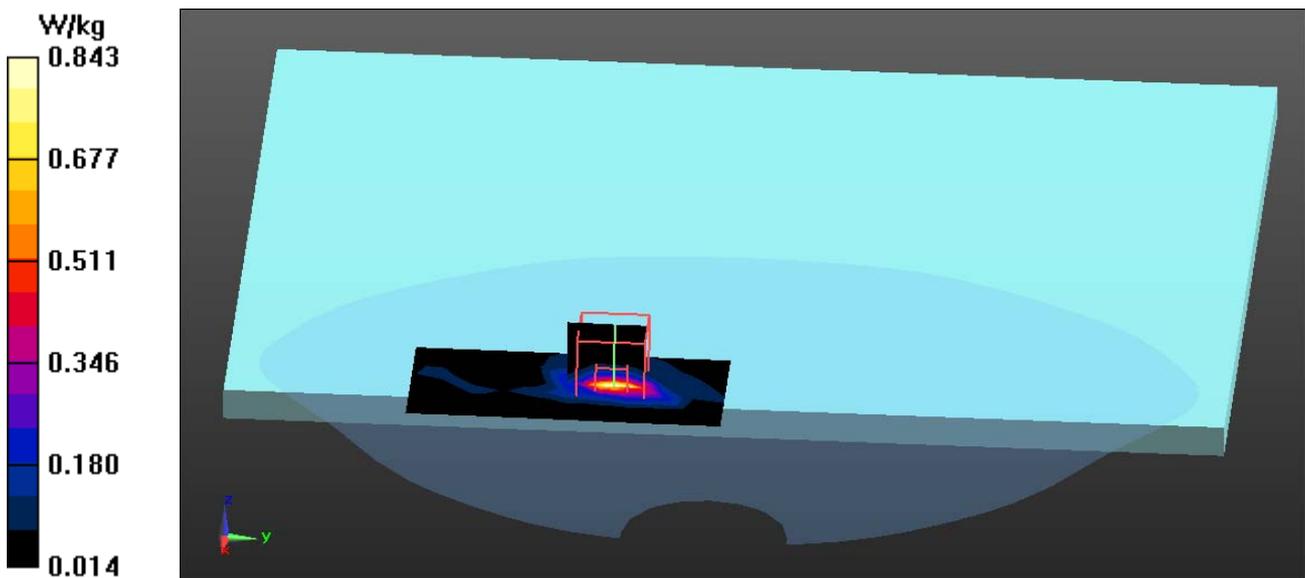
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 0.843 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$
 Reference Value = 3.914 V/m; Power Drift = -0.17 dB
 Peak SAR (extrapolated) = 2.71 W/kg
SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.135 W/kg
 Maximum value of SAR (measured) = 1.03 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_165-Bottom 6M-Main-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5825 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.3 \text{ S/m}$; $\epsilon_r = 47.73$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

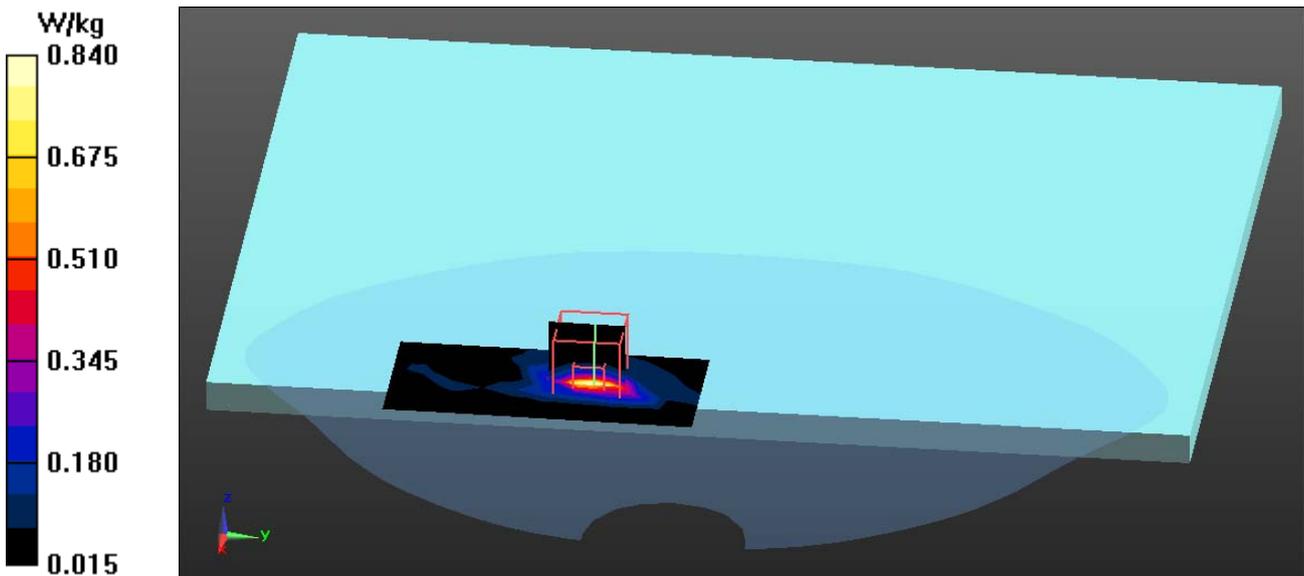
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 0.840 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=2mm
 Reference Value = 4.397 V/m; Power Drift = -0.16 dB
 Peak SAR (extrapolated) = 3.01 W/kg
SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.141 W/kg
 Maximum value of SAR (measured) = 1.09 W/kg



Antenna Kit #2 : INPAQ Aux Antenna, P/N: WA-F-LBLB-02-005

Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_36-Bottom 6M-Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5180 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.26 \text{ S/m}$; $\epsilon_r = 49.45$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

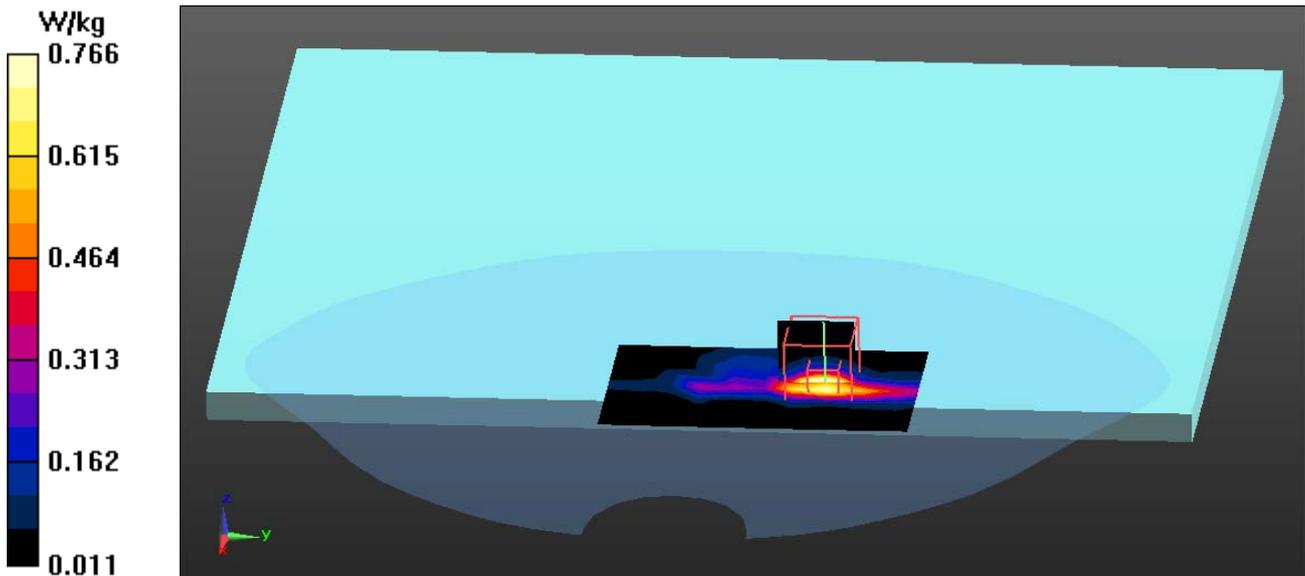
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.6, 4.6, 4.6); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 0.766 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$
 Reference Value = 8.676 V/m; Power Drift = -0.13 dB
 Peak SAR (extrapolated) = 2.62 W/kg
SAR(1 g) = 0.511 W/kg; SAR(10 g) = 0.158 W/kg
 Maximum value of SAR (measured) = 1.11 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_44-Bottom 6M-Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5220 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5220$ MHz; $\sigma = 5.32$ S/m; $\epsilon_r = 49.35$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

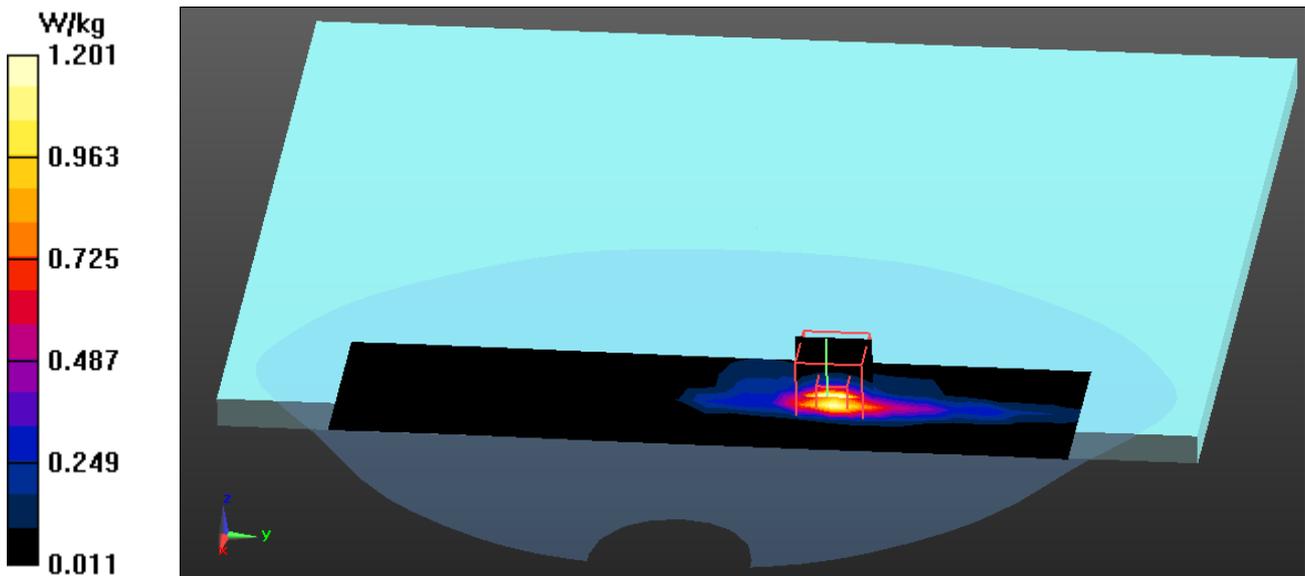
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.6, 4.6, 4.6); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x25x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.20 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=2mm
 Reference Value = 7.869 V/m; Power Drift = -0.19 dB
 Peak SAR (extrapolated) = 3.95 W/kg
SAR(1 g) = 0.761 W/kg; SAR(10 g) = 0.223 W/kg
 Maximum value of SAR (measured) = 1.54 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_48-Bottom 6M-Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5240 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 5.36 \text{ S/m}$; $\epsilon_r = 49.29$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

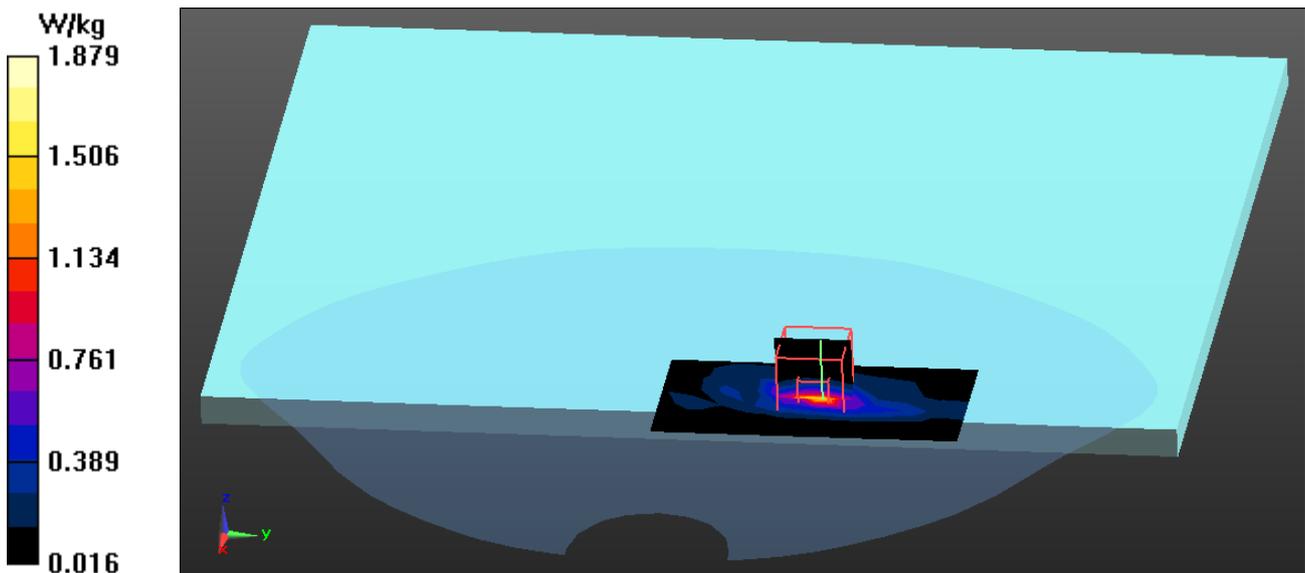
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.6, 4.6, 4.6); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.88 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=2mm
 Reference Value = 7.812 V/m; Power Drift = -0.17 dB
 Peak SAR (extrapolated) = 4.09 W/kg
SAR(1 g) = 0.826 W/kg; SAR(10 g) = 0.241 W/kg
 Maximum value of SAR (measured) = 1.50 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_52-Bottom 6M-Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5260 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5260$ MHz; $\sigma = 5.39$ S/m; $\epsilon_r = 49.24$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

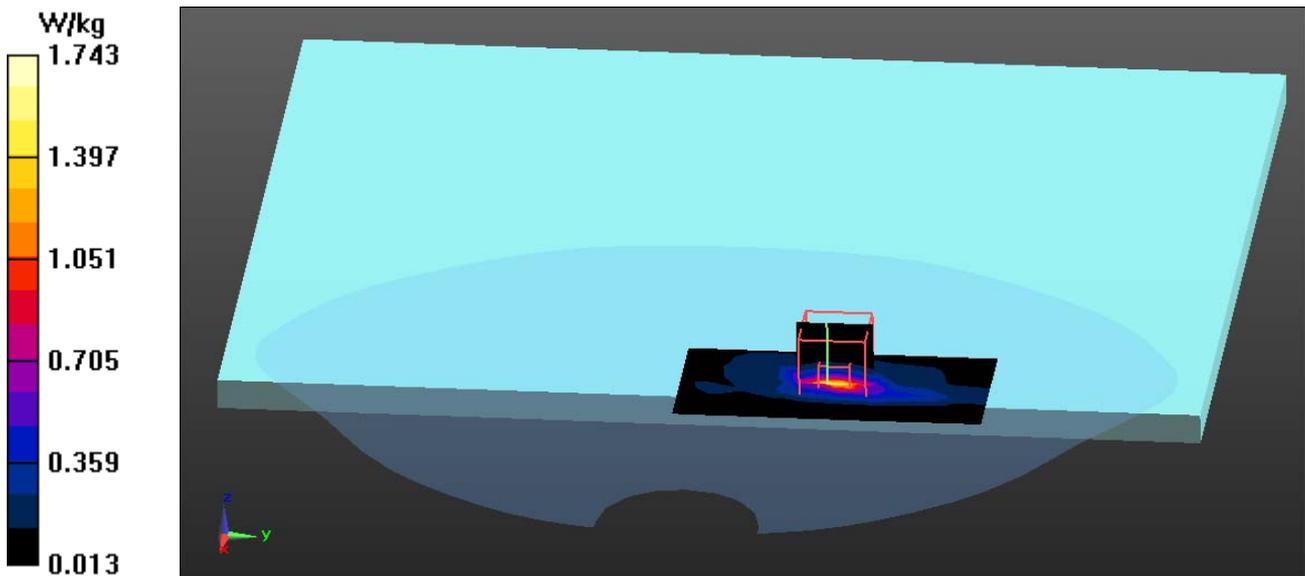
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.74 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
 Reference Value = 7.025 V/m; Power Drift = 0.07 dB
 Peak SAR (extrapolated) = 4.40 W/kg
SAR(1 g) = 0.863 W/kg; SAR(10 g) = 0.248 W/kg
 Maximum value of SAR (measured) = 1.59 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_60-Bottom 6M-Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5300 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.45 \text{ S/m}$; $\epsilon_r = 49.14$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.19 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

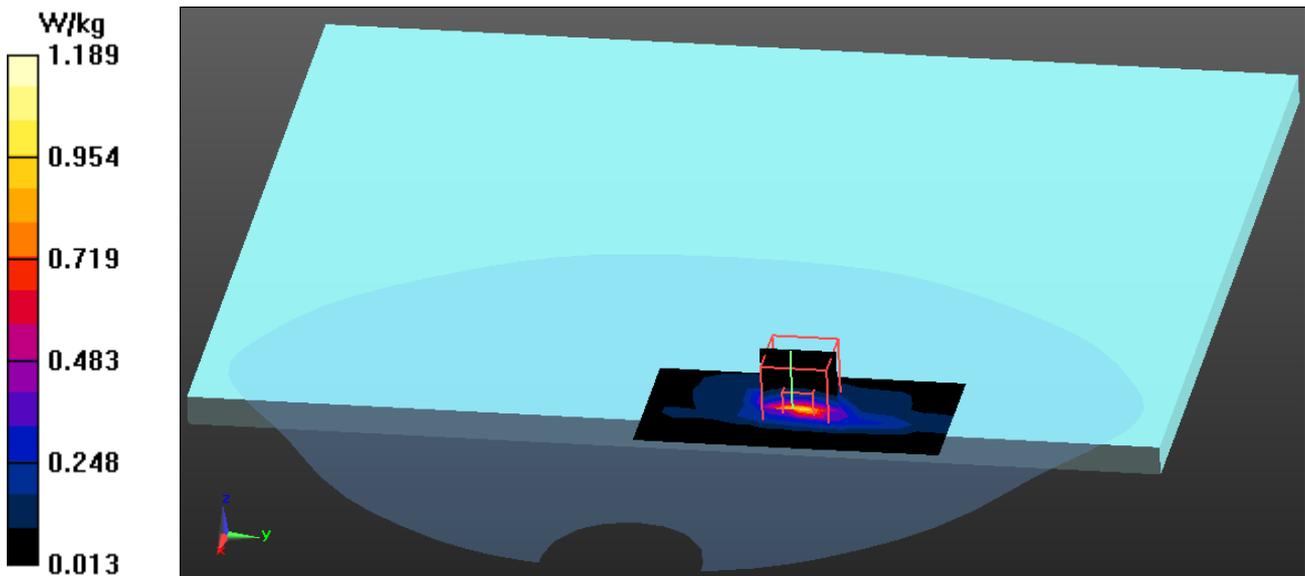
dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.636 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 2.93 W/kg

SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.167 W/kg

Maximum value of SAR (measured) = 1.05 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_64-Bottom 6M-Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5320 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5320$ MHz; $\sigma = 5.48$ S/m; $\epsilon_r = 49.08$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.05 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

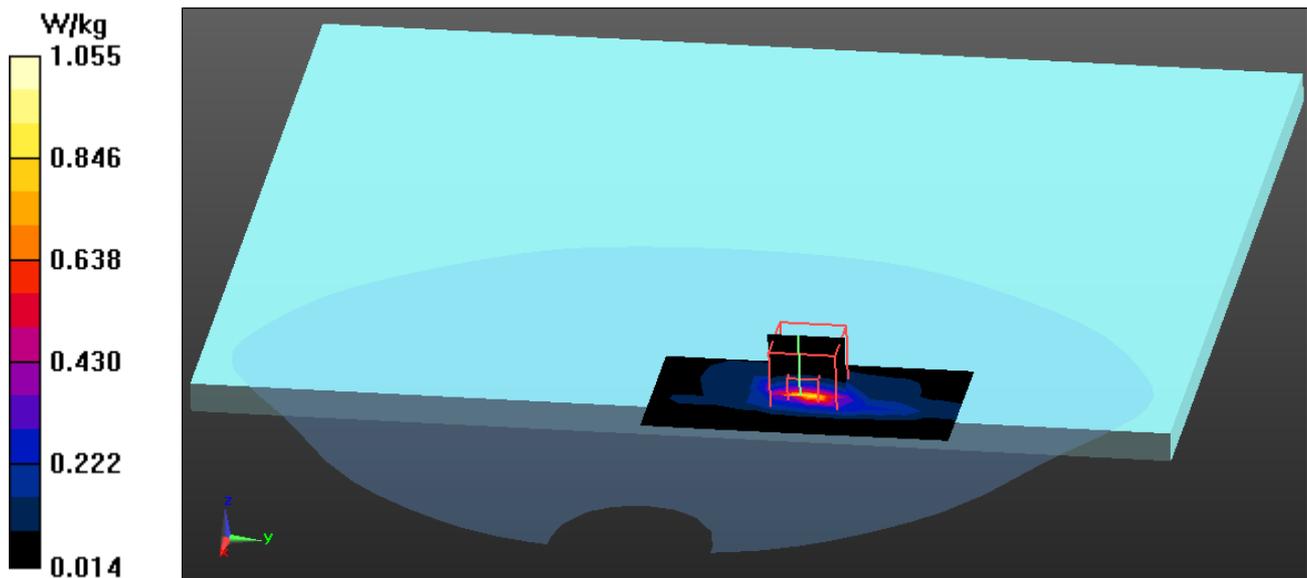
dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.383 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.63 W/kg

SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.150 W/kg

Maximum value of SAR (measured) = 0.942 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_100-Bottom 6M-Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5500 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.73$ S/m; $\epsilon_r = 48.58$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.04, 4.04, 4.04); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.66 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

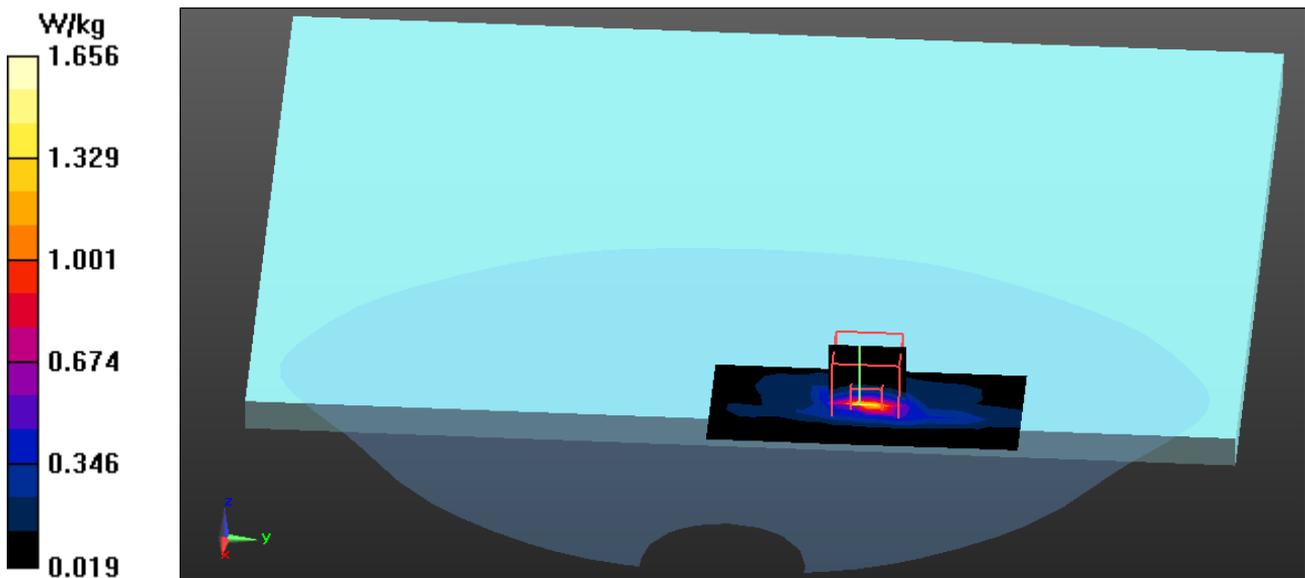
dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.847 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 4.18 W/kg

SAR(1 g) = 0.789 W/kg; SAR(10 g) = 0.226 W/kg

Maximum value of SAR (measured) = 1.53 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_116-Bottom 6M-Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5580 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.87$ S/m; $\epsilon_r = 48.21$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.01, 4.01, 4.01); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.44 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

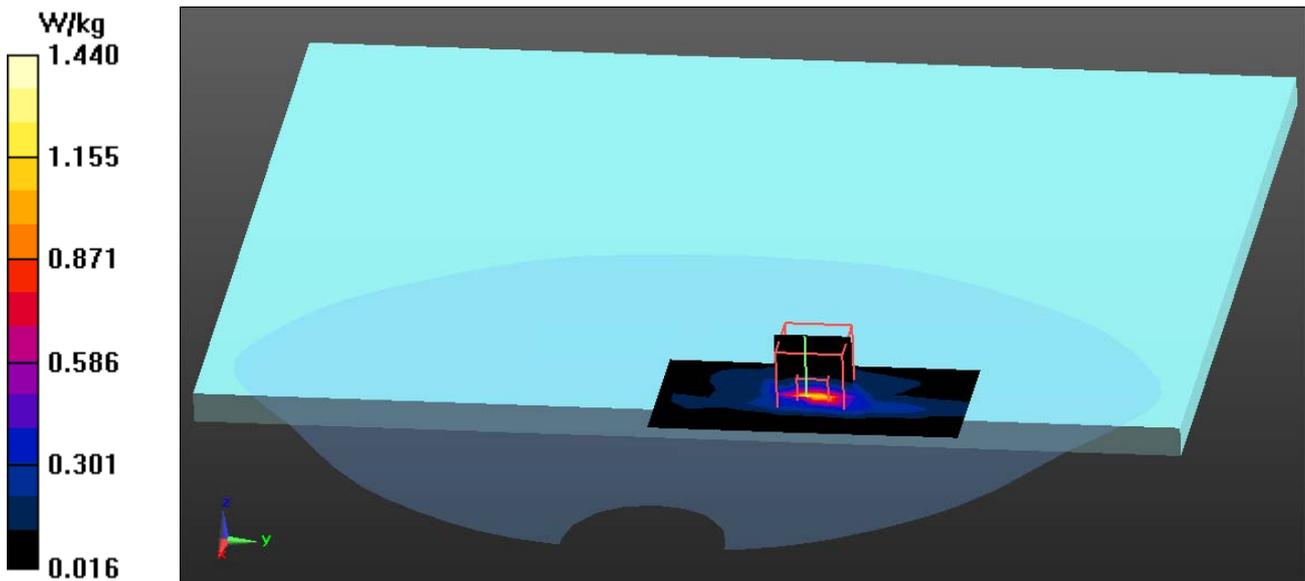
dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.503 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 3.62 W/kg

SAR(1 g) = 0.671 W/kg; SAR(10 g) = 0.195 W/kg

Maximum value of SAR (measured) = 1.29 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_140-Bottom 6M-Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5700 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5700$ MHz; $\sigma = 6.06$ S/m; $\epsilon_r = 48.03$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.29 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

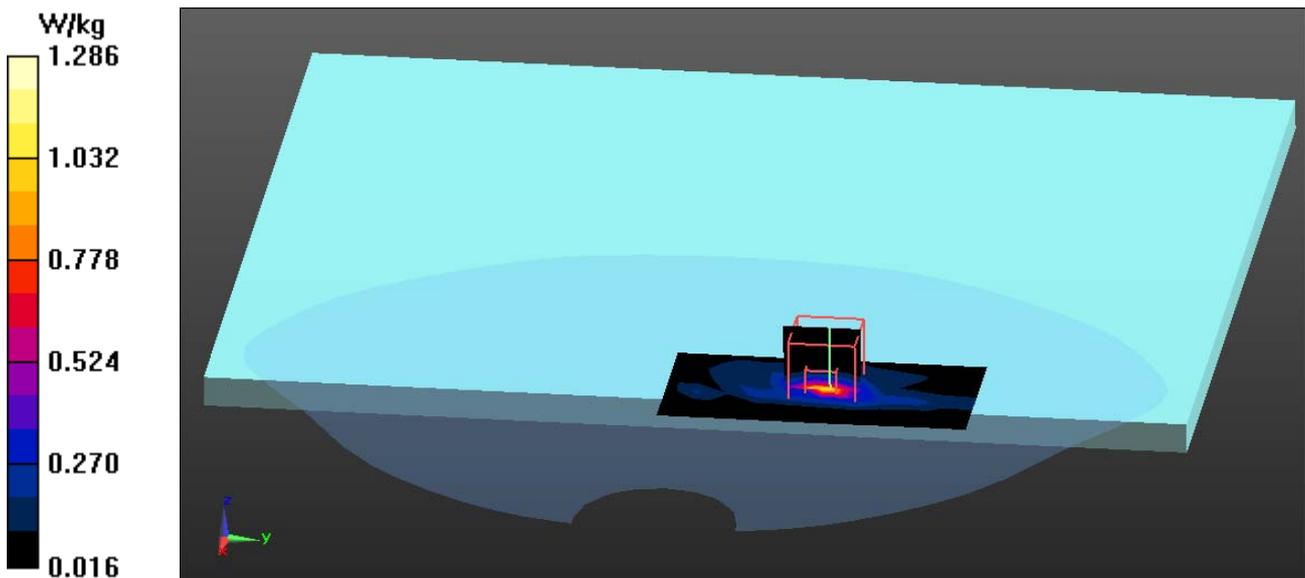
dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.869 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.11 W/kg

SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.166 W/kg

Maximum value of SAR (measured) = 1.11 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_149-Bottom 6M-Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5745 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.17 \text{ S/m}$; $\epsilon_r = 47.92$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 1.50 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

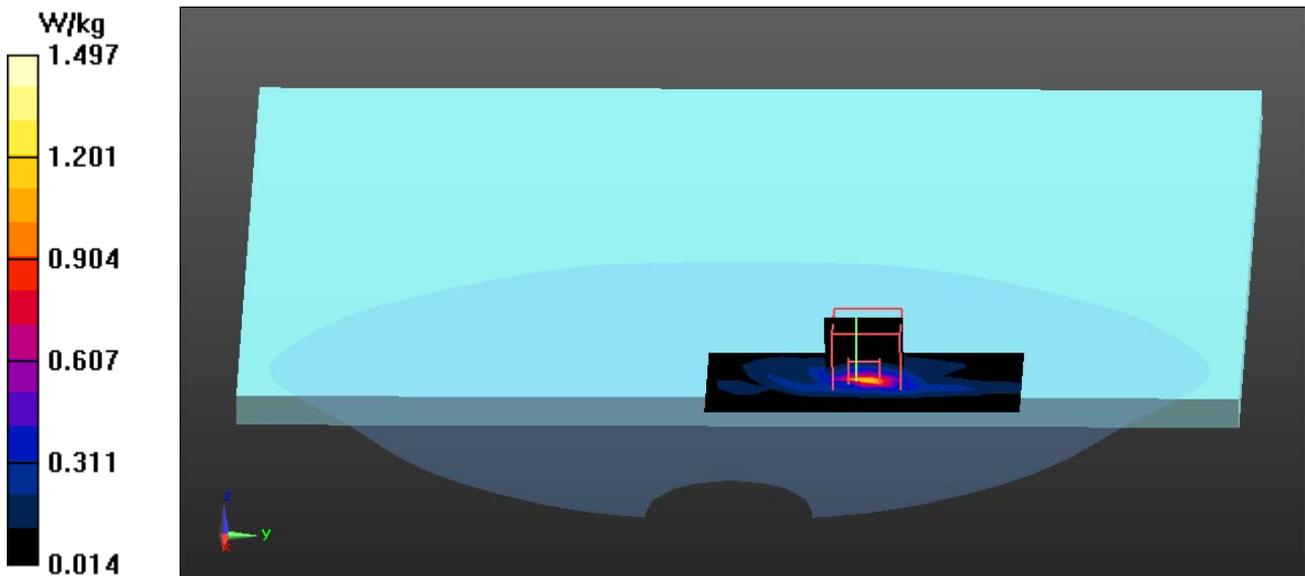
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$

Reference Value = 7.259 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.81 W/kg

SAR(1 g) = 0.666 W/kg; SAR(10 g) = 0.188 W/kg

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



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_157-Bottom 6M-Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5785 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.23 \text{ S/m}$; $\epsilon_r = 47.82$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.37 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.653 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 3.54 W/kg

SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.173 W/kg

Maximum value of SAR (measured) = 1.18 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_165-Bottom 6M-Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5825 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.3 \text{ S/m}$; $\epsilon_r = 47.73$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 1.69 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

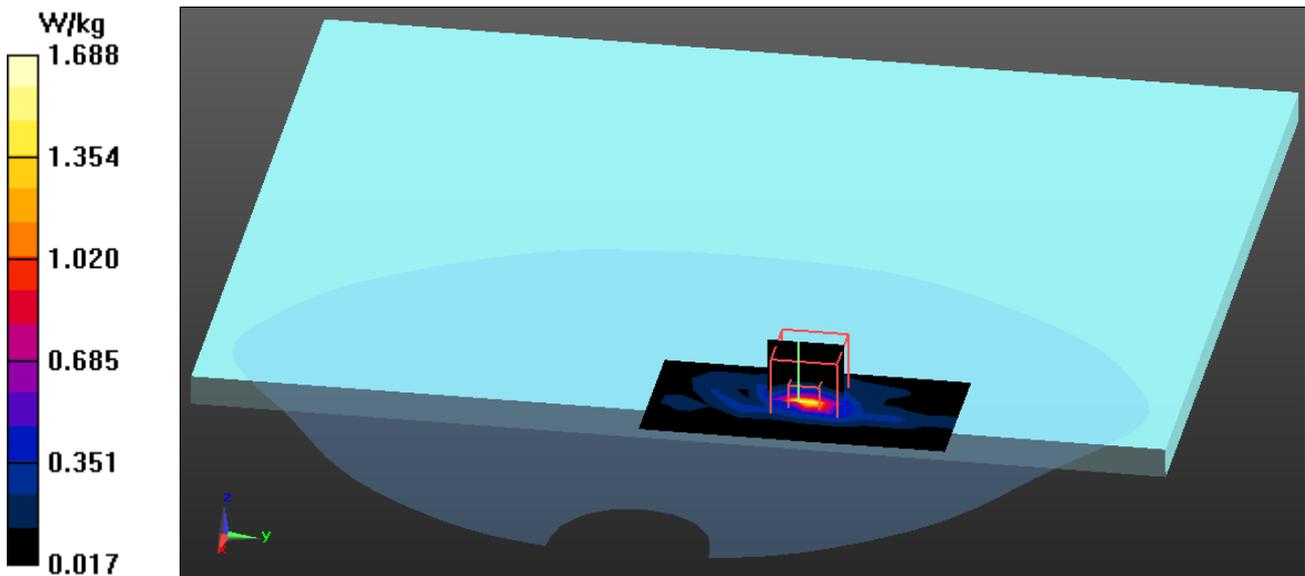
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$

Reference Value = 7.123 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 4.53 W/kg

SAR(1 g) = 0.765 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 1.62 W/kg



Antenna Kit #2 : INPAQ Main & Aux Antenna, P/N: WA-F-LBLB-02-005

Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11n-20M_52-Bottom HT8-Main&Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5260 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5260$ MHz; $\sigma = 5.39$ S/m; $\epsilon_r = 49.24$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x25x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.08 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=2mm

Reference Value = 9.237 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 2.82 W/kg

SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.167 W/kg

Maximum value of SAR (measured) = 1.01 W/kg

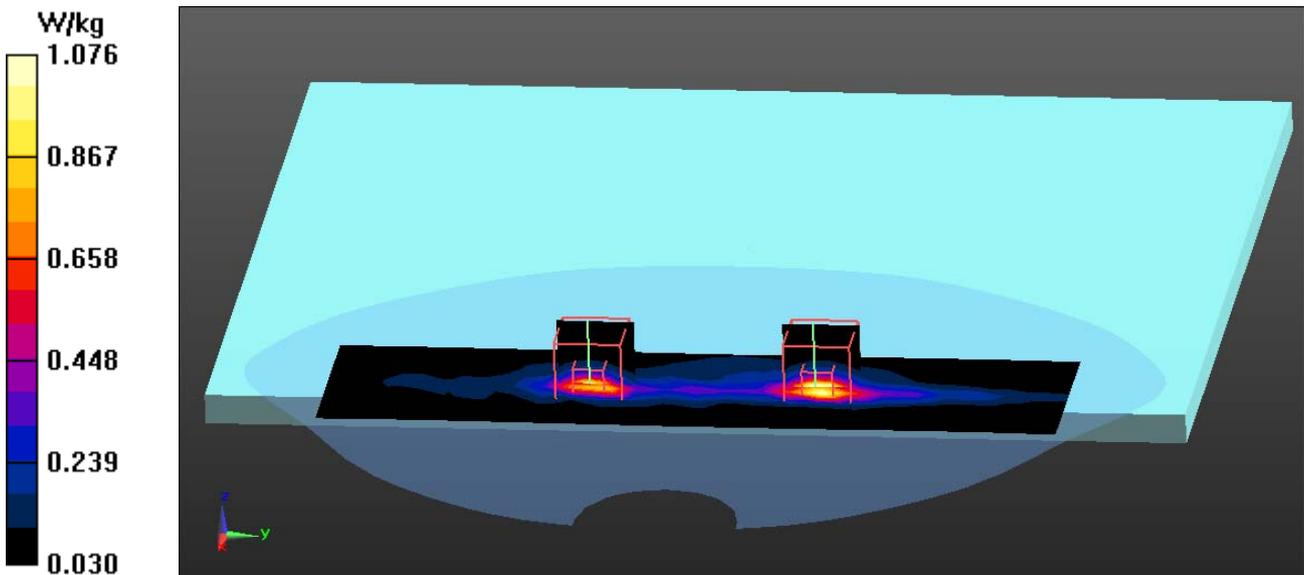
Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 1: Measurement grid:
 dx=5mm, dy=5mm, dz=2mm

Reference Value = 9.237 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 0.632 W/kg; SAR(10 g) = 0.208 W/kg

Maximum value of SAR (measured) = 1.25 W/kg



Antenna Kit #2 : INPAQ Main & Aux Antenna, P/N: WA-F-LBLB-02-005

Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11n-40M_54-Bottom HT8-Main&Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5270 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5270$ MHz; $\sigma = 5.4$ S/m; $\epsilon_r = 49.21$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x25x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.00 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=2mm

Reference Value = 9.429 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.95 W/kg

SAR(1 g) = 0.543 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 1.12 W/kg

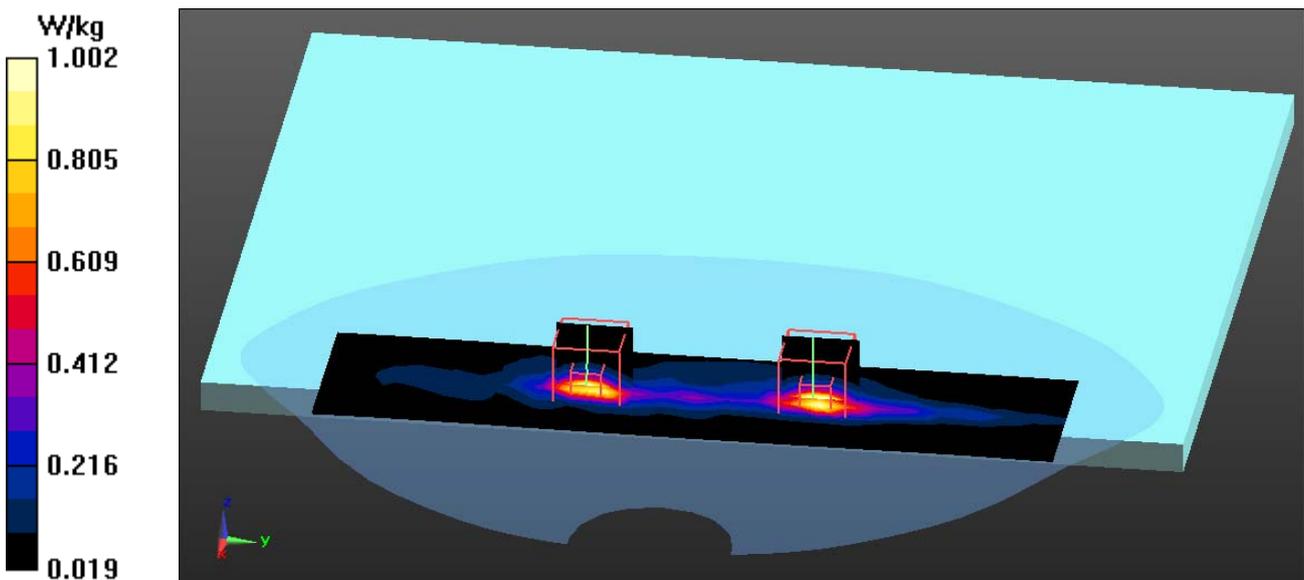
Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 1: Measurement grid:
 dx=5mm, dy=5mm, dz=2mm

Reference Value = 9.429 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 3.15 W/kg

SAR(1 g) = 0.593 W/kg; SAR(10 g) = 0.179 W/kg

Maximum value of SAR (measured) = 1.18 W/kg



Antenna Kit #2 : INPAQ Main & Aux Antenna, P/N: WA-F-LBLB-02-005

Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11ac-80M_58-Bottom HT8-Main&Aux-INPAQ

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5290 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5290$ MHz; $\sigma = 5.44$ S/m; $\epsilon_r = 49.16$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x25x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.06 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 9.150 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 3.10 W/kg

SAR(1 g) = 0.552 W/kg; SAR(10 g) = 0.158 W/kg

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

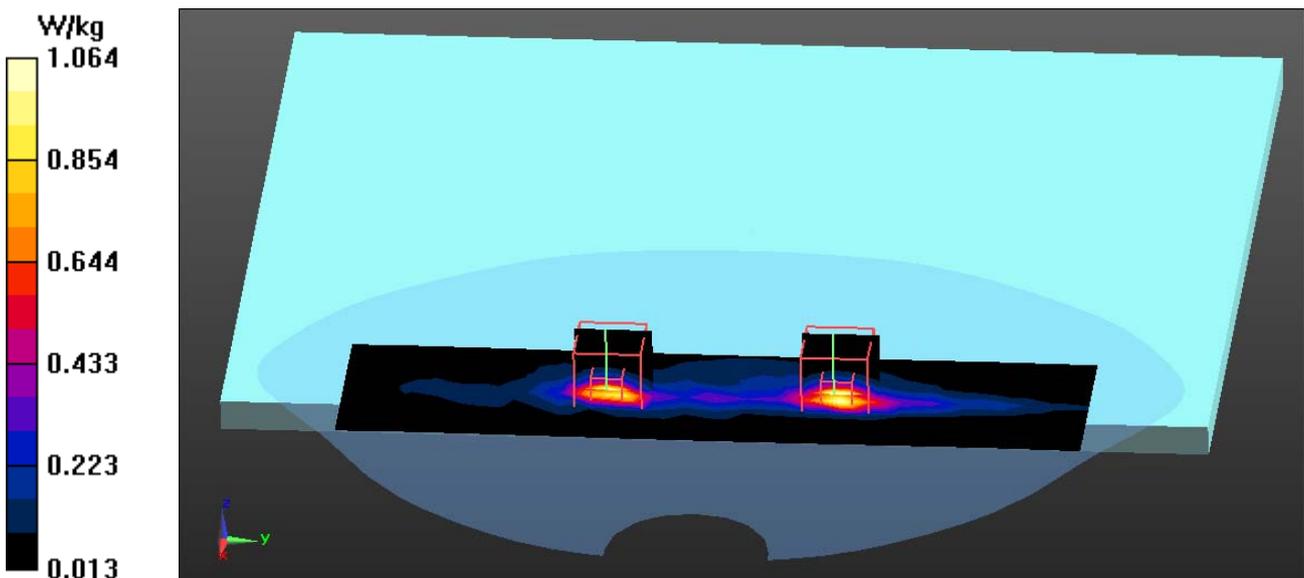
Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 9.150 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 3.13 W/kg

SAR(1 g) = 0.599 W/kg; SAR(10 g) = 0.176 W/kg

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



Antenna Kit #1 : TONGDA Main Antenna, P/N: T-543-3010300-A

Test Laboratory: QuieTek

Date/Time: 2015/2/16

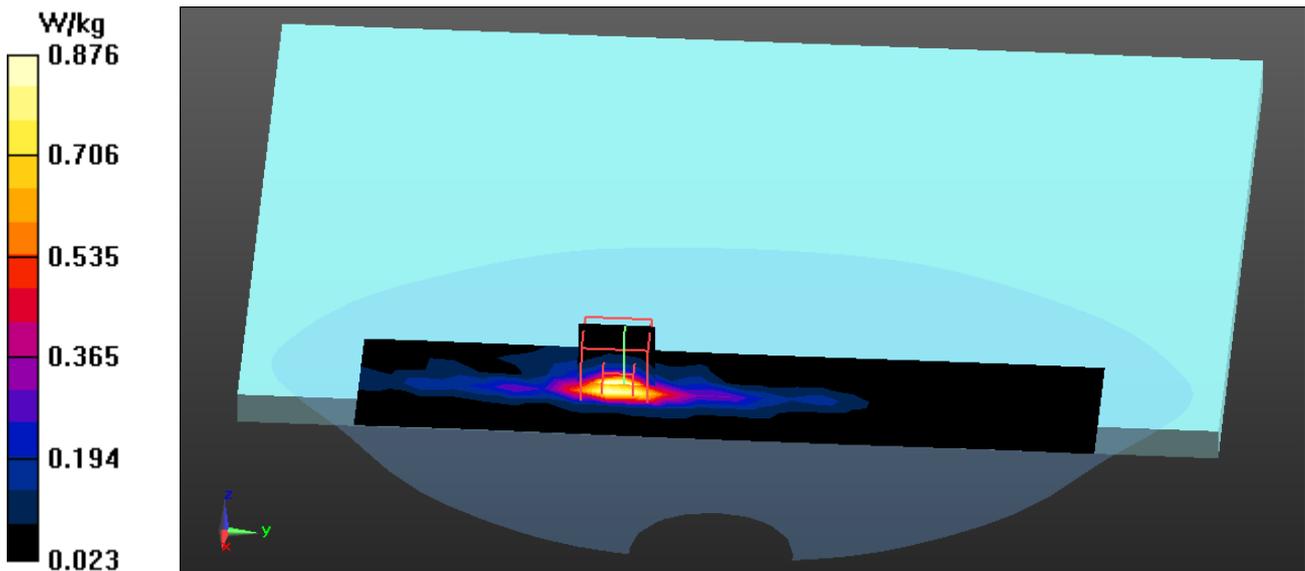
802.11a_36-Bottom 6M-Main-TD
DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5180 MHz;
 Communication System PAR: 0 dB
 Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.26 \text{ S/m}$; $\epsilon_r = 49.45$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
 DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.6, 4.6, 4.6); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x25x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 0.876 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=2mm
 Reference Value = 9.135 V/m; Power Drift = -0.11 dB
 Peak SAR (extrapolated) = 3.55 W/kg
SAR(1 g) = 0.619 W/kg; SAR(10 g) = 0.201 W/kg
 Maximum value of SAR (measured) = 1.22 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

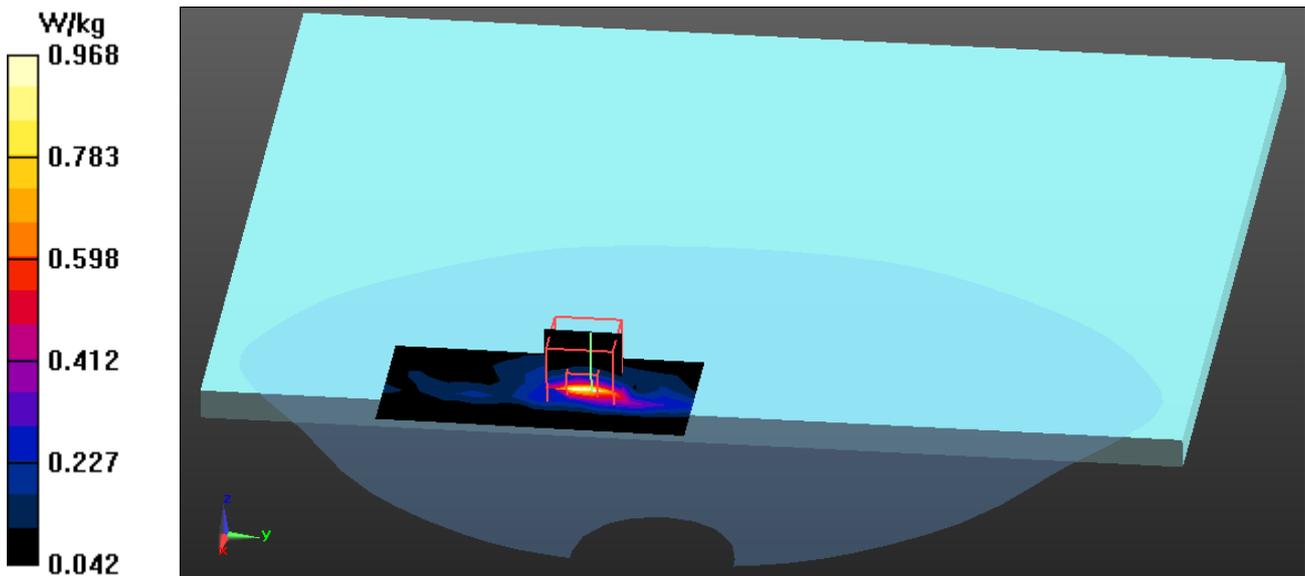
802.11a_60-Bottom 6M-Main-TD
DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5300 MHz;
 Communication System PAR: 0 dB
 Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.45 \text{ S/m}$; $\epsilon_r = 49.14$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)
 DASYS Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 0.968 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$
 Reference Value = 7.668 V/m; Power Drift = -0.03 dB
 Peak SAR (extrapolated) = 3.64 W/kg
SAR(1 g) = 0.617 W/kg; SAR(10 g) = 0.197 W/kg
 Maximum value of SAR (measured) = 1.15 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_100-Bottom 6M-Main-TD

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5500 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.73 \text{ S/m}$; $\epsilon_r = 48.58$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.04, 4.04, 4.04); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.495 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

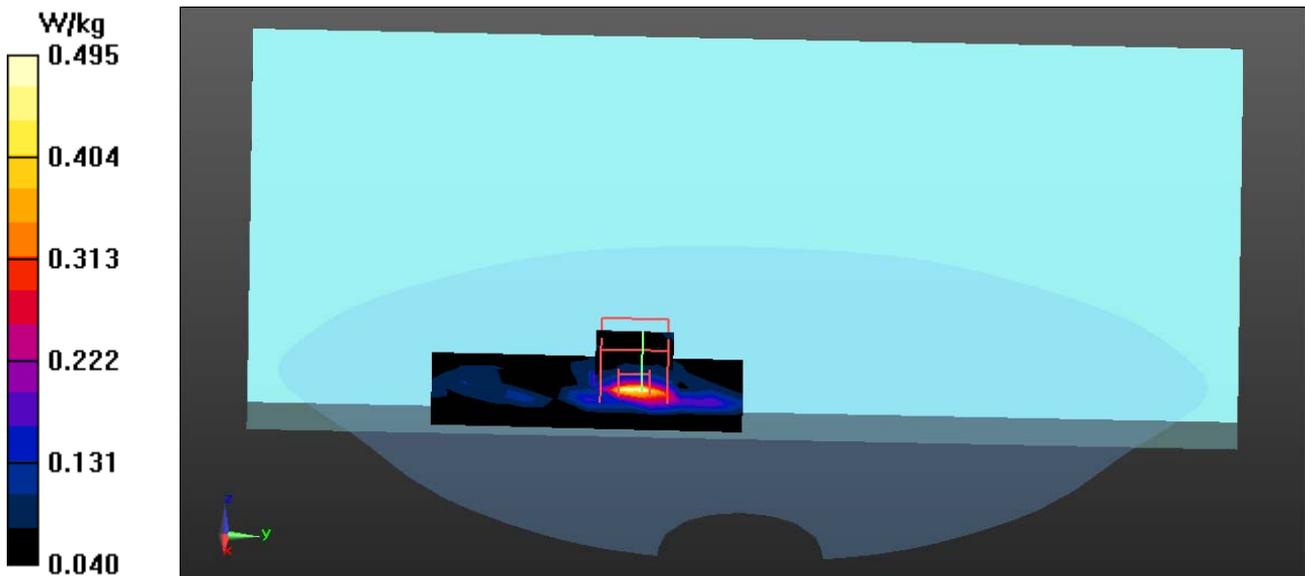
dx=5mm, dy=5mm, dz=2mm

Reference Value = 4.732 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.130 W/kg

Maximum value of SAR (measured) = 0.600 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_149-Bottom 6M-Main-TD

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5745 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.17 \text{ S/m}$; $\epsilon_r = 47.92$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.83 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

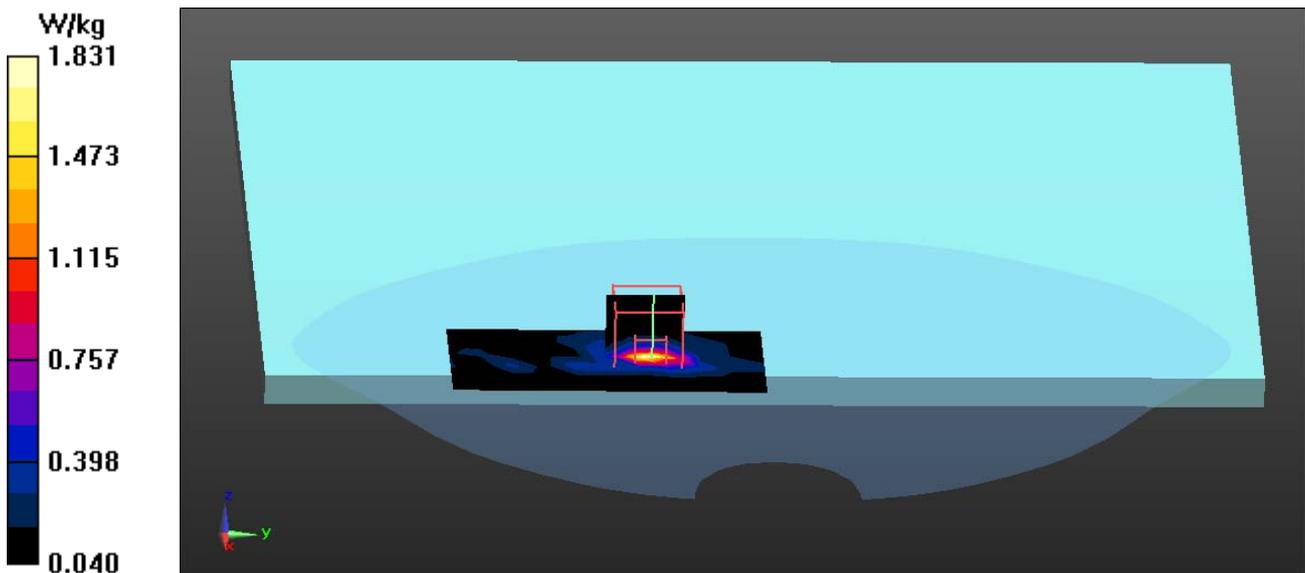
dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.908 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 5.98 W/kg

SAR(1 g) = 0.980 W/kg; SAR(10 g) = 0.286 W/kg

Maximum value of SAR (measured) = 2.19 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_157-Bottom 6M-Main-TD

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5785 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5785$ MHz; $\sigma = 6.23$ S/m; $\epsilon_r = 47.82$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

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

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

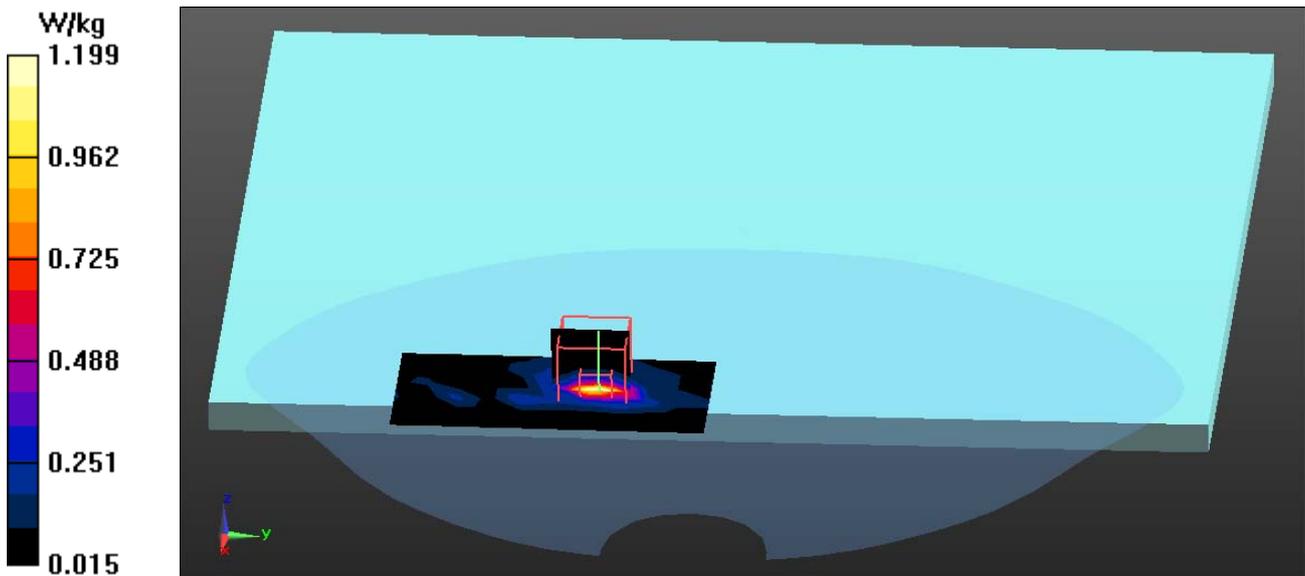
dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.303 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 3.95 W/kg

SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.178 W/kg

Maximum value of SAR (measured) = 1.48 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_165-Bottom 6M-Main-TD

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5825 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.3 \text{ S/m}$; $\epsilon_r = 47.73$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

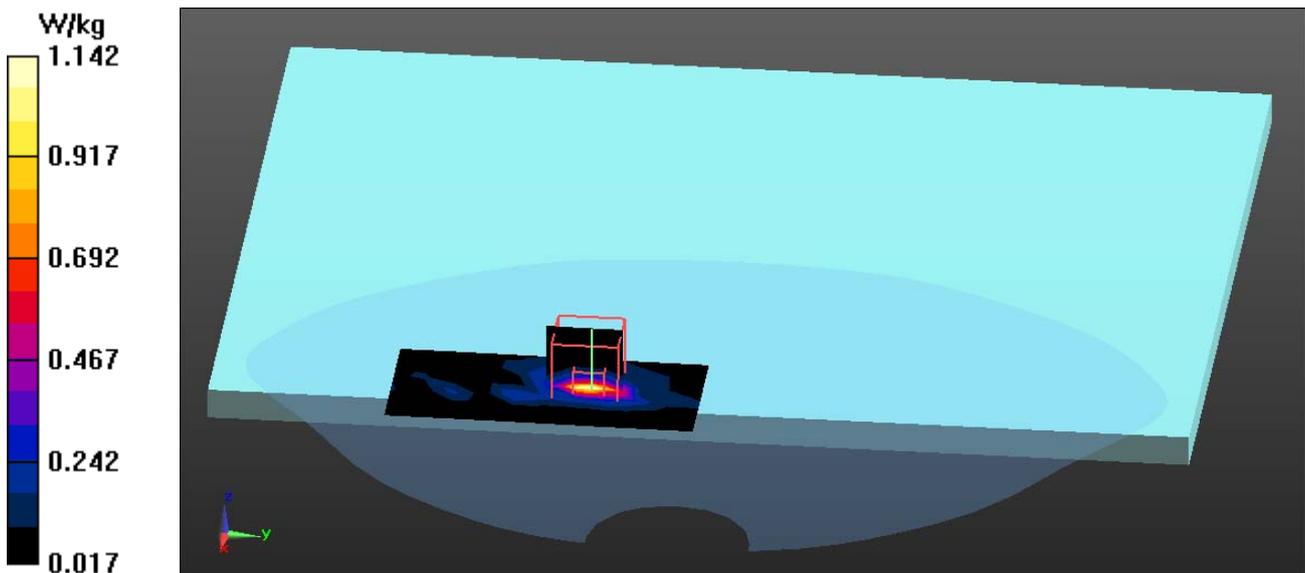
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.14 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=2mm
 Reference Value = 5.199 V/m; Power Drift = -0.12 dB
 Peak SAR (extrapolated) = 3.86 W/kg
SAR(1 g) = 0.624 W/kg; SAR(10 g) = 0.173 W/kg
 Maximum value of SAR (measured) = 1.43 W/kg



Antenna Kit #1 : TONGDA Aux Antenna, P/N: T-543-3010300-A

Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_48-Bottom 6M-Aux-TD

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5240 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 5.36 \text{ S/m}$; $\epsilon_r = 49.29$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

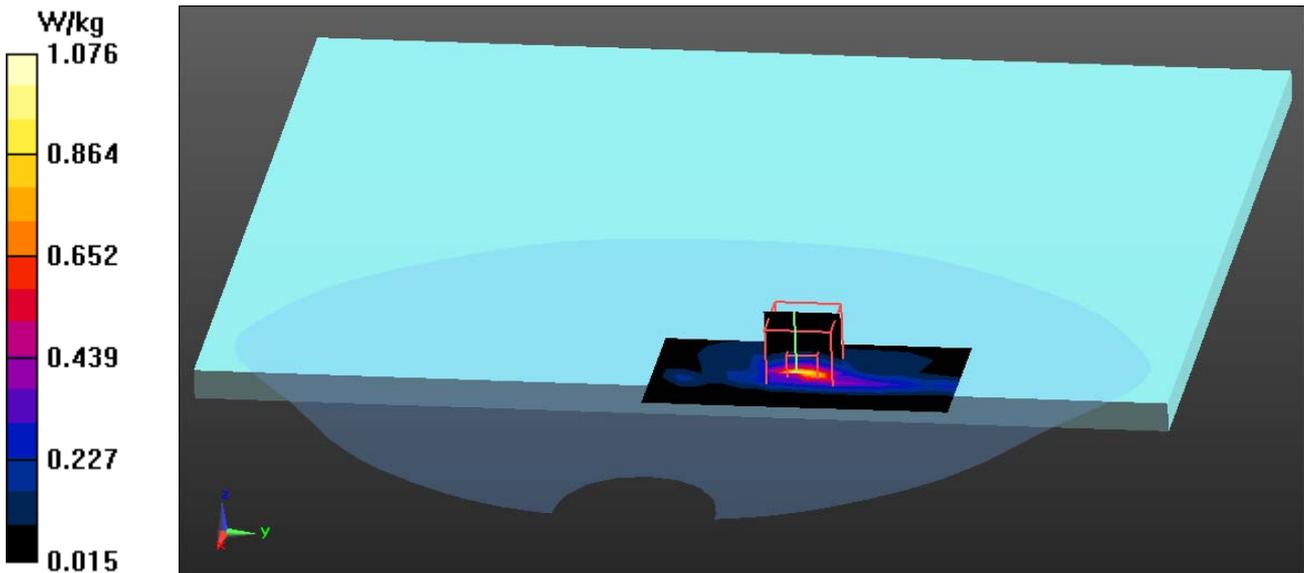
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.6, 4.6, 4.6); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.08 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=2mm
 Reference Value = 7.072 V/m; Power Drift = -0.12 dB
 Peak SAR (extrapolated) = 2.77 W/kg
SAR(1 g) = 0.536 W/kg; SAR(10 g) = 0.161 W/kg
 Maximum value of SAR (measured) = 1.03 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_52-Bottom 6M-Aux-TD

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5260 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.39 \text{ S/m}$; $\epsilon_r = 49.24$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x25x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.12 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

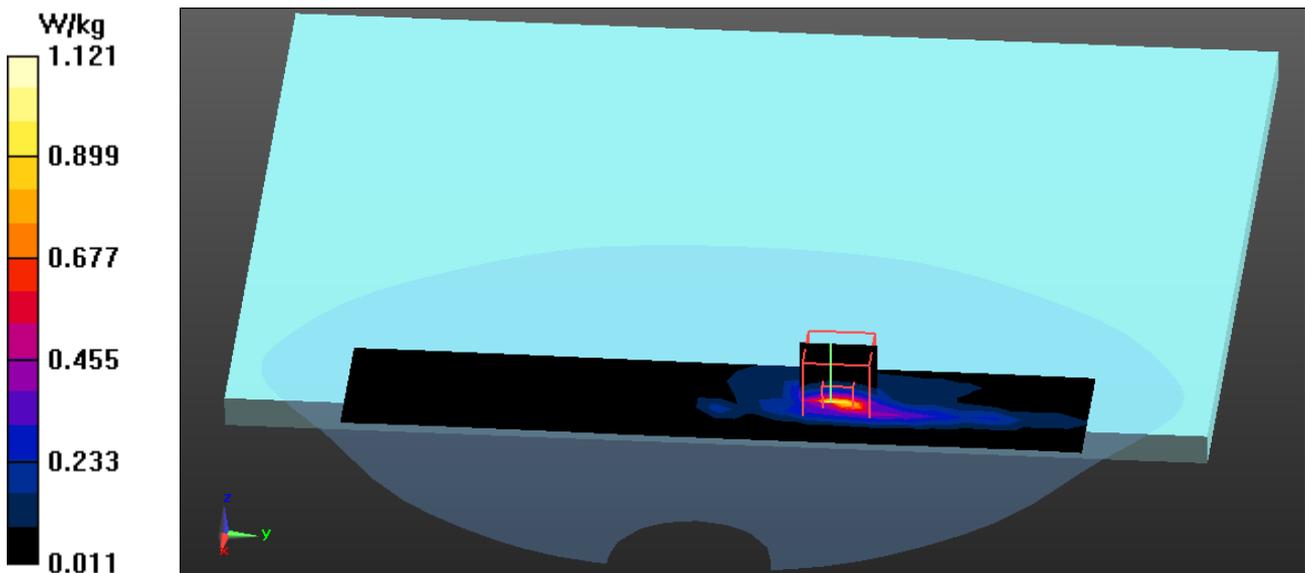
dx=5mm, dy=5mm, dz=2mm

Reference Value = 7.224 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 2.77 W/kg

SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 1.07 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_100-Bottom 6M-Aux-TD

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5500 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.73$ S/m; $\epsilon_r = 48.58$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.6, Liquid Temperature (°C) : 22.1

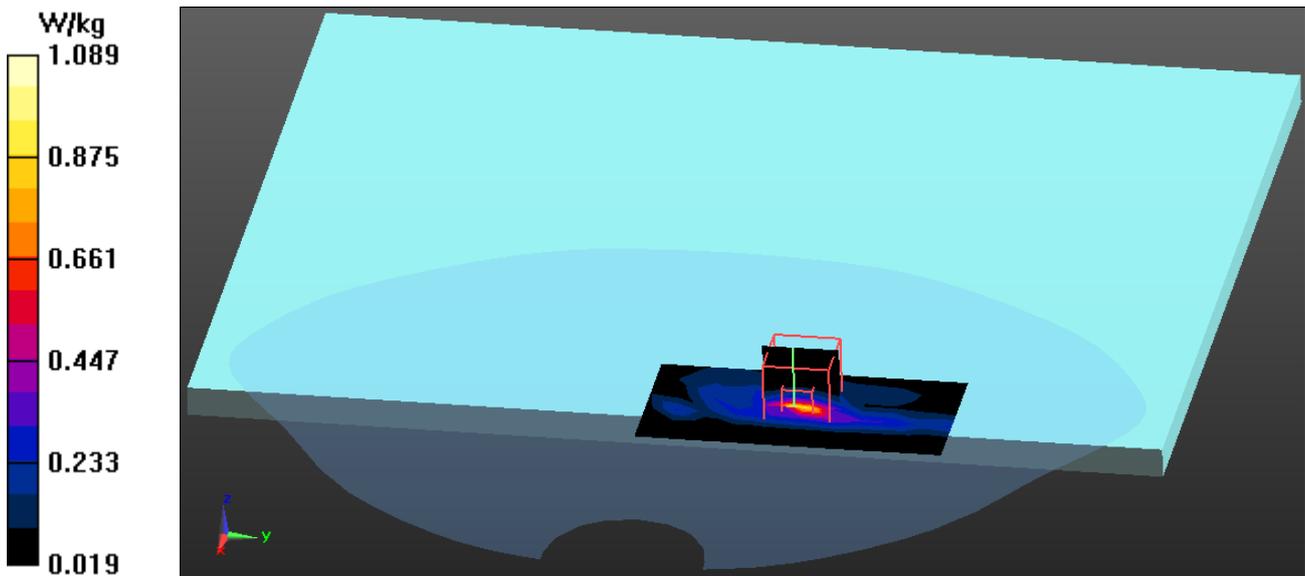
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.04, 4.04, 4.04); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.09 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=2mm
 Reference Value = 7.689 V/m; Power Drift = -0.16 dB
 Peak SAR (extrapolated) = 2.93 W/kg
SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.153 W/kg
 Maximum value of SAR (measured) = 1.01 W/kg



Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_165-Bottom 6M-Aux-TD

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5825 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.3 \text{ S/m}$; $\epsilon_r = 47.73$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.611 W/kg

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

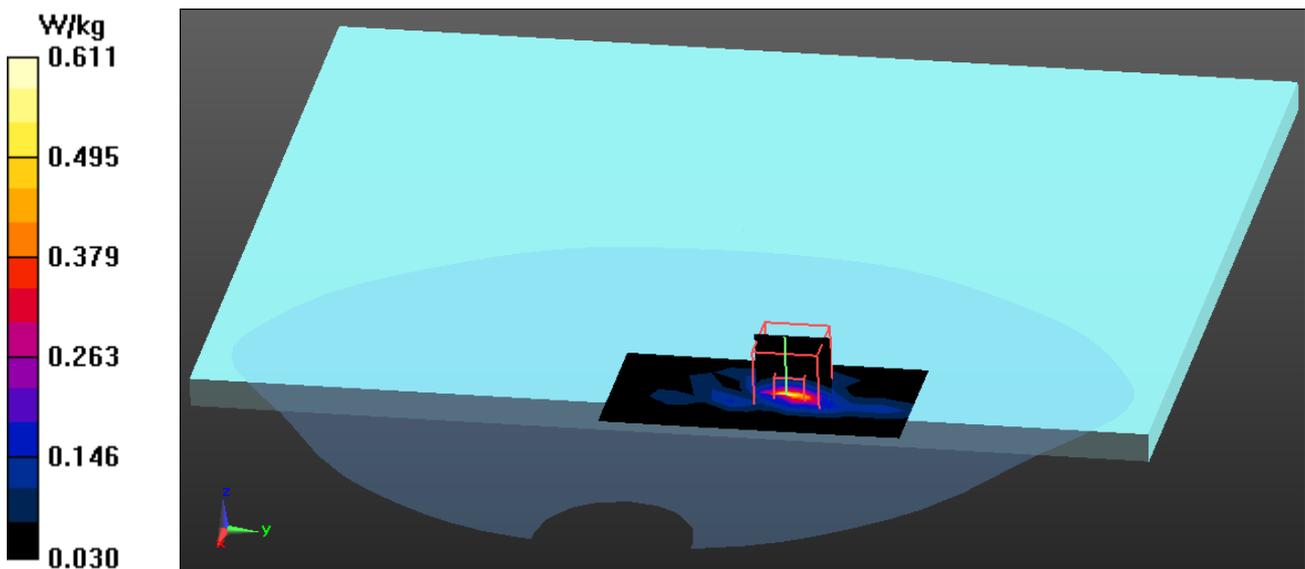
dx=5mm, dy=5mm, dz=2mm

Reference Value = 4.987 V/m; Power Drift = -0.16 dB

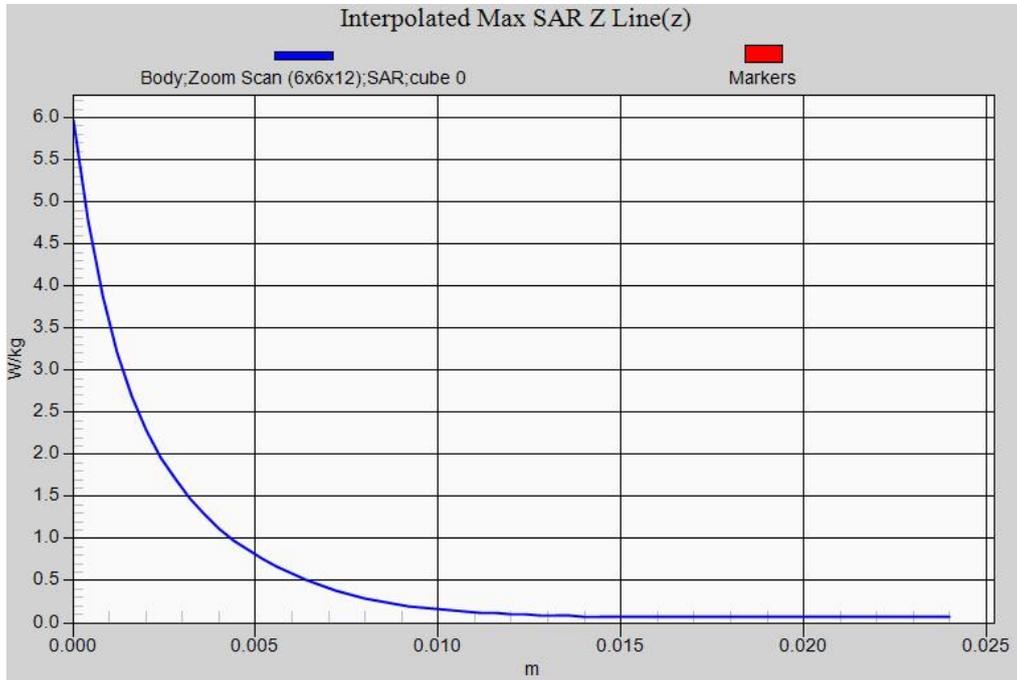
Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.099 W/kg

Maximum value of SAR (measured) = 0.603 W/kg



802.11a TONGDA Main Antenna,EUT Bottom, Z-Axis plot
Channel: 149



Antenna Kit #1 : TONGDA Main Antenna, P/N: T-543-3010300-A

Test Laboratory: QuieTek

Date/Time: 2015/2/16

802.11a_149-Bottom 6M-Main-TD-Verify

DUT: Notebook PC; Type: UX305F

Communication System: UID 0, WLAN 5G; Frequency: 5745 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.17 \text{ S/m}$; $\epsilon_r = 47.92$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.6, Liquid Temperature ($^{\circ}\text{C}$) : 22.1

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.18, 4.18, 4.18); Calibrated: 2014/11/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/11/13
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x25x1): Measurement grid: dx=10mm, dy=10mm

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

Configuration/Body/Zoom Scan (6x6x12) (6x6x12)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.726 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 5.57 W/kg

SAR(1 g) = 0.947 W/kg; SAR(10 g) = 0.273 W/kg

Maximum value of SAR (measured) = 1.96 W/kg

