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Company Internal  
REPORT

No.

LD/SEMC/CCDALE *Ramadan Plicanic*

CCDA09:439

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Reference

LD/SEMC/CCDA *Mats Hansson*

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**Report issued by Accredited SAR Laboratory****for****FCC ID: PY7A3880053 (J105a)****Date of test:** July 16<sup>th</sup> – July 22<sup>th</sup>, 2008**Laboratory:** Sony Ericsson SAR Test Laboratory  
Sony Ericsson Mobile Communications AB  
Nya Vattentornet  
SE-221 82 LUND, Sweden**Testing Engineer:** Ramadan Plicanic  
[Ramadan.Plicanic@sonyericsson.com](mailto:Ramadan.Plicanic@sonyericsson.com)  
+46 46 19 38 62*Ramadan Plicanic***Testing Approval:** Mats Hansson  
[Mats.Hansson@sonyericsson.com](mailto:Mats.Hansson@sonyericsson.com)  
+46 10 80 23357**Statement of Compliance**

Sony Ericsson Mobile Communications AB declares under its sole responsibility that the product

***Sony Ericsson Type AAD-3880053-BV; FCC ID PY7A3880053; IC 4170B-A3880053***

to which this declaration relates, is in conformity with the appropriate RF exposure standards recommendations and guidelines. It also declares that the product was tested in accordance with the appropriate measurement standards, guidelines and recommended practices. Any deviations from these standards, guidelines and recommended practices are noted below:

(None)

This laboratory is accredited to ISO/IEC 17025 (SWEDAC accreditation no. 1847).



Laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) under the terms of Swedish legislation. The accredited laboratory activities meet the requirements in SS-EN ISO/IEC 17025 (2005). This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

The results and statements contained herein relate only to the items tested. The names of individuals involved may be mentioned only in connection with the statements or results from this report.

Sony Ericsson encourages all feedback, both positive and negative, on this report.

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090727

A

File

## Table of contents

<b>1</b>	<b>INTRODUCTION.....</b>	<b>3</b>
<b>2</b>	<b>CUSTOMER DETAILS.....</b>	<b>3</b>
<b>3</b>	<b>DEVICE UNDER TEST.....</b>	<b>3</b>
3.1	ANTENNA DESCRIPTION.....	3
3.2	DEVICE DESCRIPTION .....	4
<b>4</b>	<b>TEST EQUIPMENT.....</b>	<b>5</b>
4.1	DOSIMETRIC SYSTEM .....	5
4.2	ADDITIONAL EQUIPMENT .....	5
<b>5</b>	<b>ELECTRICAL PARAMETERS ON THE TISSUE SIMULATING LIQUID .....</b>	<b>6</b>
<b>6</b>	<b>SYSTEM ACCURACY VERIFICATION.....</b>	<b>6</b>
<b>7</b>	<b>SAR MEASUREMENT UNCERTAINTY .....</b>	<b>7</b>
<b>8</b>	<b>TEST RESULTS .....</b>	<b>8</b>
<b>9</b>	<b>REFERENCES.....</b>	<b>12</b>
<b>10</b>	<b>APPENDIX.....</b>	<b>13</b>
10.1	PHOTOGRAPHS OF THE DEVICE UNDER TEST .....	13
10.2	DEVICE POSITION AT SAM TWIN PHANTOM .....	15
10.3	ATTACHMENTS.....	17

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## 1 Introduction

In this test report, compliance of the Sony Ericsson PY7A3880053 (J105a) portable telephone with RF safety guidelines is demonstrated. The applicable RF safety guidelines and the SAR measurement specifications used for the test are described in the SAR Measurement Specifications of Wireless Handsets [1].

## 2 Customer details

<b>Company Name:</b>	Sony Ericsson Mobile Communications AB
<b>Address:</b>	Sony Ericsson Mobile Beijing, China
<b>Contact Name:</b>	Jacky Liu

## 3 Device Under Test

### 3.1 Antenna Description

<b>Main Antenna Type</b>	Internal antenna	
<b>Location</b>	Rear at bottom	
<b>Main and BT antennas distance</b>	22 mm	
<b>Dimensions of main antenna</b>	Max length	15 mm
	Max width	43 mm
<b>Configuration</b>	IFA + coupling	

### 3.2 Device Description

<b>Device model</b>	PY7A3880053					
<b>Market name</b>	J105a					
<b>Serial number (EUT #)</b>	BX900P8SX8 (#15811)					
<b>Mode</b>	GSM 1900			GSM 850		
<b>Crest factor</b>	8.3			8.3		
<b>Multiple access scheme</b>	TDMA			TDMA		
<b>Channel No.</b>	512	661	810	128	190	251
<b>Maximum output power setting<sup>1</sup> [dBm]</b>	29.7	29.7	29.7	33.0	33.0	33.0
<b>Factory tolerance in power setting<sup>1</sup></b>	±0.5 dB			±0.5 dB		
<b>Maximum peak output power<sup>1</sup> [dBm]</b>	30.2	30.2	30.2	33.5	33.5	33.5
<b>Data mode</b>	GPRS			GPRS		
<b>Crest factor</b>	4.15			4.15		
<b>Maximum output power setting<sup>1</sup> [dBm]</b>	27.5	27.5	27.5	30.5	30.5	30.5
<b>Factory tolerance in power setting<sup>1</sup></b>	±0.5 dB			±0.5 dB		
<b>Maximum peak output power<sup>1</sup> [dBm]</b>	28.0	28.0	28.0	31.0	31.0	31.0
<b>Data mode</b>	EDGE			EDGE		
<b>Crest factor</b>	4.15			4.15		
<b>Maximum output power setting<sup>1</sup> [dBm]</b>	26.5	26.5	26.5	27.5	27.5	27.5
<b>Factory tolerance in power setting<sup>1</sup></b>	±0.5 dB			±0.5 dB		
<b>Maximum peak output power<sup>1</sup> [dBm]</b>	27.0	27.0	27.0	28.0	28.0	28.0
<b>Transmitting frequency range [MHz]</b>	1850.2 - 1909.8			824.2 - 848.8		
<b>GPRS Multi slot class</b>	10					
<b>EDGE class</b>	10					
<b>GPRS Capability class</b>	B					
<b>BT class and conducted power</b>	Class 1, P=2.8mW					
<b>Prototype or production unit</b>	Preproduction					
<b>Hardware version</b>	AP2					
<b>Software version</b>	R1FA018					
<b>Device category</b>	Portable					
<b>RF exposure environment</b>	General population / uncontrolled					

<b>Mode</b>	<b>UMTS band 5</b>			<b>UMTS band 2</b>		
<b>Multiple Access Scheme</b>	CDMA			CDMA		
<b>Transmitting Frequency Range(MHz)</b>	826.4-846.6			1852.4 - 1907.6		
<b>Output Power Setting<sup>1</sup> (dBm)</b>	Ch4132	Ch4183	Ch4233	Ch9262	Ch9400	Ch9538
<b>CS( RMC 12.2, <math>\beta_c=8</math>, <math>\beta_d=15</math>)/</b>	24/	23.9/	24.0/	22.4/	22.3/	22.4/
<b>HS, FCC(RMC 12.2, <math>\beta_c=9</math>, <math>\beta_d=15</math>, <math>\Delta_{ACK}=5</math>, <math>\Delta_{NACK}=5</math>, <math>\Delta_{CQI}=2</math>)</b>	23.7	23.6	23.6	22.2	22.2	22.3
<b>Factory Tolerance in Power Setting</b>	±0.5dB			±0.5dB		
<b>Maximum (1524) Output Power (dBm)</b>	24.0	24.0	24.0	22.5	22.5	22.5
<b>Crest Factor</b>	1			1		

<sup>1</sup> Output power values were supplied by the customer.

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090728

090727

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## 4 Test equipment

### 4.1 Dosimetric system

SAR measurements were made using the DASY4 professional system (software version 4.7, Build 53) with SAM twin phantom, manufactured by Schmid & Partner Engineering AG (SPEAG). The list of calibrated equipment is given below.

Description	Serial Number	Due Date
DASY4 DAE	428	01 2010
E-field probe ET3DV6	1569	01 2010
Dipole Validation Kit, D835V2	4d039	01 2010
Dipole Validation Kit, D1900V2	5d002	01 2010

### 4.2 Additional equipment

Description	Inventory Number	Due Date
Signal generator hp D4000A	483972	03 2010
Directional coupler HP778D	39656	032010
Power meter R&S NRVD	20007668	032010
Power sensor R&S NRV-Z5	20007671	032010
Power sensor R&S NRV-Z5	20007670	032010
Network analyzer hp 8753	421671	032010
Dielectric probe kit HP85070D	20000053	Self. cal
R&S CMU200	20002149	032010
Termometer Fluke 51	INV 2071	03 2009

## 5 Electrical parameters on the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity,  $\epsilon_r$ , and the conductivity  $\sigma$ , of the tissue simulating liquids were measured with the dielectric probe kit. These values are shown in the table below. The mass density,  $\rho$ , entered into the DASY4 software is also given. Recommended limits for permittivity  $\epsilon_r$ , conductivity  $\sigma$  and mass density  $\rho$  are also shown.

f [MHz]	Tissue type	Measured / Recommended	Dielectric Parameters		Density
			$\epsilon_r$	$\sigma$ [S/m]	$\rho$ [g/cm <sup>3</sup> ]
835	Head	Measured, 16 July 2009	40.9	0.87	1.00
		Recommended	41.5	0.90	1.00
835	Body	Measured, 22 July 2009	53.7	0.97	1.00
		Recommended	55.2	0.97	1.00
1900	Head	Measured, 17 July 2009	38.8	1.45	1.00
		Recommended	40.0	1.40	1.00
1900	Body	Measured, 21 July 2009	53.6	1.59	1.00
		Recommended	53.3	1.52	1.00

## 6 System accuracy verification

A system accuracy verification of the DASY4 was performed using the dipole validation kit listed in section 3.1. The system verification test was conducted on the same day as the measurement of the DUT. The measurements were made at an ambient temperature of 20.0-25.0 °C and humidity 30-70 %. The obtained results are displayed in the table below.

RF noise had been measured in liquid when all RF equipment in lab was switched off. Measured value was 0.00015 mW/g in 1g mass.

f [MHz]	Tissue type	Measured / Reference	SAR [W/kg] 1g / 10g	Dielectric Parameters		Density	Liquid T [°C]
				$\epsilon_r$	$\sigma$ [S/m]	$\rho$ [g/cm <sup>3</sup> ]	
835	Head	Measured, 16 July 2009	10.0 / 6.59	40.9	0.87	1.00	22.0
		Reference	9.68 / 6.38	41.5	0.9	1.00	22.0
835	Body	Measured, 22 July 2009	10.1 / 6.63	53.7	0.97	1.00	22.4
		Reference	9.41 / 6.25	55.2	0.97	1.00	22.0
1900	Head	Measured, 17 July 2009	37.5 / 19.7	38.8	1.45	1.00	22.4
		Reference	39.9 / 20.9	40.0	1.4	1.00	22.0
1900	Body	Measured, 21 July 2009	39.7 / 21.0	53.6	1.59	1.00	22.0
		Reference	41.5 / 22.1	53.3	1.52	1.00	22.0

## 7 SAR measurement uncertainty

### *SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880053 (J105a) phone According to IEEE 1528*

Uncertainty Component	Uncer. (%)	Prob Dist.	Div.	C <sub>i</sub>	1g mass
<b>Measurement System</b>					
Probe Calibration	±5.9	N	1	1	±5.9
Axial Isotropy	±4.7	R	√3	0.7	±1.9
Spherical Isotropy	±9.6	R	√3	0.7	±3.9
Boundary effect	±1.0	R	√3	1	±0.6
Probe linearity	±4.7	R	√3	1	±2.7
Detection limit	±1.0	R	√3	1	±0.6
Readout electronics	±0.3	N	1	1	±0.3
Response time	±0.8	R	√3	1	±0.5
Integration time	±2.6	R	√3	1	±1.5
RF Ambient Conditions	±3.0	R	√3	1	±1.7
Mech. Constraints of robot	±0.4	R	√3	1	±0.2
Probe positioning	±2.9	R	√3	1	±1.7
Extrap., interpolation and integration	±1.0	R	√3	1	±0.6
<b>Measurement System Uncertainty</b>					±8.4
<b>Test Sample Related</b>					
Device positioning	±3.5	N	1	1	±3.5
Device holder uncertainty	±3.5	N	1	1	±3.5
Power drift	±5.0	R	√3	1	±2.9
<b>Test Sample Related Uncertainty</b>					±5.5
<b>Phantom and Tissue Parameters</b>					
Phantom uncertainty	±4.0	R	√3	1	±2.3
Liquid conductivity (measured)	±2.5	R	1	0.64	±1.6
Liquid conductivity (target)	±5.0	R	√3	0.64	±1.8
Liquid Permittivity (measured)	±2.5	R	1	0.6	±1.5
Liquid Permittivity (target)	±5.0	R	√3	0.6	±1.7
<b>Phantom and Tissue Parameters Uncertainty</b>					±4.1
<b>Combined standard uncertainty</b>					±10.8
<b>Extended standard uncertainty (k=2)</b>					±21.6

## 8 Test results

### 8.1 GSM band

The ambient humidity and temperature of test facility were 30-70% and 20.0-25.0°C respectively. A base station simulator was used to control the device during the SAR measurement. The DUT was supplied with a fully charged battery for each measurement.

For head measurement, the DUT was tested on the right-hand side, and the left-hand side of the phantom in two phone positions, cheek (touch) and tilt (cheek + 15°). The DUT was tested at the lowest, middle and highest frequencies in the transmission band. The measured 1-gram averaged SAR values of the DUT towards the head are provided in Table 1.

For body measurement the DUT was tested with the back (antenna) and front(display) towards the phantom flat section with 15 mm distance in both speech and data mode. For all modes, the device was tested at the lowest, middle and highest frequencies in the transmission band. For portable hands free (PHF) usage the Sony Ericsson head set HPB-60 was connected to the DUT and for Bluetooth (BT) the DUT was paired with Sony Ericsson HBH-60. The measured 1-gram averaged SAR values of the DUT towards the body are provided in Table 2.

Band	Channel	Measured output power <sup>2</sup> [dBm]	Position	Liquid T [°C]	Measured SAR [W/kg]	
					Right-hand 1g mass	Left-hand 1g mass
GSM 850	128	33.5	Cheek	22.0	0.80	0.75
	190	33.4	Cheek	22.0	0.59	0.56
			Tilt	22.0	0.27	0.27
251	33.4	Cheek	22.0	<b>0.98</b>	0.91	
GSM 1900	512	30.5	Cheek	22.3	<b>1.29</b>	0.89
	661	30.3	Cheek	22.3	1.27	0.92
			Tilt	22.3	0.20	0.20
810	30.3	Cheek	22.3	0.99	0.68	

**Table 1: SAR measurement result for Sony Ericsson PY7A3880053 telephone at highest possible output power. Measured towards the head.**

<sup>2</sup> Measured output values were provided by the customer.



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Band	Channel	Measured output power <sup>3</sup> [dBm]	Position / Mode	Liquid T [°C]	Measured SAR [W/kg] 1g mass
GSM 850	128	31.0	Rear / GPRS	22.0	0.70
		33.5	Rear / PHF	22.0	0.67
	190	30.9	Rear / GPRS	22.0	0.77
		33.4	Rear/PHF	22.0	0.79
	251	31.0	Rear / GPRS	22.0	<b>0.94</b>
		28.0	Rear / EDGE	22.0	0.52
		30.9	Front/GPRS	22.0	0.61
		33.4	Rear/ PHF	22.0	<b>1.00</b>
GSM 1900	512	28.0	Rear / GPRS	22.4	<b>0.74</b>
		28.0	Front / GPRS	22.4	0.48
		27.0	Rear / EDGE	22.4	0.56
		30.1	Rear/PHF	22.4	0.41
		30.1	Rear / BT	22.4	0.51
	661	27.9	Rear / GPRS	22.4	0.70
		30.1	Rear / BT	22.4	<b>0.60</b>
	810	27.9	Rear / GPRS	22.4	0.59
		30.2	Rear / BT	22.4	0.51

**Table 2: SAR measurement result for Sony Ericsson PY7A3880053 telephone at highest possible output power. Measured towards the body.**

<sup>3</sup> Measured output values were provided by the customer.



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090728

090727

A

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## 8.2 UMTS band

The conducted power of the device was confirmed in two UMTS circuit switched modes (RMC and Voice) and four HSDPA modes. A CMU-200 was used to establish the call processing and modulation settings and an RF power meter was used for measurement. For all HSDPA measurements, the following settings were applied:

H-SET3 QPSK

CQI feedback=2msec

$\Delta\text{ACK} = \Delta\text{NACK} = \Delta\text{CQI} = 8$

The results (including relevant CMU settings) are presented in the following table:

CB510PGD9A					1852,4	1880	1907,6	826,4	836,4	846,6
	$\beta_c$	$\beta_d$	$\Delta\text{HS}$	max->	Band 2			Band 5		
					22,5	22,5	22,5	24	24	24
CS - RMC	8	15	-		22.3	22.3	22.5	23.9	23.9	23.7
CS - voice	8	15	-		22.4	22.4	22.5	23.9	23.9	23.7
HSDPA - 1	2	15	8		22.3	22.3	22.4	23.9	23.8	23.8
HSDPA - 2	12	15	8		21.9	22.1	21.9	23.7	23.6	23.6
HSDPA - 3	15	8	8		21.1	21.2	21.1	22.8	23.0	22.9
HSDPA - 4	15	4	8		20.2	20.2	20.3	22.1	22.0	21.9

The measured 1-gram averaged SAR values of the device against head and body are provided in tables 3 and 4. For head and body measurement, the unit was measured in the following (CS) voice modes:

RMC=12.2,  $\beta_c=8$ ,  $\beta_d=15$

For body measurement, the unit was measured according FCC guidance with following HSDPA settings:

RMC=12.2,  $\beta_c=9$ ,  $\beta_d=15$ ,  $\Delta\text{ACK}=5$ ,  $\Delta\text{NACK}=5$ ,  $\Delta\text{CQI}=2$

The ambient humidity and temperature of test facility were 55%-61% and 21.5°C–23.0°C respectively. The depth of tissue simulating liquid for head and body were 15.4cm and 15.6cm. A base station simulator was used to control the device during the SAR measurement. The phone was supplied with full-charged battery for each measurement.

For head measurement, the device was tested on the right-hand phantom (corresponding to the right side of the head) and the left-hand phantom in two phone position, cheek (touch) and tilt (cheek + 15deg) open and close in (CS) voice mode.

For body measurement phone was tested on the antenna (rear) and front (the worst case) against flat section of phantom with 15mm distance in (CS) voice mode. The device was tested at the lowest, middle and highest frequencies in the transmit band. For Hands free used Sony Ericsson portable head set HPH-60 or BT hands free HBH-610a.

**NOTE:** None of the HSDPA settings leads to conducted power values exceeding the conducted power in RMC mode by more than 0.25 dB.

No additional SAR measurements are required for those test modes.



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Mode	Channel	Power (dB)	Phone Position	Liquid t (°C)	SAR (W/kg)	
					Right-hand 1g mass	Left-hand 1g mass
UMTS Band 2	9262	22.4	Cheek	22.4	1.29	1.14
	9400	22.3	Cheek	22.4	1.05	0.97
			Tilt	22.4	0.25	0.23
9538	22.4	Cheek	22.4	1.14	1.06	
UMTS band 5	4132	24.0	Cheek	22.0	1.08	0.94
	4183	23.9	Cheek	22.0	0.89	0.84
			Tilt	22.0	0.35	0.36
4233	24	Cheek	22.0	1.21	1.05	

Table3: SAR measurement result UMTS bands for Sony Ericsson PY7A3880053 telephone at highest possible output power. The phone has measured against the head.

Mode	Channel	Power (dBm)	Phone Position	Liquid t (°C)	SAR (W/kg) in 1 g mass
UMTS Band 2	9262	22.4	Antenna to phantom, Voice(CS),PHF	22.0	0.62
		22.4	Antenna to phantom, Voice(CS),BT	22.0	0.71
	9400	22.3	Antenna to phantom, Voice(CS),BT	22.0	0.70
		22.4	Antenna to phantom, Voice(CS),BT	22.0	0.80
			Front to phantom, Voice(CS),BT	22.0	0.50
UMTS Band 5	4132	24.0	Antenna to phantom, Voice(CS),BT	22.4	0.91
	4183	23.9	Antenna to phantom, Voice(CS),BT	22.4	0.87
			24.0	Antenna to phantom, Voice(CS),BT	22.4
	4233	24.0	Antenna to phantom, Voice(CS),PHF	22.4	0.96
		24.0	Front to phantom, Voice(CS),BT	22.4	0.70

Table4: SAR measurement result UMTS bands for Sony Ericsson PY7A3880053 telephone at highest possible output power. The phone has measured against the Body.

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A

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- [ 1 ] R.Plicanic. "SAR Measurement Specification of Wireless Handsets". Sony Ericsson SAR Test Laboratory internal document GUG/N 03:141
- [ 2 ] FCC. "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields: Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radio Frequency Emissions." Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97- 01).
- [ 3 ] IEEE. "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques." Std 1528-2003. June. 2003.
- [ 4 ] IEC 62209-1. "Procedure to measure the Specific Absorption Rate (SAR) for hand-held mobile wireless devices in the frequency range of 300 MHz to 3 GHz". February 2005.
- [ 5 ] FCC KDB248227. "SAR Measurement procedure for 802.11a/b/g Transmitters", May 2007.
- [ 6 ] FCC KDB648474. "SAR Evaluation Consideration for HANDSETS with Multiple Transmitters and Antenna", April 2008.

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**10.3 Attachments**

- System validation
- Measurement plots for head and body position
- Probe calibration
- Dipole calibration

Date/Time: 2009-07-22 11:19:38

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Data\\_2TS\\_GSM850\\_090722\\_RP.da4](#)

**DUT: PY7A3880053 (J105a); Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Body**

Communication System: GSM850 GPRS2TX; Frequency: 848.8 MHz; Duty Cycle: 1:4.15  
 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.989$  mho/m;  $\epsilon_r = 53.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.22, 6.22, 6.22); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**FF+15mm, GPRS 2TS, High/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.650 mW/g

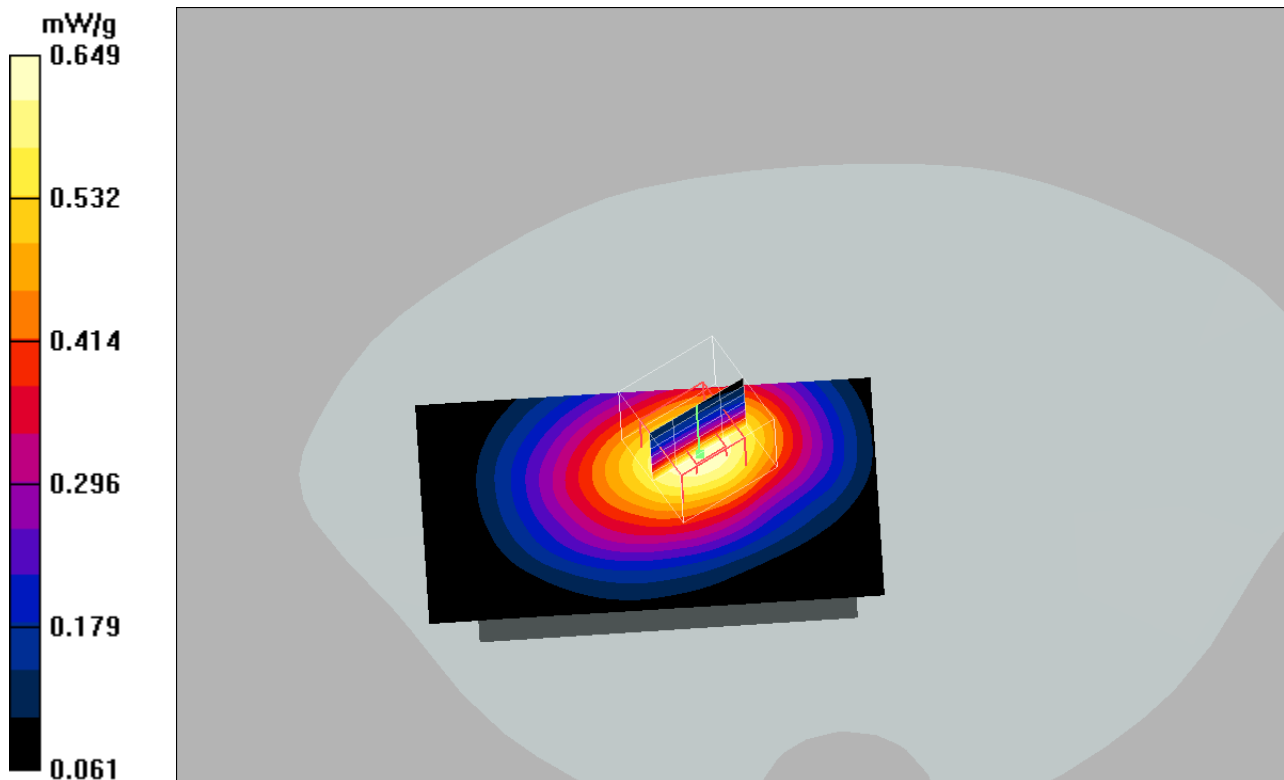
**FF+15mm, GPRS 2TS, High/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.3 V/m; Power Drift = 0.077 dB

Peak SAR (extrapolated) = 0.814 W/kg

**SAR(1 g) = 0.606 mW/g; SAR(10 g) = 0.424 mW/g**

Maximum value of SAR (measured) = 0.649 mW/g



Date/Time: 2009-07-17 10:45:48

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement\\_1900MHz\\_Head\\_090717.da4](#)**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d002****Program Name: Verification Measurement on 1900MHz with HSL**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.99, 4.99, 4.99); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**P=100mW, 10mm distance/Area Scan (61x101x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 4.15 mW/g

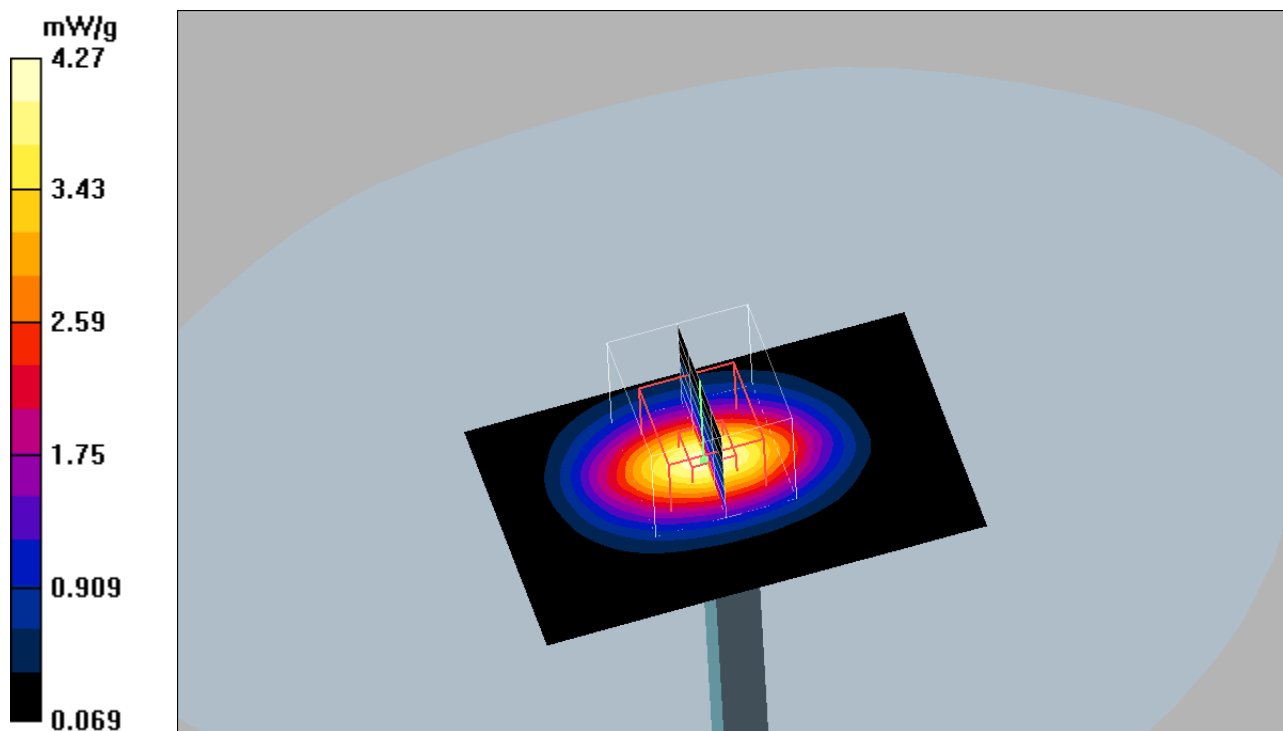
**P=100mW, 10mm distance/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 51.9 V/m; Power Drift = 0.109 dB

Peak SAR (extrapolated) = 6.33 W/kg

**SAR(1 g) = 3.75 mW/g; SAR(10 g) = 1.97 mW/g**

Maximum value of SAR (measured) = 4.27 mW/g



Date/Time: 2009-07-16 10:24:35

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement 835MHz Head\\_090716.da4](#)**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d039****Program Name: Verification Measurement on 835MHz with HSL**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 835 \text{ MHz}$ ;  $\sigma = 0.873 \text{ mho/m}$ ;  $\epsilon_r = 40.9$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.36, 6.36, 6.36); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**P=100mW, 15mm distance/Area Scan (61x101x1):** Measurement grid: dx=10mm, dy=10mm

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

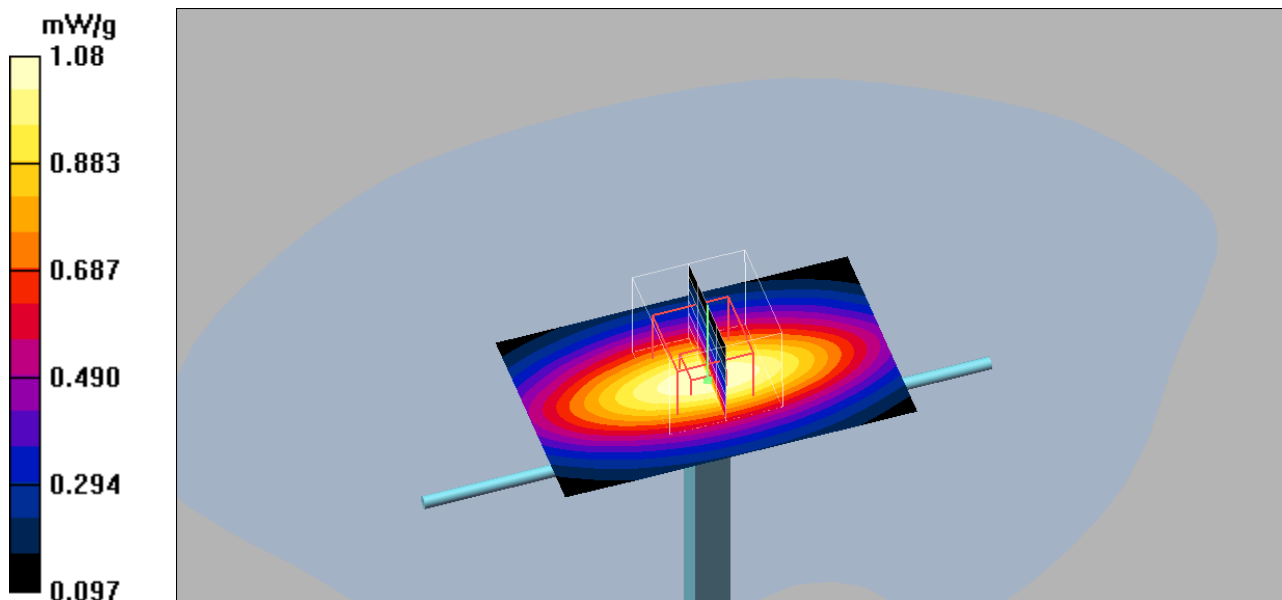
**P=100mW, 15mm distance/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 36.3 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 1 mW/g; SAR(10 g) = 0.659 mW/g**

Maximum value of SAR (measured) = 1.08 mW/g





Date/Time: 2009-07-22 09:36:59

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement\\_835MHz\\_Body\\_090722.da4](#)**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d039****Program Name: Verification Measurement on 835MHz with BSL**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 53.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.22, 6.22, 6.22); Calibrated: 2009-01-12

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn428; Calibrated: 2009-01-09

- Phantom: SAM 6; Type: SAM; Serial: 1351

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**P=100mW, 15mm distance/Area Scan (61x101x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.07 mW/g

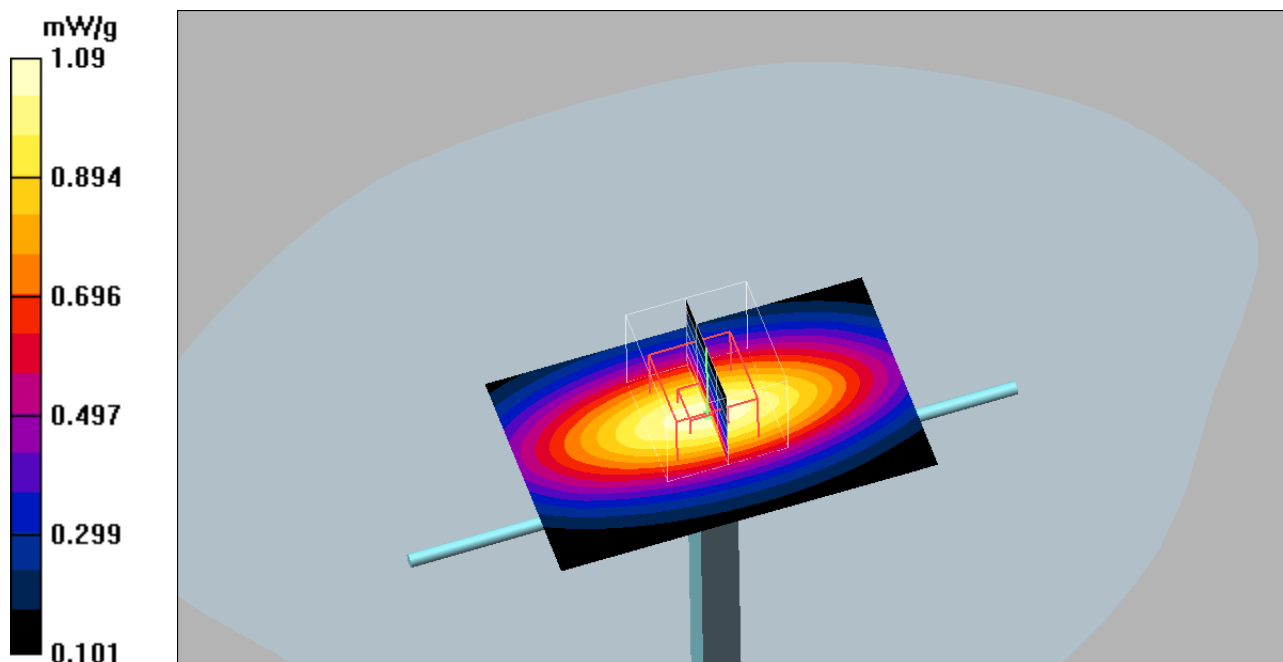
**P=100mW, 15mm distance/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.1 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.663 mW/g**

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



Date/Time: 2009-07-22 16:16:51

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Speech\\_Body\\_UMTS5\\_090722\\_RP.da4](#)

**DUT: PY7A3880053 (J105a); Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Body**

Communication System: UMTS\_band5; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.967$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.22, 6.22, 6.22); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**15mm, Speech, BT, Low/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.968 mW/g

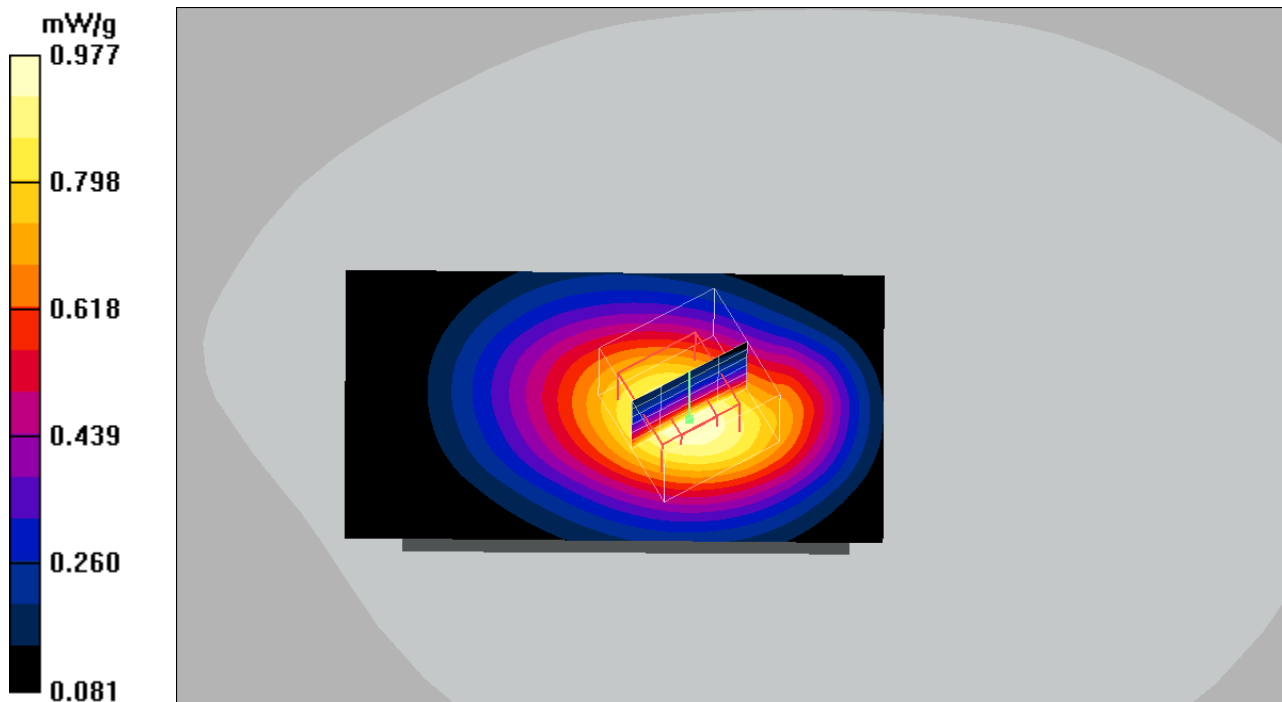
**15mm, Speech, BT, Low/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.1 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 1.24 W/kg

**SAR(1 g) = 0.911 mW/g; SAR(10 g) = 0.630 mW/g**

Maximum value of SAR (measured) = 0.977 mW/g



Date/Time: 2009-07-21 14:05:00

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Speech\\_Body\\_UMTS2\\_090721\\_RP.da4](#)

**DUT: PY7A3880053 (J105a); Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Body**

Communication System: UMTS\_band2; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.6$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.42, 4.42, 4.42); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**15mm, Speech, BT, High/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (interpolated) = 0.873 mW/g

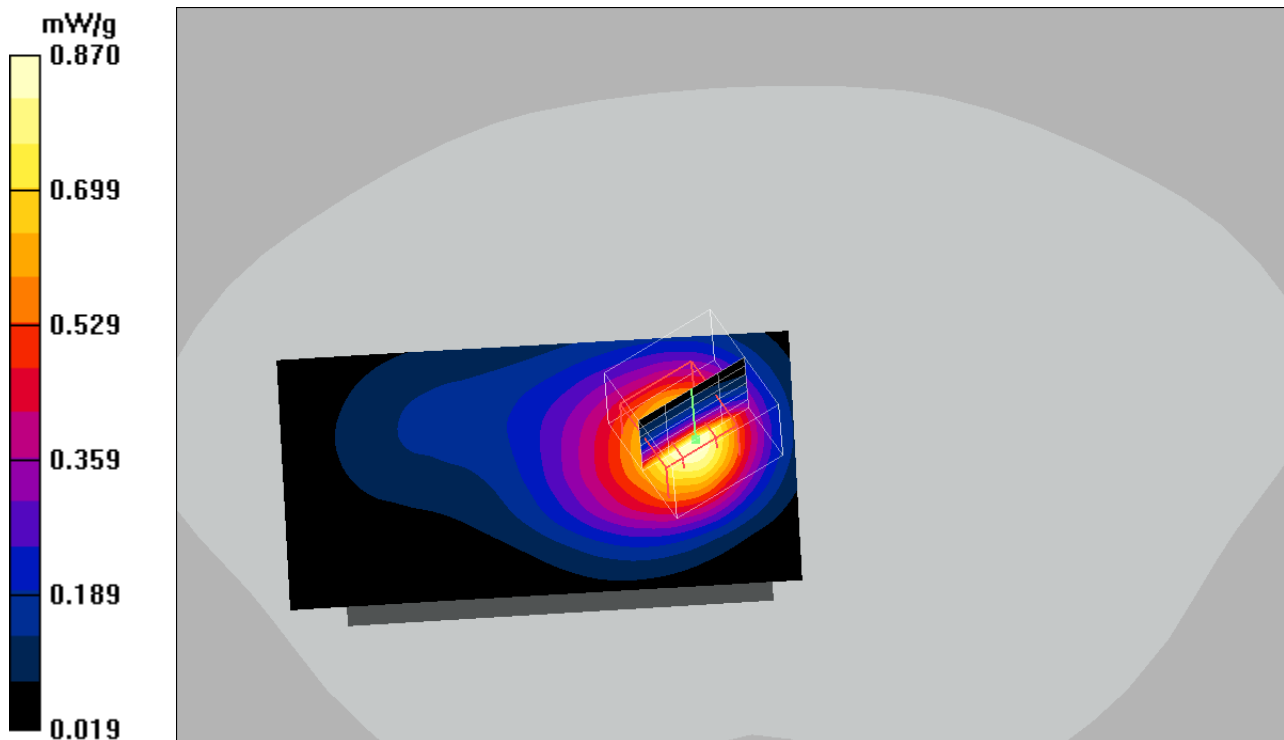
**15mm, Speech, BT, High/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.6 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 1.28 W/kg

**SAR(1 g) = 0.795 mW/g; SAR(10 g) = 0.471 mW/g**

Maximum value of SAR (measured) = 0.870 mW/g



Date/Time: 2009-07-21 11:49:32

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Speech\\_Body\\_GSM1900\\_090721\\_RP.da4](#)

**DUT: PY7A3880053 (J105a); Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Body**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.52$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.42, 4.42, 4.42); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**15mm, Speech,BT, Low/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.554 mW/g

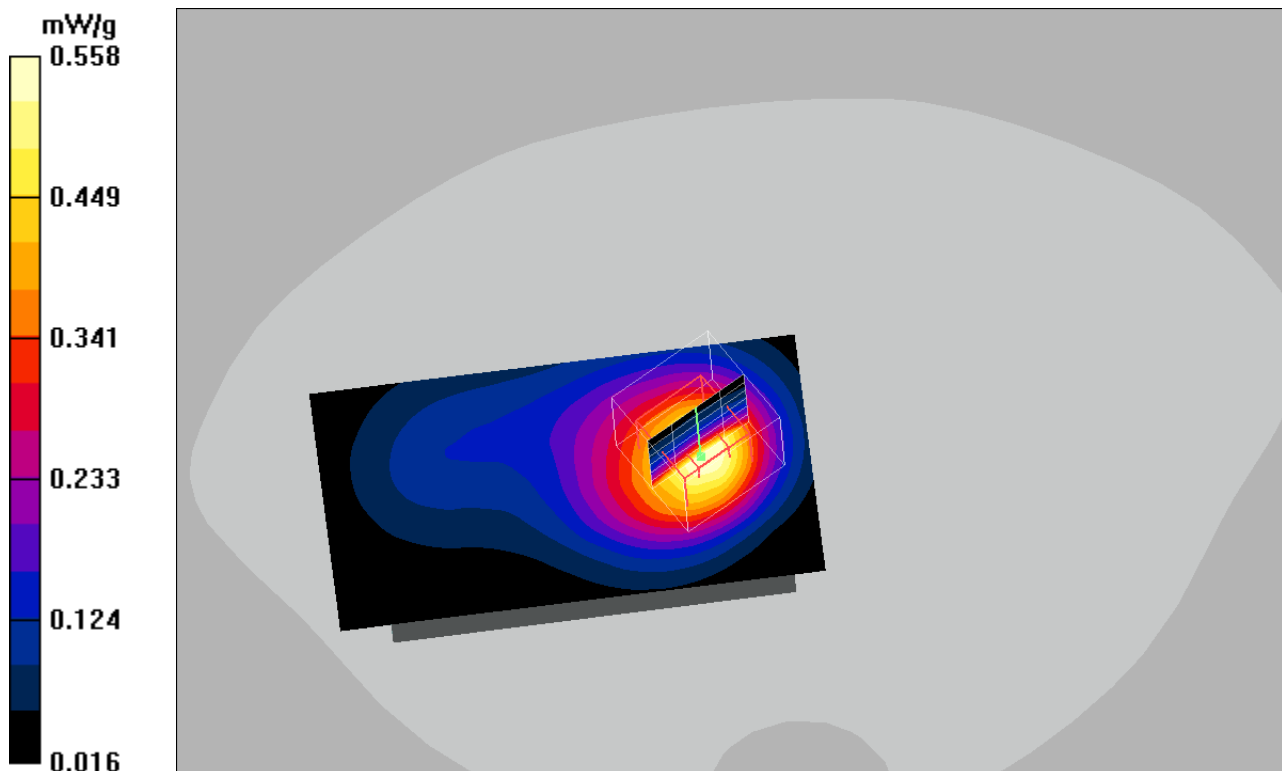
**15mm, Speech,BT, Low/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.8 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.789 W/kg

**SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.311 mW/g**

Maximum value of SAR (measured) = 0.558 mW/g



Date/Time: 2009-07-22 13:54:05

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Speech\\_Body\\_GSM850\\_090722\\_RP.da4](#)

**DUT: PY7A3880053 (J105a); Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Body**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3  
 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.989$  mho/m;  $\epsilon_r = 53.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.22, 6.22, 6.22); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**15mm, Speech, BT, High/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.04 mW/g

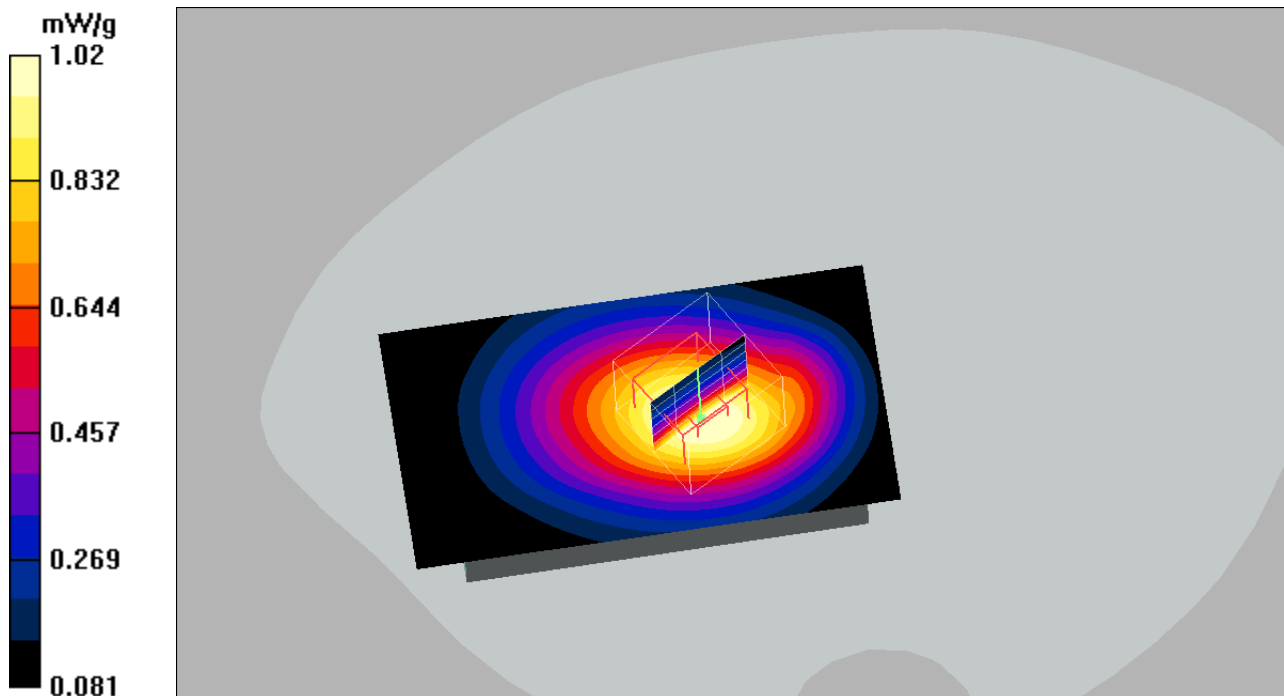
**15mm, Speech, BT, High/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.2 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.32 W/kg

**SAR(1 g) = 0.962 mW/g; SAR(10 g) = 0.667 mW/g**

Maximum value of SAR (measured) = 1.02 mW/g



Date/Time: 2009-07-22 16:36:19

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Speech\\_Body\\_UMTS5\\_090722\\_RP.da4](#)

**DUT: PY7A3880053 (J105a); Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Body**

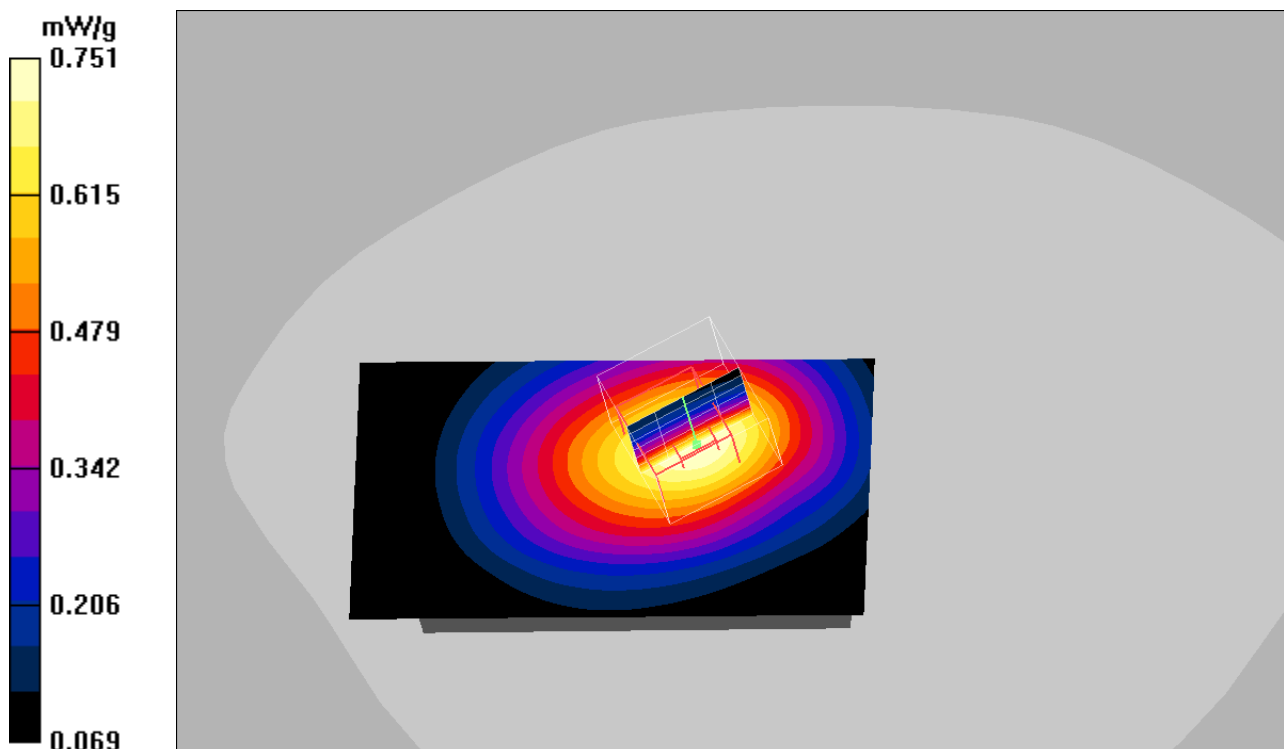
Communication System: UMTS\_band5; Frequency: 846.6 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.99$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.22, 6.22, 6.22); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**15mm, Speech, BT,High Front/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (interpolated) = 0.752 mW/g

**15mm, Speech, BT,High Front/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 17.7 V/m; Power Drift = 0.082 dB  
 Peak SAR (extrapolated) = 0.940 W/kg  
**SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.492 mW/g**  
 Maximum value of SAR (measured) = 0.751 mW/g



Date/Time: 2009-07-21 15:26:54

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Speech\\_Body\\_UMTS2\\_090721\\_RP.da4](#)

**DUT: PY7A3880053 (J105a); Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Body**

Communication System: UMTS\_band2; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.6$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.42, 4.42, 4.42); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**15mm, Speech, BT, High front/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.547 mW/g

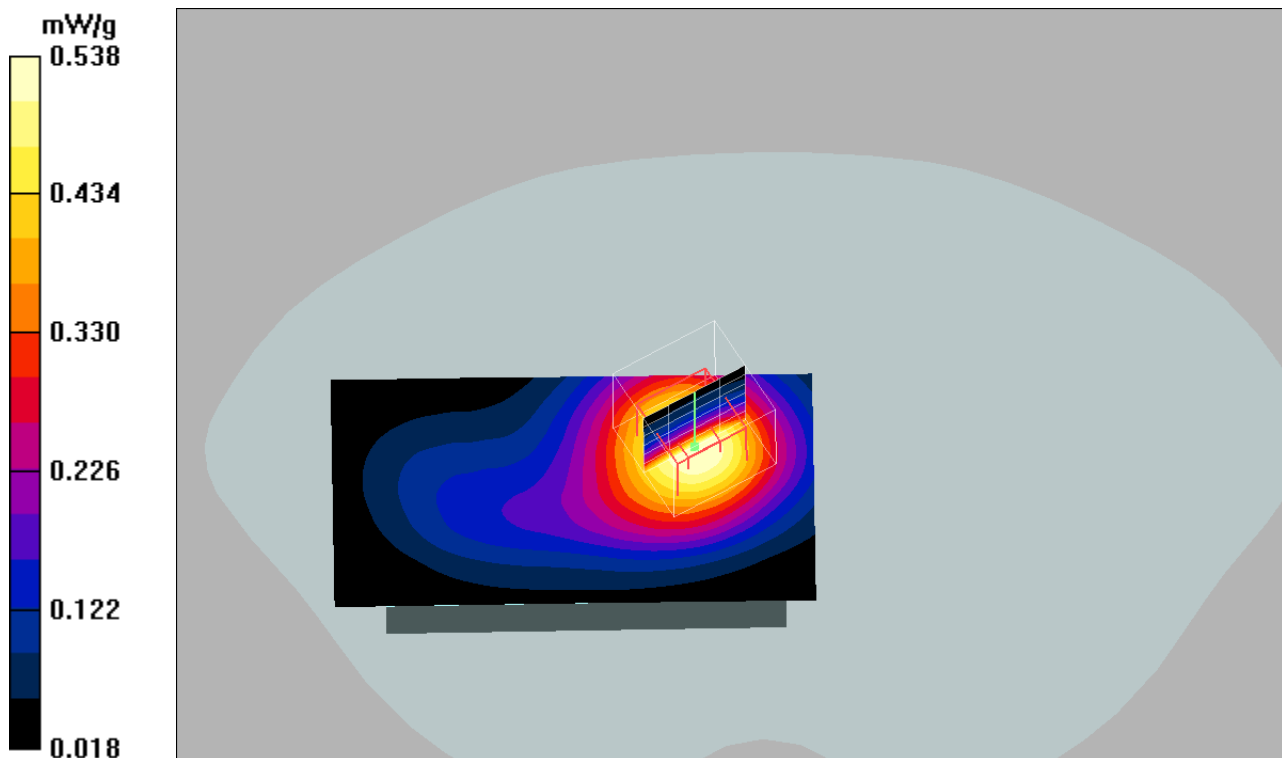
**15mm, Speech, BT, High front/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.1 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 0.753 W/kg

**SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.316 mW/g**

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



Date/Time: 2009-07-16 15:51:09

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Rigt\\_UMTS5\\_090716\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: UMTS\_band5; Frequency: 836.6 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.875$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.36, 6.36, 6.36); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Right Tilt Middle/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.375 mW/g

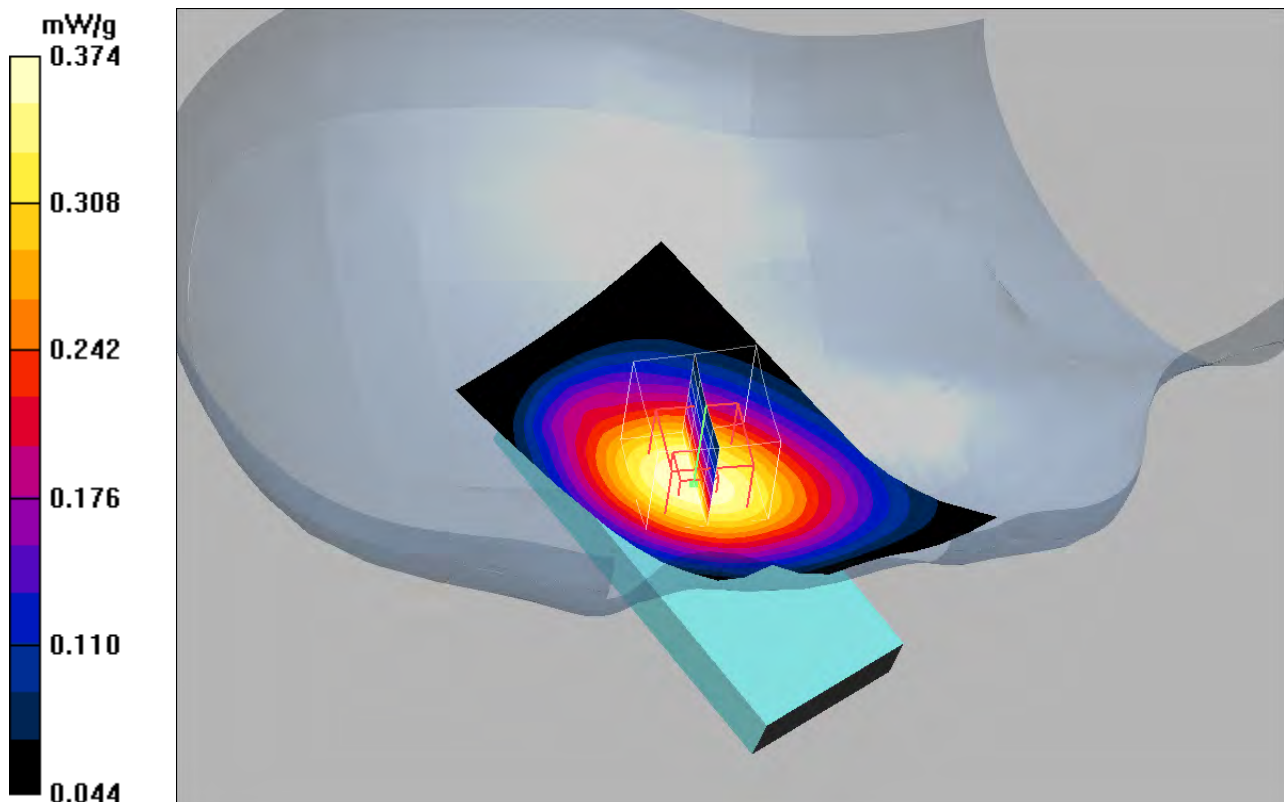
**Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.447 W/kg

**SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.261 mW/g**

Maximum value of SAR (measured) = 0.374 mW/g





Date/Time: 2009-07-17 11:30:16

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Rigt\\_GSM1900\\_090717\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.99, 4.99, 4.99); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Right Tilt Middle/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (interpolated) = 0.220 mW/g

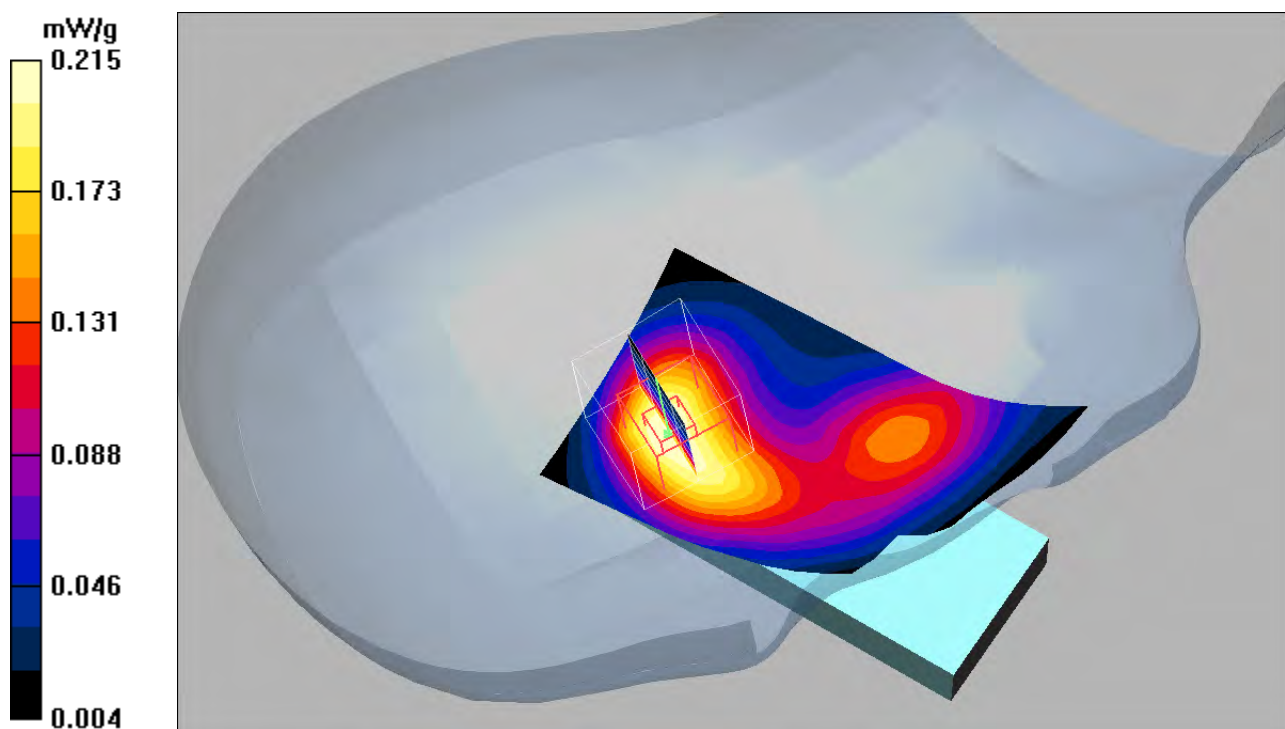
**Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.300 W/kg

**SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.125 mW/g**

Maximum value of SAR (measured) = 0.215 mW/g



Date/Time: 2009-07-16 16:08:43

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Rigt\\_UMTS5\\_090716\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: UMTS\_band5; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.884$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.36, 6.36, 6.36); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Right Cheek High/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.31 mW/g

**Right Cheek High/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.0 V/m; Power Drift = -0.040 dB

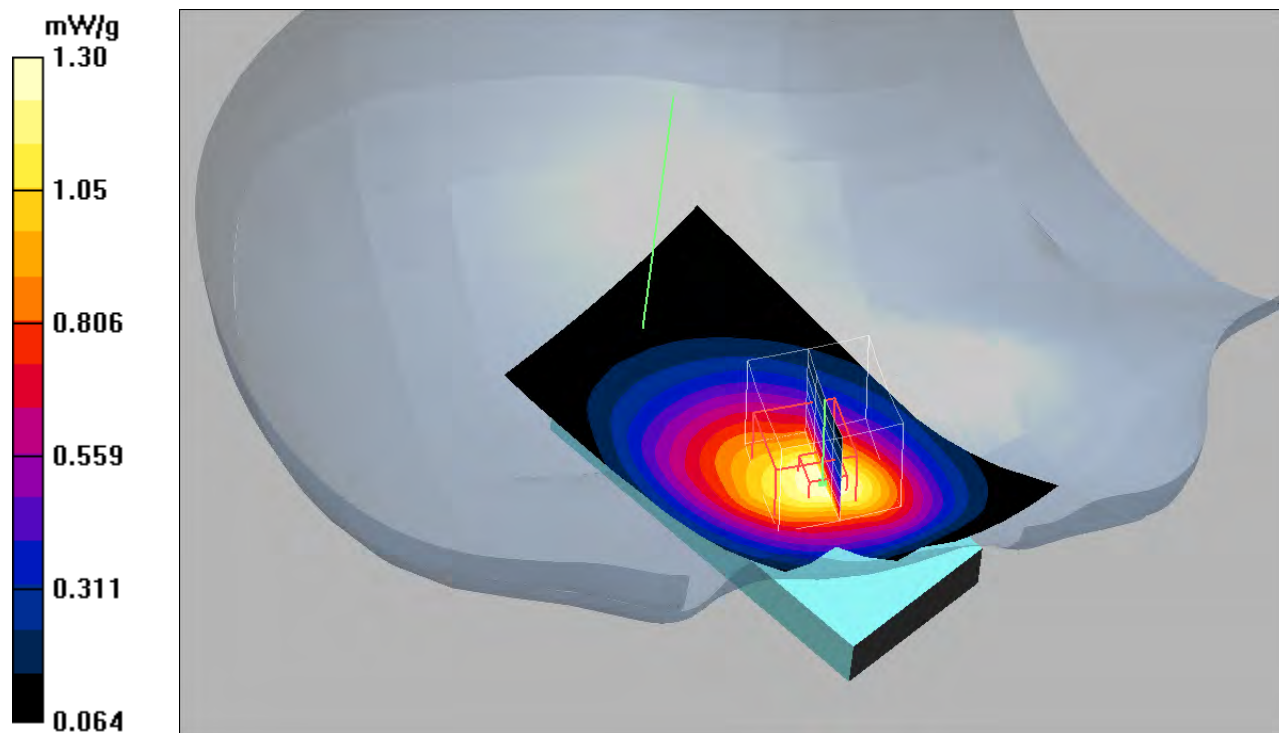
Peak SAR (extrapolated) = 1.89 W/kg

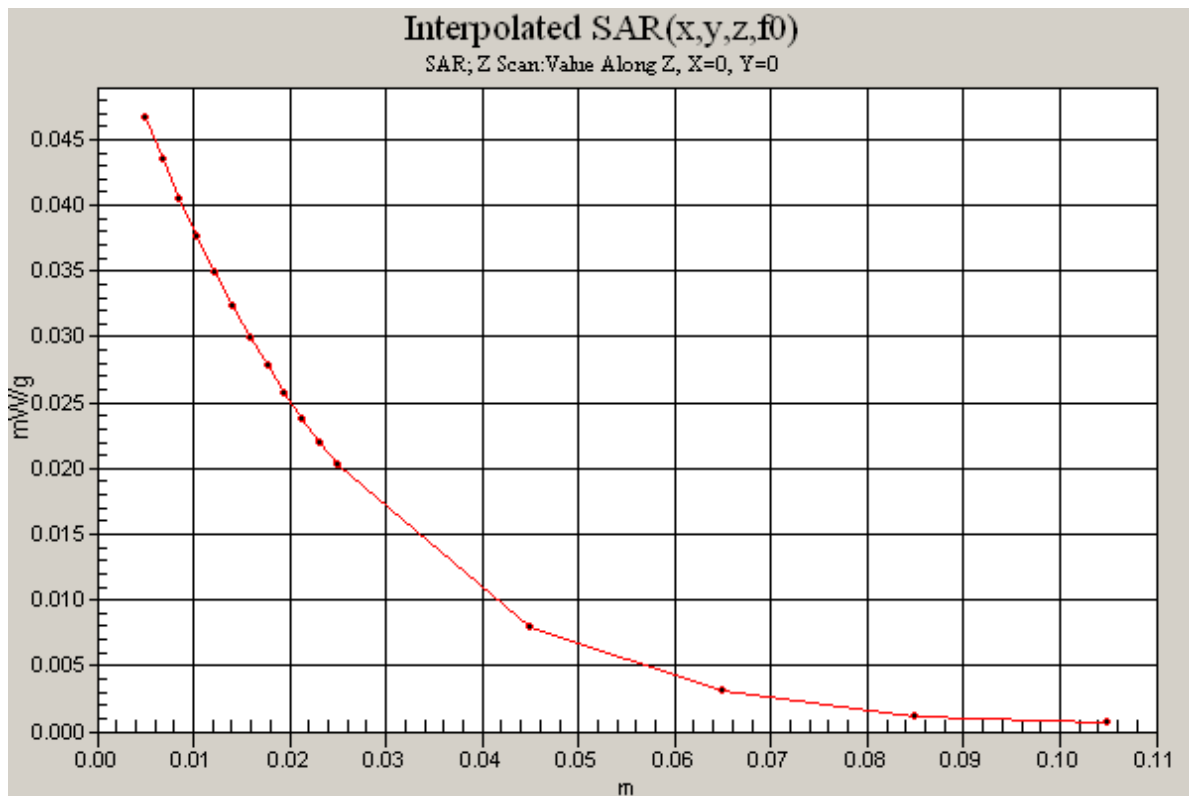
**SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.791 mW/g**

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

**Right Cheek High/Z Scan (1x1x16):** Measurement grid: dx=20mm, dy=20mm, dz=20mm

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





Date/Time: 2009-07-17 12:03:21

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Rigt\\_GSM1900\\_090717\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
 Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1569; ConvF(4.99, 4.99, 4.99); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Right Cheek Low/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.46 mW/g

**Right Cheek Low/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.35 V/m; Power Drift = -0.013 dB

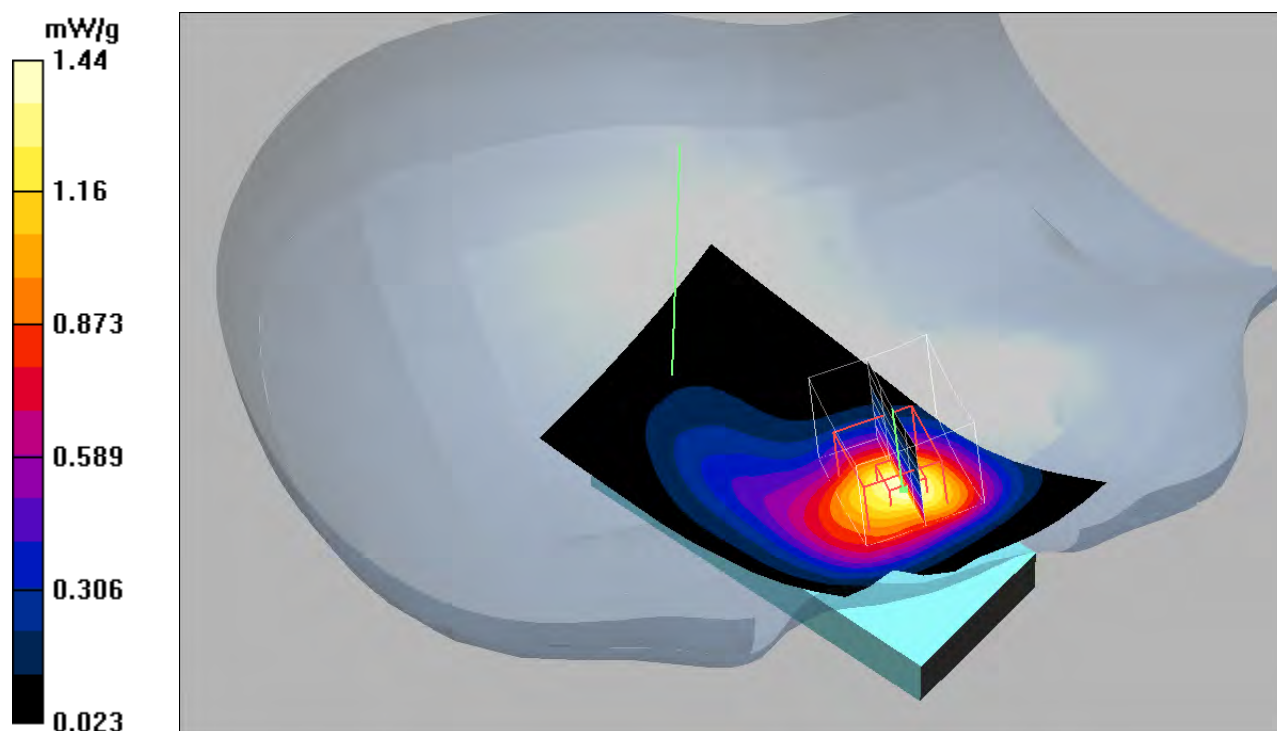
Peak SAR (extrapolated) = 2.14 W/kg

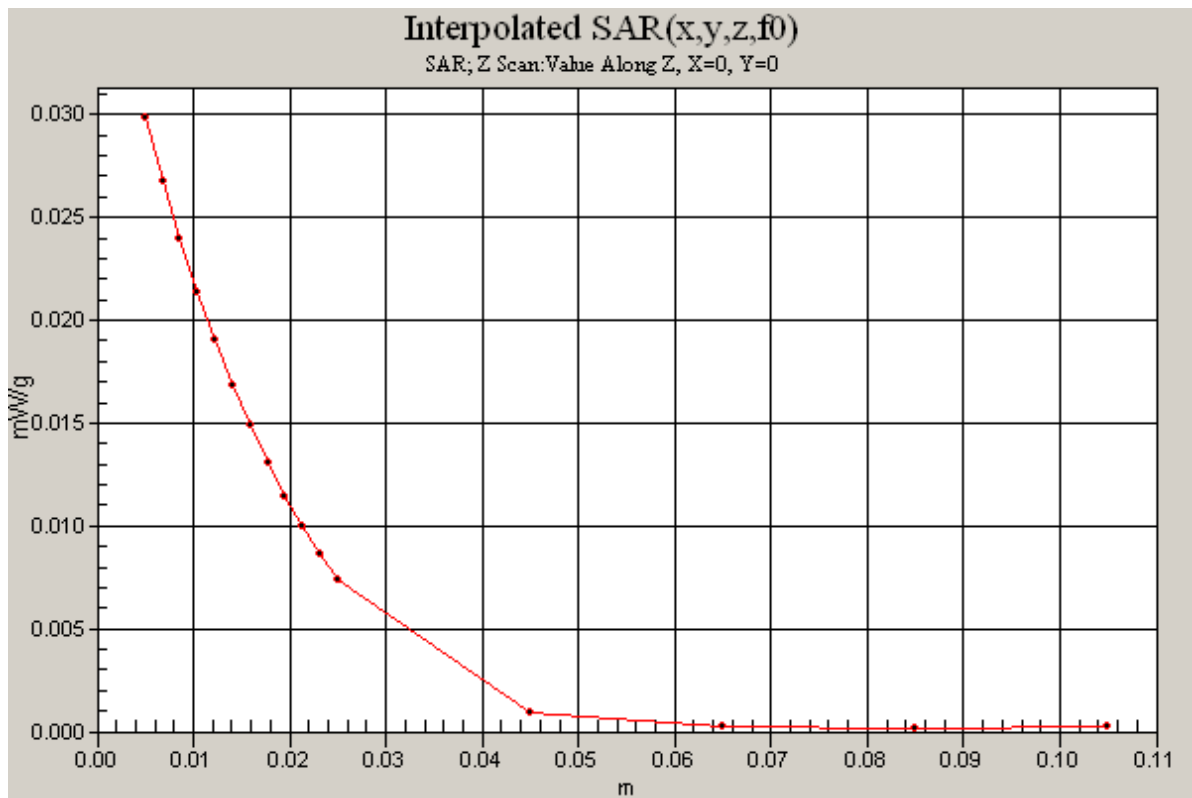
**SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.740 mW/g**

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

**Right Cheek Low/Z Scan (1x1x16):** Measurement grid: dx=20mm, dy=20mm, dz=20mm

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





Date/Time: 2009-07-17 16:03:21

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Right\\_UMTS2\\_090717\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: UMTS\_band2; Frequency: 1880 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.99, 4.99, 4.99); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Right Tilt Middle/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (interpolated) = 0.272 mW/g

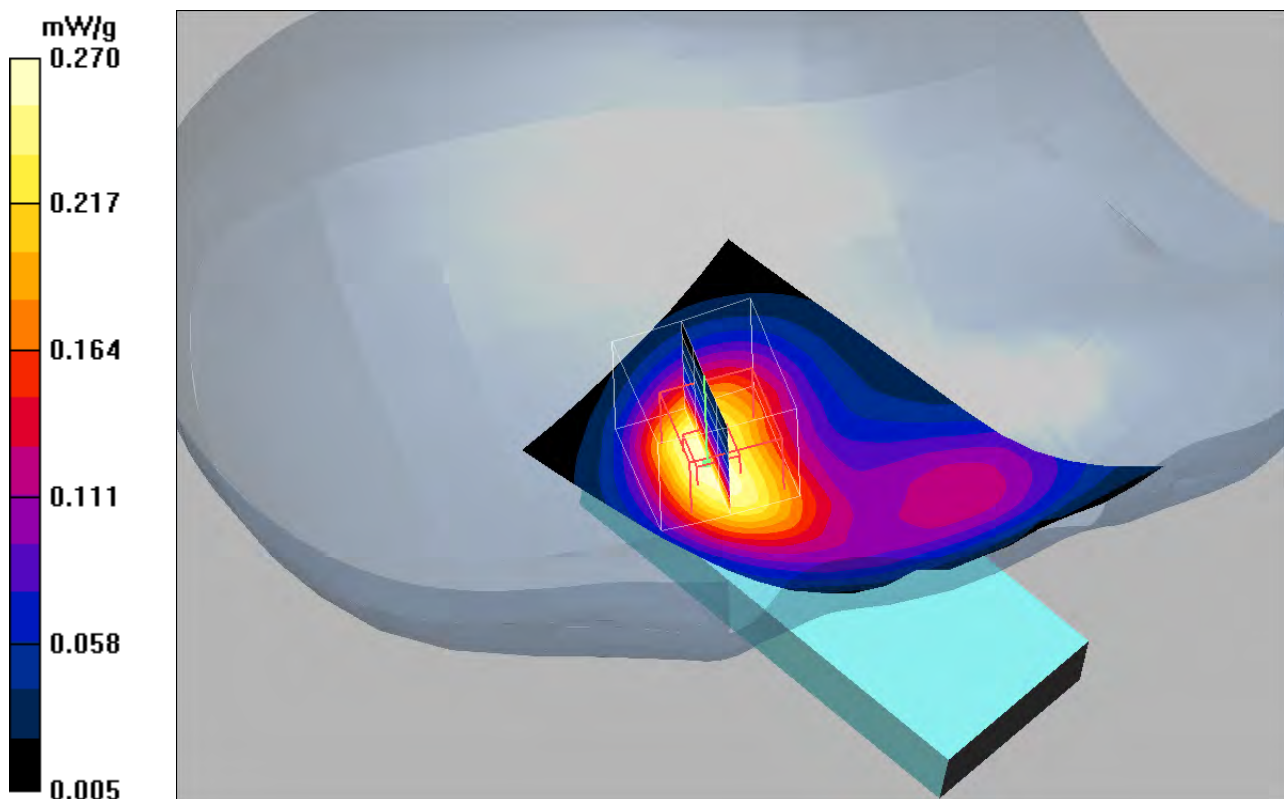
**Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.7 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 0.358 W/kg

**SAR(1 g) = 0.248 mW/g; SAR(10 g) = 0.156 mW/g**

Maximum value of SAR (measured) = 0.270 mW/g





Date/Time: 2009-07-16 11:17:32

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Right\\_GSM850\\_090716\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: GSM835MHz; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.875$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.36, 6.36, 6.36); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Right Tilt Middle/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.380 mW/g

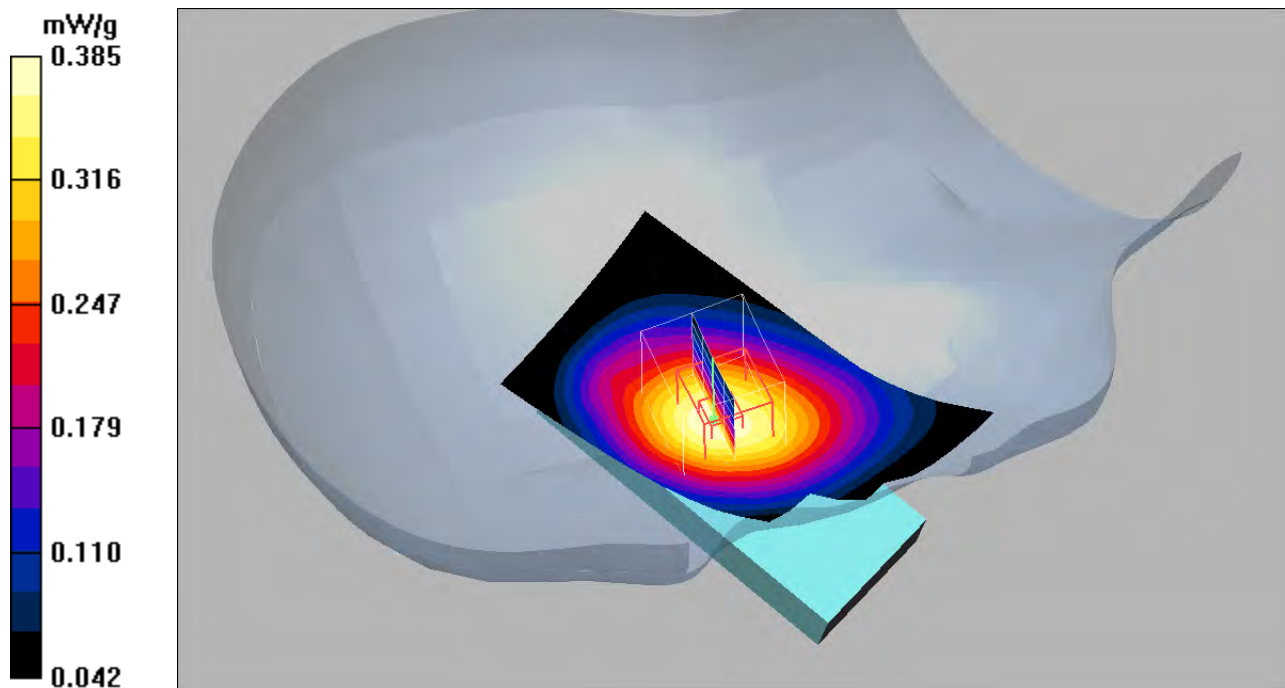
**Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.3 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.462 W/kg

**SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.266 mW/g**

Maximum value of SAR (measured) = 0.385 mW/g



Date/Time: 2009-07-17 16:33:50

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Right\\_UMTS2\\_090717\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: UMTS\_band2; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1569; ConvF(4.99, 4.99, 4.99); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Right Cheek Low/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.43 mW/g

**Right Cheek Low/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.60 V/m; Power Drift = -0.039 dB

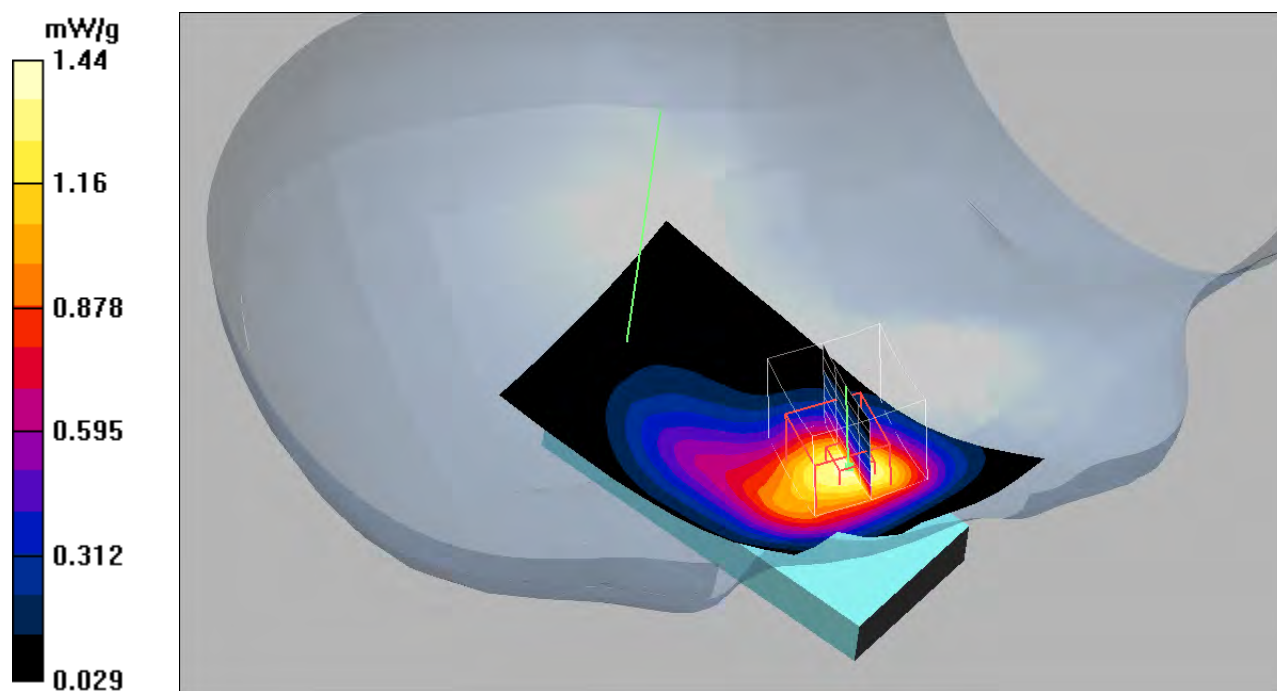
Peak SAR (extrapolated) = 2.09 W/kg

**SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.753 mW/g**

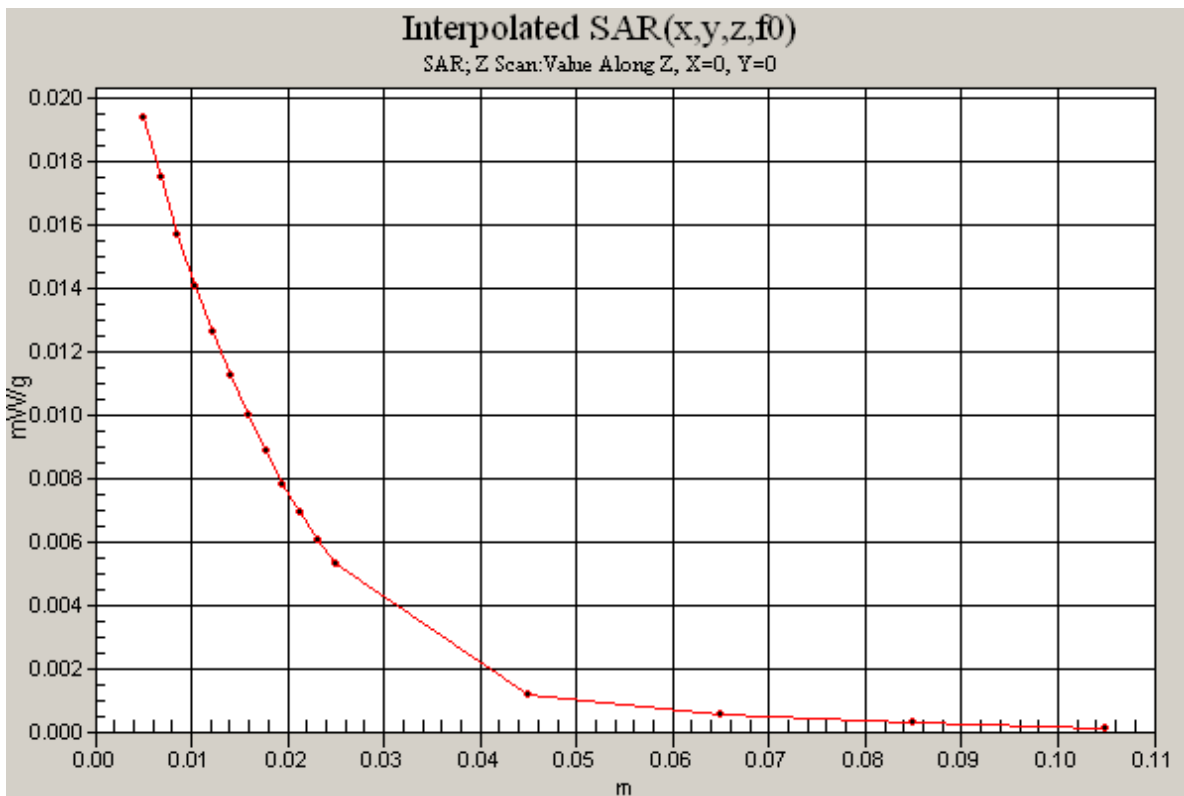
Maximum value of SAR (measured) = 1.44 mW/g

**Right Cheek Low/Z Scan (1x1x16):** Measurement grid: dx=20mm, dy=20mm, dz=20mm

Maximum value of SAR (interpolated) = 0.019 mW/g







Date/Time: 2009-07-16 11:40:30

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Right\\_GSM850\\_090716\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: GSM835MHz; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.886$  mho/m;  $\epsilon_r = 40.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.36, 6.36, 6.36); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Right Cheek High/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

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

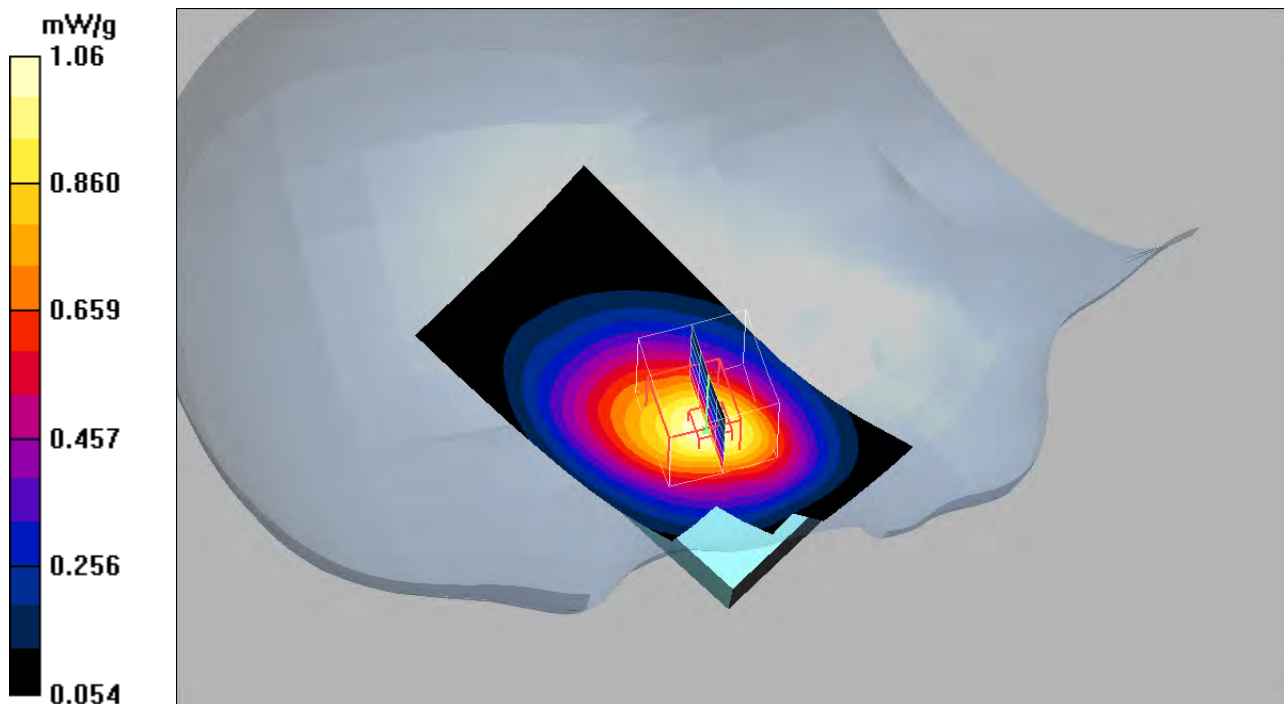
**Right Cheek High/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.96 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.976 mW/g; SAR(10 g) = 0.640 mW/g**

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



Date/Time: 2009-07-16 14:34:37

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Left\\_UMTS5\\_090716\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: UMTS\_band5; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.875$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.36, 6.36, 6.36); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Left Tilt Middle/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.379 mW/g

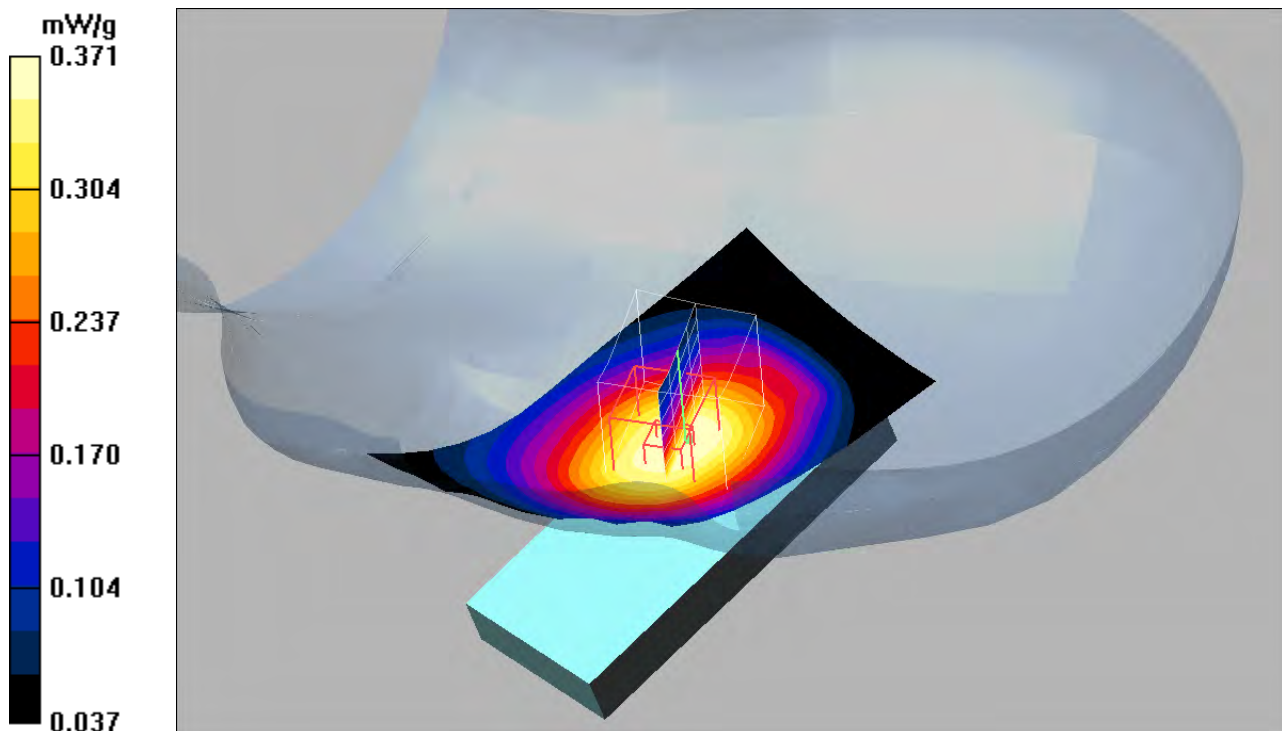
**Left Tilt Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = 0.003 dB

Peak SAR (extrapolated) = 0.449 W/kg

**SAR(1 g) = 0.356 mW/g; SAR(10 g) = 0.265 mW/g**

Maximum value of SAR (measured) = 0.371 mW/g



Date/Time: 2009-07-17 14:37:16

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Left UMTS2\\_090717\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: UMTS\_band2; Frequency: 1880 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.99, 4.99, 4.99); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Left Tilt Middle/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (interpolated) = 0.261 mW/g

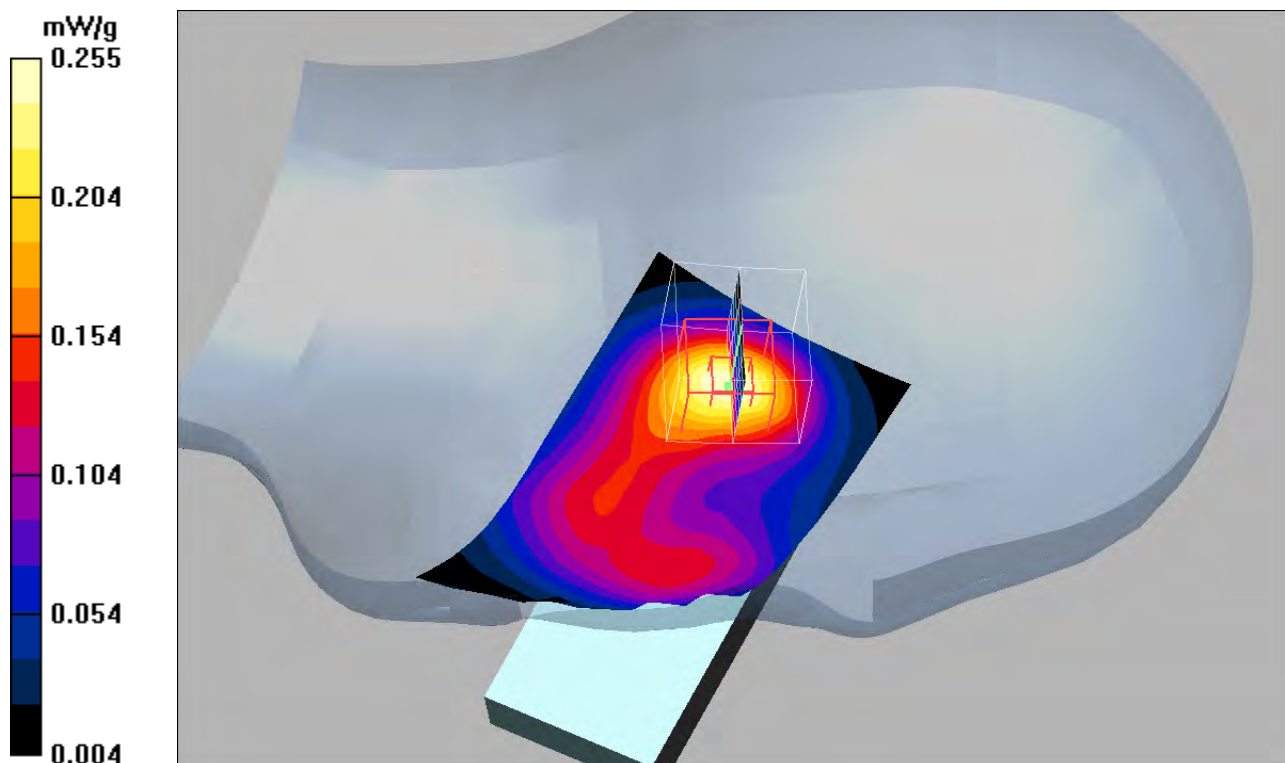
**Left Tilt Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 0.350 W/kg

**SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.139 mW/g**

Maximum value of SAR (measured) = 0.255 mW/g



Date/Time: 2009-07-17 12:51:58

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Left GSM1900\\_090717\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.99, 4.99, 4.99); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Left Tilt Middle/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (interpolated) = 0.222 mW/g

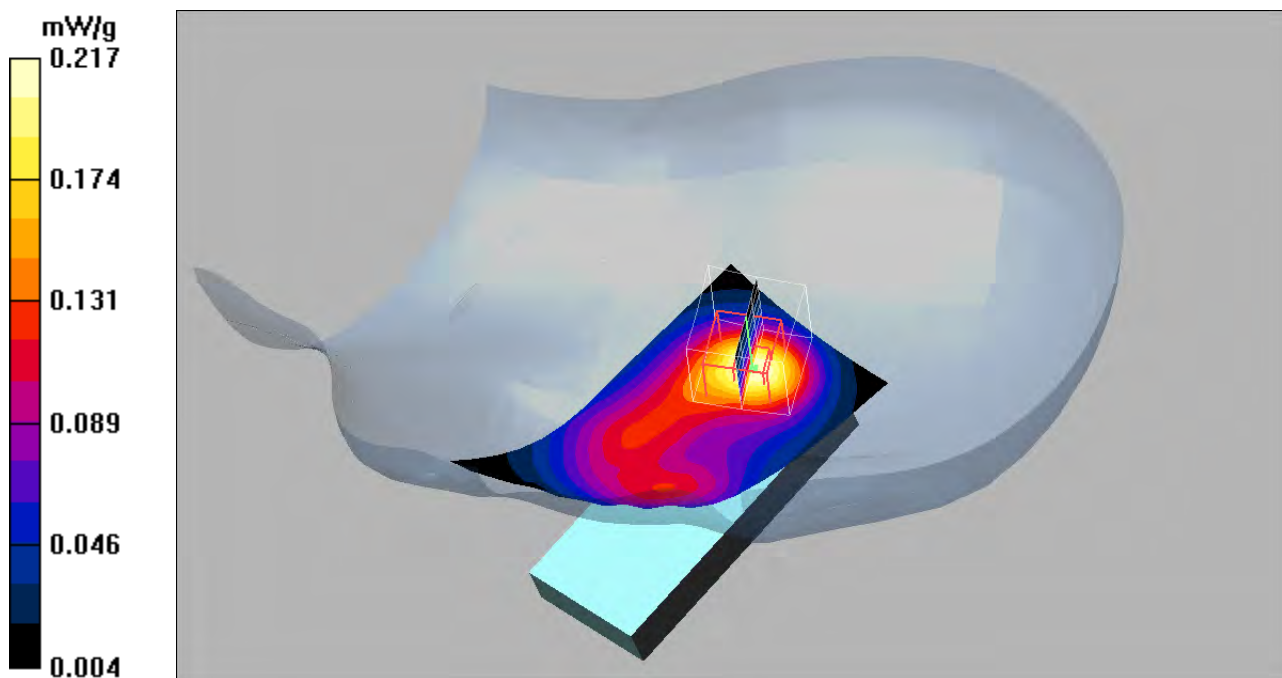
**Left Tilt Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.9 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.297 W/kg

**SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.118 mW/g**

Maximum value of SAR (measured) = 0.217 mW/g



Date/Time: 2009-07-16 13:16:50

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Left GSM850\\_090716\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM+ UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: GSM835MHz; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.875$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.36, 6.36, 6.36); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Left Tilt Middle/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.389 mW/g

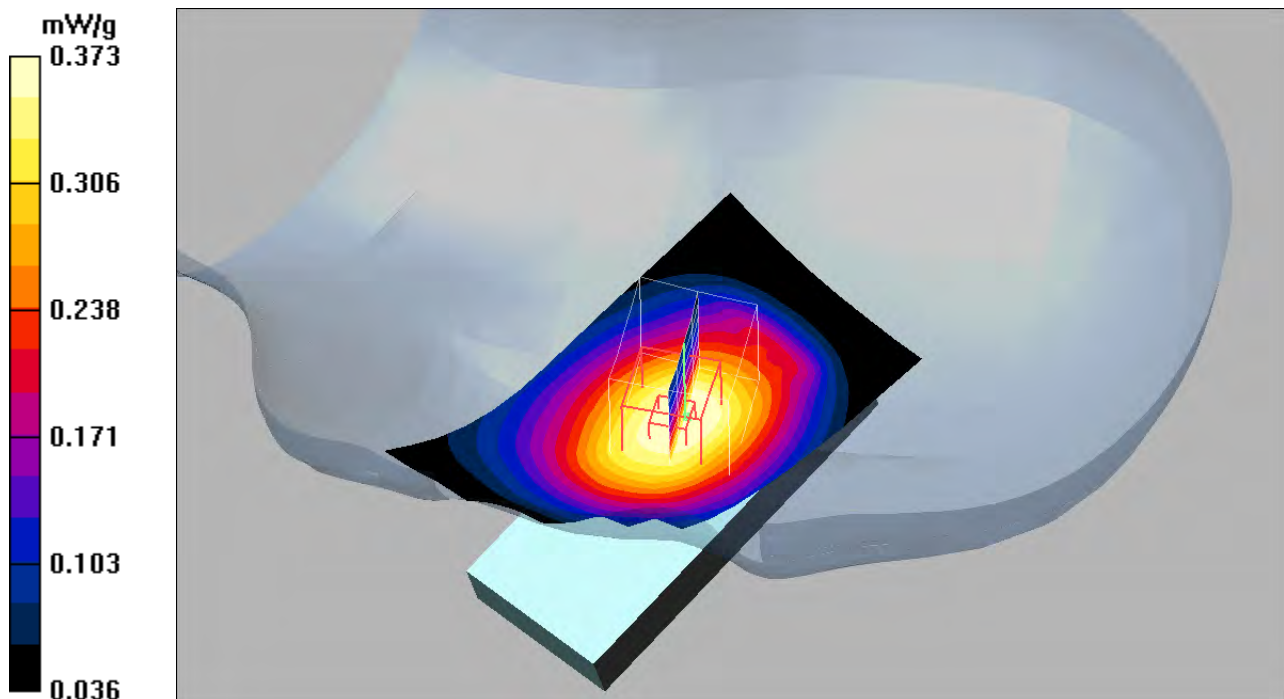
**Left Tilt Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.454 W/kg

**SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.265 mW/g**

Maximum value of SAR (measured) = 0.373 mW/g





Date/Time: 2009-07-16 14:52:38

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Left\\_UMTS5\\_090716\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: UMTS\_band5; Frequency: 846.6 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.884$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.36, 6.36, 6.36); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Left Cheek High/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.12 mW/g

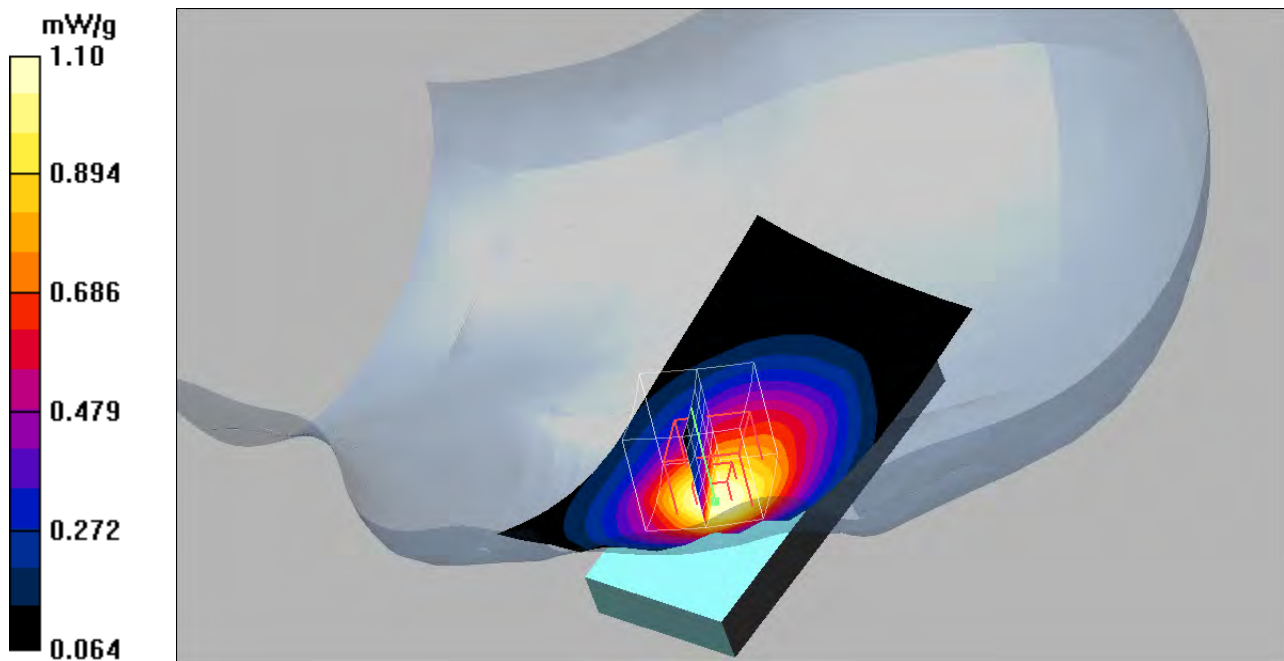
**Left Cheek High/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.74 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 1.44 W/kg

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.718 mW/g**

Maximum value of SAR (measured) = 1.10 mW/g



Date/Time: 2009-07-17 15:18:52

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Left UMTS2\\_090717\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: UMTS\_band2; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.99, 4.99, 4.99); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Left Cheek Low/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

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

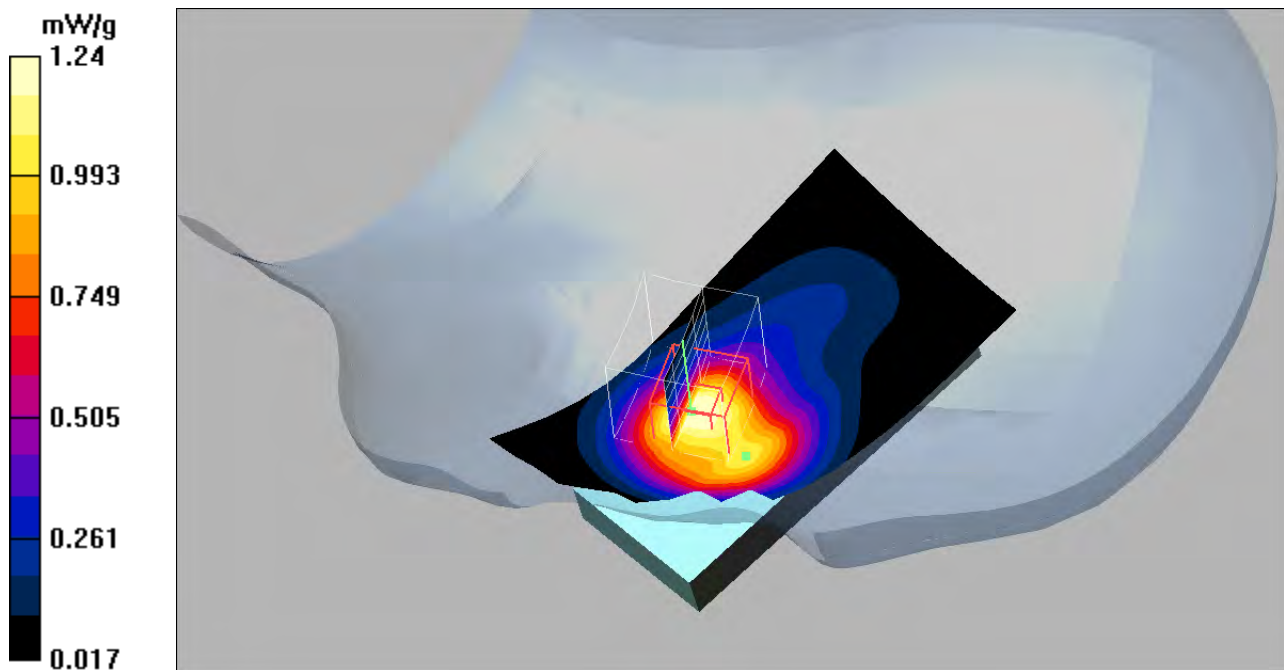
**Left Cheek Low/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.50 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 1.65 W/kg

**SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.698 mW/g**

Maximum value of SAR (measured) = 1.24 mW/g





Date/Time: 2009-07-17 13:35:53

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Left GSM1900\\_090717\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
 Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.99, 4.99, 4.99); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Left Cheek Low/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.987 mW/g

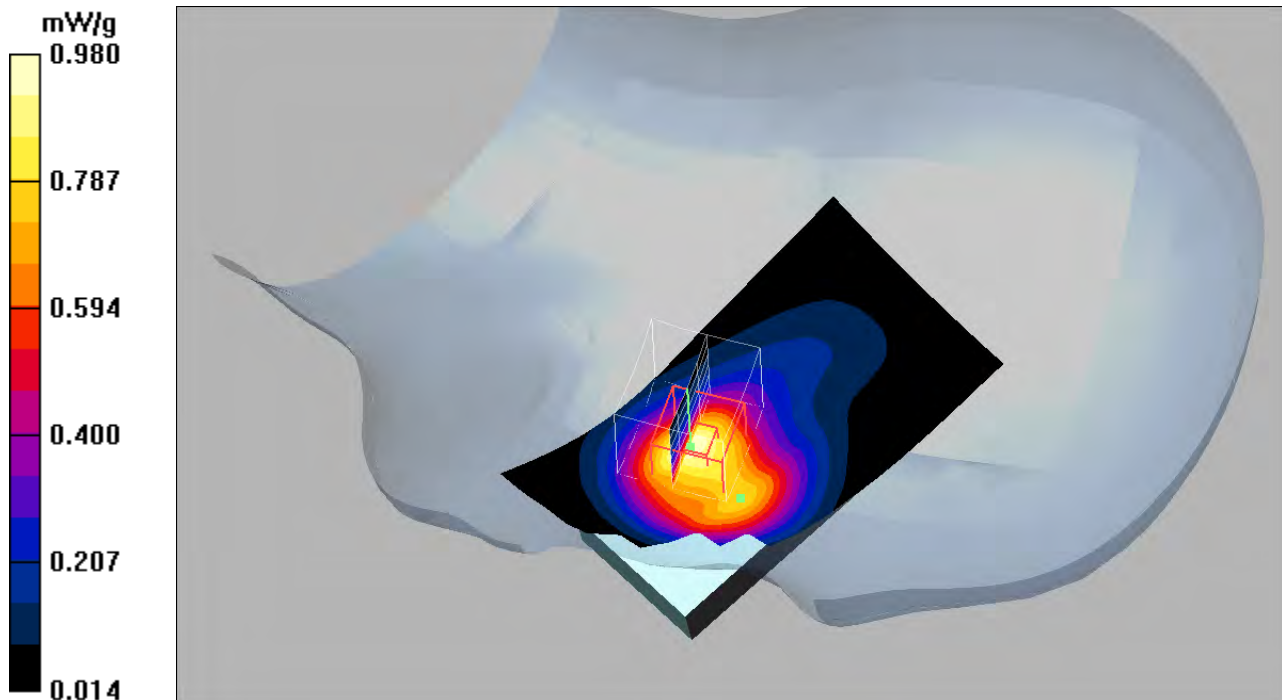
**Left Cheek Low/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.03 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.887 mW/g; SAR(10 g) = 0.535 mW/g**

Maximum value of SAR (measured) = 0.980 mW/g



Date/Time: 2009-07-16 13:31:06

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Left GSM850\\_090716\\_RP.da4](#)

**DUT: PY7A3880053-BV; Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Head**

Communication System: GSM835MHz; Frequency: 848.8 MHz; Duty Cycle: 1:8.3  
 Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.886$  mho/m;  $\epsilon_r = 40.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(6.36, 6.36, 6.36); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**Left Cheek High/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.970 mW/g

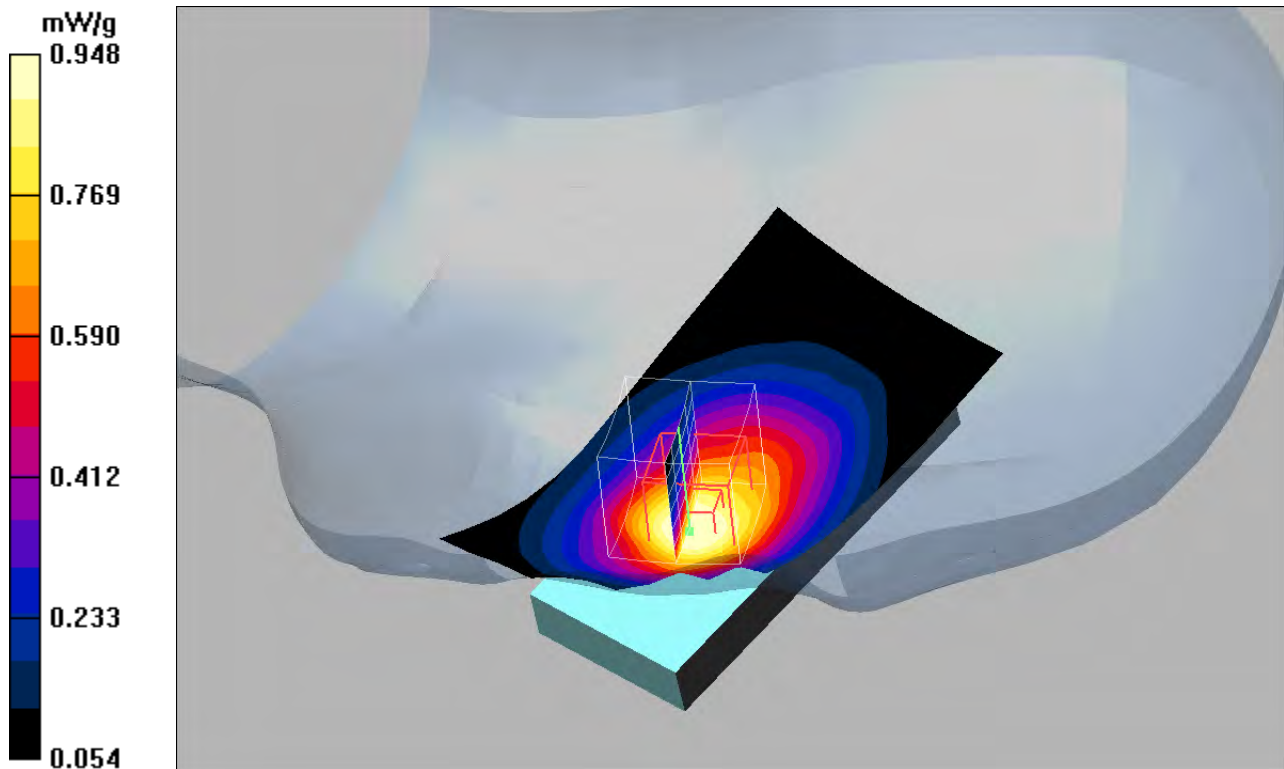
**Left Cheek High/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.12 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.905 mW/g; SAR(10 g) = 0.617 mW/g**

Maximum value of SAR (measured) = 0.948 mW/g



Date/Time: 2009-07-21 09:12:08

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Data\\_2TS\\_GSM1900\\_090721\\_RP.da4](#)

**DUT: PY7A3880053 (J105a); Type: GSM +UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Body**

Communication System: GSM1900 GPRS2TX; Frequency: 1850.2 MHz; Duty Cycle: 1:4.15  
 Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.52$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.42, 4.42, 4.42); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**FB+15mm, GPRS 2TS, Low/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.810 mW/g

**FB+15mm, GPRS 2TS, Low/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.4 V/m; Power Drift = 0.011 dB

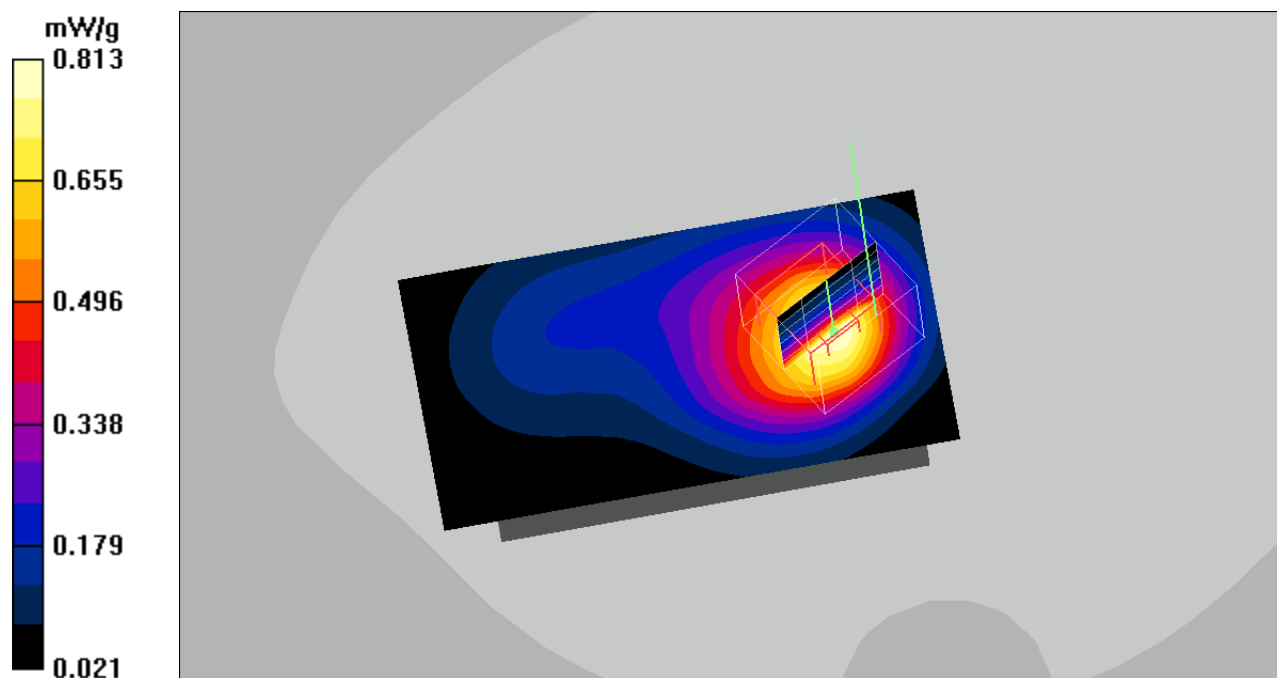
Peak SAR (extrapolated) = 1.15 W/kg

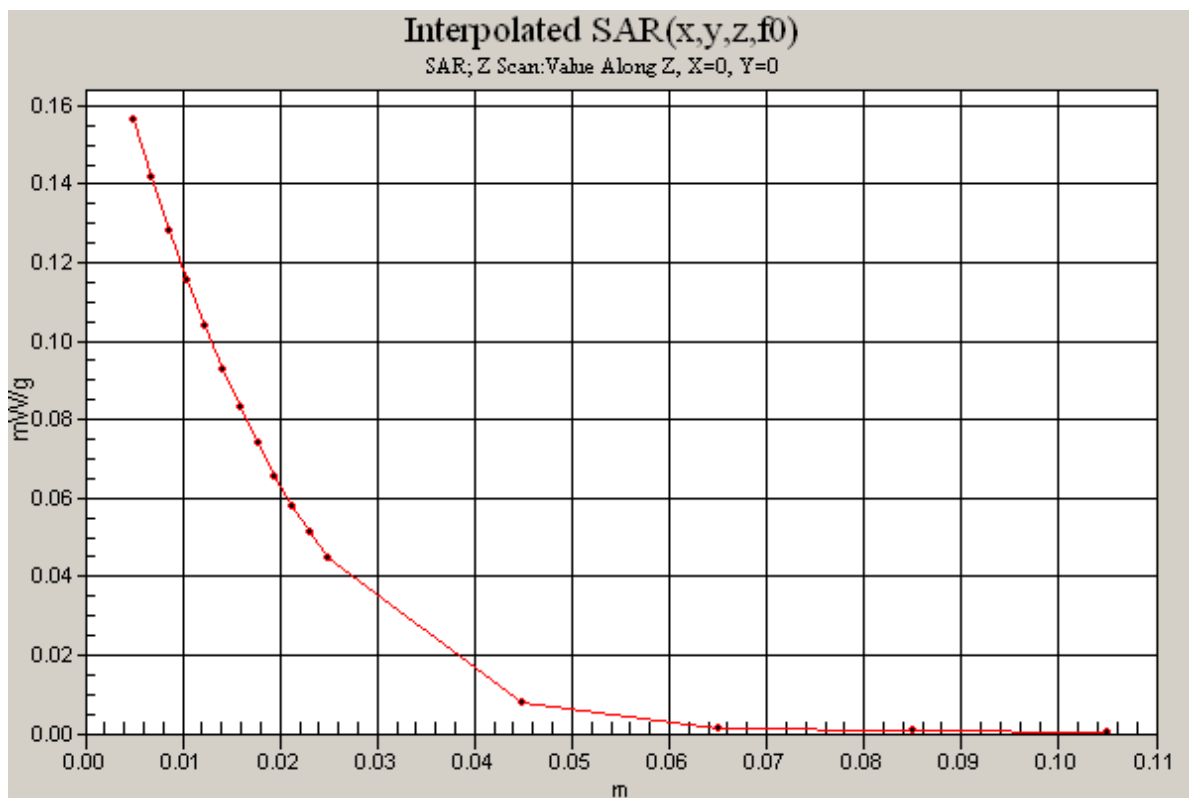
**SAR(1 g) = 0.743 mW/g; SAR(10 g) = 0.454 mW/g**

Maximum value of SAR (measured) = 0.813 mW/g

**FB+15mm, GPRS 2TS, Low/Z Scan (1x1x16):** Measurement grid: dx=20mm, dy=20mm, dz=20mm

Maximum value of SAR (interpolated) = 0.156 mW/g





Date/Time: 2009-07-22 11:00:25

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Data\\_2TS\\_GSM850\\_090722\\_RP.da4](#)

**DUT: PY7A3880053 (J105a); Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Body**

Communication System: GSM850 GPRS2TX; Frequency: 848.8 MHz; Duty Cycle: 1:4.15  
 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.989$  mho/m;  $\epsilon_r = 53.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1569; ConvF(6.22, 6.22, 6.22); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**FB+15mm, GPRS 2TS, High/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.988 mW/g

**FB+15mm, GPRS 2TS, High/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.9 V/m; Power Drift = -0.064 dB

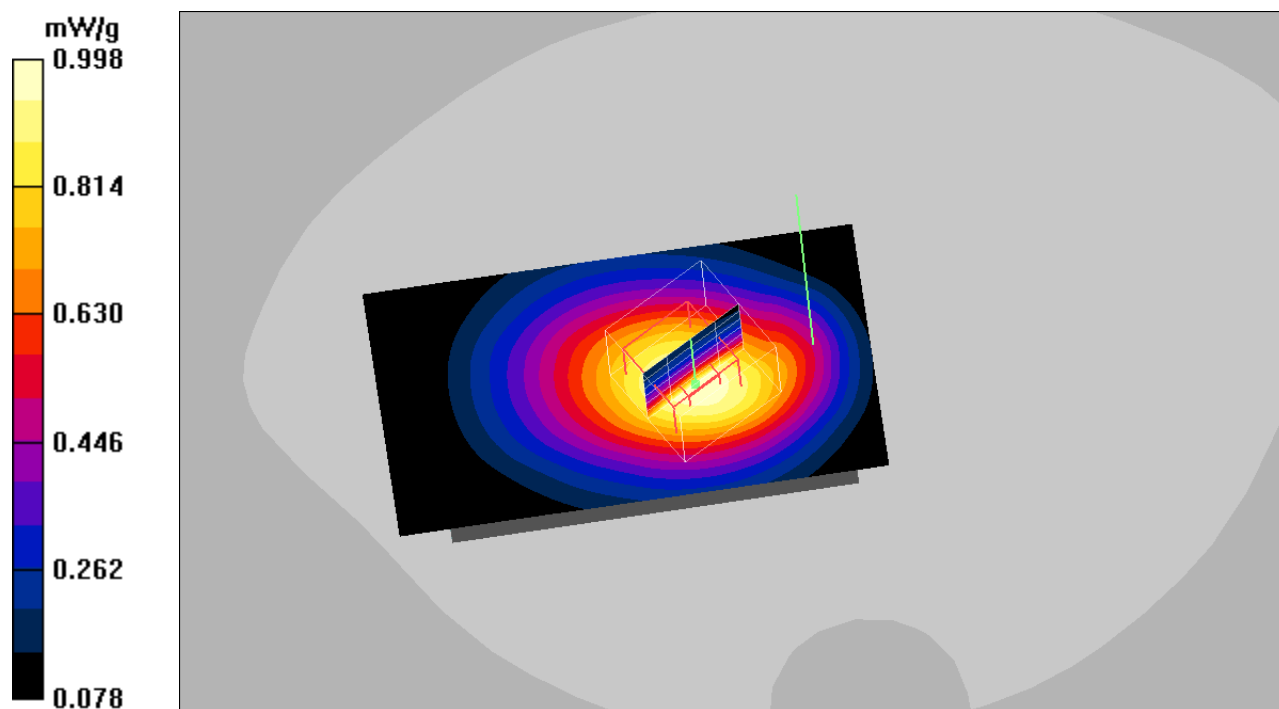
Peak SAR (extrapolated) = 1.27 W/kg

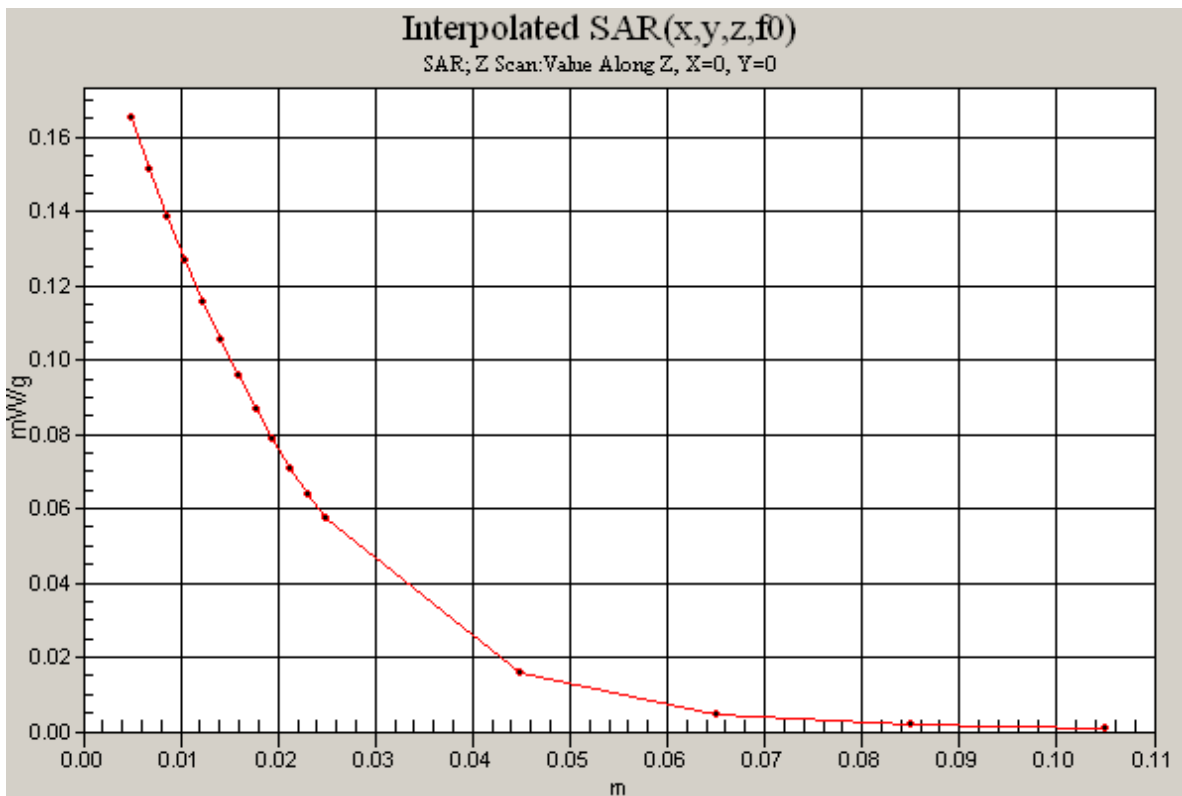
**SAR(1 g) = 0.935 mW/g; SAR(10 g) = 0.648 mW/g**

Maximum value of SAR (measured) = 0.998 mW/g

**FB+15mm, GPRS 2TS, High/Z Scan (1x1x16):** Measurement grid: dx=20mm, dy=20mm, dz=20mm

Maximum value of SAR (interpolated) = 0.165 mW/g





Date/Time: 2009-07-21 10:18:25

Test Laboratory: Sony Ericsson Mobile Communications  
 File Name: [Data\\_2TS\\_GSM1900\\_090721\\_RP.da4](#)

**DUT: PY7A3880053 (J105a); Type: GSM + UMTS; Serial: #15811**  
**Program Name: SAR Measurement on the Body**

Communication System: GSM1900 GPRS2TX; Frequency: 1850.2 MHz; Duty Cycle: 1:4.15  
 Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.52$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.42, 4.42, 4.42); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**FF+15mm, GPRS 2TS, Low/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.517 mW/g

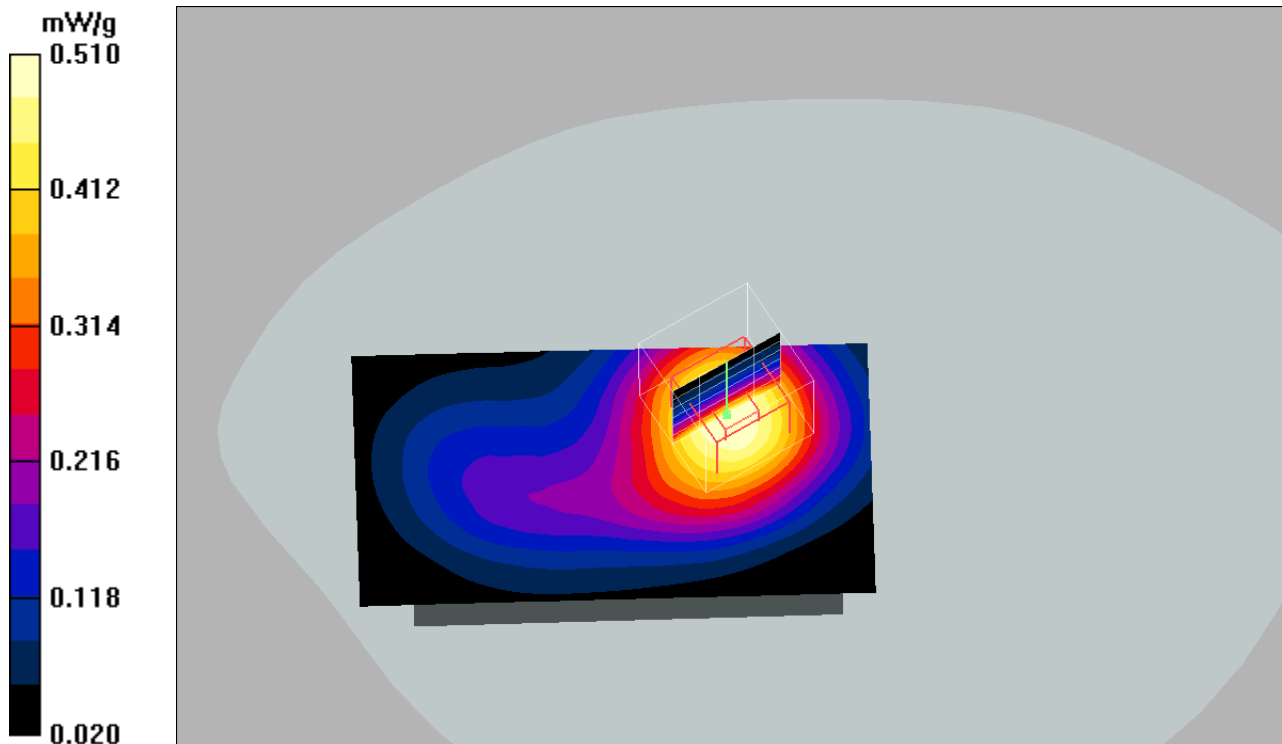
**FF+15mm, GPRS 2TS, Low/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 0.699 W/kg

**SAR(1 g) = 0.477 mW/g; SAR(10 g) = 0.306 mW/g**

Maximum value of SAR (measured) = 0.510 mW/g



Date/Time: 2009-07-21 08:40:57

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement\\_1900MHz\\_Head\\_090721.da4](#)**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d002****Program Name: Verification Measurement on 1900MHz with BSL**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.59$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.42, 4.42, 4.42); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn428; Calibrated: 2009-01-09
- Phantom: SAM 6; Type: SAM; Serial: 1351
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 171

**P=100mW, 10mm distance/Area Scan (61x101x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 4.42 mW/g

**P=100mW, 10mm distance/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 52.4 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 6.66 W/kg

**SAR(1 g) = 3.97 mW/g; SAR(10 g) = 2.1 mW/g**

Maximum value of SAR (measured) = 4.48 mW/g

