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## SAR Test Report

Report Number: M070614 \_CERT\_AR5BXB6 \_SAR\_2.4

Test Sample: Portable Tablet Computer  
Radio Modules: WLAN AR5BXB6 & Bluetooth EYTF3CS FT  
Model Number: T2010  
Tested For: Fujitsu Australia Pty Ltd  
FCC ID: EJE-WB0051  
IC: 337J-WB0051  
Date of Issue: 6<sup>th</sup> July 2007

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## SAR TEST REPORT

**Report Number: M070614 \_CERT\_AR5BXB6 \_SAR\_2.4**

**FCC ID: EJE-WB0051**

**IC: 337J-WB0051**

### 1.0 GENERAL INFORMATION

**Test Sample:** Portable TABLET Computer  
**Model Name:** T2010  
**Radio Modules:** WLAN AR5BXB6 & Bluetooth EYTF3CS FT  
**Interface Type:** Mini-PCI Module  
**Device Category:** Portable Transmitter  
**Test Device:** Pre-Production Unit  
**FCC ID:** EJE-WB0051  
**IC:** 337J-WB0051  
**RF exposure Category:** General Population/Uncontrolled

**Manufacturer:** Fujitsu Limited

**Test Standard/s:**

1. Evaluating Compliance with FCC Guidelines For Human Exposure to Radiofrequency Electromagnetic Fields Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01)
2. Evaluation Procedure for Mobile and Portable Radio Transmitters with respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields. RSS-102 Issue 1 (Provisional) September 25, 1999

**Statement Of Compliance:** The Fujitsu TABLET Computer T2010 with Wireless LAN model AR5BXB6 and Bluetooth module EYTF3CS FT complied\* with the FCC General public/uncontrolled RF exposure limits of 1.6mW/g per requirements of 47CFR2.1093(d). It also complied with IC RSS-102 requirements.

\*. Refer to compliance statement section 9.

**Test Date:** 18<sup>th</sup> to 19<sup>th</sup> June 2007

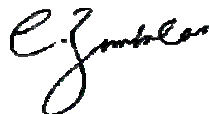
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**Authorised Signature:**



**Chris Zombolas**  
**Technical Director**



**SAR TEST REPORT**  
**Portable Tablet Computer**  
**Model: T2010**  
**Report Number: M070614 \_CERT\_AR5BXB6 \_SAR\_2.4**

## 2.1 INTRODUCTION

The Equipment Under Test (EUT) was the Fujitsu Tablet Personal Computer (PC), model: T2010 with Atheros Mini-PCI Wireless LAN module (Atheros XB62 802.11a/b/g) and model: AR5BXB6 & Taiyo Yuden Bluetooth module, model: EYTF3CS FT. The Atheros XB62 module is an OEM product. The Mini-PCI Wireless LAN (WLAN) was tested in the dedicated host : Lifebook T Series, Model T2010.

The measurement test results mentioned hereon only apply to the 2450MHz frequency band; an additional report titled "M070614 \_CERT\_AR5BXB6 \_SAR\_5.6" applies to the 5GHz range.

## 3.0 EQUIPMENT UNDER TEST (EUT) TEST SAMPLE TECHNICAL INFORMATION

(Information supplied by the client)

### 3.1 WLAN EUT Details

<b>Transmitter:</b>	Mini-Card Wireless LAN Module
<b>Wireless Module:</b>	Atheros XB62 (802.11a/b/g)
<b>Model Number:</b>	AR5BXB6
<b>Manufacturer:</b>	Atheros Corporation
<b>Modulation Type:</b>	Direct Sequence Spread Spectrum (DSSS for 802.11b) Orthogonal Frequency Division Multiplexing (OFDM for 802.11g) Orthogonal Frequency Division Multiplexing (OFDM for 802.11a)
<b>2.4 GHz (802.11b/g):</b>	DBPSK, DQPSK, CCK, 16QAM and 64QAM
<b>5 GHz (802.11a):</b>	BPSK, QPSK, 16QAM and 64QAM
<b>Maximum Data Rate:</b>	802.11b = 11Mbps, 802.11g and 802.11a = 54Mbps
<b>Frequency Ranges:</b>	2.412 –2.462 GHz for 11b/g 5.18 - 5.32 GHz, 5500 – 5700 GHz and 5.745 - 5.825 GHz for 11a
<b>Number of Channels:</b>	11 channels for 11b/g 28 channels for 11a
<b>Antenna Types:</b>	Tx: Yokowo Monopole Antenna - Model: CP335166 Location: Top edge of LCD screen
<b>Power Supply:</b>	3.3 VDC from PCI bus

**Channels and Output power setting:**

Channel and Mode	Frequency MHz	Average Output Power dBm
<b>802.11b/g mode</b>		
Channel 1	2412	17
Channel 6	2437	17
Channel 11	2462	17
<b>802.11a</b>		
Channels 36	5180	16
Channels 48	5240	16
Channels 64	5320	16
Channels 100	5500	16
Channels 120	5600	16
Channels 140	5700	16
Channels 149	5745	16
Channels 157	5785	16
Channels 165	5825	16

NOTE: For 5GHz SAR results refer to report titled "M070614 \_CERT\_ AR5BxB6 \_SAR\_5.6".

**3.2 Bluetooth EUT Details**

<b>Transmitter:</b>	Bluetooth
<b>Model Number:</b>	EYTF3CS FT
<b>Manufacturer:</b>	Taiyo Yuden
<b>Network Standard:</b>	Bluetooth™ RF Test Specification
<b>Modulation Type:</b>	Frequency Hopping Spread Spectrum (FHSS)
<b>Frequency Range:</b>	2402 MHz to 2480 MHz
<b>Number of Channels:</b>	79
<b>Carrier Spacing:</b>	1.0 MHz
<b>Antenna Types:</b>	Monopole Antenna, Model: CP331590
	Location: In the base in the arm rest
<b>Max. Output Power:</b>	4 dBm
<b>Reference Oscillator:</b>	16 MHz (Built-in)
<b>Power Supply:</b>	3.3 VDC from host.

**Frequency allocation:**

Channel Number	Frequency (MHz)	Bluetooth Utility power setting
1	2402	Power (Ext, Int) = 0, 96
2	2403	
-	-	
39	2440	
40	2441	
41	2442	
-	-	
78	2479	
79	2480	

### 3.3 Notebook PC EUT Details

<b>EUT:</b>	LIFEBOOK T SERIES
<b>Model Name:</b>	T2010
<b>Serial Number:</b>	Pre-production Sample
<b>Manufacturer:</b>	Fujitsu Limited
<b>CPU Type and Speed:</b>	Core2 Duo U7600 1.20GHz/U7500 1.06GHz
<b>LCD</b>	12.1" WXGA
<b>Wired LAN:</b>	Marvell 88E8055 : 10 Base-T/100 Base-TX/1000Base-T
<b>Modem:</b>	Agere MDC1.5 modem Model: D40
<b>Port Replicator Model:</b>	FPCPR77 / FPCPR79 / FPCPR80
<b>AC Adapter Model:</b>	60W:SEC80N2-16.0(Sanken)
<b>Voltage:</b>	16V
<b>Current Specs:</b>	3.75A
<b>Watts:</b>	60W

### 3.4 Test sample Accessories

#### 3.4.1 Battery Types

One type of Fujitsu Lithium Ion Battery is used to power the Portable TABLET Computer Wireless LAN Model: AR5BXB6. SAR measurements were performed with the battery as shown below.

##### Standard Battery

Model	CP345809-01
V/mAh	10.8V / 5800mAh
Cell No.	6

#### 4.0 TEST SIGNAL, FREQUENCY AND OUTPUT POWER

ATHEROS's ART test tool was used to configure the WLAN for testing. The Portable Tablet Computer Wireless LAN had a total of 11 channels (USA model) within the 2412 to 2462 MHz frequency band and 28 channels within the frequency range 5180 – 5700 MHz. In The frequency range 2412 MHz to 2462 MHz the device operates in 2 modes, OFDM and DSSS. Within the 5180 – 5825 MHz frequency range the device operates in OFDM mode only. For the SAR measurements the device was operating in continuous transmit mode using programming codes supplied by Fujitsu. The fixed frequency channels used in the testing are shown in the table below.

The Bluetooth module operates over 79 channels within the frequency range 2402 to 2480 MHz. It is possible for the Bluetooth module to operate simultaneously with the WLAN module (co-transmission). For the SAR measurements the device was operating in continuous transmit mode using programming codes supplied by Fujitsu. The tests were conducted with only the WLAN operating and also with the WLAN and Bluetooth module operating in co-transmission. The fixed frequency channels used in the testing are shown in the table below. The Bluetooth interface utilizes dedicated antenna which is labelled antenna "D" for the purposes of this report

The test results in this report only apply to the 2450MHz frequency range. An additional report titled "*M070614 \_CERT\_AR5BXB6 \_SAR\_5.6*" is specific to the 5GHz range.

The WLAN modules can be configured in a number of different data rates. It was found that the highest source based time averaged power was measured when using the lowest data rates available in each mode. This lowest data rate corresponds to 6Mbps in OFDM mode and 1Mbps in DSSS mode.

The frequency span of the 2450 MHz band was more than 10MHz consequently; the SAR levels of the test sample were measured for lowest, centre and highest channels in the applicable modes. There were no wires or other connections to the Tablet PC during the SAR measurements.

At the beginning and at the completion of the SAR tests, the conducted power of the device was measured after temporary modification of antenna connector inside the EUT TX/RX compartment. The results of these measurements are listed in the table below.

**Table: Frequency and Conducted Power Results**

Channel	Channel Frequency MHz	Data Rates	Maximum Conducted Output Power - Peak Measured (dBm)
Channel 01	2412	1 (DSSS)	17.3
Channel 06	2437	1 (DSSS)	17.0
Channel 11	2462	1 (DSSS)	17.6
Channel 01	2412	6	16.2
Channel 06	2437	6	16.4
Channel 11	2462	6	16.7

**Frequency and Conducted Power Results Bluetooth**

Channel	Channel Frequency MHz	*Data Rate (Mbps)	Maximum Conducted Output Power Measured (dBm)
Channel 40	2441	N/A	3.7

#### 4.1 Battery Status

The device battery was fully charged prior to commencement of the measurements. Each SAR test was completed within 30 minutes. The battery condition was monitored by measuring the RF field at a defined position inside the phantom before the commencement of each test and again after the completion of the test. It was not possible to perform conducted power measurements at the output of the device, at the beginning and end of each scan due to lack of a suitable antenna port. The uncertainty associated with the power drift was less than 12% and was included in the uncertainty budget.

### 5.0 DETAILS OF TEST LABORATORY

#### 5.1 Location

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Australia 3042

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**website:** [www.emctech.com.au](http://www.emctech.com.au)

#### 5.2 Accreditations

EMC Technologies Pty. Ltd. is accredited by the National Association of Testing Authorities, Australia (NATA).  
**NATA Accredited Laboratory Number: 5292**

EMC Technologies Pty Ltd is NATA accredited for the following standards:

<b>AS/NZS 2772.2:</b>	RF and microwave radiation hazard measurement
<b>ARPANSA</b>	Maximum Exposure Levels to Radiofrequency Fields – 3kHz to 300GHz,
<b>ACMA:</b>	Radio communications (Electromagnetic Radiation - Human Exposure) Standard 2003
<b>FCC:</b>	Guidelines for Human Exposure to RF Electromagnetic Field OET65C 01/01
<b>CENELEC:</b>	ES59005: 1998
<b>EN 50360: 2001</b>	Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz – 3 GHz)
<b>EN 50361: 2001</b>	Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300MHz – 3GHz)
<b>IEEE 1528: 2003</b>	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head Due to Wireless Communications Devices: Measurement Techniques.

Refer to NATA website [www.nata.asn.au](http://www.nata.asn.au) for the full scope of accreditation.





### 5.3 Environmental Factors

The measurements were performed in a shielded room with no background RF signals. The temperature in the laboratory was controlled to within  $21 \pm 1^\circ\text{C}$ , the humidity was in the range 36% to 43%. The liquid parameters are measured daily prior to the commencement of each test. Tests were performed to check that reflections within the environment did not influence the SAR measurements. The noise floor of the DASY4 SAR measurement system using the SN1380 probe was less than  $5\mu\text{V}$  in both air and liquid mediums.

## 6.0 DESCRIPTION OF SAR MEASUREMENT SYSTEM

Applicable Head Configurations	: None
Applicable Body Configurations	: Tablet Position
	: Edge On Position

### 6.1 Probe Positioning System

The measurements were performed with the state-of-the-art automated near-field scanning system **DASY4 V4.7 Build 53** from Schmid & Partner Engineering AG (SPEAG). The system is based on a high precision 6-axis robot (working range greater than 1.1m), which positions the SAR measurement probes with a positional repeatability of better than  $\pm 0.02\text{ mm}$ . The DASY4 fully complies with the OET65 C (01-01), IEEE 1528 and EN50361 SAR measurement requirements.

### 6.2 E-Field Probe Type and Performance

The SAR measurements were conducted with SPEAG dosimetric probe ET3DV6 Serial: 1380 (2.45 GHz) designed in the classical triangular configuration and optimised for dosimetric evaluation. The probes have been calibrated and found to be accurate to better than  $\pm 0.25\text{ dB}$ . The probe is suitable for measurements close to material discontinuity at the surface of the phantom. The sensors of the probe are directly loaded with Schottky diodes and connected via highly resistive lines (length = 300 mm) to the data acquisition unit.

### 6.3 Data Acquisition Electronics

The data acquisition electronics (DAE3) 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. The input impedance of the DAE3 box is  $200\text{ M}\Omega$ ; the inputs are symmetrical and floating. Common mode rejection is above 80dB. Transmission to the PC-card is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The mechanical probe-mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

## 6.4 Validation

### 6.4.1 Validation Results @ 2450MHz

The following tables lists the dielectric properties of the tissue simulating liquid measured prior to SAR validation. The results of the validation are listed in columns 4 and 5. The forward power into the reference dipole for SAR validation was adjusted to 250 mW.

**Table: Validation Results (Dipole: SPEAG D2450V2 SN: 724)**

1. Validation Date	2. $\epsilon_r$ (measured)	3. $\sigma$ (mho/m) (measured)	4. Measured SAR 1g (mW/g)	5. Measured SAR 10g (mW/g)
18 <sup>th</sup> June 2007	40.1	1.79	14.2	6.60
19 <sup>th</sup> June 2007	40.2	1.80	13.7	6.39

### 6.4.2 Deviation from reference validation values

The reference SAR values are derived using a reference dipole and flat section of the SAM phantom suitable for a centre frequency of 2450MHz. These reference SAR values are obtained from the IEEE Std 1528-2003 and are normalized to 1W.

The SPEAG calibration reference SAR value is the SAR validation result obtained in a specific dielectric liquid using the validation dipole (D2450V2) during calibration. The measured one-gram SAR should be within 10% of the expected target reference values shown in table below (2450MHz) below.

**Table: Deviation from reference validation values @ 2450MHz**

Date	Measured SAR 1g (mW/g)	Measured SAR 1g (Normalized to 1W)	SPEAG Calibration reference SAR Value 1g (mW/g)	% Deviation From SPEAG Reference (1g)	IEEE Std 1528 reference SAR value 1g (mW/g)	% Deviation From IEEE (1g)
18 <sup>th</sup> June 2007	14.2	56.8	54.0	5.19	52.4	8.40
19 <sup>th</sup> June 2007	13.7	54.8	54.0	1.48	52.4	4.58

NOTE: All reference validation values are referenced to 1W input power.

### 6.4.3 Liquid Depth 15cm

During the SAR measurement process the liquid level was maintained to a level of 15cm with a tolerance of 0.5cm.

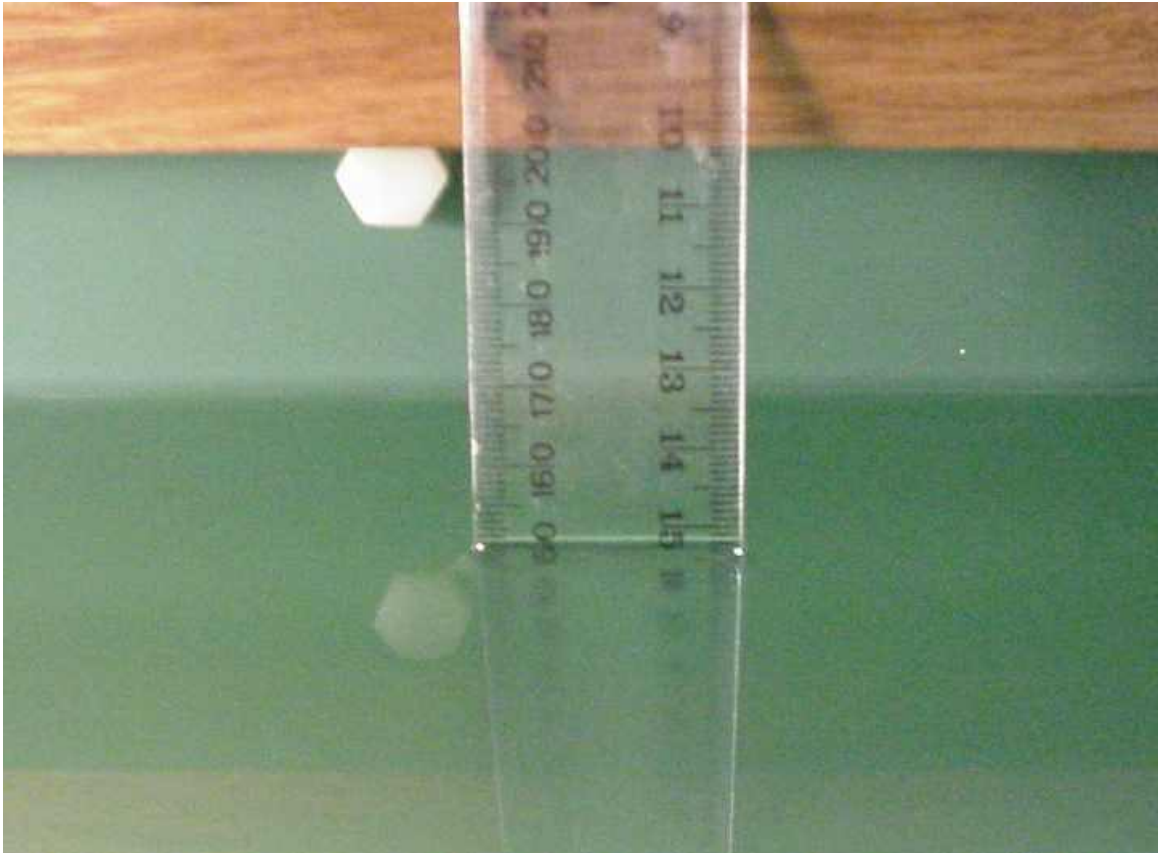


Photo of liquid Depth in Flat Phantom

### 6.5 Phantom Properties (Size, Shape, Shell Thickness)

The phantom used during the validations was the SAM Phantom model: TP - 1260 from SPEAG. It is a phantom with a single thickness of 2 mm and was filled with the required tissue simulating liquid. The SAM phantom support structures were all non-metallic and spaced more than one device width away in transverse directions.

For SAR testing in the body worn positions an AndreT Flat phantom P 10.1 was used. The phantom thickness is 2.0mm+/-0.2 mm and was filled with the required tissue simulating liquid. Below table provides a summary of the measured phantom properties. *Refer to Appendix C Part 4, for details of P 10.1 phantom dielectric properties and loss tangent.*

**Table: Phantom Properties (300MHz-2500MHz)**

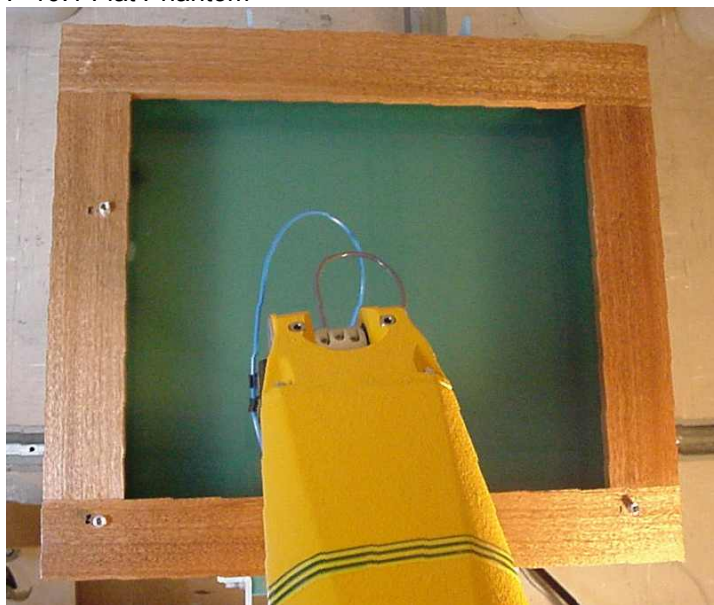
Phantom Properties	Required	Measured
Thickness of flat section	2.0mm ± 0.2mm (bottom section)	2.12-2.20mm
Dielectric Constant	<5.0	4.603 @ 300MHz (worst-case frequency)
Loss Tangent	<0.05	0.0379 @ 2500MHz (worst-case frequency)

Depth of Phantom	200mm
Length of Flat Section	620mm
Width of Flat Section	540mm

P 10.1 Flat Phantom



P 10.1 Flat Phantom



## 6.6 Tissue Material Properties

The dielectric parameters of the brain simulating liquid were measured prior to SAR assessment using the HP85070A dielectric probe kit and HP8753ES Network Analyser. The actual dielectric parameters are shown in the following table.

**Table: Measured Brain Simulating Liquid Dielectric Values for Validations**

Frequency Band	$\epsilon_r$ (measured range)	$\epsilon_r$ (target)	$\sigma$ (mho/m) (measured range)	$\sigma$ (target)	$\rho$ kg/m <sup>3</sup>
2450 MHz Brain	40.1 to 40.2	39.2 $\pm$ 5% (37.2 to 41.2)	1.79 to 1.80	1.80 $\pm$ 5% (1.71 to 1.89)	1000

NOTE: The brain liquid parameters were within the required tolerances of  $\pm$ 5%.

**Table: Measured Body Simulating Liquid Dielectric Values**

Frequency Band	$\epsilon_r$ (measured range)	$\epsilon_r$ (target)	$\sigma$ (mho/m) (measured range)	$\sigma$ (target)	$\rho$ kg/m <sup>3</sup>
2412 MHz Muscle	52.1	52.7 $\pm$ 5% (50.1 to 55.3)	1.91	1.95 $\pm$ 5% (1.85 to 2.05)	1000
2437 MHz Muscle	51.9 to 52.9	52.7 $\pm$ 5% (50.1 to 55.3)	1.92 to 1.94	1.95 $\pm$ 5% (1.85 to 2.05)	1000
2462 MHz Muscle	51.8	52.7 $\pm$ 5% (50.1 to 55.3)	1.98	1.95 $\pm$ 5% (1.85 to 2.05)	1000

NOTE: The brain and muscle liquid parameters were within the required tolerances of  $\pm$ 5%.

### 6.6.1 Liquid Temperature and Humidity

The humidity and dielectric/ambient temperatures were recorded during the assessment of the tissue material dielectric parameters. The difference between the ambient temperature of the liquid during the dielectric measurement and the temperature during tests was less than  $|2|^\circ\text{C}$ .

**Table: Temperature and Humidity recorded for each day**

Date	Ambient Temperature ( $^\circ\text{C}$ )	Liquid Temperature ( $^\circ\text{C}$ )	Humidity (%)
18 <sup>th</sup> June 2007	21.6	21.0	43
19 <sup>th</sup> June 2007	21.8	21.2	36

## 6.7 Simulated Tissue Composition Used for SAR Test

The tissue simulating liquids are created prior to the SAR evaluation and often require slight modification each day to obtain the correct dielectric parameters.

**Table: Tissue Type: Brain @ 2450MHz**

Volume of Liquid: 30 Litres

Approximate Composition	% By Weight
Distilled Water	62.7
Salt	0.5
Triton X-100	36.8

**Table: Tissue Type: Muscle @ 2450MHz**

Volume of Liquid: 60 Litres

Approximate Composition	% By Weight
Distilled Water	73.2
Salt	0.04
DGBE	26.7

\*Refer "OET Bulletin 65 97/01 P38"

## 6.8 Device Holder for Laptops and P 10.1 Phantom

A low loss clamp was used to position the Tablet PC underneath the phantom surface. Small pieces of foam were then used to press the Tablet PC flush against the phantom surface.

*Refer to Appendix A for photographs of device positioning*

## 7.0 SAR MEASUREMENT PROCEDURE USING DASY4

The SAR evaluation was performed with the SPEAG DASY4 system. A summary of the procedure follows:

- a) A measurement of the SAR value at a fixed location is used as a reference value for assessing the power drop of the EUT. The SAR at this point is measured at the start of the test, and then again at the end of the test.
- b) The SAR distribution at the exposed flat section of the flat phantom is measured at a distance of 3.9 mm from the inner surface of the shell. The area covers the entire dimension of the EUT and the horizontal grid spacing is 15 mm x 15 mm. The actual Area Scan has dimensions of 101mm x 81mm surrounding the test device. Based on this data, the area of the maximum absorption is determined by Spline interpolation. The first “pre-scans” covered an area of 141 mm x 171 mm to ensure that the hotspot was correctly identified.
- c) Around this point, a volume of 30 mm x 30 mm x 30 mm is assessed by measuring 7 x 7 x 7 points. On the basis of this data set, the spatial peak SAR value is evaluated with the following procedure:
  - (i) The data at the surface are extrapolated, since the centre of the dipoles is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation is based on a least square algorithm. A polynomial of the fourth order is calculated through the points in z-axes. This polynomial is then used to evaluate the points between the surface and the probe tip.
  - (ii) The maximum interpolated value is searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g and 10 g) are computed using the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one-dimensional splines with the “Not a knot”- condition (in x, y and z-direction). The volume is integrated with the trapezoidal – algorithm. One thousand points (10 x 10 x 10) are interpolated to calculate the averages.
  - (iii) All neighbouring volumes are evaluated until no neighbouring volume with a higher average value is found.
  - (iv) The SAR value at the same location as in Step (a) is again measured to evaluate the actual power drift.



## 8.0 MEASUREMENT UNCERTAINTY

The uncertainty analysis is based on the template listed in the IEEE Std 1528-2003 for both Handset SAR tests and Validation uncertainty. The measurement uncertainty of a specific device is evaluated independently and the total uncertainty for both evaluations (95% confidence level) must be less than 30%.

**Table: Uncertainty Budget for DASY4 V4.7 Build 53 – EUT SAR test 2450MHz**

a	b	c	d	e= f(d,k)	f	g	h=cxf/e	i=cxg/e	k
Uncertainty Component	Sec.	Tol. (%)	Prob. Dist.	Div.	C <sub>i</sub> (1g)	C <sub>i</sub> (10g)	1g u <sub>i</sub> (%)	10g u <sub>i</sub> (%)	v <sub>i</sub>
<b>Measurement System</b>									
Probe Calibration (k=1) (numerical calibration)	7.2.1	4.8	N	1	1	1	4.8	4.8	∞
Axial Isotropy	7.2.1	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
Hemispherical Isotropy	7.2.1	9.6	R	1.73	0.707	0.707	3.9	3.9	∞
Boundary Effect	7.2.1	1	R	1.73	1	1	0.6	0.6	∞
Linearity	7.2.1	4.7	R	1.73	1	1	2.7	2.7	∞
System Detection Limits	7.2.1	1	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	7.2.1	1	N	1	1	1	1.0	1.0	∞
Response Time	7.2.1	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	7.2.1	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions	7.2.3	0.05	R	1.73	1	1	0.0	0.0	∞
Probe Positioner Mechanical Tolerance	7.2.2	0.4	R	1.73	1	1	0.2	0.2	∞
Probe Positioning with respect to Phantom Shell	7.2.2	2.9	R	1.73	1	1	1.7	1.7	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	7.2.4	1	R	1.73	1	1	0.6	0.6	∞
<b>Test Sample Related</b>									
Test Sample Positioning	7.2.2	1.61	N	1	1	1	1.6	1.6	11
Device Holder Uncertainty	E.4.1	3.34	N	1	1	1	3.3	3.3	7
Output Power Variation – SAR Drift Measurement	7.2.3	9.65	R	1.73	1	1	5.6	5.6	∞
<b>Phantom and Tissue Parameters</b>									
Phantom Uncertainty (shape and thickness tolerances)	7.2.2	4	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity – Deviation from target values	7.2.3	5	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Conductivity – Measurement uncertainty	7.2.3	4.3	N	1	0.64	0.43	2.8	1.8	5
Liquid Permittivity – Deviation from target values	7.2.3	5	R	1.73	0.6	0.49	1.7	1.4	∞
Liquid Permittivity – Measurement uncertainty	7.2.3	4.3	N	1	0.6	0.49	2.6	2.1	5
Combined standard Uncertainty			RSS				<b>11.3</b>	<b>10.9</b>	154
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				<b>22.6</b>	<b>21.75</b>	

Estimated total measurement uncertainty for the DASY4 measurement system was  $\pm 11.3\%$ . The extended uncertainty ( $K = 2$ ) was assessed to be  $\pm 22.6\%$  based on 95% confidence level. The uncertainty is not added to the measurement result.

**Table: Uncertainty Budget for DASY4 V4.7 Build 53 – Validation 2450MHz**

a	b	c	D	e= f(d,k)	f	g	h=cxf/e	i=cxg/e	k
Uncertainty Component	Sec.	Tol. (6%)	Prob. Dist.	Div.	C <sub>i</sub> (1g)	C <sub>i</sub> (10g)	1g u <sub>i</sub> (6%)	10g u <sub>i</sub> (6%)	v <sub>i</sub>
<b>Measurement System</b>									
Probe Calibration (k=1) (standard calibration)	E.2.1	4.8	N	1	1	1	4.8	4.8	∞
Axial Isotropy	E.2.2	4.7	R	1.73	1	1	2.7	2.7	∞
Hemispherical Isotropy	E.2.2	0	R	1.73	1	1	0.0	0.0	∞
Boundary Effect	E.2.3	1	R	1.73	1	1	0.6	0.6	∞
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	∞
System Detection Limits	E.2.5	1	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	E.2.6	1	N	1	1	1	1.0	1.0	∞
Response Time	E.2.7	0	R	1.73	1	1	0.0	0.0	∞
Integration Time	E.2.8	0	R	1.73	1	1	0.0	0.0	∞
RF Ambient Conditions	E.6.1	0.05	R	1.73	1	1	0.0	0.0	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.4	R	1.73	1	1	0.2	0.2	∞
Probe Positioning with respect to Phantom Shell	E.6.3	2.9	R	1.73	1	1	1.7	1.7	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E.5	1	R	1.73	1	1	0.6	0.6	∞
<b>Test Sample Related</b>				□					
Dipole Axis to Liquid Surface		2	R	1.73	1	1	1.2	1.2	∞
Power Drift		4.7	R	1.73	1	1	2.7	2.7	∞
				□					□
<b>Phantom and Tissue Parameters</b>									
Phantom Uncertainty (shape and thickness tolerances)	E.3.1	4	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity – Deviation from target values	E.3.2	5	R	1.73	0.6	0.43	1.7	1.2	∞
Liquid Conductivity – Measurement uncertainty	E.3.3	2.5	N	1.73	0.6	0.43	0.9	0.6	5
Liquid Permittivity – Deviation from target values	E.3.2	5	R	1.73	0.6	0.49	1.7	1.4	∞
Liquid Permittivity – Measurement uncertainty	E.3.3	2.5	N	1.73	0.6	0.49	0.9	0.7	5
Combined standard Uncertainty			RSS				8.0	7.8	154
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				16.0	15.63	

Estimated total measurement uncertainty for the DASY4 measurement system was  $\pm 8.0\%$ . The extended uncertainty ( $K = 2$ ) was assessed to be  $\pm 16.0\%$  based on 95% confidence level. The uncertainty is not added to the Validation measurement result.



## 9.0 EQUIPMENT LIST AND CALIBRATION DETAILS

**Table: SPEAG DASY4 Version V4.7 Build 53**

Equipment Type	Manufacturer	Model Number	Serial Number	Calibration Due	Used For this Test?
Robot - Six Axes	Staubli	RX90BL	N/A	Not applicable	Yes
Robot Remote Control	SPEAG	CS7MB	RX90B	Not applicable	Yes
SAM Phantom	SPEAG	N/A	1260	Not applicable	Yes
SAM Phantom	SPEAG	N/A	1060	Not applicable	No
Flat Phantom	AndreT	10.1	P 10.1	Not Applicable	Yes
Flat Phantom	AndreT	9.1	P 9.1	Not Applicable	No
Flat Phantom	SPEAG	PO1A 6mm	1003	Not Applicable	No
Data Acquisition Electronics	SPEAG	DAE3 V1	359	12-July-2007	No
Data Acquisition Electronics	SPEAG	DAE3 V1	442	13-Oct-2007	Yes
Probe E-Field - Dummy	SPEAG	DP1	N/A	Not applicable	No
Probe E-Field	SPEAG	ET3DV6	1380	12-Dec-2007	Yes
Probe E-Field	SPEAG	ET3DV6	1377	14-July-2007	No
Probe E-Field	SPEAG	ES3DV6	3029	Not Used	No
Probe E-Field	SPEAG	EX3DV4	3563	14-July-2007	No
Antenna Dipole 300 MHz	SPEAG	D300V2	1005	26-Oct-2007	No
Antenna Dipole 450 MHz	SPEAG	D450V2	1009	14-Dec-2008	No
Antenna Dipole 900 MHz	SPEAG	D900V2	047	6-July-2008	No
Antenna Dipole 1640 MHz	SPEAG	D1640V2	314	30-June-2008	No
Antenna Dipole 1800 MHz	SPEAG	D1800V2	242	3-July-2008	No
Antenna Dipole 1950 MHz	SPEAG	D1950V3	1113	5-March-2007	No
Antenna Dipole 3500 MHz	SPEAG	D3500V2	1002	1-July-2007	No
Antenna Dipole 2450 MHz	SPEAG	D2450V2	724	13-Dec-2008	Yes
Antenna Dipole 5600 MHz	SPEAG	D5GHzV2	1008	27-Oct-2007	No
RF Amplifier	EIN	603L	N/A	*In test	No
RF Amplifier	Mini-Circuits	ZHL-42	N/A	*In test	No
RF Amplifier	Mini-Circuits	ZVE-8G	N/A	*In test	Yes
Synthesized signal generator	Hewlett Packard	ESG-D3000A	GB37420238	*In test	No
RF Power Meter Dual	Hewlett Packard	437B	3125012786	30-May-008	Yes
RF Power Sensor 0.01 - 18 GHz	Hewlett Packard	8481H	1545A01634	30-May-008	Yes
RF Power Meter Dual	Gigatronics	8542B	1830125	11-May-2008	Yes
RF Power Sensor	Gigatronics	80301A	1828805	11-May-008	Yes
RF Power Meter Dual	Hewlett Packard	435A	1733A05847	*In test	Yes
RF Power Sensor	Hewlett Packard	8482A	2349A10114	*In test	Yes
Network Analyser	Hewlett Packard	8714B	GB3510035	31-Aug-2007	No
Network Analyser	Hewlett Packard	8753ES	JP39240130	30-Sept-2007	Yes
Dual Directional Coupler	Hewlett Packard	778D	1144 04700	*In test	No
Dual Directional Coupler	NARDA	3022	75453	*In test	Yes

\* Calibrated during the test for the relevant parameters.



## 10.0 OET BULLETIN 65 – SUPPLEMENT C TEST METHOD

Notebooks should be evaluated in normal use positions, typical for lap-held bottom-face only. However the number of positions will depend on the number of configurations the laptop can be operated in. The “Lifebook T Series” can be used in either a conventional laptop position (see Appendix A1) or a Tablet configuration. The antenna location is closest to the top of the screen when used in a conventional laptop configuration and due to the separation distances involved between the phantom and the laptop antenna, testing is not required in this position.

### 10.1.1 “Tablet” Position Definition (0mm spacing)

The EUT was tested in the 2.00 mm flat section of the AndreT Flat phantom P 10.1 for the “Tablet” position. The Transceiver was placed at the bottom of the phantom and suspended in such way that the back of the device was touching the phantom. This device orientation simulates the PC’s normal use – being held on the lap of the user. A spacing of 0mm ensures that the SAR results are conservative and represent a worst-case position.

### 10.1.2 “Edge On” Position

The EUT was tested in the (2.00 mm) flat section of the AndreT phantom for the “Edge On” position. The Antenna edge of the Transceiver was placed underneath the flat section of the phantom and suspended until the edge touched the phantom. *Refer to Appendix A for photos of measurement positions.*

## 10.2 List of All Test Cases (Antenna In/Out, Test Frequencies, User Modes)

The EUT has a fixed antenna. Depending on the measured SAR level up to three test channels with the test sample operating at maximum power (as specified in section 4.0) were recorded. The following table represents the matrix used to determine what testing was required. The worst case result was verified with the Bluetooth transmitting at full power in co-transmission with the WLAN.

**Table: Testing configurations**

Phantom Configuration	*Device Mode	Antenna	Test Configurations		
			CHANNEL (LOW)	Channel (Middle)	Channel (High)
Tablet	OFDM 2.4GHz	A		X	
		B		X	
	DSSS 2.4GHz	A		X	
		B		X	
Edge On	OFDM 2.4GHz	A		X	
		B		X	
	DSSS 2.4GHz	A		X	
		B		X	

### Legend

X Testing Required in this configuration

Testing required in this configuration only if SAR of middle channel is more than 3dB below the SAR limit or it is the worst case.

## 10.3 FCC RF Exposure Limits for Occupational/ Controlled Exposure

### Spatial Peak SAR Limits For:

<b>Partial-Body:</b>	8.0 mW/g (averaged over any 1g cube of tissue)
<b>Hands, Wrists, Feet and Ankles:</b>	20.0 mW/g (averaged over 10g cube of tissue)

## 10.4 FCC RF Exposure Limits for Un-controlled/Non-occupational

### Spatial Peak SAR Limits For:

<b>Partial-Body:</b>	1.6 mW/g (averaged over any 1g cube of tissue)
<b>Hands, Wrists, Feet and Ankles:</b>	4.0 mW/g (averaged over 10g cube of tissue)

## 11.0 SAR MEASUREMENT RESULTS

The SAR values averaged over 1g tissue masses were determined for the sample device for all test configurations listed in section 7.2.

### 11.1.1 2450MHz SAR Results

There are two modes of operation within the 2450MHz band, they include OFDM and DSSS modulations. Refer to section 7.2 for selection of all EUT test configurations. Table below displays the SAR results.

**Table: SAR MEASUREMENT RESULTS – DSSS Mode**

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel	Test Freq (MHz)	Measured 1g SAR Results (mW/g)	Measured Drift (dB)
*Tablet Bluetooth ON	1	B	1	-	06	2437	Pre-scan Only	-
*Edge On Right	2	A	1	-	06	2437	Pre-scan Only	-
*Edge On Left	3	B	1	-	06	2437	Pre-scan Only	-
*Edge On Top	4	A	1	-	06	2437	Pre-scan Only	-
*Edge On Top	5	B	1	-	06	2437	Pre-scan Only	-
Edge On Right	6	A	1	-	06	2437	0.109	-0.069
Edge On Left	7	B	1	-	06	2437	0.104	0.187
Edge On Top	8	A	1	-	01	2412	1.17	0.032
	9	A	1	-	06	2437	1.12	0.048
	10	A	1	-	11	2462	1.21	0.071
Edge On Top	11	B	1	-	01	2412	1.05	-0.145
	12	B	1	-	06	2437	1.26	-0.155
	13	B	1	-	11	2462	1.24	-0.065
Edge On Top with Bluetooth On	14	A	1	-	11	2462	1.19	-0.101
Edge On Top with Bluetooth On	15	B	1	-	06	2437	1.18	-0.135

NOTE: The measurement uncertainty of 22.6% for 2.45GHz was not added to the result.

**Table: SAR MEASUREMENT RESULTS – OFDM Mode**

Test Position	Plot No.	Ant A or B	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel	Test Freq (MHz)	Measured 1g SAR Results (mW/g)	Measured Drift (dB)
Edge On Right	16	A	6	-	06	2437	0.096	-0.167
Edge On Left	17	B	6	-	06	2437	0.080	0.400
Edge On Top	18	A	6	-	06	2437	0.987	0.065
Edge On Top	19	B	6	-	06	2437	0.957	-0.179

NOTE: The measurement uncertainty of 22.6% for 2.45GHz was not added to the result.

The highest SAR level recorded in the 2450MHz band was 1.26 mW/g as evaluated in a 1g cube of averaging mass. This value was obtained in Edge On Top position in DSSS mode, utilizing channel 06 (2437 MHz) and antenna B. The Bluetooth was Off.

## 12.0 COMPLIANCE STATEMENT

The Fujitsu Tablet PC, Model: T2010 with Atheros Mini-PCI Wireless LAN Module (Atheros XB62 802.11a/b/g/n), Model: AR5BXB6 & Taiyo Yuden Bluetooth Module, Model: EYTF3CS FT was found to comply with the FCC and RSS-102 SAR requirements.

The highest SAR level recorded was 1.26 mW/g measured in a 1g cube. This value was measured at 2437MHz (channel 06) in the “Edge On Top” position in DSSS modulation mode at the antenna B. This was below the limit of 1.6 mW/g for uncontrolled exposure, but was within the band of measurement uncertainty around the limit.

## APPENDIX A1 TEST SAMPLE PHOTOGRAPHS

T2010 Host - Conventional Laptop Configuration



T2010 Host - Tablet Configuration





## APPENDIX A2 Test Sample Photographs

Model: AR5BxB6 – WLAN Module  
Front



Back





## APPENDIX A3 Test Sample Photographs

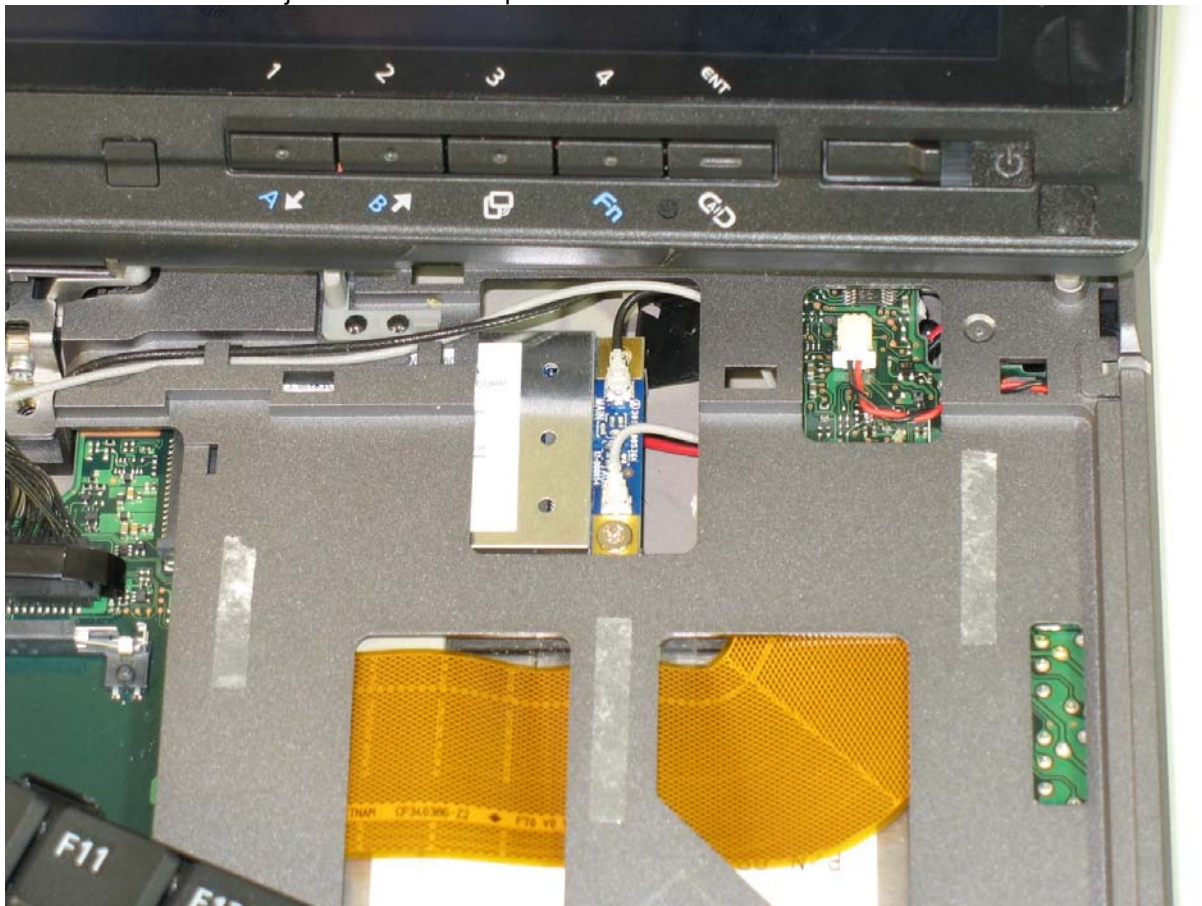
Battery 1



Battery 2

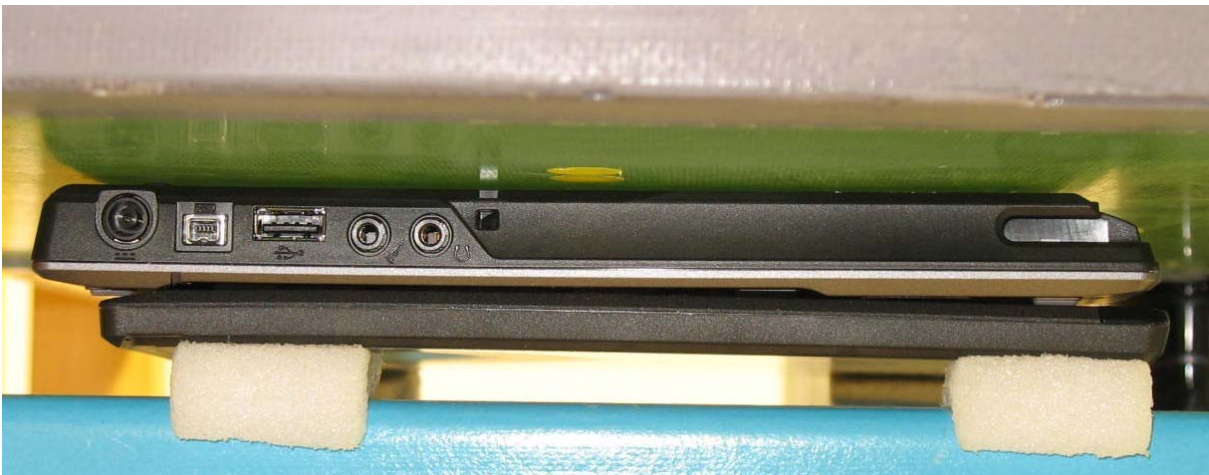


AR5BxB6 inside the Fujitsu TABLET Computer



## APPENDIX A4 test setup Photographs

Tablet Position





## APPENDIX A5 test setup Photographs

Edge On Top Position



## APPENDIX A6 test setup Photographs

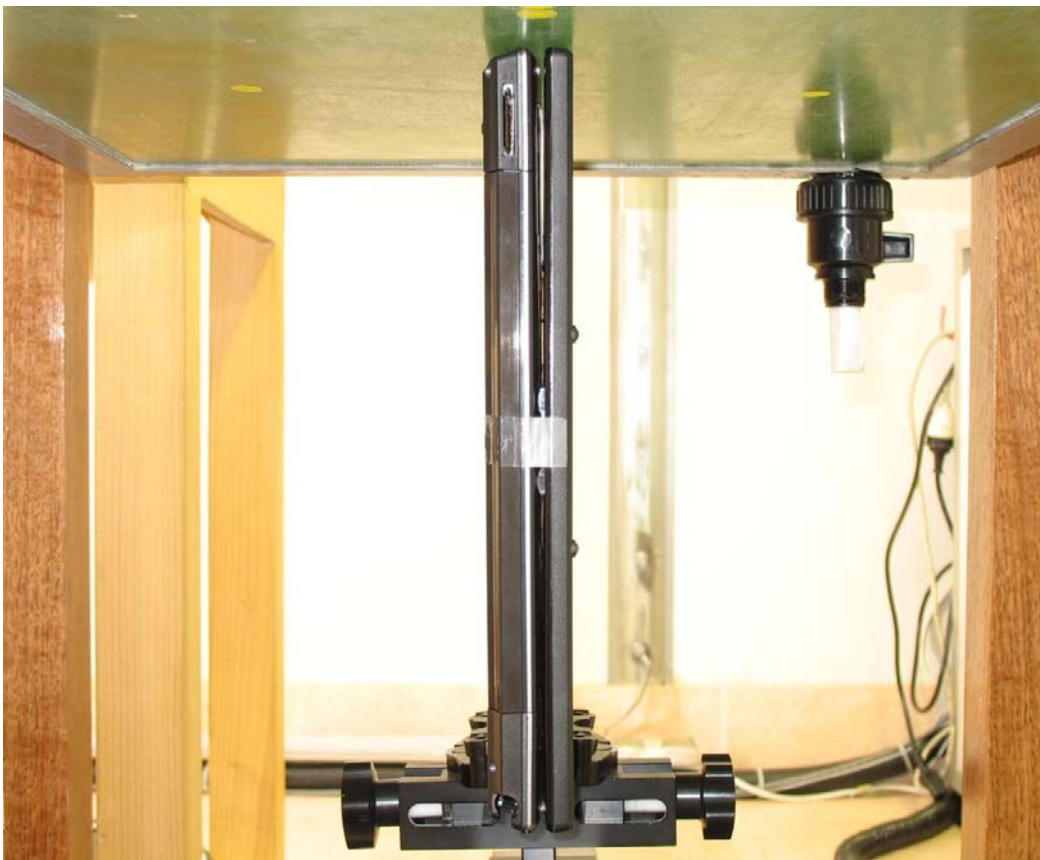
Edge On Left Position





## APPENDIX A7 test setup Photographs

Edge On Right Position



## APPENDIX B PLOTS OF THE SAR MEASUREMENTS

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

**Table: 2450 MHz DSSS Band SAR Measurement Plot Numbers**

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
*Tablet Bluetooth ON	1	B	1	-	06
*Edge On Right	2	A	1	-	06
*Edge On Left	3	B	1	-	06
*Edge On Top	4	A	1	-	06
*Edge On Top	5	B	1	-	06
Edge On Right	6	A	1	-	06
Edge On Left	7	A	1	-	06
Z-Axis graphs for Plots 6 to 7					
Edge On Top	8	A	1	-	01
	9	A	1	-	06
	10	A	1	-	11
Z-Axis graphs for Plots 8 to 10					
Edge On Top	11	B	1	-	01
	12	B	1	-	06
	13	B	1	-	11
Z-Axis graphs for Plots 11 to 13					
Edge On Top with Bluetooth On	14	A	1	-	11
Edge On Top with Bluetooth On	15	B	1	-	06
Z-Axis graphs for Plots 14 to 15					

**Table: 2450 MHz OFDM Band SAR Measurement Plot Numbers**

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Edge On Right	16	A	6	-	06
Edge On Left	17	B	6	-	06
Edge On Top	18	A	6	-	06
Edge On Top	19	B	6	-	06
Z-Axis graph for Plots 16 to 19					

**Table: 2450MHz Validation Plot**

Plot 20	Validation 2450 MHz 18 June 2007
Plot 21	Validation 2450 MHz 19 June 2007
Z-Axis graphs for Plots 19 to 20	

Test Date: 18 June 2007

File Name: Tablet DSSS 2.45 Champlain Antenna B Bluetooth On Prescan 18-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

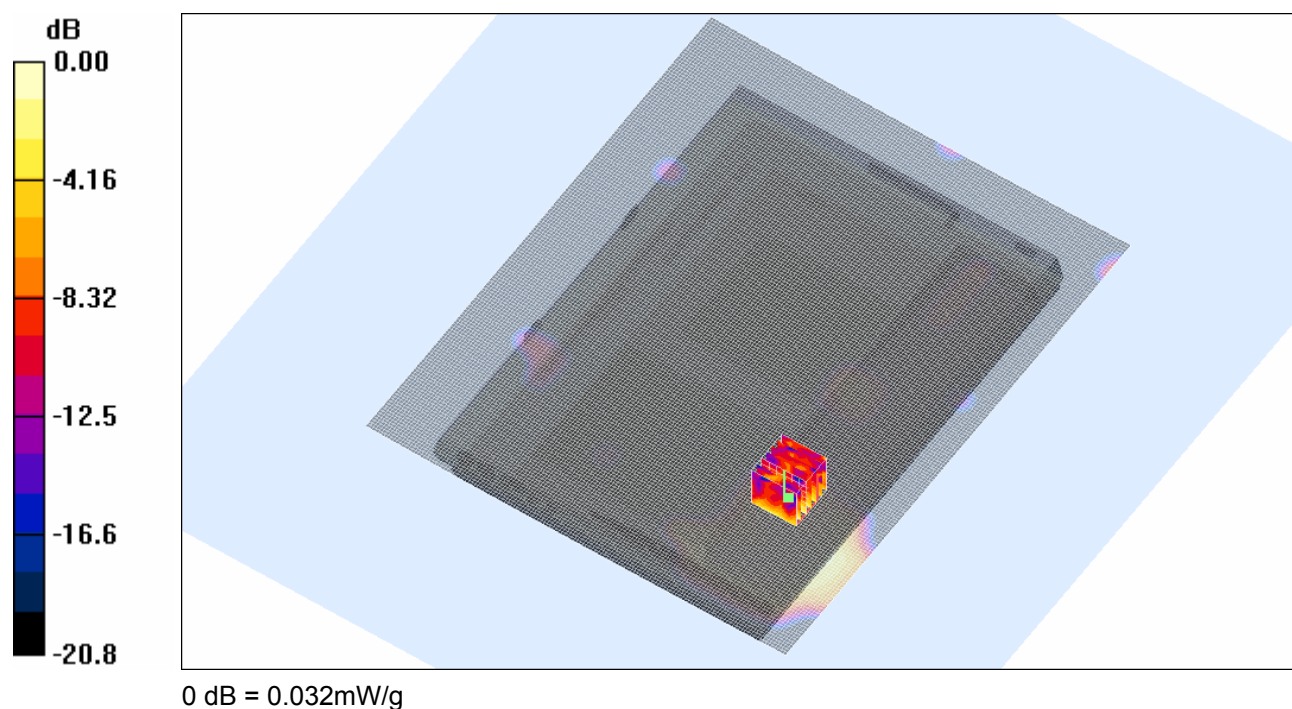
\* Medium parameters used:  $\sigma = 1.91757$  mho/m,  $\epsilon_r = 52.8545$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (141x171x1):** Measurement grid: dx=20mm, dy=20mm

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



**SAR MEASUREMENT PLOT 1**

Ambient Temperature  
Liquid Temperature  
Humidity

21.6 Degrees Celsius  
21.0 Degrees Celsius  
43.0 %



Test Date: 18 June 2007

File Name: Edge On Right DSSS 2.45 GHz Champlain Antenna A Bluetooth Off Prescan 18-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

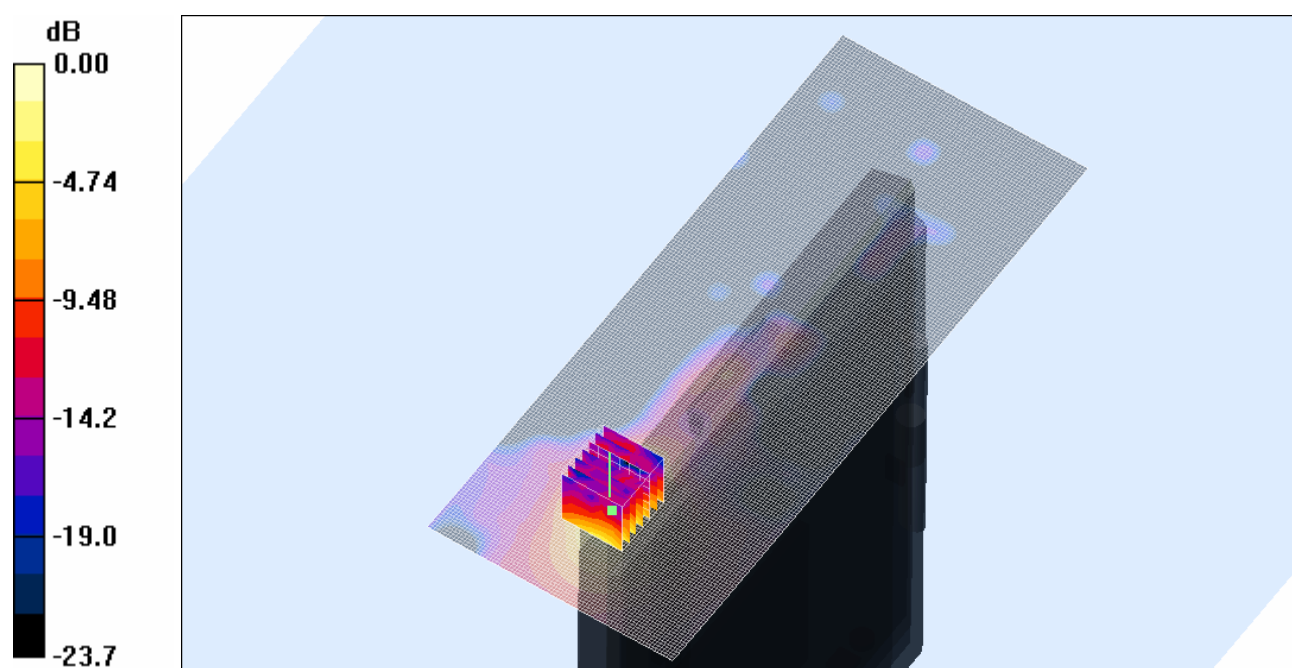
\* Medium parameters used:  $\sigma = 1.91757$  mho/m,  $\epsilon_r = 52.8545$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (81x201x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.114 mW/g



0 dB = 0.122mW/g

**SAR MEASUREMENT PLOT 2**

Ambient Temperature  
Liquid Temperature  
Humidity

21.6 Degrees Celsius  
21.0 Degrees Celsius  
43.0 %

Test Date: 18 June 2007

File Name: Edge On Left DSSS 2.45 GHz Champlain Antenna B Bluetooth Off Prescan 18-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.91757$  mho/m,  $\epsilon_r = 52.8545$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (81x201x1):** Measurement grid: dx=15mm, dy=15mm

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

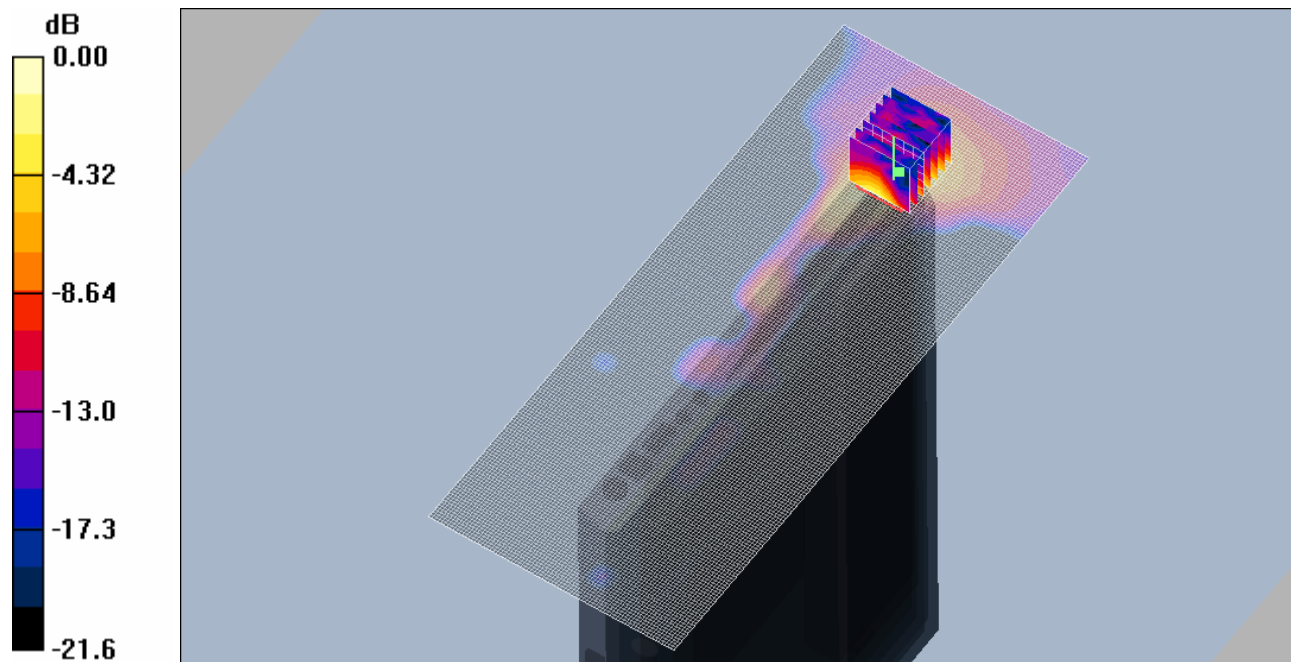
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.11 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.201 W/kg

**SAR(1 g) = 0.097 mW/g; SAR(10 g) = 0.043 mW/g**

Maximum value of SAR (measured) = 0.114 mW/g



0 dB = 0.114mW/g

**SAR MEASUREMENT PLOT 3**

Ambient Temperature

21.6 Degrees Celsius

Liquid Temperature

21.0 Degrees Celsius

Humidity

43.0 %

Test Date: 19 June 2007

File Name: Edge On Top DSSS 2.45 GHz Champlain Antenna A Bluetooth Off Prescan 19-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

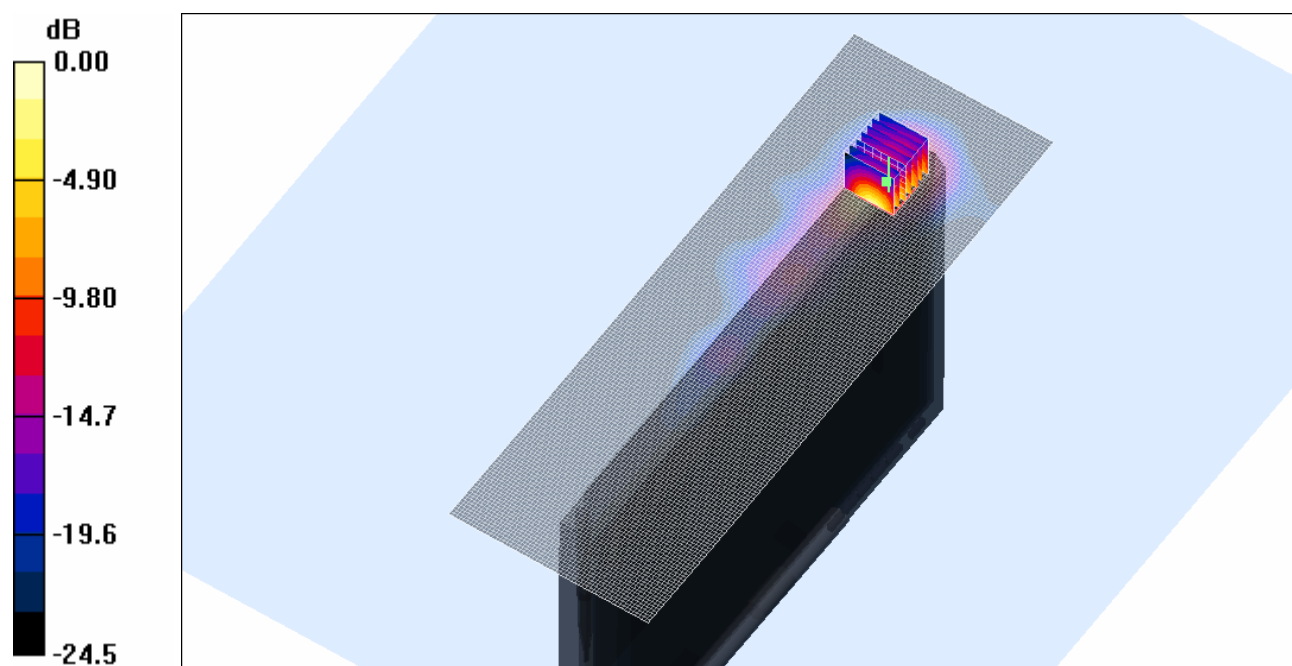
\* Medium parameters used:  $\sigma = 1.93965$  mho/m,  $\epsilon_r = 51.9461$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.812 mW/g



0 dB = 1.21mW/g

**SAR MEASUREMENT PLOT 4**

Ambient Temperature  
Liquid Temperature  
Humidity

21.8 Degrees Celsius  
21.2 Degrees Celsius  
36.0 %

Test Date: 18 June 2007

File Name: Edge On Top DSSS 2.45 GHz Champlain Antenna B Bluetooth On Prescan 18-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

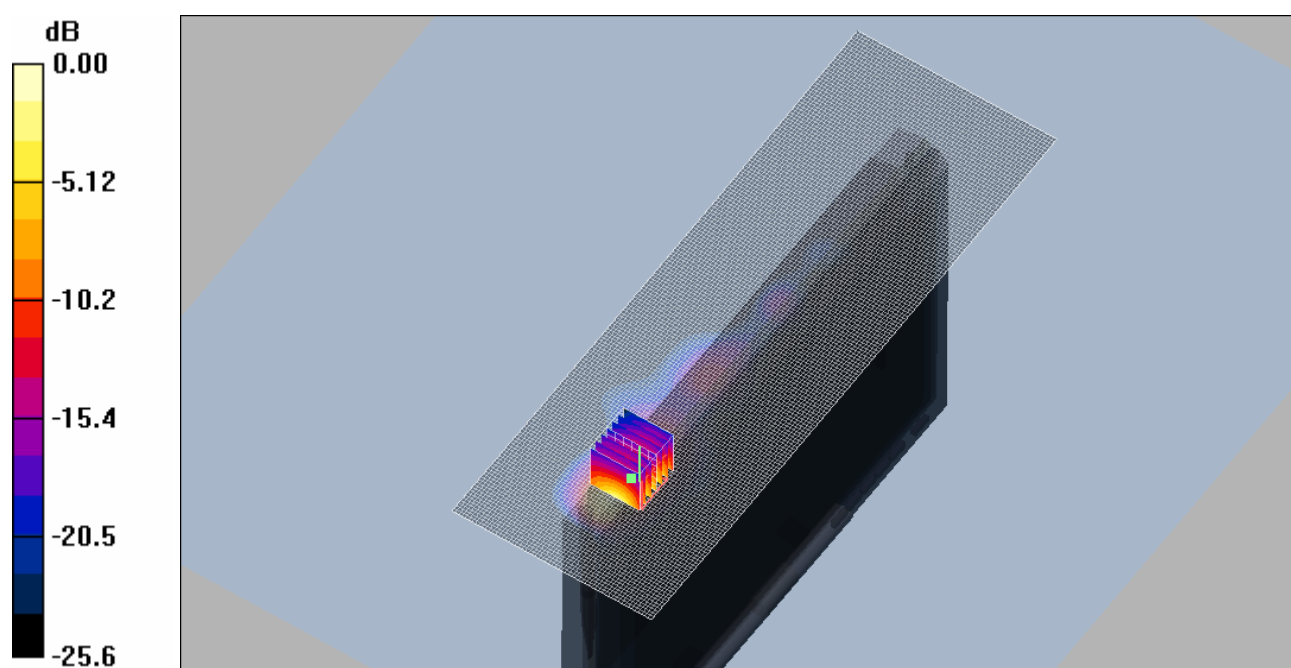
\* Medium parameters used:  $\sigma = 1.91757$  mho/m,  $\epsilon_r = 52.8545$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.09 mW/g



0 dB = 1.43mW/g

**SAR MEASUREMENT PLOT 5**

Ambient Temperature  
Liquid Temperature  
Humidity

21.6 Degrees Celsius  
21.0 Degrees Celsius  
43.0 %

Test Date: 18 June 2007

File Name: Edge On Right DSSS 2.45 GHz Champlain Antenna A Bluetooth Off 18-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.91757$  mho/m,  $\epsilon_r = 52.8545$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

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

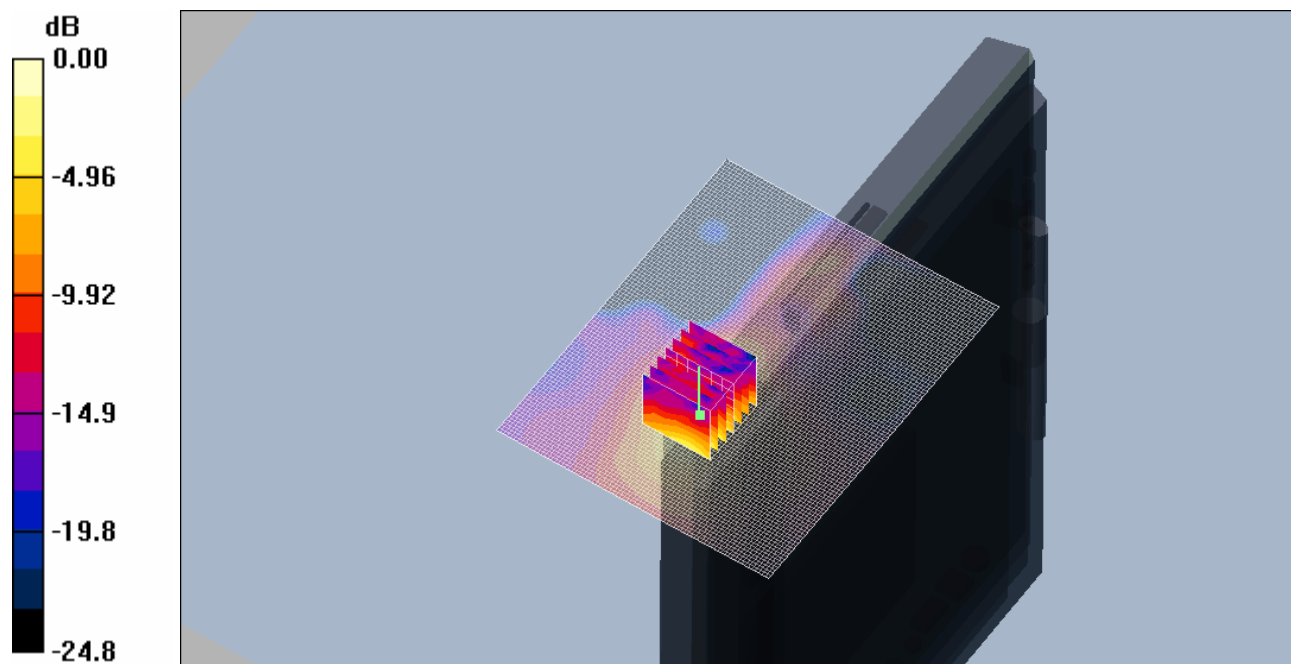
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.30 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 0.274 W/kg

**SAR(1 g) = 0.109 mW/g; SAR(10 g) = 0.050 mW/g**

Maximum value of SAR (measured) = 0.119 mW/g



0 dB = 0.119mW/g

**SAR MEASUREMENT PLOT 6**

Ambient Temperature

21.6 Degrees Celsius

Liquid Temperature

21.0 Degrees Celsius

Humidity

43.0 %



Test Date: 18 June 2007

File Name: Edge On Left DSSS 2.45 GHz Champlain Antenna B Bluetooth Off 18-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.91757$  mho/m,  $\epsilon_r = 52.8545$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.106 mW/g

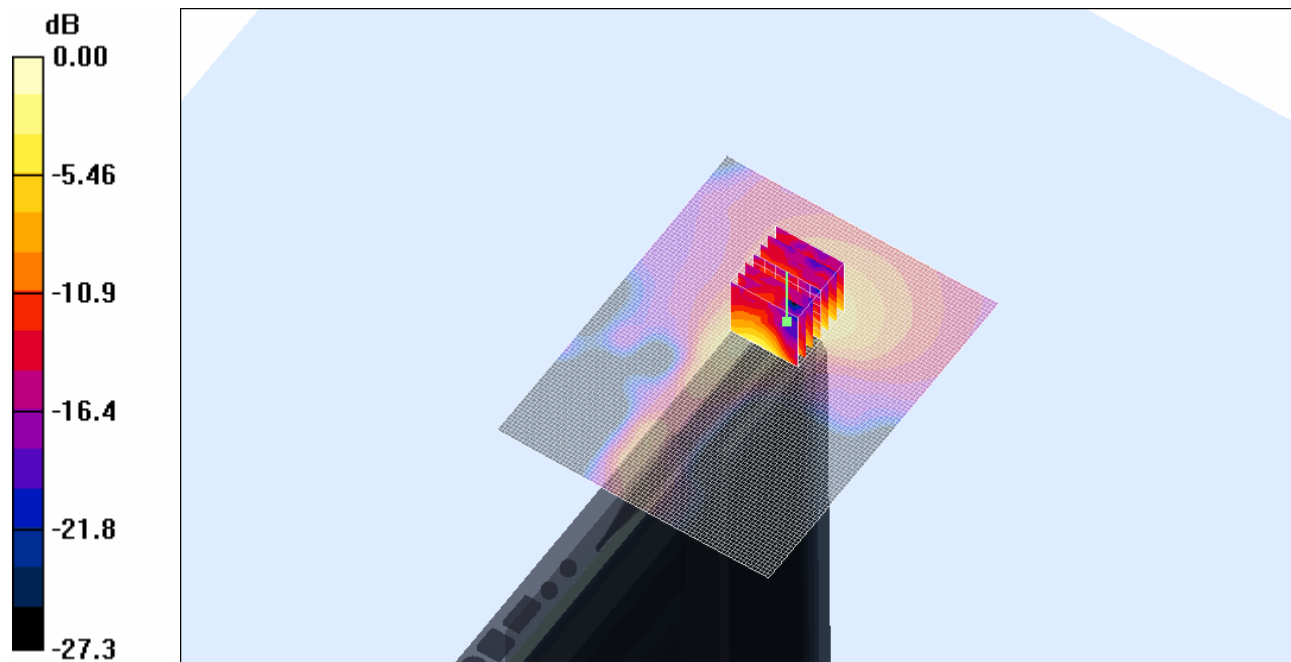
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.13 V/m; Power Drift = 0.187 dB

Peak SAR (extrapolated) = 0.259 W/kg

**SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.044 mW/g**

Maximum value of SAR (measured) = 0.121 mW/g



0 dB = 0.121mW/g

**SAR MEASUREMENT PLOT 7**

Ambient Temperature

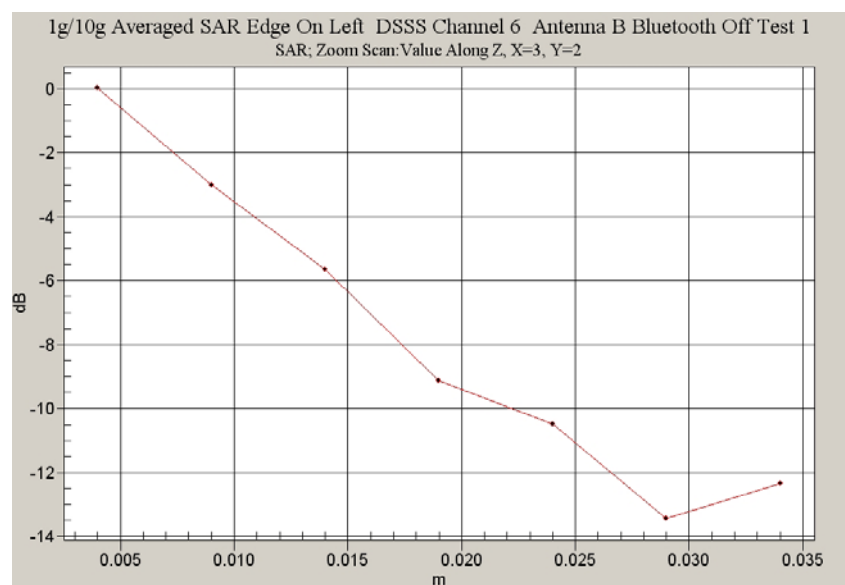
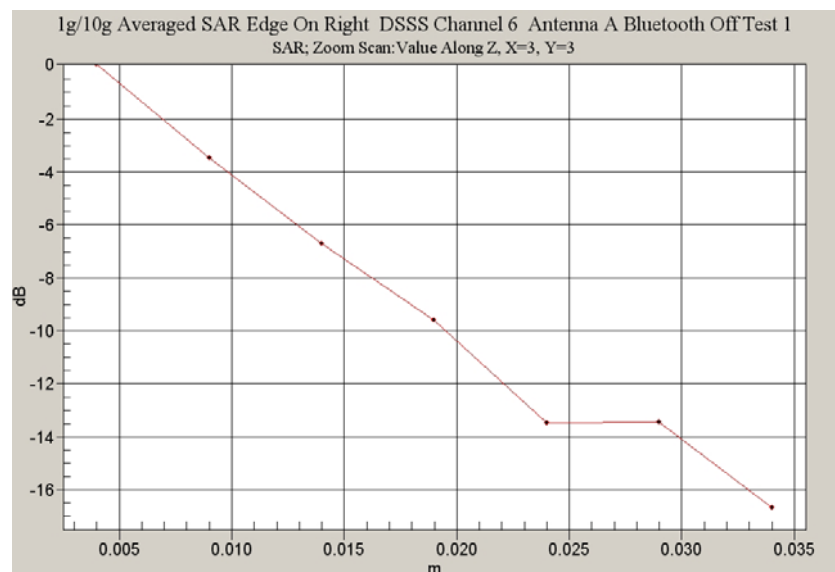
21.6 Degrees Celsius

Liquid Temperature

21.0 Degrees Celsius

Humidity

43.0 %



Test Date: 19 June 2007

File Name: Edge On Top DSSS 2.45 GHz Champlain Antenna A Bluetooth Off 19-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.90515$  mho/m,  $\epsilon_r = 52.112$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 1 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.22 mW/g

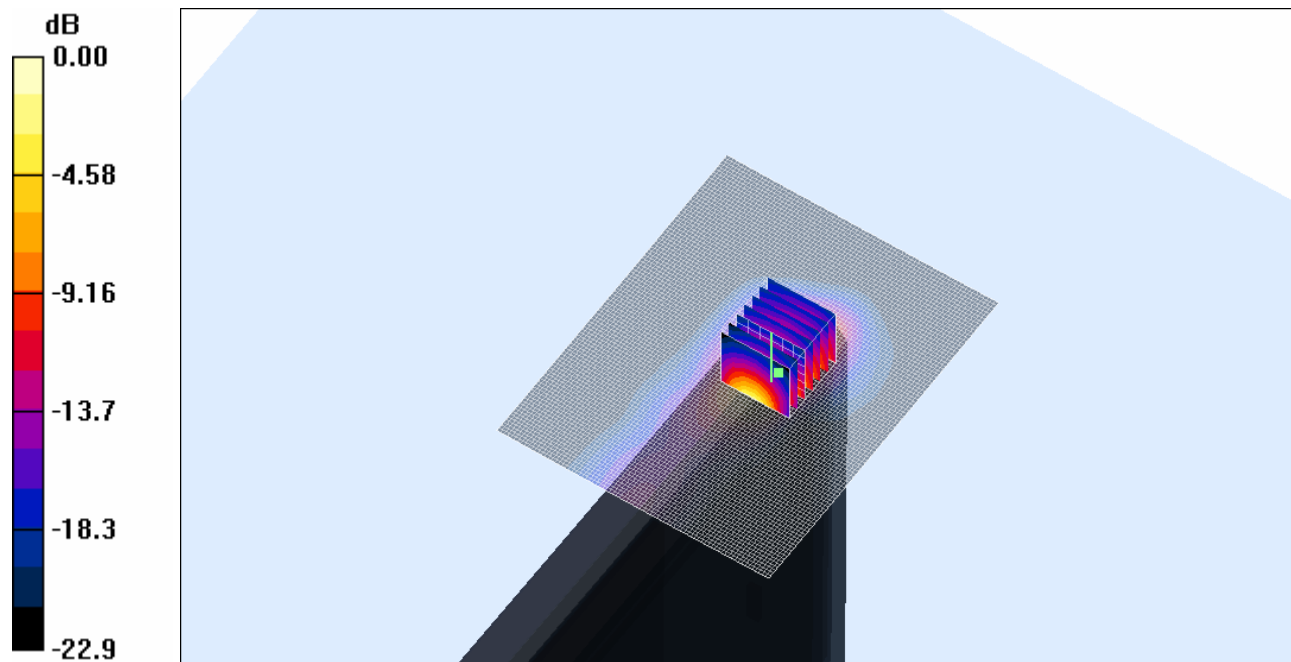
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.6 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 3.29 W/kg

**SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.479 mW/g**

Maximum value of SAR (measured) = 1.38 mW/g



0 dB = 1.38mW/g

**SAR MEASUREMENT PLOT 8**

Ambient Temperature

21.8 Degrees Celsius

Liquid Temperature

21.2 Degrees Celsius

Humidity

36.0 %



Test Date: 19 June 2007

File Name: Edge On Top DSSS 2.45 GHz Champlain Antenna A Bluetooth Off 19-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.93965$  mho/m,  $\epsilon_r = 51.9461$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.975 mW/g

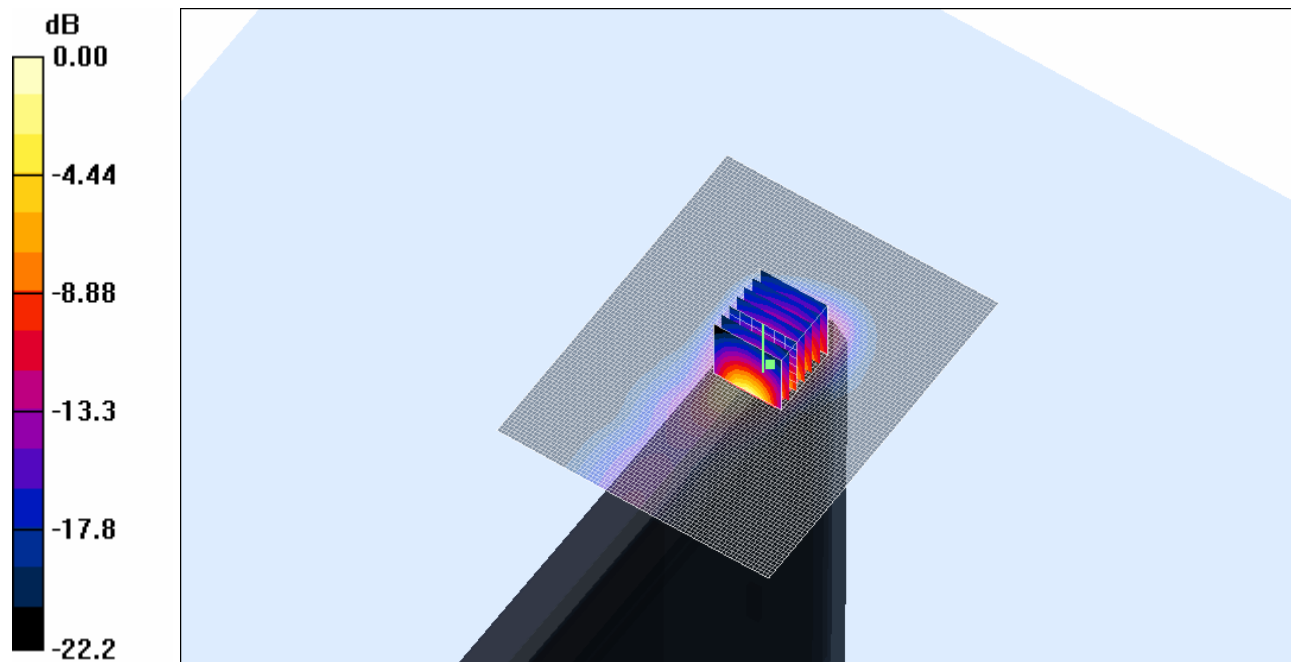
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.3 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 3.14 W/kg

**SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.459 mW/g**

Maximum value of SAR (measured) = 1.30 mW/g



0 dB = 1.30mW/g

**SAR MEASUREMENT PLOT 9**

Ambient Temperature

21.8 Degrees Celsius

Liquid Temperature

21.2 Degrees Celsius

Humidity

36.0 %

Test Date: 19 June 2007

File Name: Edge On Top DSSS 2.45 GHz Champlain Antenna A Bluetooth Off 19-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.97523$  mho/m,  $\epsilon_r = 51.7891$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 11 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.23 mW/g

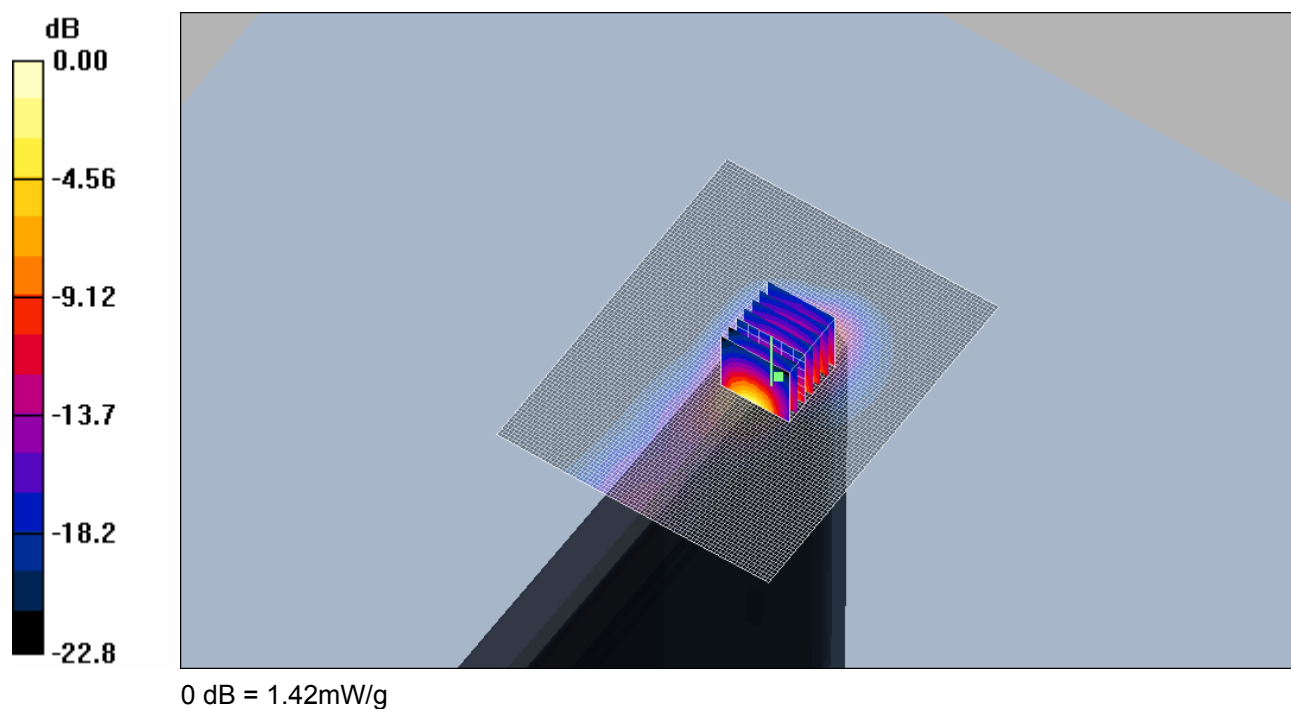
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.5 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 3.49 W/kg

**SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.491 mW/g**

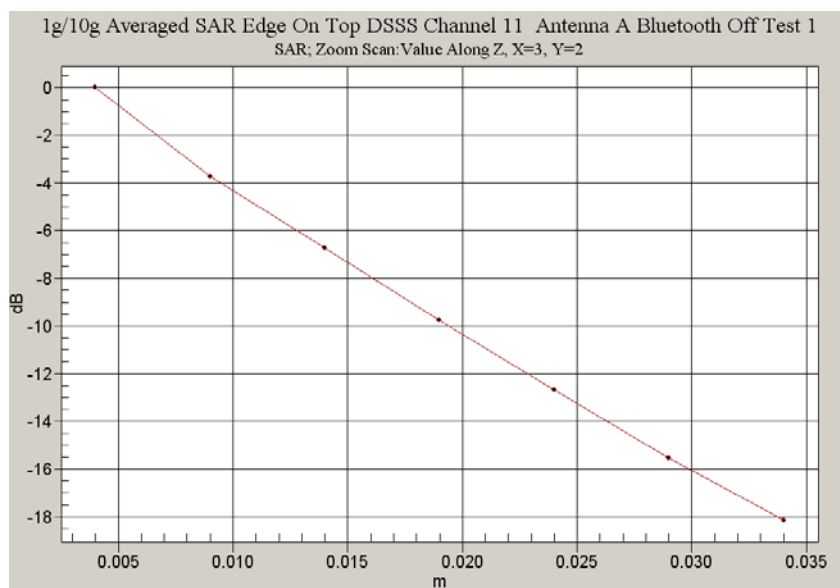
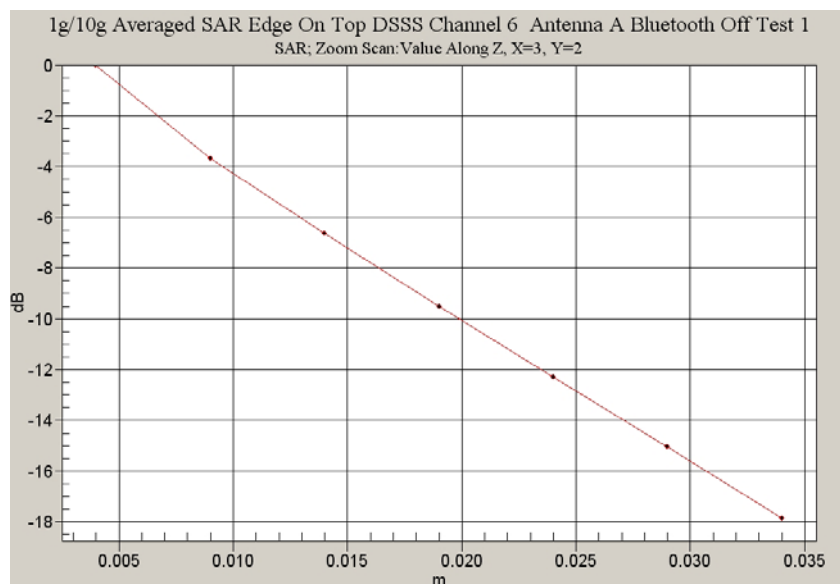
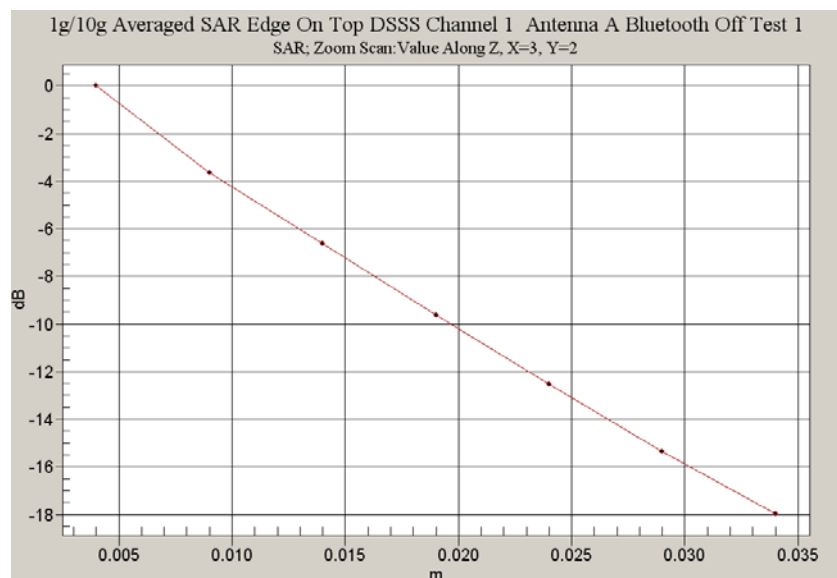
Maximum value of SAR (measured) = 1.42 mW/g



**SAR MEASUREMENT PLOT 10**

Ambient Temperature  
Liquid Temperature  
Humidity

21.8 Degrees Celsius  
21.2 Degrees Celsius  
36.0 %



Test Date: 19 June 2007

File Name: Edge On Top DSSS 2.45 GHz Champlain Antenna B Bluetooth Off 19-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.90515$  mho/m,  $\epsilon_r = 52.112$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 1 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.06 mW/g

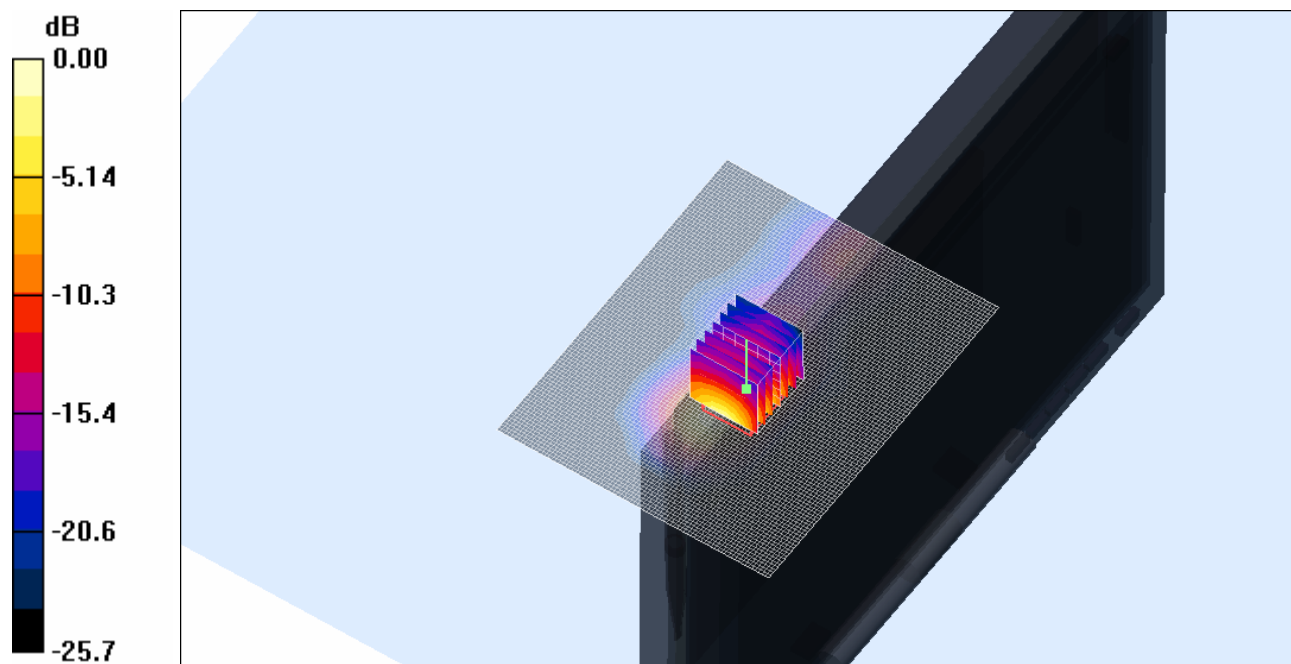
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.9 V/m; Power Drift = -0.145 dB

Peak SAR (extrapolated) = 2.92 W/kg

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.432 mW/g**

Maximum value of SAR (measured) = 1.21 mW/g



0 dB = 1.21mW/g

**SAR MEASUREMENT PLOT 11**

Ambient Temperature

21.8 Degrees Celsius

Liquid Temperature

21.2 Degrees Celsius

Humidity

36.0 %

Test Date: 19 June 2007

File Name: Edge On Top DSSS 2.45 GHz Champlain Antenna B Bluetooth Off 19-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.93965$  mho/m,  $\epsilon_r = 51.9461$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.29 mW/g

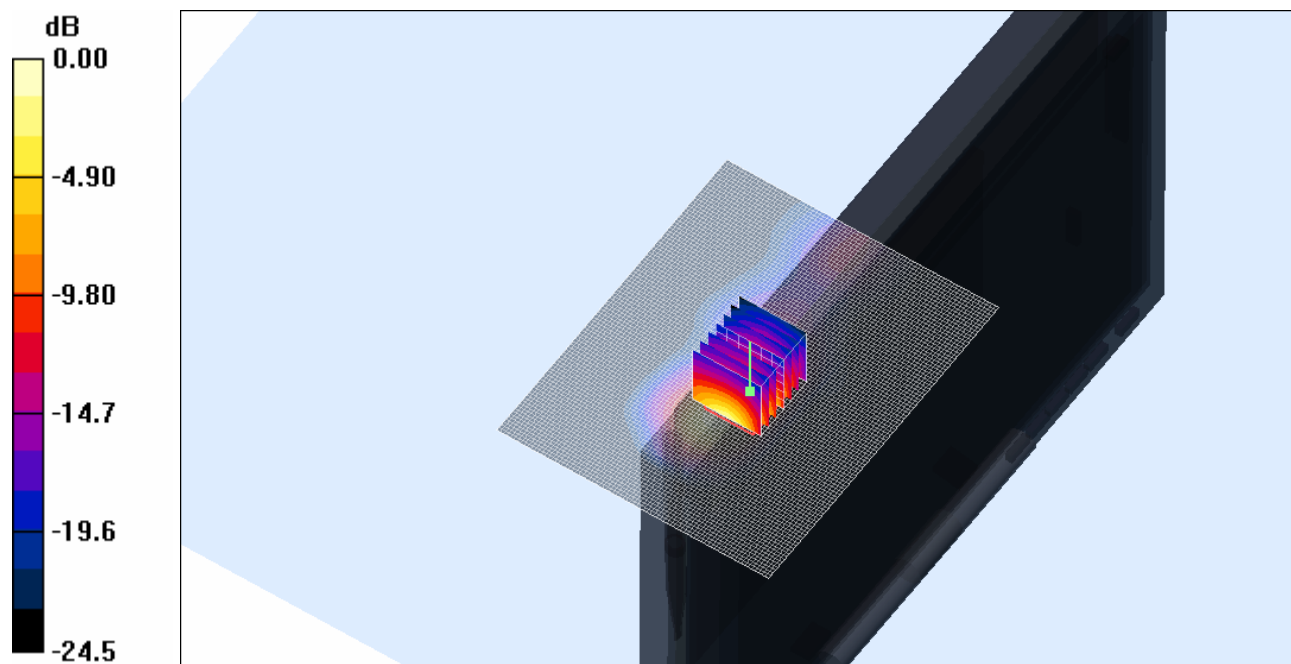
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.4 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 3.51 W/kg

**SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.513 mW/g**

Maximum value of SAR (measured) = 1.44 mW/g



0 dB = 1.44mW/g

**SAR MEASUREMENT PLOT 12**

Ambient Temperature

21.8 Degrees Celsius

Liquid Temperature

21.2 Degrees Celsius

Humidity

36.0 %

Test Date: 19 June 2007

File Name: Edge On Top DSSS 2.45 GHz Champlain Antenna B Bluetooth Off 19-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.97523$  mho/m,  $\epsilon_r = 51.7891$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 11 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.37 mW/g

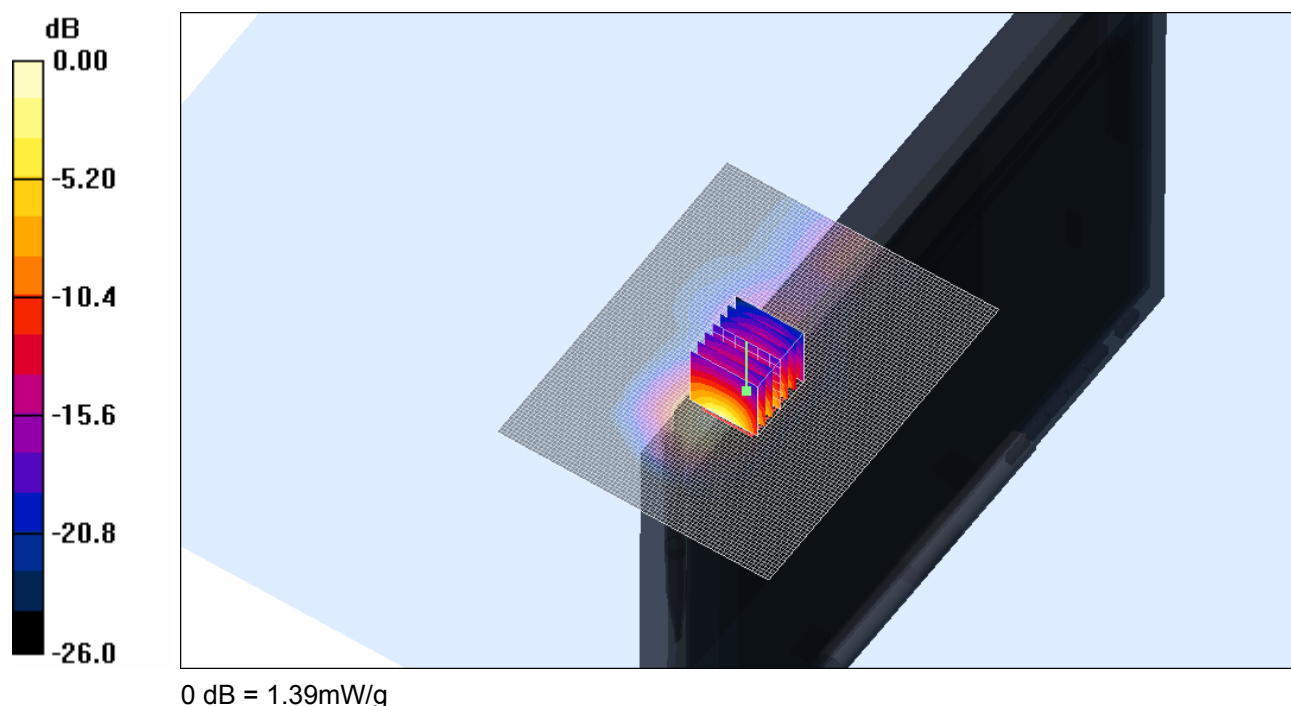
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.5 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 3.42 W/kg

**SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.512 mW/g**

Maximum value of SAR (measured) = 1.39 mW/g

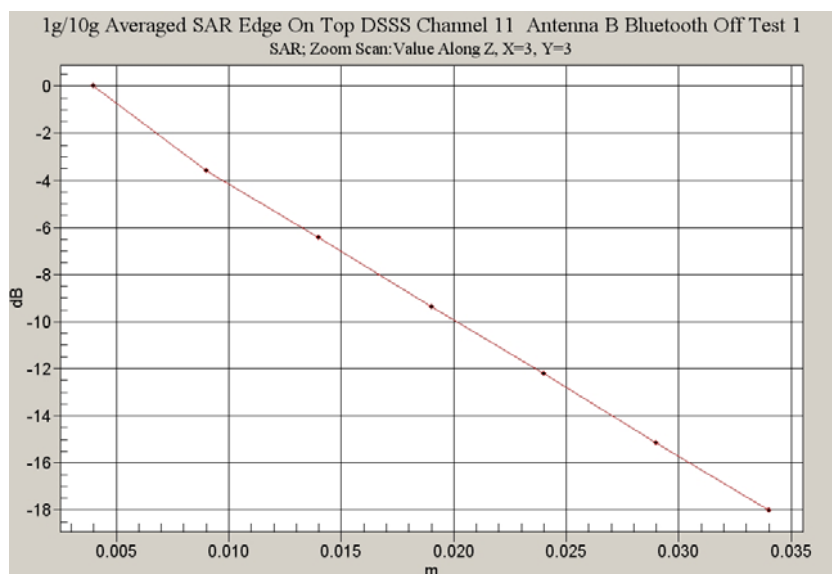
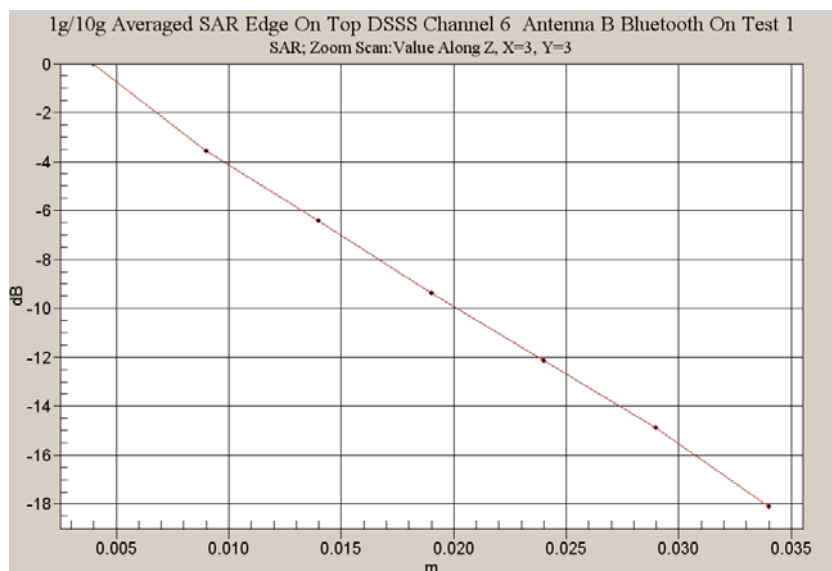
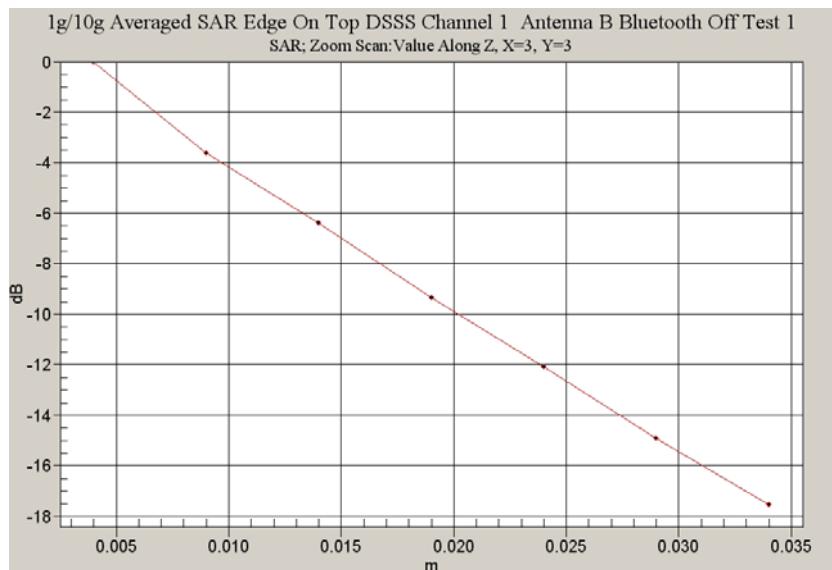


**SAR MEASUREMENT PLOT 13**

Ambient Temperature  
Liquid Temperature  
Humidity

21.8 Degrees Celsius  
21.2 Degrees Celsius  
36.0 %





Test Date: 19 June 2007

File Name: Edge On Top DSSS 2.45 GHz Champlain Antenna A Bluetooth On 19-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BXB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.97523$  mho/m,  $\epsilon_r = 51.7891$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 11 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.23 mW/g

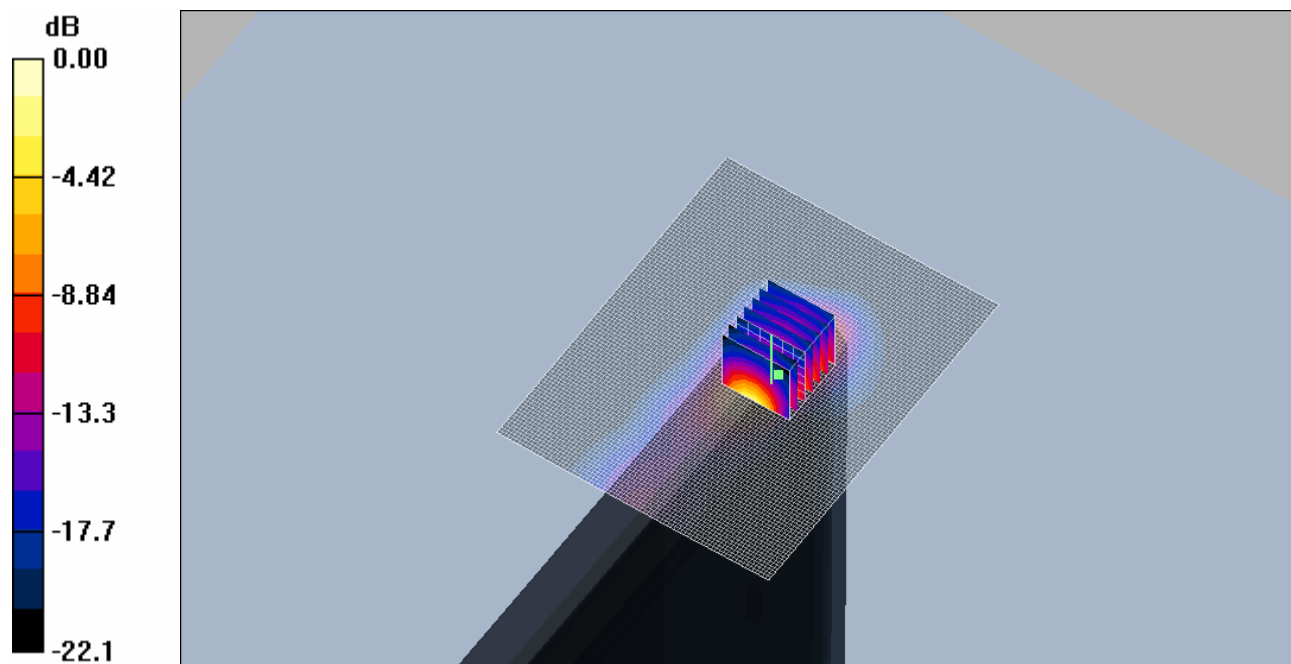
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.5 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 3.41 W/kg

**SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.484 mW/g**

Maximum value of SAR (measured) = 1.38 mW/g



0 dB = 1.38mW/g

**SAR MEASUREMENT PLOT 14**

Ambient Temperature

21.8 Degrees Celsius

Liquid Temperature

21.2 Degrees Celsius

Humidity

36.0 %

Test Date: 19 June 2007

File Name: Edge On Top DSSS 2.45 GHz Champlain Antenna B Bluetooth On 19-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.93965$  mho/m,  $\epsilon_r = 51.9461$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.21 mW/g

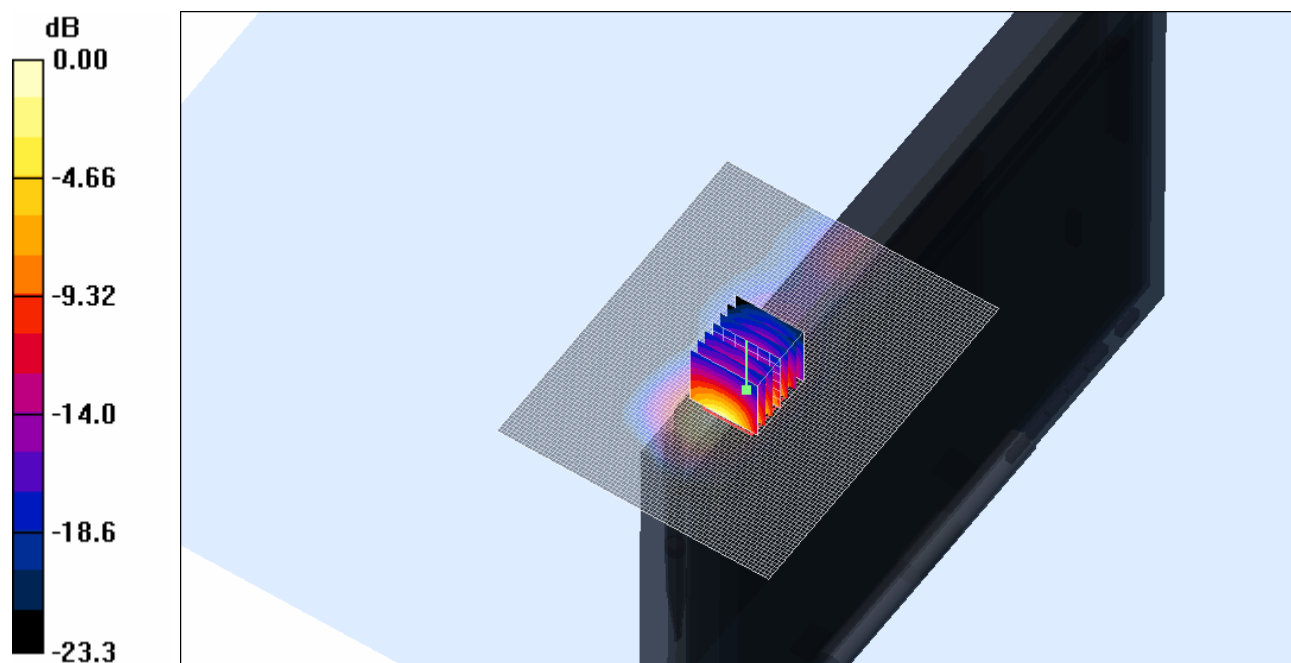
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.0 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 3.29 W/kg

**SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.484 mW/g**

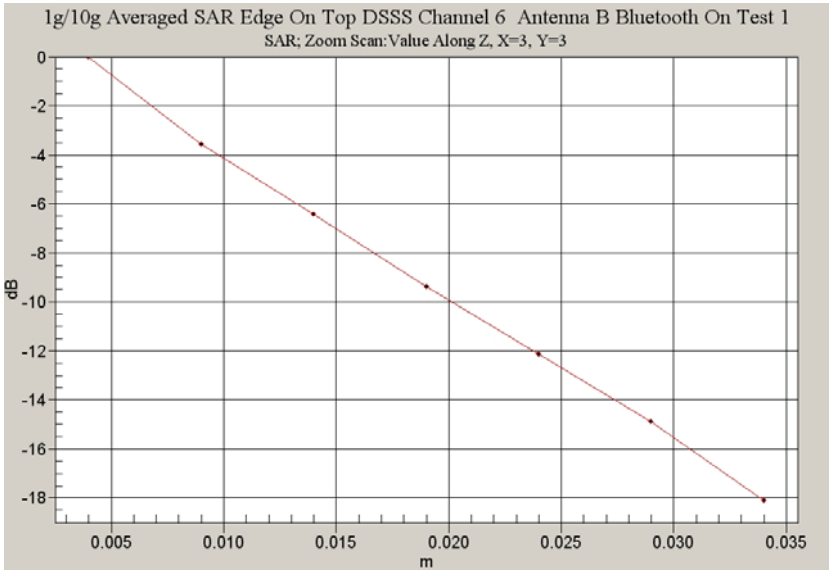
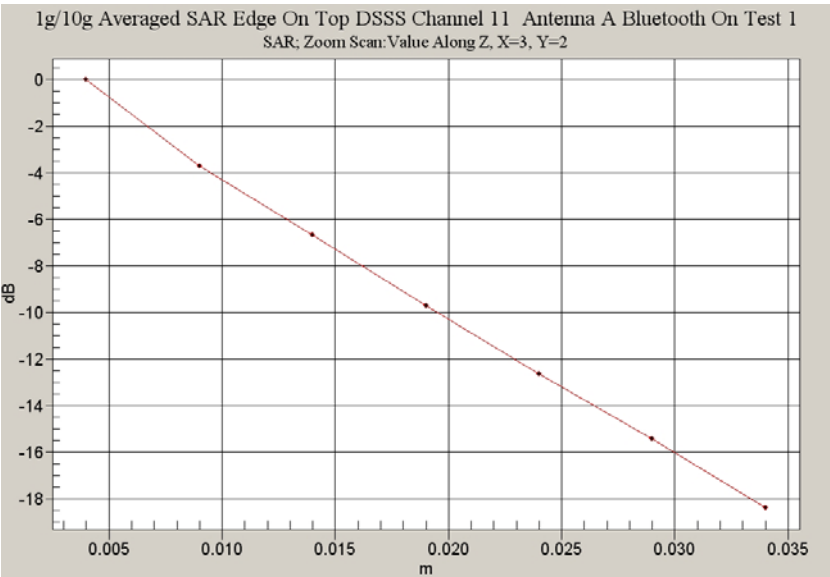
Maximum value of SAR (measured) = 1.34 mW/g



**SAR MEASUREMENT PLOT 15**

Ambient Temperature  
Liquid Temperature  
Humidity

21.8 Degrees Celsius  
21.2 Degrees Celsius  
36.0 %



Test Date: 18 June 2007

File Name: Edge On Right OFDM 2.45 GHz Champlain Antenna A Bluetooth Off 18-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BXB6; Serial: ZX7323727**

\* Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.91757$  mho/m,  $\epsilon_r = 52.8545$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.100 mW/g

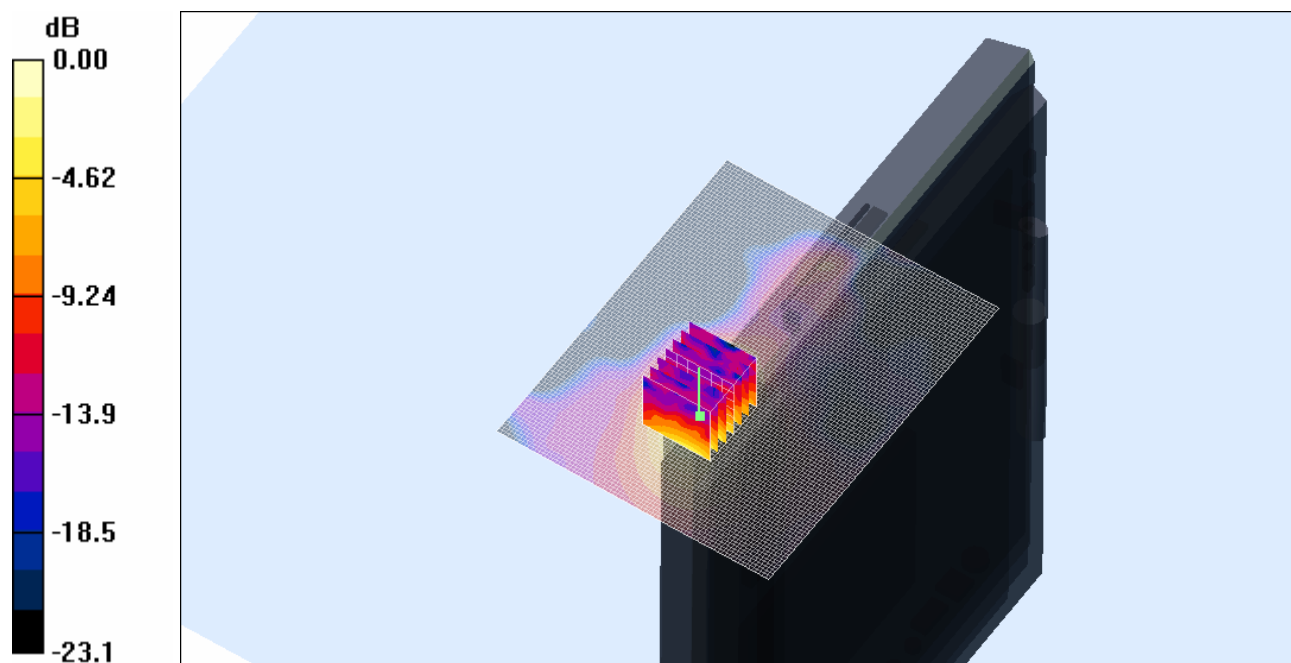
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.92 V/m; Power Drift = -0.167 dB

Peak SAR (extrapolated) = 0.247 W/kg

**SAR(1 g) = 0.096 mW/g; SAR(10 g) = 0.043 mW/g**

Maximum value of SAR (measured) = 0.102 mW/g



0 dB = 0.102mW/g

**SAR MEASUREMENT PLOT 16**

Ambient Temperature  
Liquid Temperature  
Humidity

21.6 Degrees Celsius  
21.0 Degrees Celsius  
43.0 %

Test Date: 18 June 2007

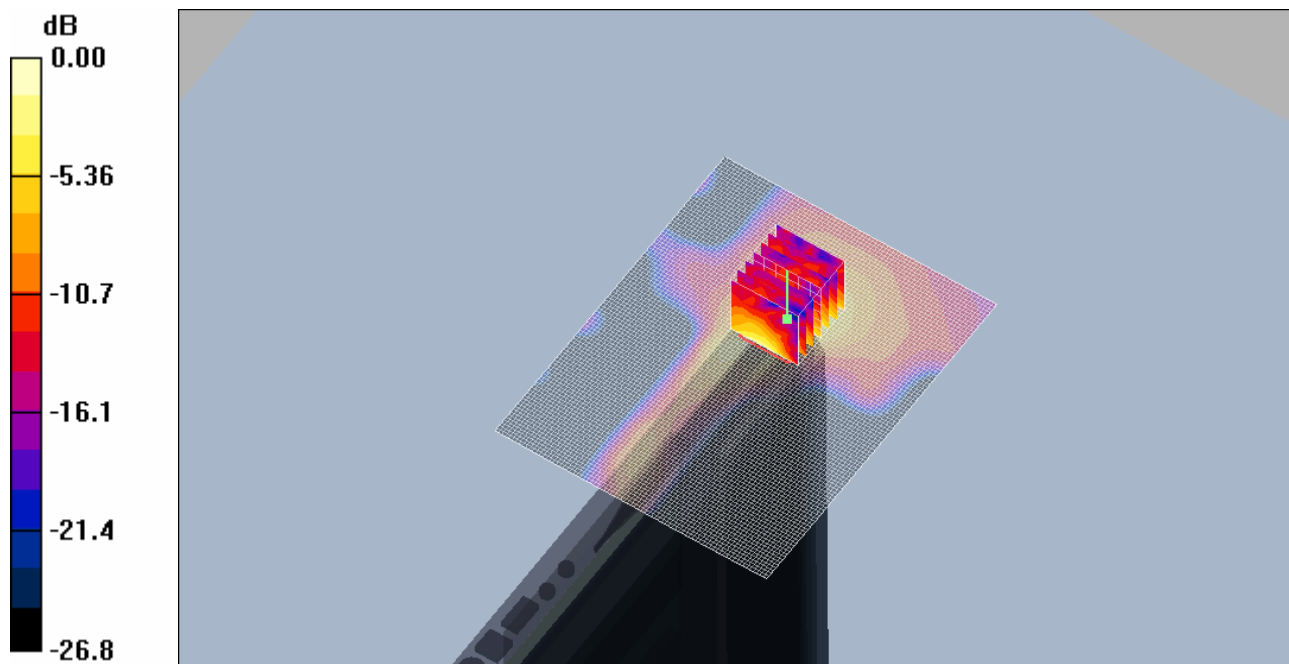
File Name: Edge On Left OFDM 2.45 GHz Champlain Antenna B Bluetooth Off 18-06-07.da4

DUT: **Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BXB6; Serial: ZX7323727**

- \* Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $\sigma = 1.91757$  mho/m,  $\epsilon_r = 52.8545$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.086 mW/g

**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 3.62 V/m; Power Drift = 0.400 dB  
Peak SAR (extrapolated) = 0.179 W/kg  
**SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.035 mW/g**  
Maximum value of SAR (measured) = 0.092 mW/g



**SAR MEASUREMENT PLOT 17**

Ambient Temperature	21.6 Degrees Celsius
Liquid Temperature	21.0 Degrees Celsius
Humidity	43.0 %



Test Date: 19 June 2007

File Name: Edge On Top OFDM 2.45 GHz Champlain Antenna A Bluetooth Off 19-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.93965$  mho/m,  $\epsilon_r = 51.9461$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.876 mW/g

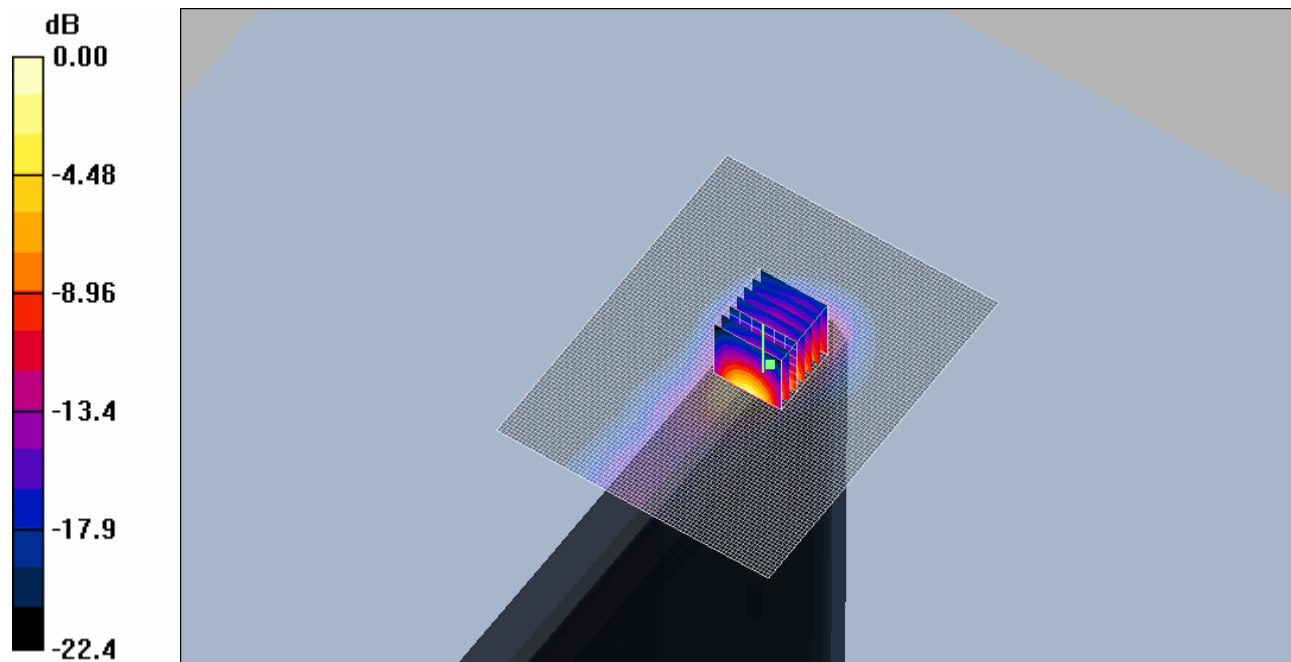
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.0 V/m; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 2.86 W/kg

**SAR(1 g) = 0.987 mW/g; SAR(10 g) = 0.40 mW/g**

Maximum value of SAR (measured) = 1.15 mW/g



0 dB = 1.15mW/g

**SAR MEASUREMENT PLOT 18**

Ambient Temperature

21.8 Degrees Celsius

Liquid Temperature

21.2 Degrees Celsius

Humidity

36.0 %

Test Date: 19 June 2007

File Name: Edge On Top OFDM 2.45 GHz Champlain Antenna B Bluetooth Off 19-06-07.da4

**DUT: Fujitsu Tablet Champlain with Atheros 11abg and Bluetooth; Type: AR5BxB6; Serial: ZX7323727**

\* Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.93965$  mho/m,  $\epsilon_r = 51.9461$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.21, 4.21, 4.21)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 6 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.966 mW/g

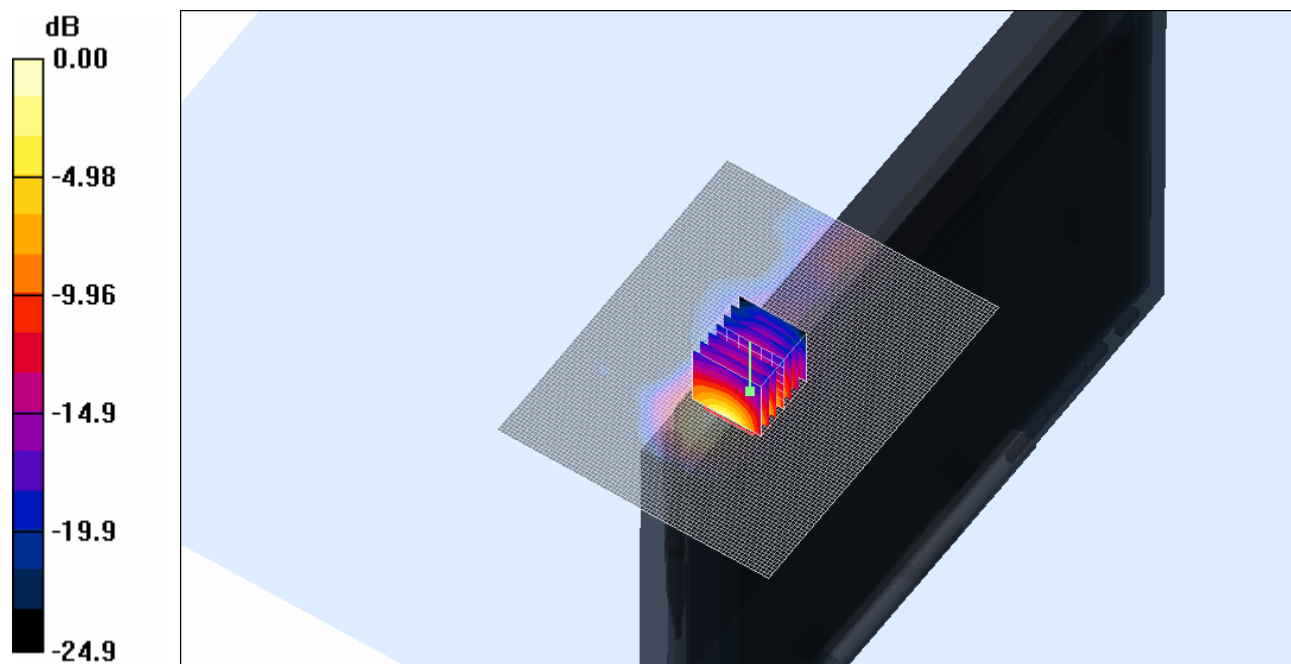
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.6 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 2.68 W/kg

**SAR(1 g) = 0.957 mW/g; SAR(10 g) = 0.386 mW/g**

Maximum value of SAR (measured) = 1.11 mW/g



0 dB = 1.11mW/g

**SAR MEASUREMENT PLOT 19**

Ambient Temperature

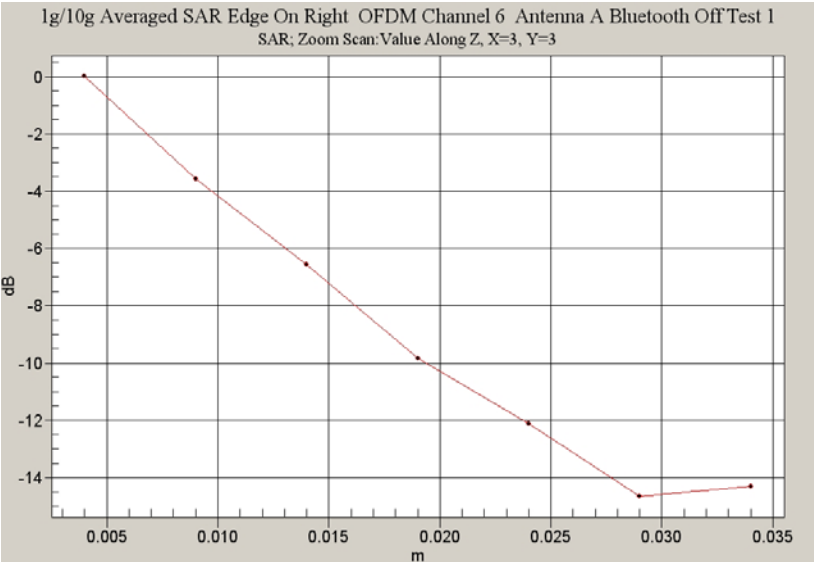
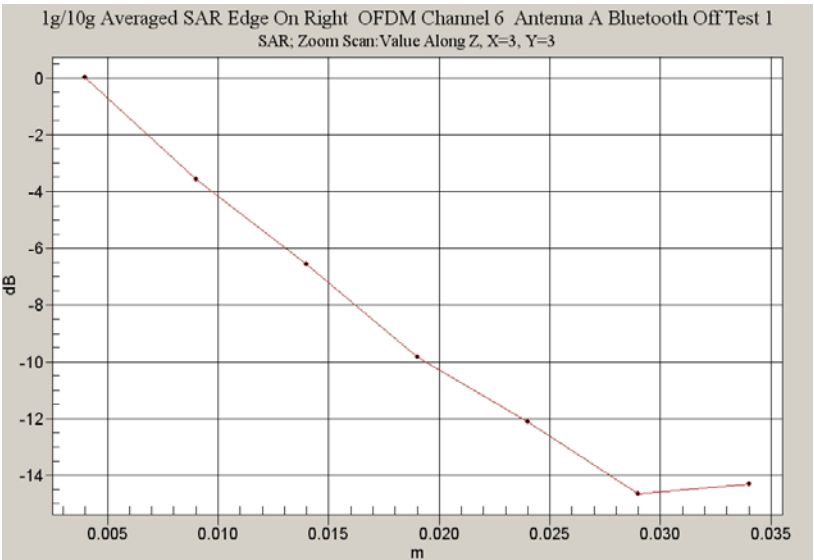
21.8 Degrees Celsius

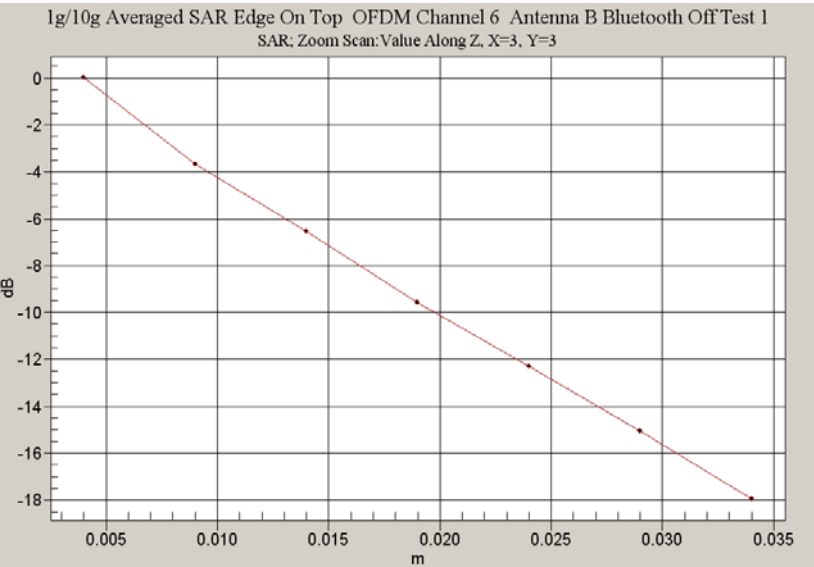
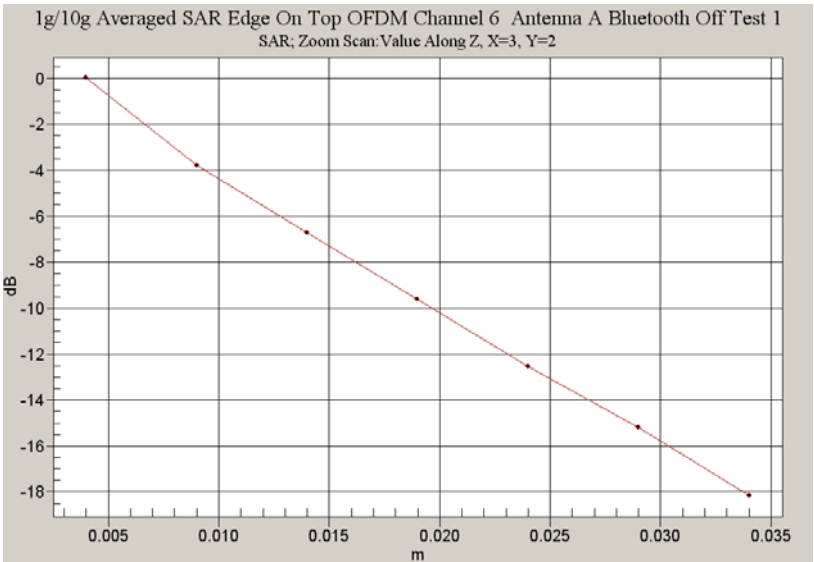
Liquid Temperature

21.2 Degrees Celsius

Humidity

36.0 %





Test Date: 18 June 2007

File Name: Validation 2450 MHz (DAE442 Probe1380) 18-06-07.da4

DUT: Dipole 2450 MHz; Type: DV2450V2; Serial: 724

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

\* Medium parameters used:  $\sigma = 1.79345$  mho/m,  $\epsilon_r = 40.1313$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.32, 4.32, 4.32)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 19.5 mW/g

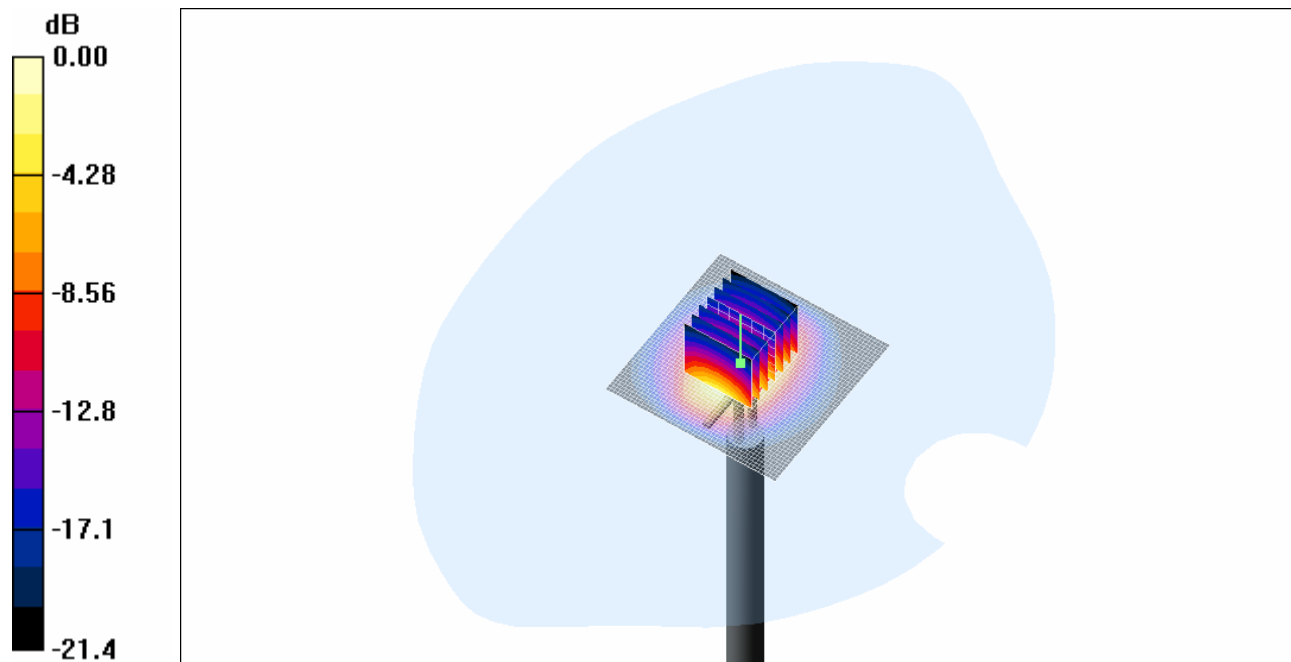
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.1 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 31.7 W/kg

**SAR(1 g) = 14.2 mW/g; SAR(10 g) = 6.6 mW/g**

Maximum value of SAR (measured) = 16.0 mW/g



0 dB = 16.0mW/g

**SAR MEASUREMENT PLOT 20**

Ambient Temperature

21.6 Degrees Celsius

Liquid Temperature

21.0 Degrees Celsius

Humidity

43.0 %

Test Date: 19 June 2007

File Name: Validation 2450 MHz (DAE442 Probe1380) 19-06-07.da4

DUT: Dipole 2450 MHz; Type: DV2450V2; Serial: 724

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

\* Medium parameters used:  $\sigma = 1.79642$  mho/m,  $\epsilon_r = 40.2415$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.32, 4.32, 4.32)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 19.3 mW/g

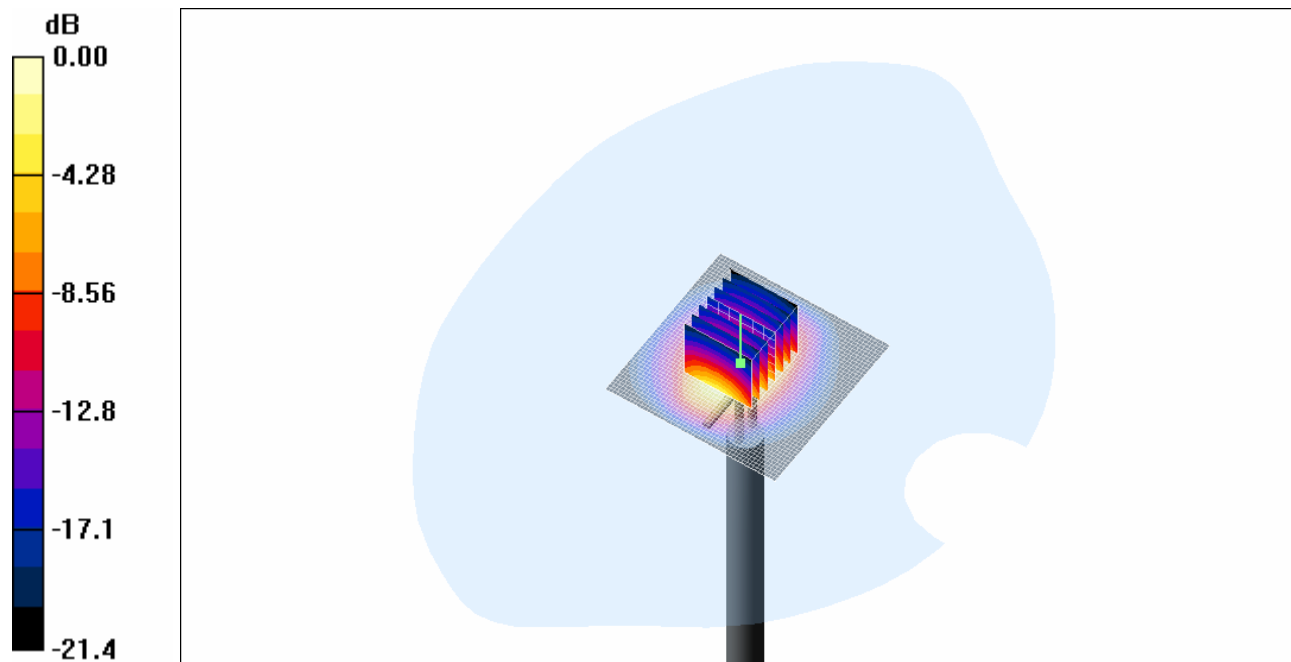
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.3 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 30.5 W/kg

**SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.39 mW/g**

Maximum value of SAR (measured) = 15.4 mW/g



0 dB = 15.4mW/g

**SAR MEASUREMENT PLOT 21**

Ambient Temperature

21.8 Degrees Celsius

Liquid Temperature

21.2 Degrees Celsius

Humidity

36.0 %



