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LD/SEMC/CCMVALE Ramadan Plicanic

Approved

LD/SEMC/CCMVALEC Peter Lindeborg

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Company Internal
REPORT

No.

CCDA09:581

Date

091221

Rev

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Report issued by Accredited SAR Laboratory**for****FCC ID: PY7A3880074 (X10a_SO-01B)****Date of test:** 2009-10-06 – 2009-11-12**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
+46 10 80 13862**Testing Approval:** Peter Lindeborg
peter.lindeborg@sonyericsson.com
+46 10 80 24368**Statement of Compliance**

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

Sony Ericsson Type: AAD-3880074-BV**FCC ID: PY7A3880074****IC: 4170B-A3880074**

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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1 Introduction

In this test report, compliance of the Sony Ericsson PY7A3880074 (X10a_SO-01B) 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

Company Name:	Sony Ericsson Mobile Communications AB
Address:	Sony Ericsson Mobile Japan Tokyo
Contact Name:	Atsuya Mori

3 Device Under Test

3.1 Antenna Description

Type	Internal antenna	
Location	Bottom of phone	
Main and BT antennas distance	96 mm	
Dimensions	Max length	50 mm
	Max width	8 mm
Configuration	Monopole	



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3.2 Device Description

Device model	AAD-3880074-BV					
Market name	X10a (SO-01B)					
Serial number (EUT #)	CB511EA2CK (#16435) CB511EC54P (#16725) for WLAN					
Mode	GSM 850			GSM 1900		
Crest factor	8.3			8.3		
Multiple access scheme	TDMA			TDMA		
Channel No.	128	190	251	512	661	885
Measured Power Level [dBm] ¹ (#16435)	32.3	32.3	32.3	30.5	30.5	30.5
Product Maximum power Level [dBm] ¹	32.3	32.3	32.3	30.5	30.5	30.5
Data mode	GPRS(2Tx)			GPRS(2Tx)		
Crest factor	4.15			4.15		
Measured Power Level [dBm] ¹ (#16435)	30.7	30.7	30.7	27.9	27.8	27.9
Product Maximum power Level [dBm] ¹	30.8	30.8	30.8	28.0	28.0	28.0
Data mode	EDGE(2Tx)			EDGE(2Tx)		
Crest factor	4.15			4.15		
Measured Power Level [dBm] ¹ (#16435)	25.9	26.0	25.9	25.0	24.9	25.0
Product Maximum power Level [dBm] ¹	26.0	26.0	26.0	25.0	25.0	25.0
Data mode	GPRS(3Tx)			GPRS(3Tx)		
Crest factor	2.77			2.77		
Measured Power Level [dBm] ¹ (#16435)	29.7	29.8	29.7	26.8	26.8	26.8
Product Maximum power Level [dBm] ¹	29.8	29.8	29.8	27.0	27.0	27.0
Data mode	EDGE(3Tx)			EDGE(3Tx)		
Crest factor	2.77			2.77		
Measured Power Level [dBm] ¹ (#16435)	25.0	25.0	25.0	24.0	24.0	24.0
Product Maximum power Level [dBm] ¹	25.0	25.0	25.0	24.0	24.0	24.0
Data mode	GPRS(4Tx)			GPRS(4Tx)		
Crest factor	2.075			2.075		
Measured Power Level [dBm] ¹ (#16435)	28.7	28.8	28.7	25.5	25.5	25.5
Product Maximum power Level [dBm] ¹	28.8	28.8	28.8	25.5	25.5	25.5
Data mode	EDGE(4Tx)			EDGE(4Tx)		
Crest factor	2.075			2.075		
Measured Power Level [dBm] ¹ (#16435)	23.9	24.0	23.9	23.0	23.0	23.0
Product Maximum power Level [dBm] ¹	24.0	24.0	24.0	23.0	23.0	23.0
Transmitting frequency range [MHz]	824.0 - 849.0			1850.0 - 1910.0		

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Mode	UMTS 2			UMTS 5		
Crest factor	1			1		
Multiple access scheme	WCDMA			WCDMA		
Channel No.	9262	9400	9538	4132	4183	4233
Measured Power Level [dBm]¹ (#16435)	22.9	22.9	22.8	24.7	24.8	24.7
Product Maximum power Level [dBm]¹	23.0	23.0	23.0	24.8	24.8	24.8
Data Mode	(See section 3.3)					
Transmitting frequency range [MHz]	1852.5 - 1907.6			832.4 – 846.6		

GPRS Multislot class	12
EDGE class	12
GPRS Capability class	B
BT class and conducted power	Class 1. 7.59 mW
Prototype or production unit	Preproduction
Hardware Version	AP2
Software version	R1AA025
Device category	Portable
RF exposure environment	General population / uncontrolled

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3.3 HSPA Power Characteristics

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:

EUT:

					1852,4 (Band2)	1880 (Band2)	1907,6 (Band2)	826,4 (Band5)	836,4 (Band5)	846,6 (Band5)
#16435					Band 2			Band 5		
	βC	βD	ΔHS	max->	23,0	23,0	23,0	24,8	24,8	24,8
CS - RMC	8	15	-		22.5	22.9	22.8	24.9	24.8	24.7
CS - voice	8	15	-		22.5	22.9	22.8	24.9	24.8	24.7
HSDPA - 1	2	15	8		22.6	22.9	22.7	24.9	24.8	24.7
HSDPA - 2	12	15	8		22.5	22.8	22.6	24.7	24.6	24.6
HSDPA - 3	15	8	8		22.0	22.4	22.2	24.4	24.3	24.3
HSDPA - 4	15	4	8		22.1	22.4	22.3	24.3	24.3	24.2

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, βc =8, βd =15

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

RMC=12.2, βc =9, βd =15, ΔACK =5, ΔNACK =5, ΔCQI =2

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In HSUPA mode, additional code channels (E-DPCCH, E-DPDCHn) are added for data transfer in the uplink at higher bit rates.

5 sub-tests are defined by 3GPP TS 34.121 [7] according to the following table:

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ec} (SF)	β_{ed} (code)	CM (dB) ⁽²⁾	MPR (dB)	AG ⁽⁴⁾ Index	E-TFC I
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	0.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	1.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4	2	1.5	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	1.5	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.5	0.0	21	81

Note 1: $\Delta_{ACK}, \Delta_{NACK}, \Delta_{CQI} = 8 \iff A_{HS} = \beta_{HS}/\beta_c = 30/15 \iff \beta_{HS} = 30/15 * \beta_c$
Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference
Note 3: For sub-test 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$
Note 4: For sub-test 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$
Note 5: Testing UE using E-DPDCH Physical Layer category 1 sub-test 3 is not required according to TS 25.306 Table 5.1g
Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value

EUT:		1852,4 (Band2)	1880 (Band2)	1907,6 (Band2)	826,4 (Band5)	836,4 (Band5)	846,6 (Band5)
#16435		Band 2			Band 5		
	max->	23,0	23,0	23,0	24,8	24,8	24,8
HSUPA - Sub-test 1		22.3	22.3	22.1	24.0	24.1	24.5
HSUPA - Sub-test 2		20.8	21.5	20.9	22.6	23.1	22.9
HSUPA - Sub-test 3		21.2	21.8	21.1	23.7	23.5	23.7
HSUPA - Sub-test 4		21.4	21.5	21.5	23.4	23.3	23.8
HSUPA - Sub-test 5		22.3	22.2	22.3	24.3	24.1	24.6

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

So no additional SAR measurements are required for those test modes.

NOTE: According to the subtest settings shown in Table above a Maximum Power Reduction (MPR) of up to 2dB can be expected in HSUPA subtest 2 - 4. The WCDMA measurement results may show a lower power reduction depending on the chipset features of the DUT.

NOTE: Find more detail in reference [8]



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WLAN Output Power					
Mode	Max Output Power ¹ (dBm)	Factory Tolerance ¹ (dB)	EUT (#16725) power (dBm) ¹		
			Ch 1	Ch6	Ch 11
802.11b 1Mbit/sec	14.5	1	14.3	14.9	14.8
802.11b 2Mbit/sec			14.4	14.9	14.6
802.11b 5.5Mbit/sec			14.3	14.8	14.7
802.11b 11Mbit/sec			14.5	14.8	14.9
802.11g 6Mbit/sec	14.8	1	14.7	15.0	15.0
802.11g 9Mbit/sec			14.6	15.0	14.9
802.11g 12Mbit/sec	14.8	1	14.7	15.0	14.9
802.11g 18Mbit/sec			14.6	15.0	15.0
802.11g 24Mbit/sec	14.8	1	14.6	15.0	15.0
802.11g 36Mbit/sec			14.6	15.0	15.0
802.11g 48Mbit/sec	14.8	1	14.6	15.0	15.0
802.11g 54Mbit/sec			14.6	15.0	15.0

¹ Measured output values were provided by the customer.

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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 80) 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 DAE3	428	01 2010
E-field probe ET3DV6	1569	01 2010
Dipole Validation Kit, D835V2	4d039	01 2010
Dipole Validation Kit, D1900V2	5d002	01 2011
Dipole Validation Kit, D2450V2	745	03 2011

4.2 Additional equipment

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

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5 Electrical parameters on the tissue simulating liquid

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

f [MHz]	Tissue type	Measured / Recommended	Dielectric Parameters		Density
			ϵ_r	σ [S/m]	ρ [g/cm ³]
835	Head	Measured, 2009-10-06	40.6	0.88	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2009-11-06	53.2	0.97	1.00
		Recommended	55.2	0.97	1.00
1900	Head	Measured, 2009-10-23	38.2	1.46	1.00
		Recommended	40.0	1.40	1.00
1900	Body	Measured, 2009-06-25	53.04	1.55	1.00
		Recommended	53.30	1.52	1.00
2450	Head	Measured, 2009-11-12	38.80	1.89	1.00
		Recommended	39.20	1.80	1.00
2450	Body	Measured, 2009-11-12	50.60	1.92	1.00
		Recommended	52.70	1.95	1.00

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6 System accuracy verification

A system accuracy verification of the DASY4 was performed using the dipole validation kit listed in section 4.1. The system verification test was conducted on the same day as the measurement of the DUT. The ambient humidity and temperature of test facility were kept between the range 30-70% and 20.0-25.0 °C respectively. RF noise has been measured in liquid when all RF equipment in lab was switched off. Measured value was 0.00014 mW/g in 1g mass.

f [MHz]	Tissue type	Measured / Reference	SAR [W/kg] 1g	Dielectric Parameters		Density	Liquid T[°C]
				ϵ_r	σ [S/m]	ρ [g/cm ³]	
835	Head	Measured, 2009-10-06	9.71	40.6	0.88	1.00	21.7
		Reference	9.68	41.5	0.90	1.00	22.0
835	Head	Measured, 2009-10-07	9.55	40.6	0.88	1.00	21.7
		Reference	9.68	41.5	0.90	1.00	22.0
835	Body	Measured, 2009-11-05	9.87	53.2	0.97	1.00	21.5
		Reference	9.41	55.2	0.97	1.00	22.0
835	Body	Measured, 2009-11-06	9.41	53.2	0.97	1.00	21.5
		Reference	9.41	55.2	0.97	1.00	22.0
1900	Head	Measured, 2009-10-23	37.6	38.2	1.46	1.00	22.0
		Reference	39.9	40.0	1.40	1.00	22.0
1900	Head	Measured, 2009-10-26	38.2	38.2	1.46	1.00	22.0
		Reference	39.9	40.0	1.40	1.00	22.0
1900	Body	Measured, 2009-11-03	38.8	55.3	1.59	1.00	22.2
		Reference	41.5	53.3	1.52	1.00	21.8
1900	Body	Measured, 2009-11-04	38.8	55.3	1.59	1.00	22.2
		Reference	41.5	53.3	1.52	1.00	21.8
2450	Head	Measured, 2009-11-12	56.9	38.80	1.89	1.00	22.5
		Reference	52.9	39.20	1.80	1.00	22.0
2450	Body	Measured, 2009-11-12	56.7	50.60	1.92	1.00	22.6
		Reference	53.4	52.70	1.95	1.00	22.0

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7 SAR measurement uncertainty

**SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880074 (X10a_SO-01B)
phone
According to IEEE 1528**

Uncertainty Component	Uncer. (%)	Prob Dist.	Div.	C _i	1g mass
Measurement System					
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
Measurement System Uncertainty					±8.4
Test Sample Related					
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
Test Sample Related Uncertainty					±5.5
Phantom and Tissue Parameters					
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
Phantom and Tissue Parameters Uncertainty					±4.1
Combined standard uncertainty					±10.8
Extended standard uncertainty (k=2)					±21.6

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8 Test results

The ambient humidity and temperature of test facility were kept between the range 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. The measured 1-gram averaged SAR values of the DUT towards the body are provided in Table 2.

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Band	Channel	Measured output power ¹ [dBm]	Position	Liquid T [°C]	Measured SAR [W/kg]	
					Left-hand 1g mass	Right-hand 1g mass
GSM 850	128	32.3	Cheek	21.7	0.32	0.32
			Tilt	21.7	-	-
	190	32.3	Cheek	21.7	0.40	0.40
			Tilt	21.7	0.26	0.25
	251	32.3	Cheek	21.7	0.50	0.52
			Tilt	21.7	-	-
GSM 1900	512	30.5	Cheek	22.0	0.62	0.56
			Tilt	22.0	-	-
	661	30.5	Cheek	22.0	0.75	0.76
			Tilt	22.0	0.36	0.30
	810	30.5	Cheek	22.0	0.79	0.83
			Tilt	22.0	-	-
UMTS 2	9262	22.9	Cheek	22.0	1.30	0.97
			Tilt	22.0	-	-
	9400	22.9	Cheek	22.0	1.40	1.10
			Tilt	22.0	0.67	0.52
	9538	22.8	Cheek	22.0	1.26	1.04
			Tilt	22.0	-	-
UMTS 5	4132	24.7	Cheek	21.7	0.72	0.74
			Tilt	21.7	-	-
	4183	24.8	Cheek	21.7	0.71	0.71
			Tilt	21.7	0.44	0.44
	4233	24.7	Cheek	21.7	0.76	0.79
			Tilt	21.7	-	-
WLAN (1Mbs)	1	14.3	Cheek	22.0	0.27	0.51
			Tilt	22.0	-	-
	6	14.9	Cheek	22.0	0.44	0.66
			Tilt	22.0	0.33	0.38
	11	14.8	Cheek	22.0	0.31	0.61
			Tilt	22.0	-	-

Table 1: SAR measurement results for Sony Ericsson PY7A3880074 telephone at highest possible output power. Measured towards the head.

Note: Theoretical SAR value (worst case) for multiple transmitters (collateral transmitters) was **1.84** for Cheek Left phone position combine UMTS band 2 and Wlan. SAR to peak Location (dxy) has been measured and Antenna pair SAR to Peak Location Separation Ratio have been calculated like following:

$$d_{xy} = 7.28 \text{ cm}$$

$$\text{Ratio} = 1.84 / 7.28 = 0.239 < 0.3$$

The Volume scan SAR measurement has not been made according demand in KDB 648474 FCC document.

¹ Measured output values were provided by the customer.

Company Internal
REPORT

Prepared (also subject responsible if other)

LD/SEMC/CCMVALE *Ramadan Plicanic*

Approved

LD/SEMC/CCMVALEC *Peter Lindeborg*

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No.

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Band	Channel	Measured output power ¹ [dBm]	Position / Mode	Liquid T [°C]	Measured SAR [W/kg] 1g mass
GSM 850	128	28.7	Back / GPRS 4Tx	21.5	0.80
		32.3	Back / BT	21.5	0.45
		32.3	Back / PHF	21.5	0.33
	190	32.3	Back / BT	21.5	0.56
		28.8	Back / GPRS 4Tx	21.5	0.95
		30.7	Back / GPRS 2Tx	21.5	0.91
		29.7	Back / GPRS 3Tx	21.5	1.07
	251	28.7	Back / GPRS 4Tx	21.5	1.10
		23.9	Back / EGPRS 4Tx	21.5	0.35
		28.7	Front / GPRS 4Tx	21.5	0.79
GSM 1900	512	32.3	Back / BT	21.5	0.67
		30.5	Back / BT	21.7	0.48
		30.5	Back / PHF	21.7	0.49
	661	26.8	Back / GPRS 3Tx	21.7	0.64
		30.5	Back / PHF	21.7	0.61
		26.8	Back / GPRS 3Tx	21.7	0.74
		27.9	Back / GPRS 2Tx	21.7	0.65
	810	26.8	Back / GPRS 3Tx	21.7	0.77
		25.5	Back / GPRS 4Tx	21.7	0.73
		24.0	Back / EGPRS 3Tx	21.7	0.26
UMTS B2	9262	26.8	Front / GPRS 3Tx	21.7	0.63
		30.5	Back / PHF	21.7	0.64
		22.9	Back / BT	21.7	0.84
	9400	22.9	Back / PHF	21.7	0.85
		22.9	Back / PHF	21.7	0.91
UMTS B5	9400	22.9	Front / PHF	21.7	0.66
		22.8	Back / PHF	21.7	0.84
	4233	24.7	Back / BT	21.5	0.92
		24.7	Back / PHF	21.5	0.73
		24.8	Back / BT	21.5	0.93
WLAN (1Mbps)	4183	24.7	Back / BT	21.5	0.95
		24.7	Front / BT	21.5	0.69
	1	14.3	Front	22.0	0.04
		14.5	Back	22.0	0.04
	6	14.5	Front	22.0	0.07
		19.1	Front	22.0	0.06

Table 2: SAR measurement result for Sony Ericsson PY7A3880074 telephone at highest possible output power. Measured towards the body.

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CCDA09:581

Date

091221

Rev

B

Reference

File

9 References

- [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 802.11 a/b/g Transmitters", May 2007.
- [6] FCC KDB648474. "SAR Evaluation Consideration for HANDSETS with Multiple Transmitters and Antenna", April 2008.
- [7] 3GPP TS 34.121 Universal Mobile Telecommunications System (UMTS); Terminal Conformance Specification, Radio Transmission and Reception (FDD).
- [8] FCC PBA Case Number #703553 (Permit But Ask process)



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9.3

Attachments

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

Date/Time: 2009-11-05 08:49:00

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement 835MHz Body_091105.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: $f = 835 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

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 186

P=100mW, 15mm distance/Area Scan (61x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 1.05 mW/g

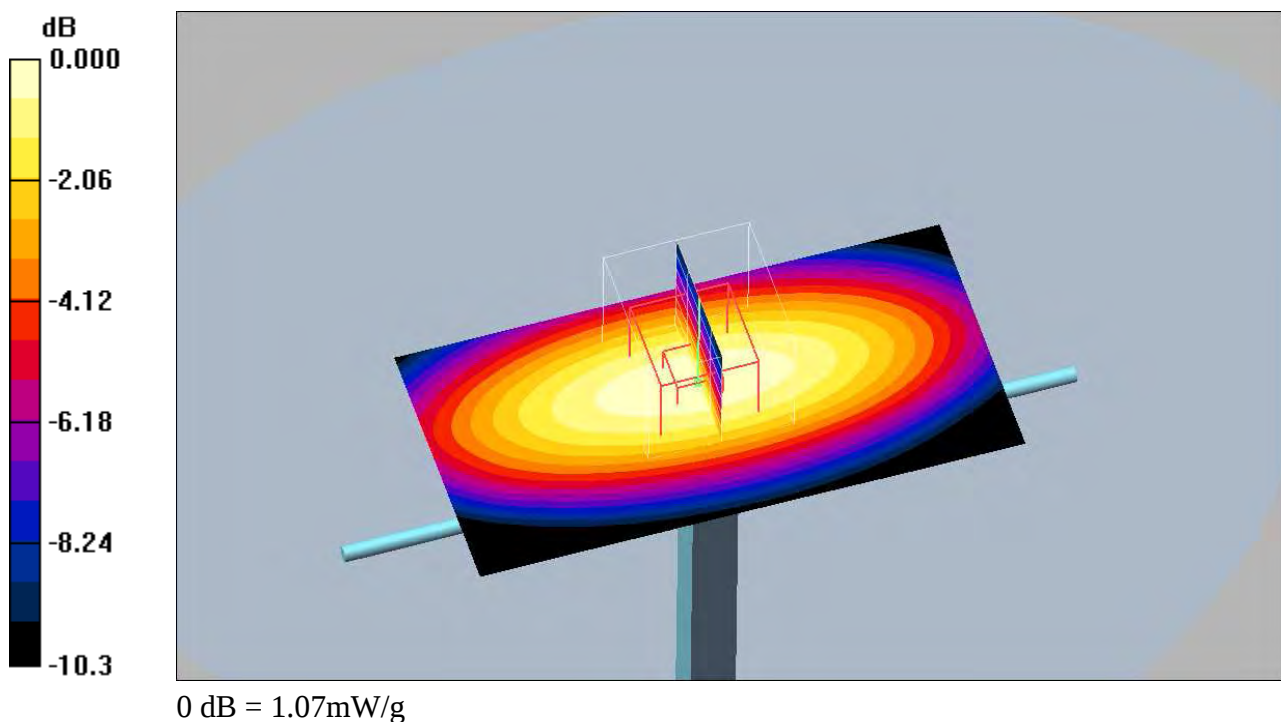
P=100mW, 15mm distance/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.2 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.987 mW/g; SAR(10 g) = 0.652 mW/g

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



Date/Time: 2009-11-12 15:24:24

Test Laboratory: Sony Ericsson Mobile Communications

File Name: Verification Measurement 2450MHz Body_091112.da4**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:745****Program Name: Verification Measurement on 2450MHz with BSL**

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

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.92 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(3.86, 3.86, 3.86); 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 186

P=100mW, 10mm distance/Area Scan (61x101x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 6.29 mW/g

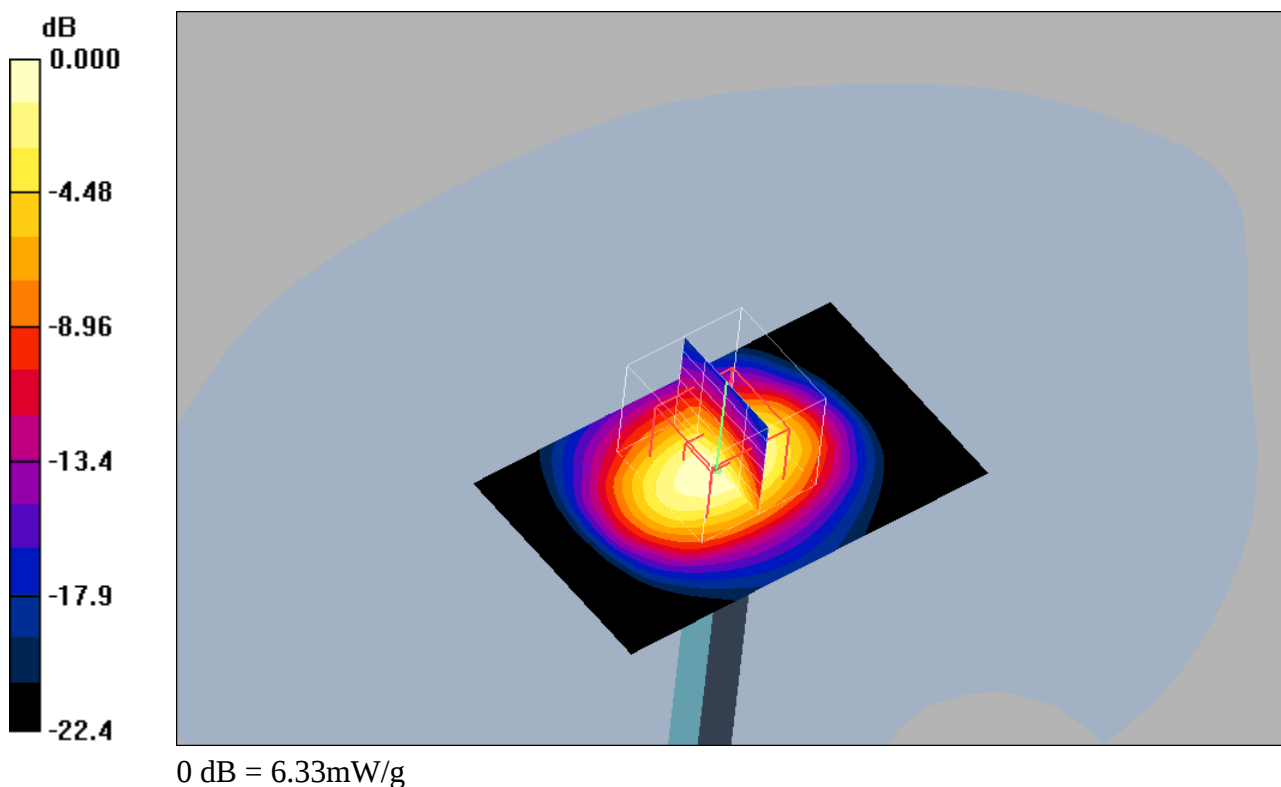
P=100mW, 10mm distance/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 55.4 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 13.1 W/kg

SAR(1 g) = 5.67 mW/g; SAR(10 g) = 2.57 mW/g

Maximum value of SAR (measured) = 6.33 mW/g



Date/Time: 2009-10-26 10:09:03

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement_1900MHz_Head_091026.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: $f = 1900 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

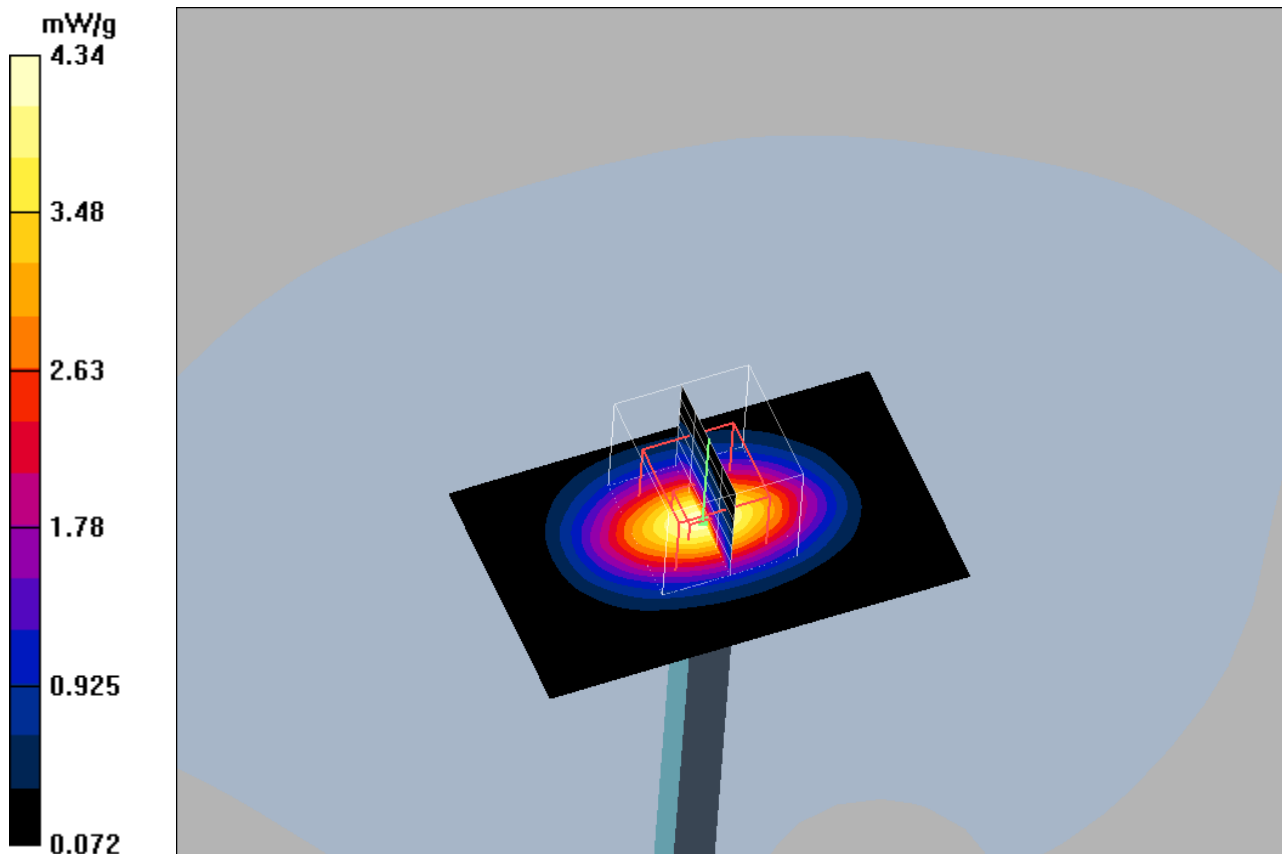
- Probe: ET3DV6 - SN1569; ConvF(4.99, 4.99, 4.99); Calibrated: 2009-01-12

- 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: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 4.21 mW/g **P=100mW, 10mm distance/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 54.4 V/m ; Power Drift = 0.008 dB Peak SAR (extrapolated) = 6.41 W/kg **SAR(1 g) = 3.82 mW/g ; SAR(10 g) = 2.01 mW/g** Maximum value of SAR (measured) = 4.34 mW/g 

Date/Time: 2009-10-23 10:32:40

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement 1900MHz Head 091023.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: $f = 1900 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$

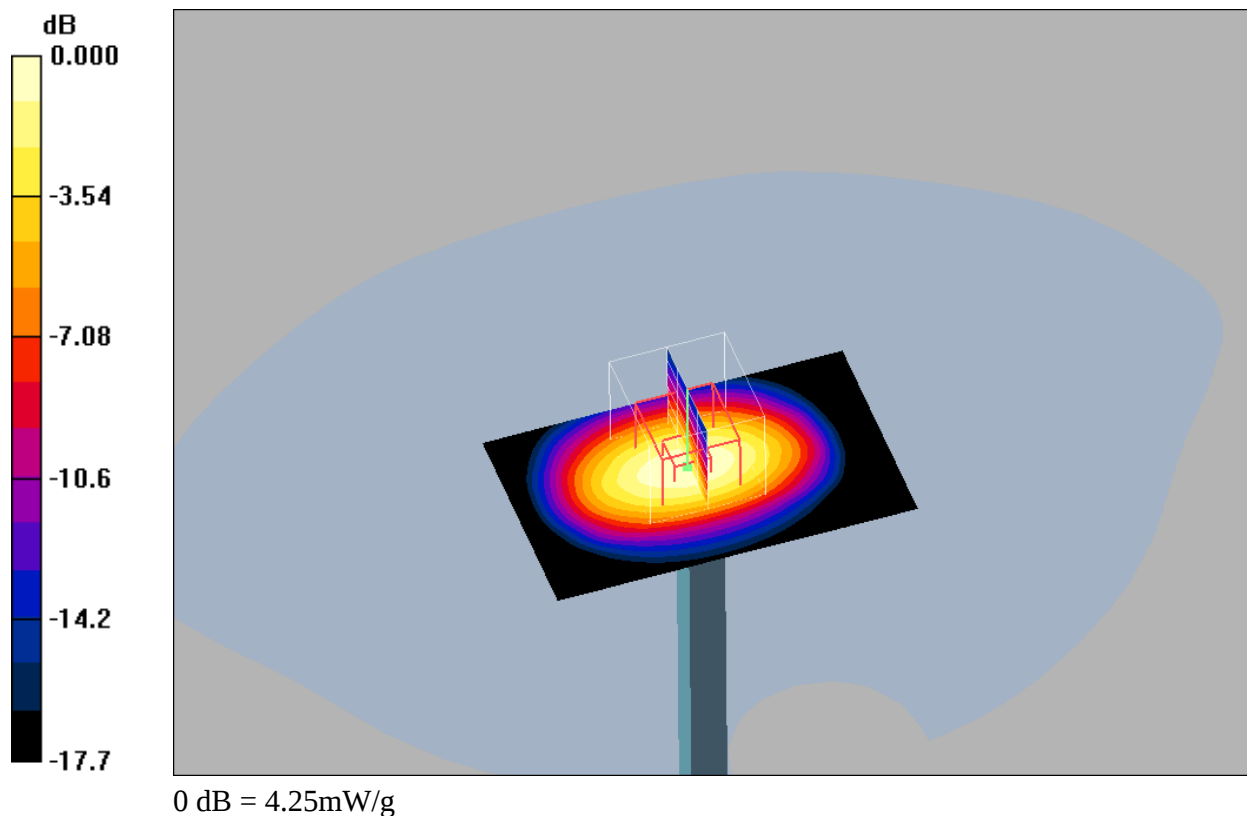
Phantom section: Flat Section

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: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (interpolated) = 4.17 mW/g

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

Reference Value = 54.3 V/m ; Power Drift = 0.035 dB Peak SAR (extrapolated) = 6.23 W/kg **SAR(1 g) = 3.76 mW/g ; SAR(10 g) = 1.99 mW/g** Maximum value of SAR (measured) = 4.25 mW/g 

Date/Time: 2009-11-04 10:02:51

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement 1900MHz Body_091104.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: $f = 1900 \text{ MHz}$; $\sigma = 1.59 \text{ mho/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$

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 186

P=100mW, 10mm distance/Area Scan (61x101x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 4.32 mW/g

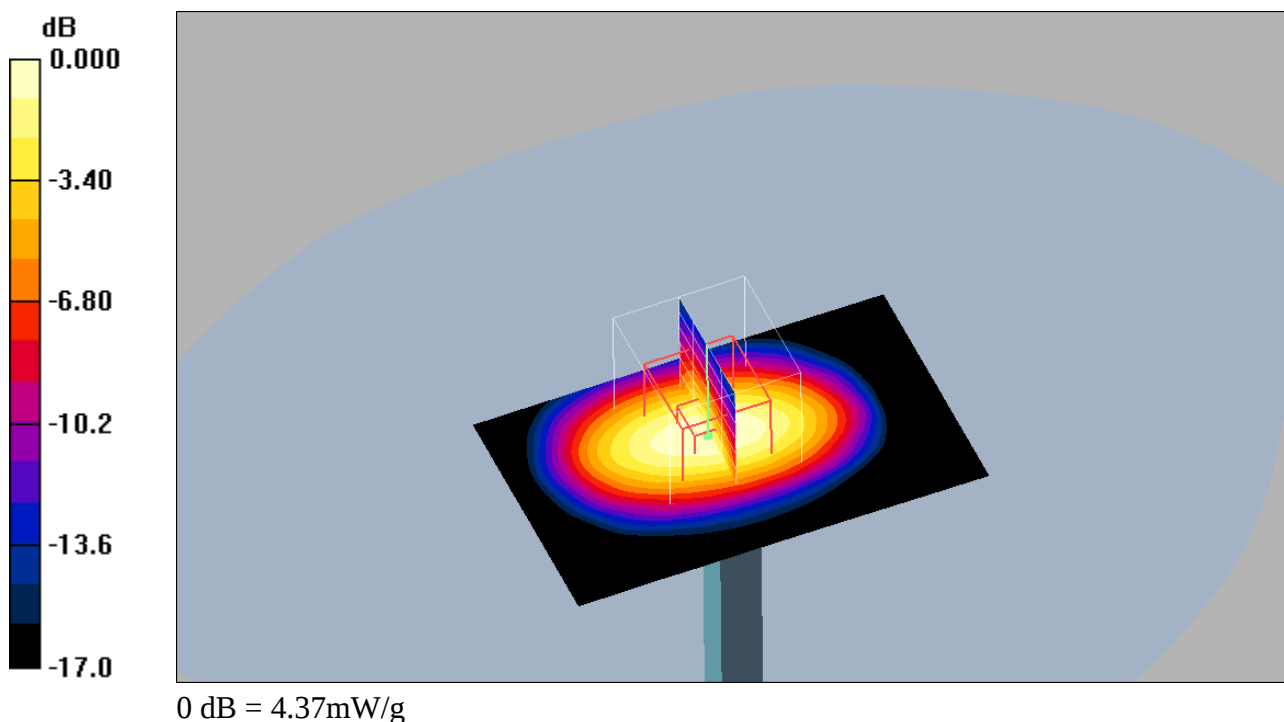
P=100mW, 10mm distance/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 50.2 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 6.47 W/kg

SAR(1 g) = 3.88 mW/g; SAR(10 g) = 2.07 mW/g

Maximum value of SAR (measured) = 4.37 mW/g



Date/Time: 2009-11-03 10:02:51

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement 1900MHz Body_091103.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: $f = 1900 \text{ MHz}$; $\sigma = 1.59 \text{ mho/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$

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 186

P=100mW, 10mm distance/Area Scan (61x101x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 4.32 mW/g

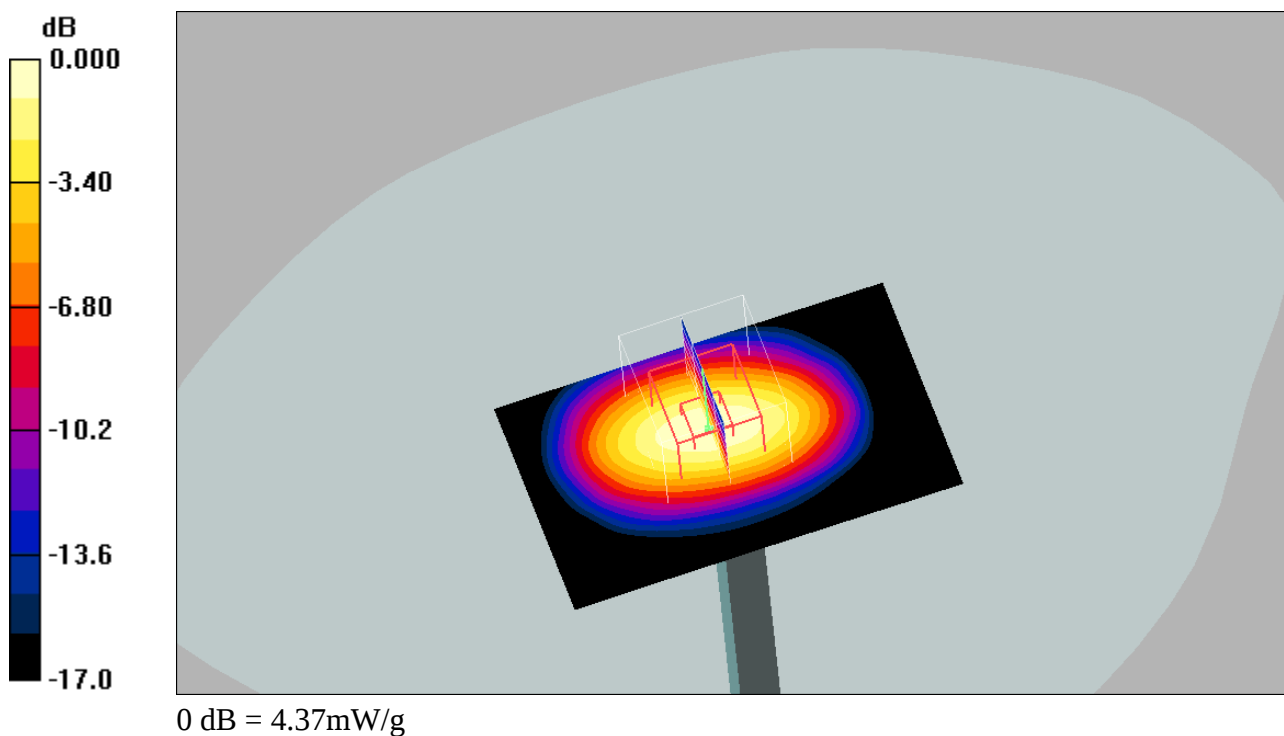
P=100mW, 10mm distance/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 50.2 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 6.47 W/kg

SAR(1 g) = 3.88 mW/g; SAR(10 g) = 2.07 mW/g

Maximum value of SAR (measured) = 4.37 mW/g



Date/Time: 2009-10-07 08:28:50

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement_835MHz_Head_091007.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: $f = 835 \text{ MHz}$; $\sigma = 0.878 \text{ mho/m}$; $\epsilon_r = 40.6$; $\rho = 1000 \text{ kg/m}^3$

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

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

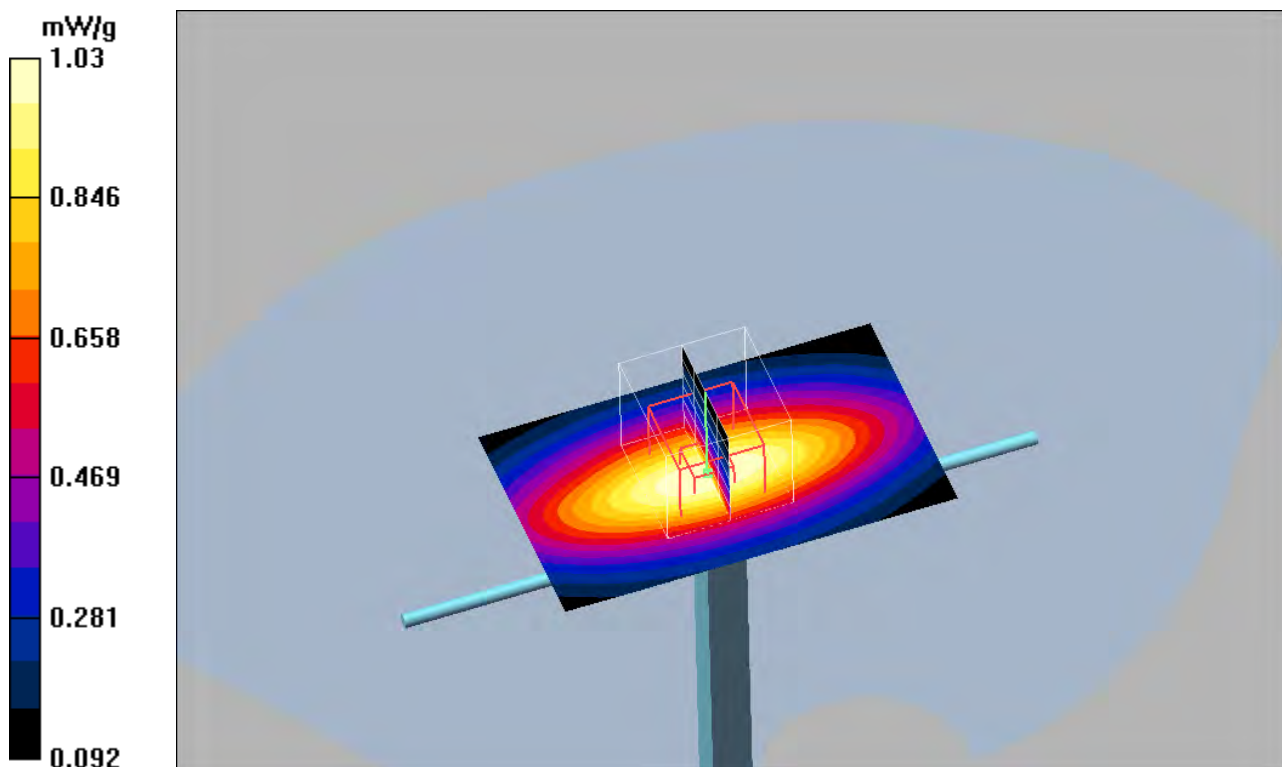
P=100mW, 15mm distance/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 35.3 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.955 mW/g; SAR(10 g) = 0.626 mW/g

Maximum value of SAR (measured) = 1.03 mW/g



Date/Time: 2009-10-06 09:21:56

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement_835MHz_Head_091006.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: $f = 835 \text{ MHz}$; $\sigma = 0.878 \text{ mho/m}$; $\epsilon_r = 40.6$; $\rho = 1000 \text{ kg/m}^3$

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

Maximum value of SAR (interpolated) = 1.05 mW/g

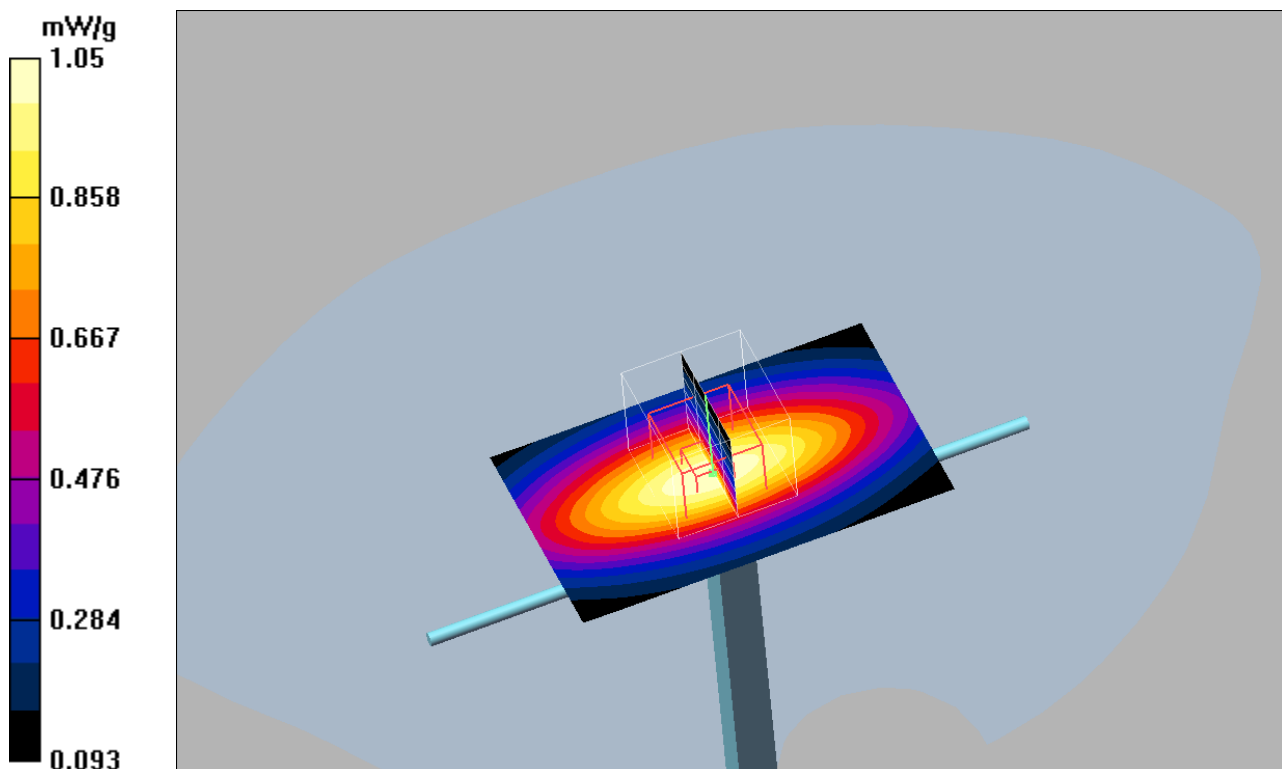
P=100mW, 15mm distance/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 35.6 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.971 mW/g; SAR(10 g) = 0.636 mW/g

Maximum value of SAR (measured) = 1.05 mW/g



Date/Time: 2009-11-06 09:59:27

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement 835MHz Body_091106.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: $f = 835 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

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 186

P=100mW, 15mm distance/Area Scan (61x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

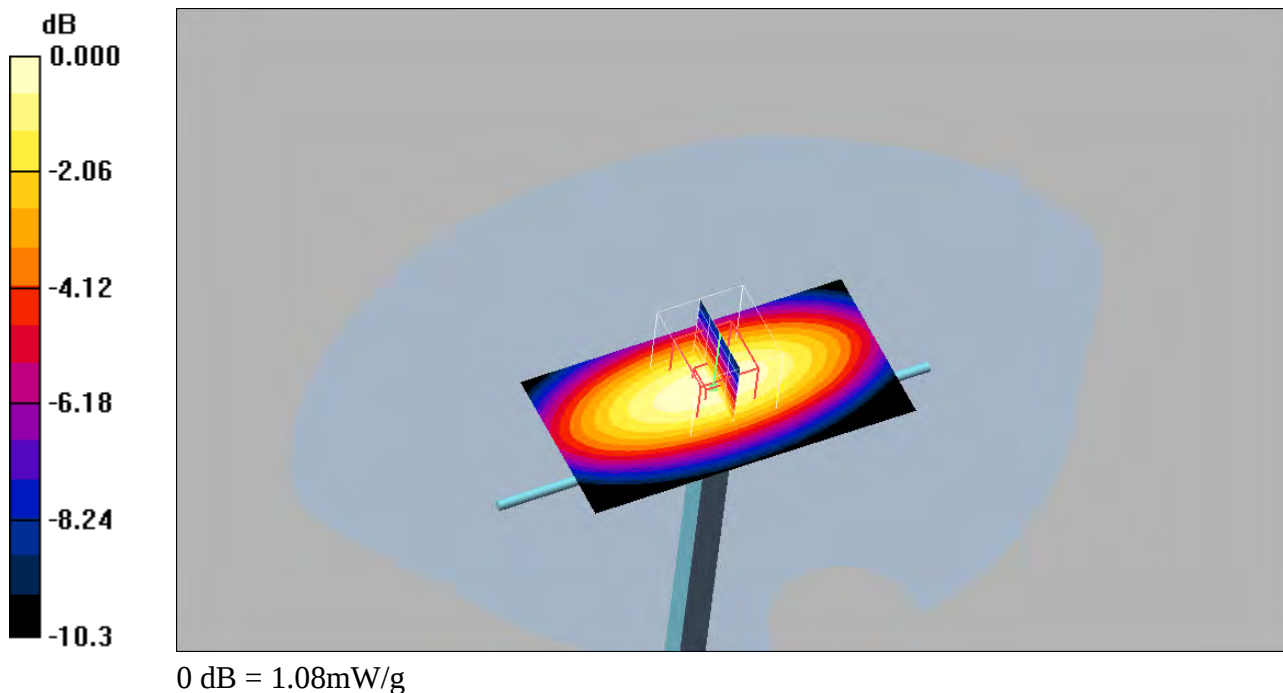
P=100mW, 15mm distance/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.4 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.998 mW/g; SAR(10 g) = 0.658 mW/g

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



Date/Time: 2009-11-12 09:22:04

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Verification Measurement_2450MHz_Head_091112.da4](#)**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:745****Program Name: Verification Measurement on 2450MHz with HSL**

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

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

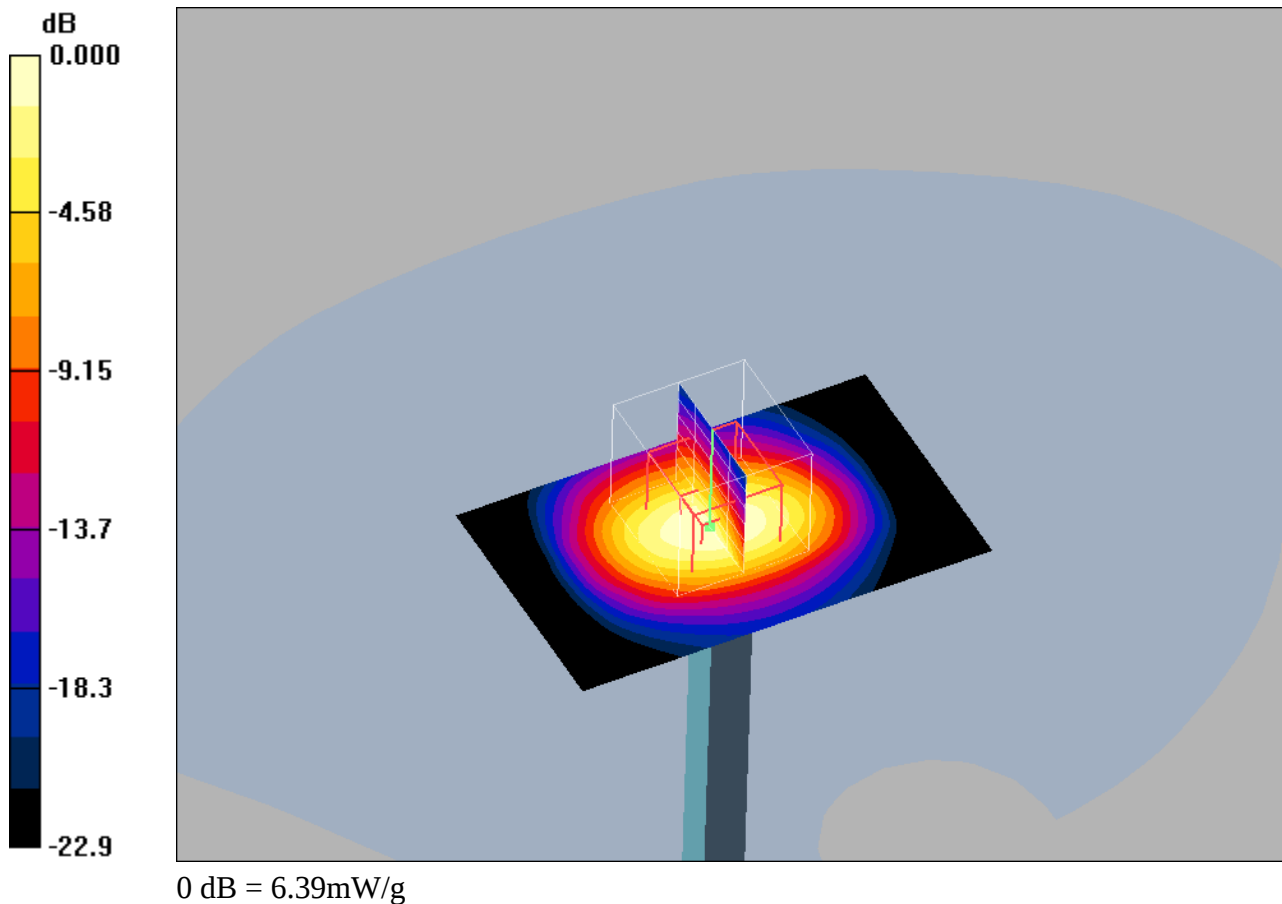
- Probe: ET3DV6 - SN1569; ConvF(4.32, 4.32, 4.32); Calibrated: 2009-01-12

- 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: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 6.36 mW/g **P=100mW, 10mm distance/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 58.8 V/m ; Power Drift = 0.017 dB Peak SAR (extrapolated) = 12.3 W/kg **SAR(1 g) = 5.69 mW/g ; SAR(10 g) = 2.61 mW/g** Maximum value of SAR (measured) = 6.39 mW/g 

Date/Time: 2009-11-12 10:37:01

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Right_Wlan_091112_RP.da4](#)

DUT: PY73880074; Type: Wlan; Serial: #16725
Program Name: SAR Measurement on the Head

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³
 Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.32, 4.32, 4.32); 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

Right Cheek Middle/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 0.702 mW/g

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

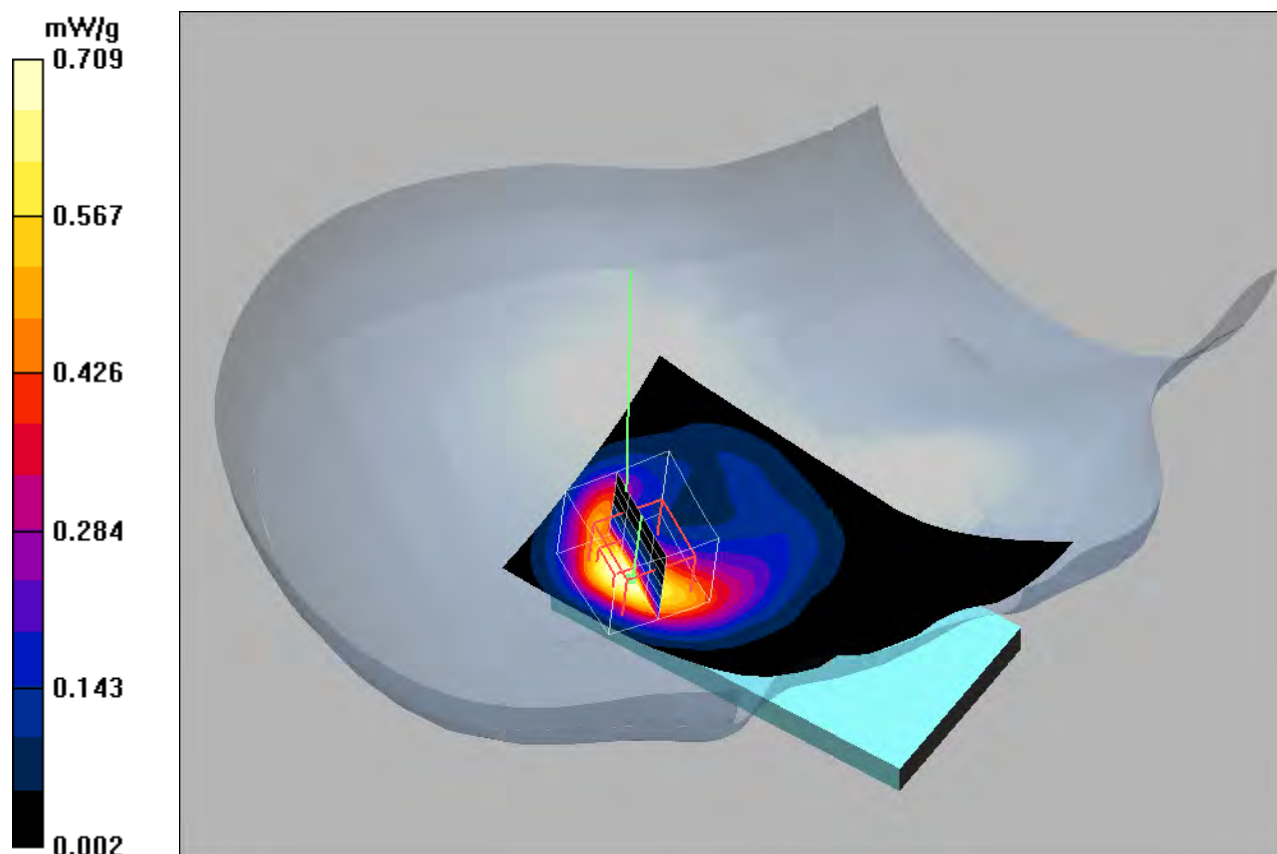
Reference Value = 14.5 V/m; Power Drift = -0.112 dB

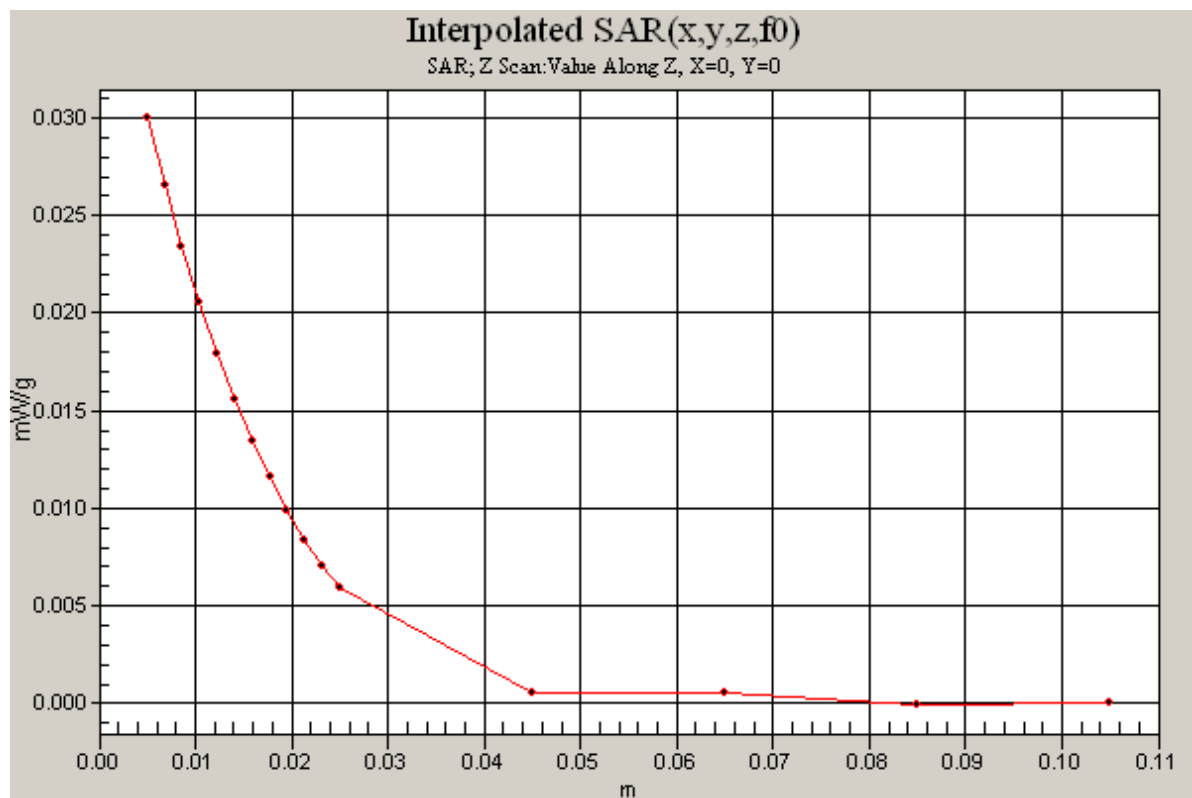
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.657 mW/g; SAR(10 g) = 0.320 mW/g

Maximum value of SAR (measured) = 0.709 mW/g

Right Cheek Middle/Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm
 Maximum value of SAR (interpolated) = 0.030 mW/g





Date/Time: 2009-10-26 14:32:49

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Right_UMTSband2_091026_RP.da4](#)

DUT: PY73880074; Type: GSM, UMTS; Serial: #16435
Program Name: SAR Measurement on the Head

Communication System: UMTS_band2; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$
 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 (81x141x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (interpolated) = 0.585 mW/g

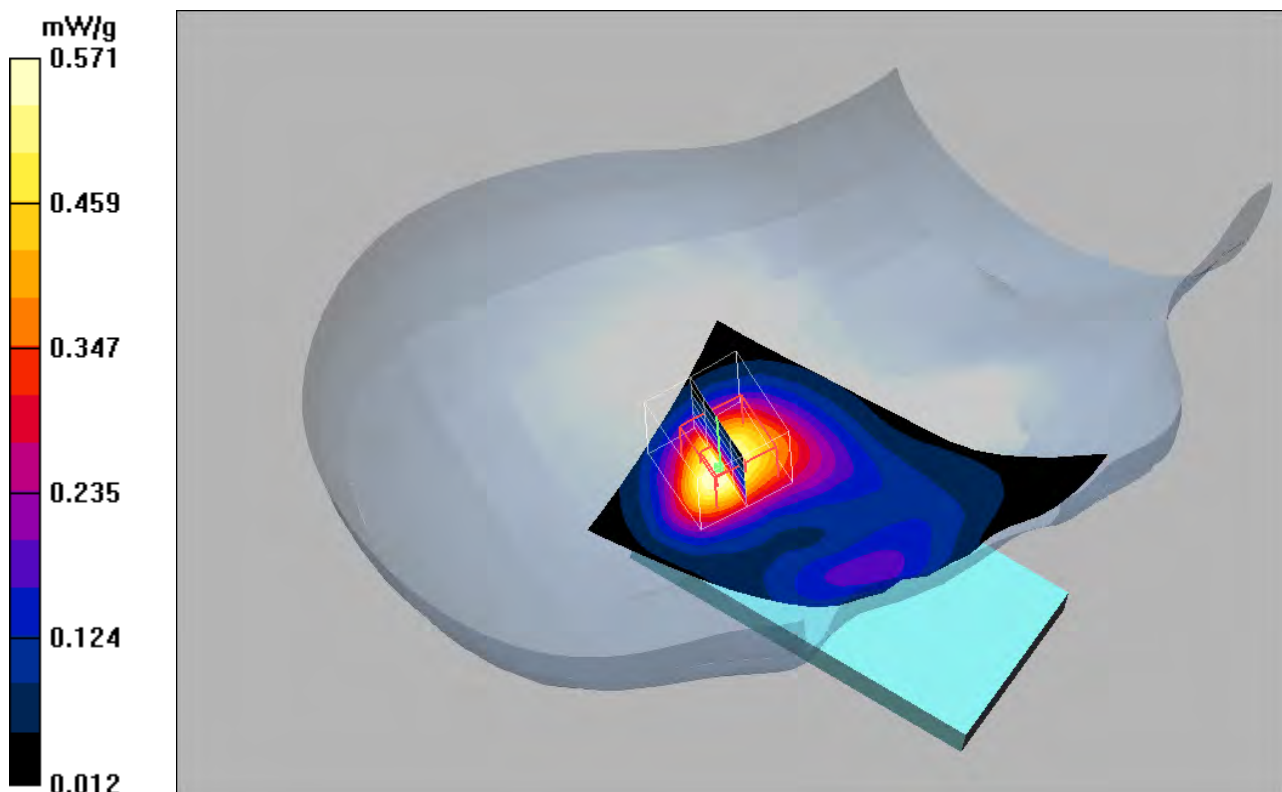
Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 18.6 V/m ; Power Drift = 0.132 dB

Peak SAR (extrapolated) = 0.711 W/kg

SAR(1 g) = 0.521 mW/g ; SAR(10 g) = 0.320 mW/g

Maximum value of SAR (measured) = 0.571 mW/g



Date/Time: 2009-10-26 13:26:43

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Right_UMTSband2_091026_RP.da4](#)

DUT: PY73880074; Type: GSM, UMTS; Serial: #16435
Program Name: SAR Measurement on the Head

Communication System: UMTS_band2; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$
 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)
- 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 Middle/Area Scan (81x141x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (interpolated) = 1.18 mW/g

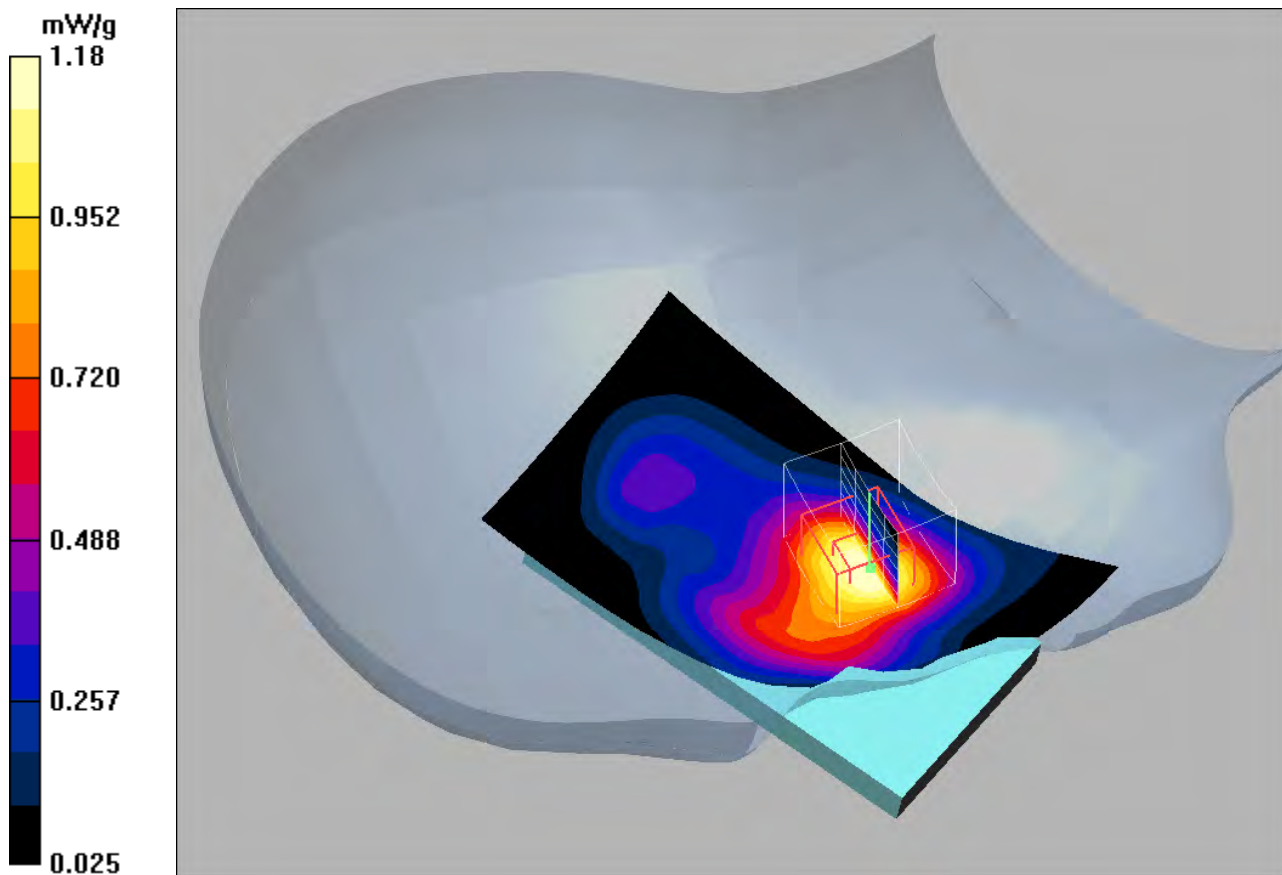
Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.0 V/m ; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 1.1 mW/g ; SAR(10 g) = 0.707 mW/g

Maximum value of SAR (measured) = 1.18 mW/g



Date/Time: 2009-10-07 14:49:33

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Right_UMTSB5_091007_RP.da4](#)

DUT: PY7A3880074; Type: GSM, UMTS; Serial: #16435
Program Name: SAR Measurement on the Head

Communication System: UMTS_band5; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.878 \text{ mho/m}$; $\epsilon_r = 40.6$; $\rho = 1000 \text{ kg/m}^3$

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

Rigt Tilt Middle/Area Scan (81x141x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.468 mW/g

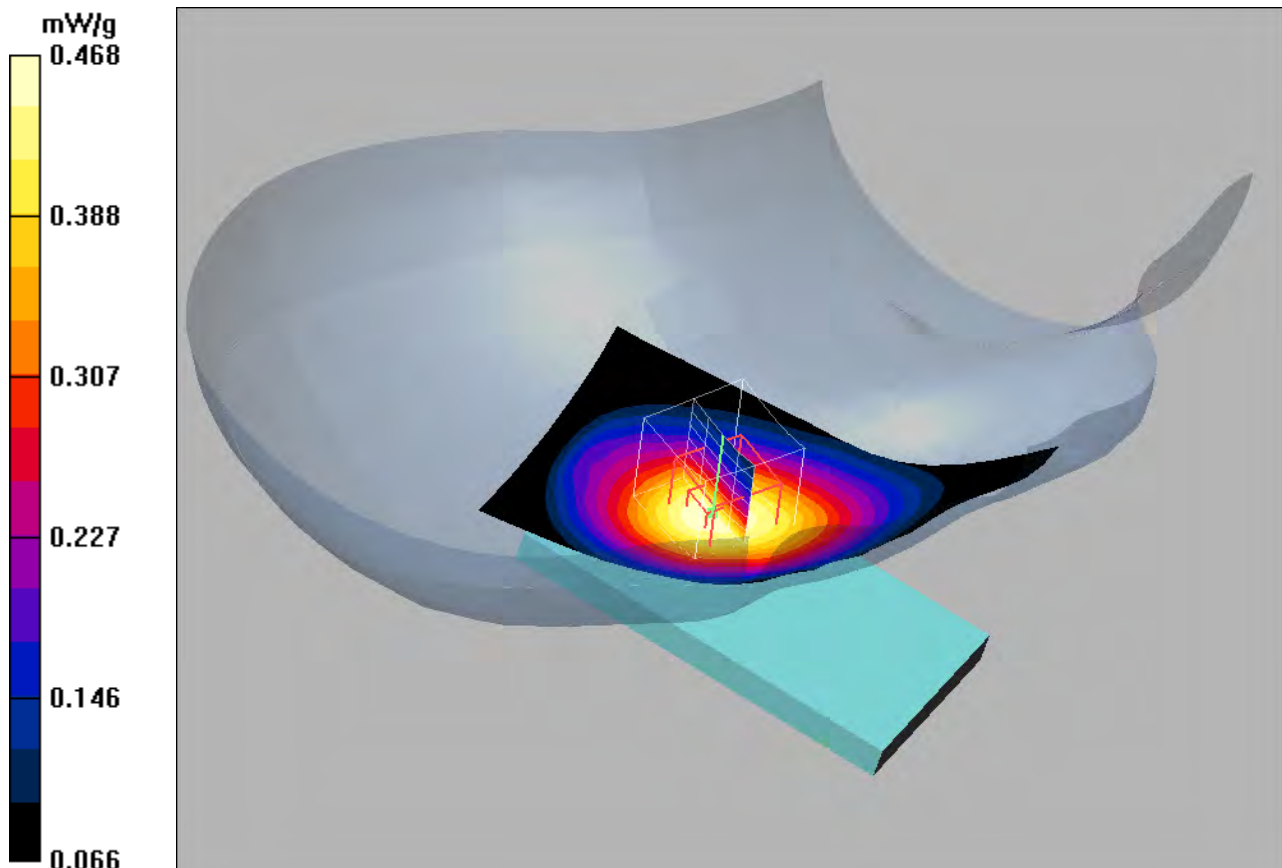
Rigt Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.7 V/m ; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 0.542 W/kg

SAR(1 g) = 0.444 mW/g ; SAR(10 g) = 0.338 mW/g

Maximum value of SAR (measured) = 0.468 mW/g



Date/Time: 2009-10-07 15:08:38

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Right_UMTSB5_091007_RP.da4](#)

DUT: PY7A3880074; Type:GSM, UMTS; Serial: #16435
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; $\sigma = 0.876$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³
 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 (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.834 mW/g

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

Reference Value = 8.80 V/m; Power Drift = 0.188 dB

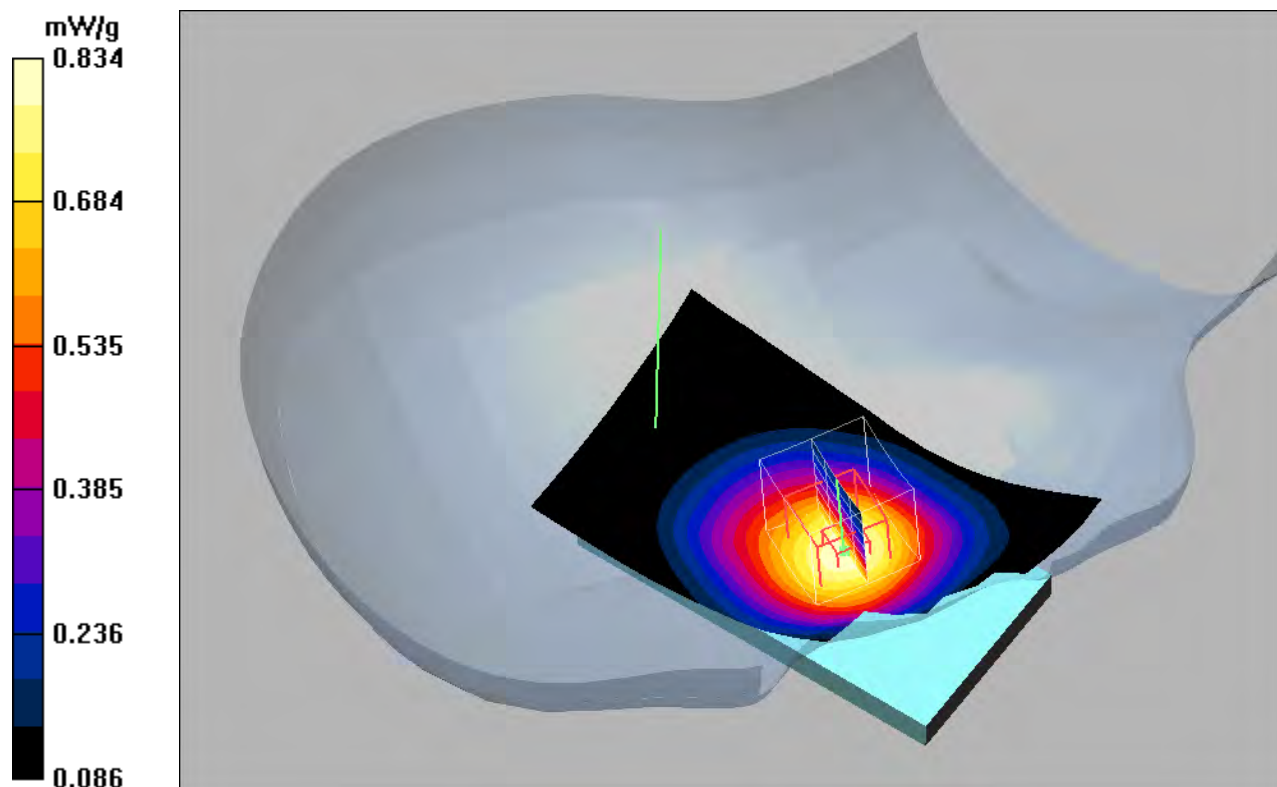
Peak SAR (extrapolated) = 0.967 W/kg

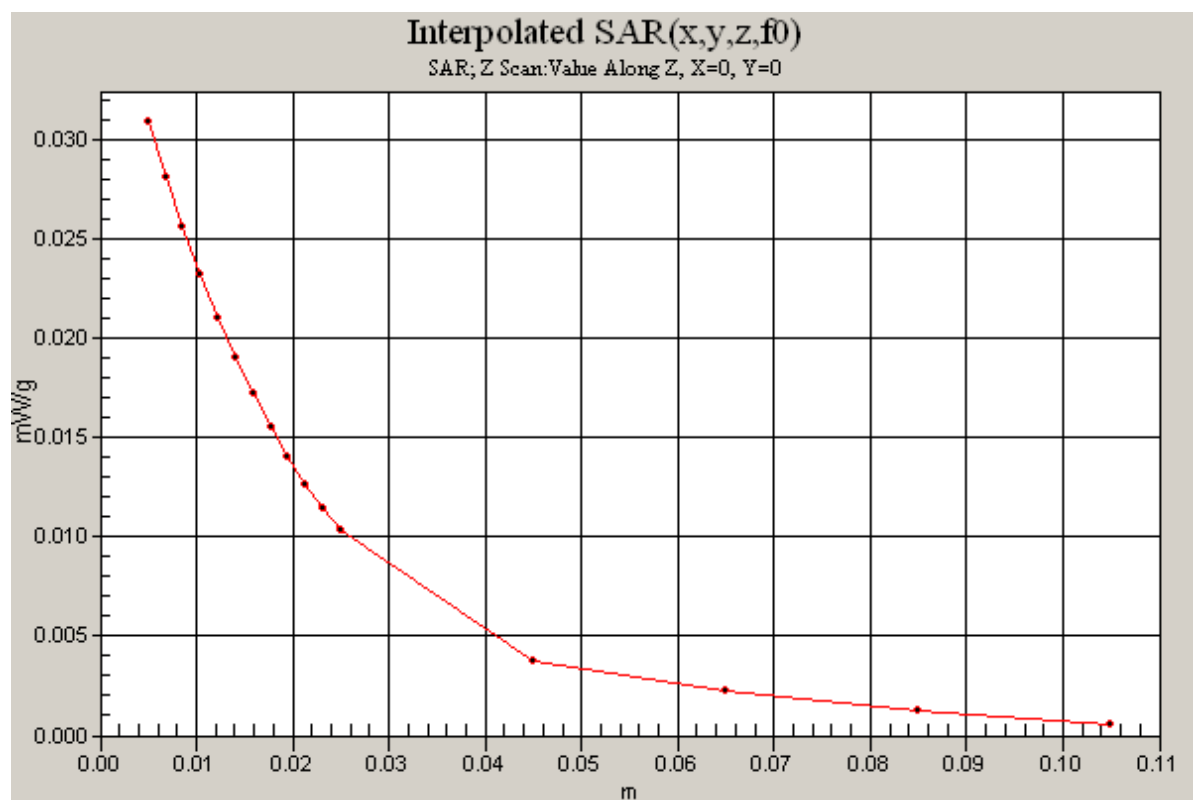
SAR(1 g) = 0.788 mW/g; SAR(10 g) = 0.589 mW/g

Maximum value of SAR (measured) = 0.834 mW/g

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

Maximum value of SAR (interpolated) = 0.031 mW/g





Date/Time: 2009-10-23 11:54:54

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Right GSM1900_091023_RP.da4](#)**DUT: PY73880074; Type: GSM, UMTS; Serial: #16435****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; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

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 (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.336 mW/g

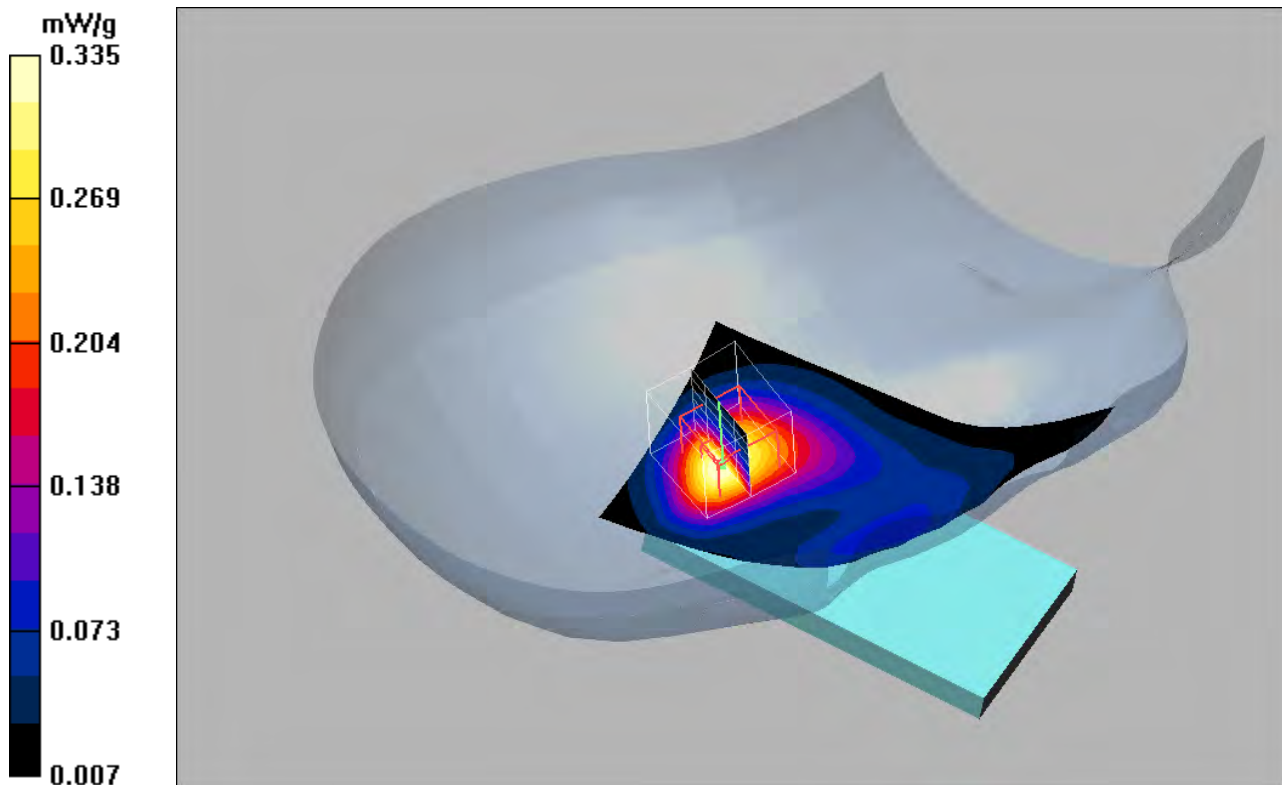
Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = 0.167 dB

Peak SAR (extrapolated) = 0.423 W/kg

SAR(1 g) = 0.304 mW/g; SAR(10 g) = 0.187 mW/g

Maximum value of SAR (measured) = 0.335 mW/g



Date/Time: 2009-10-06 10:14:04

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Right_GSM850_091006_RP.da4](#)

DUT: PY7A3880074; Type: GSM, UMTS; Serial: #16435
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; $\sigma = 0.878$ mho/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³
 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 (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.265 mW/g

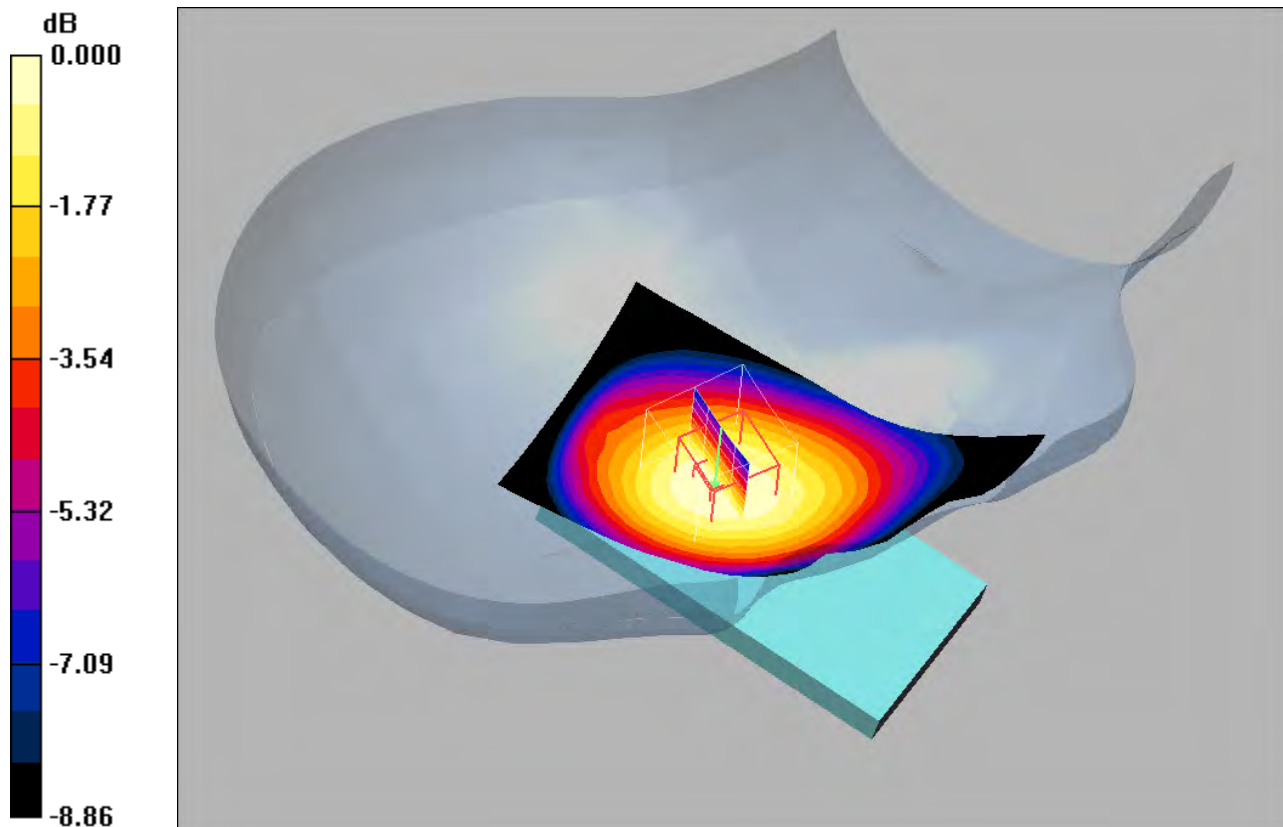
Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.7 V/m; Power Drift = 0.076 dB

Peak SAR (extrapolated) = 0.313 W/kg

SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.191 mW/g

Maximum value of SAR (measured) = 0.265 mW/g



0 dB = 0.265mW/g

Date/Time: 2009-10-23 11:21:26

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Right_GSM1900_091023_RP.da4](#)

DUT: PY73880074; Type: GSM, UMTS; Serial: #16435
Program Name: SAR Measurement on the Head

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³
 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 High/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 0.877 mW/g

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

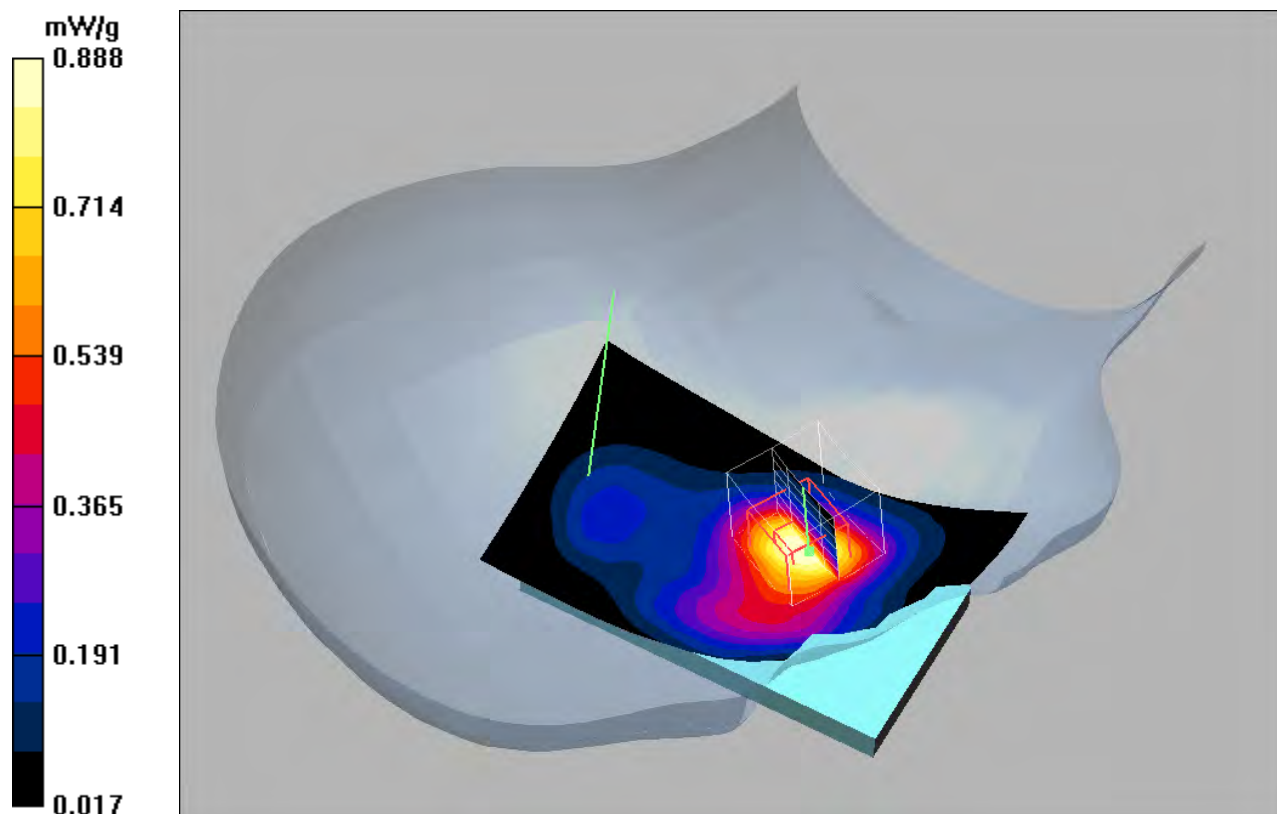
Reference Value = 11.1 V/m; Power Drift = 0.098 dB

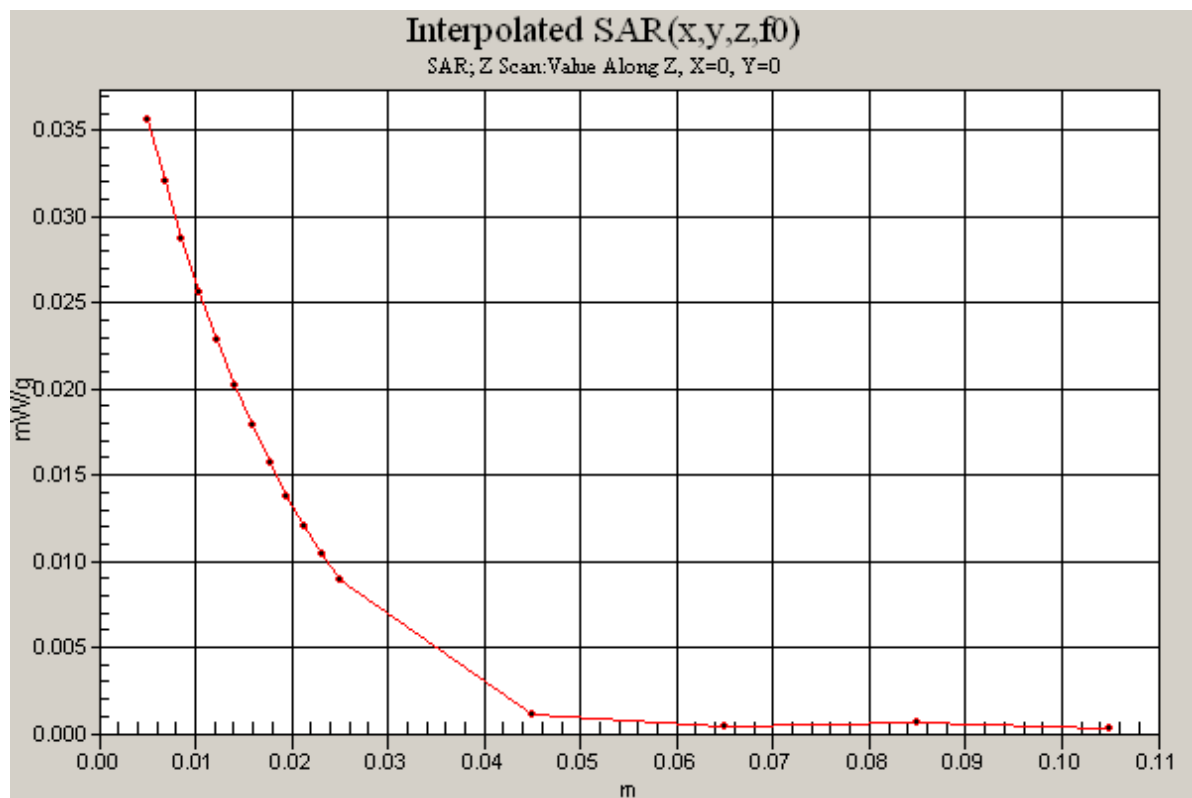
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.827 mW/g; SAR(10 g) = 0.510 mW/g

Maximum value of SAR (measured) = 0.888 mW/g

Right Cheek High/Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm
 Maximum value of SAR (interpolated) = 0.036 mW/g





Date/Time: 2009-10-06 10:30:49

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Right_GSM850_091006_RP.da4](#)**DUT: PY7A3880074; Type: GSM, UMTS; Serial: #16435****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; $\sigma = 0.888$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

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 (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.550 mW/g

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

Reference Value = 7.71 V/m; Power Drift = 0.118 dB

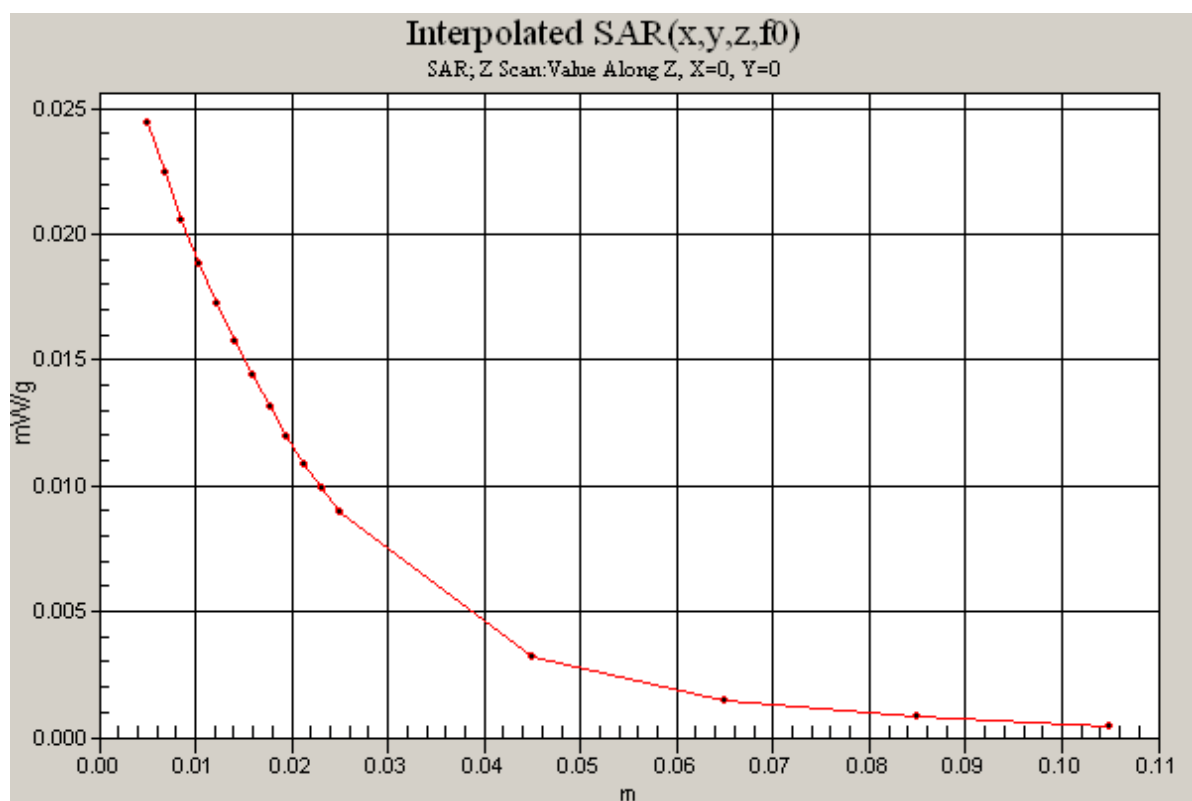
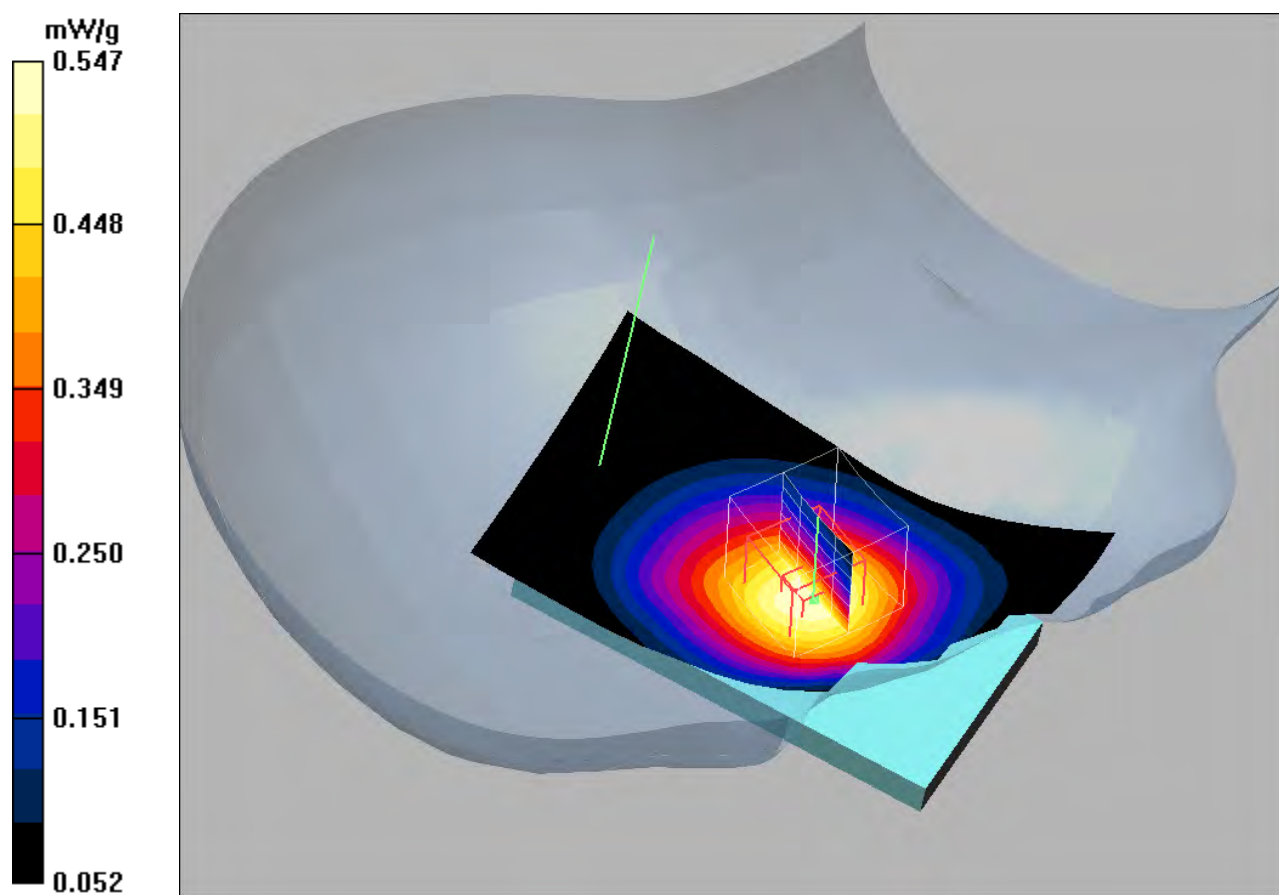
Peak SAR (extrapolated) = 0.630 W/kg

SAR(1 g) = 0.515 mW/g; SAR(10 g) = 0.384 mW/g

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

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

Maximum value of SAR (interpolated) = 0.024 mW/g



Date/Time: 2009-11-12 13:21:54

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Left Wlan_091112_RP.da4](#)

DUT: PY73880074; Type: Wlan; Serial: #16725
Program Name: SAR Measurement on the Head

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.32, 4.32, 4.32); 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 (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.350 mW/g

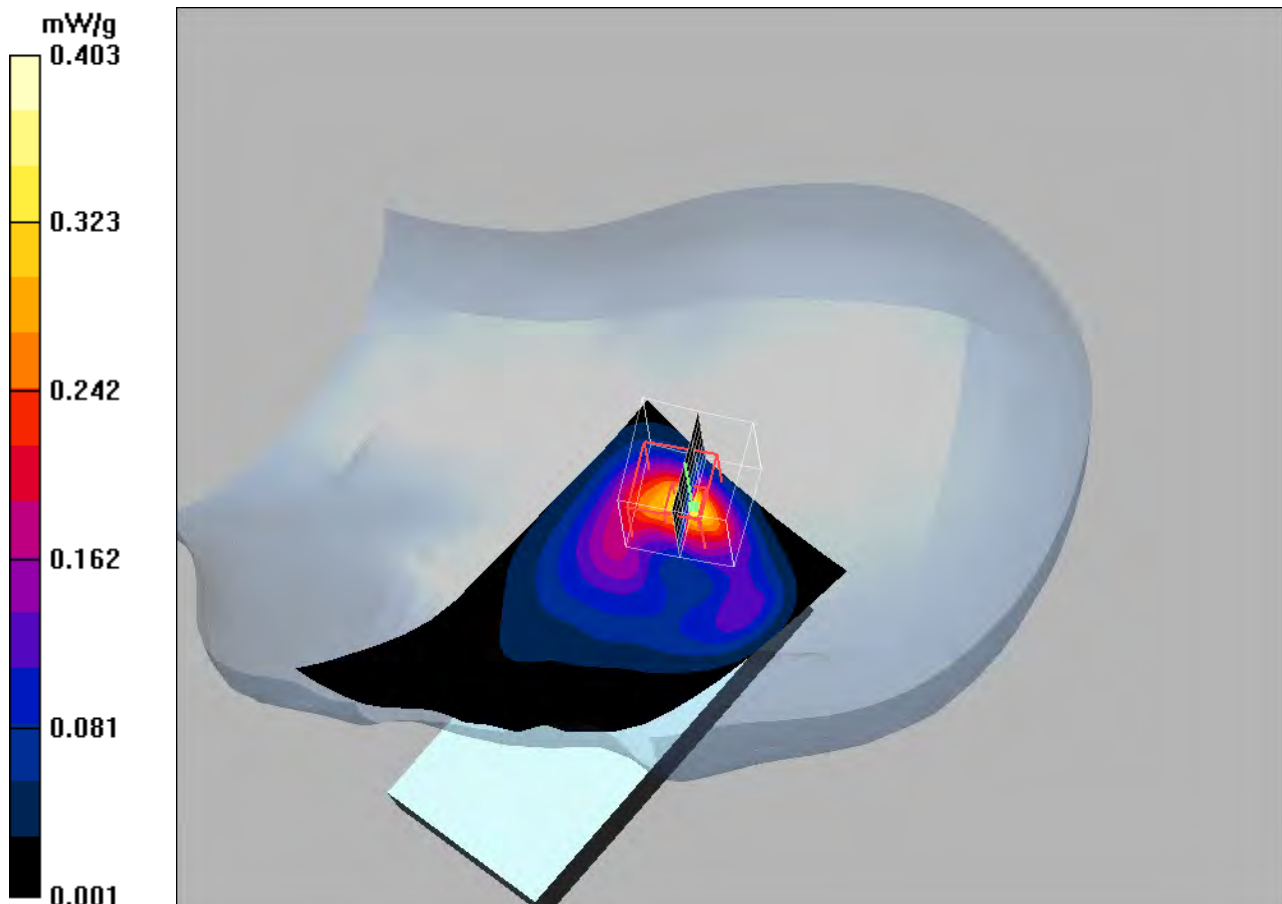
Left Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.9 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.788 W/kg

SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.145 mW/g

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



Date/Time: 2009-11-12 12:58:45

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Left Wlan_091112_RP.da4](#)

DUT: PY73880074; Type: Wlan; Serial: #16725
Program Name: SAR Measurement on the Head

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.32, 4.32, 4.32); 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

Left Cheek Middle/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 0.564 mW/g

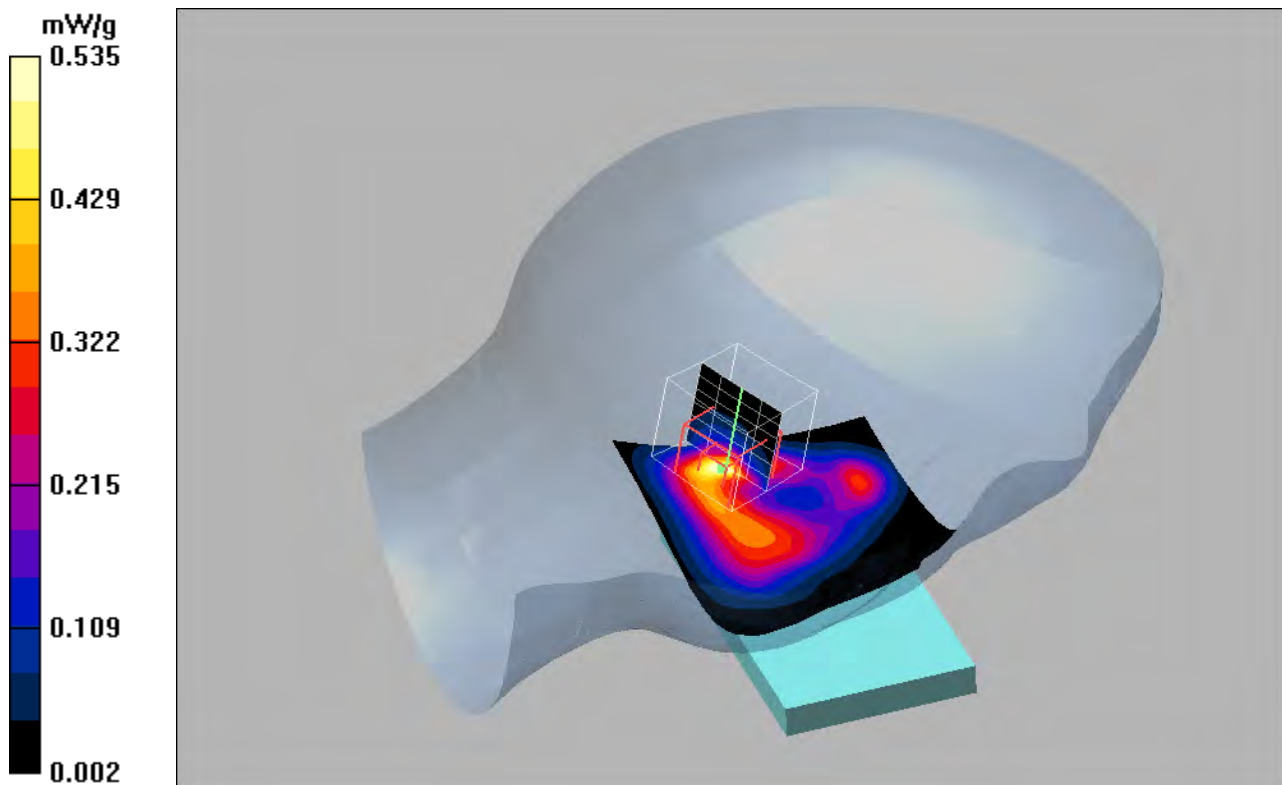
Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.9 V/m; Power Drift = -0.226 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.444 mW/g; SAR(10 g) = 0.200 mW/g

Maximum value of SAR (measured) = 0.535 mW/g



Date/Time: 2009-10-26 10:53:49

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Left_UMTSband2_091026_RP.da4](#)

DUT: PY73880074; Type: GSM, UMTS; Serial: #16435
Program Name: SAR Measurement on the Head

Communication System: UMTS_band2; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$
 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 (81x141x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

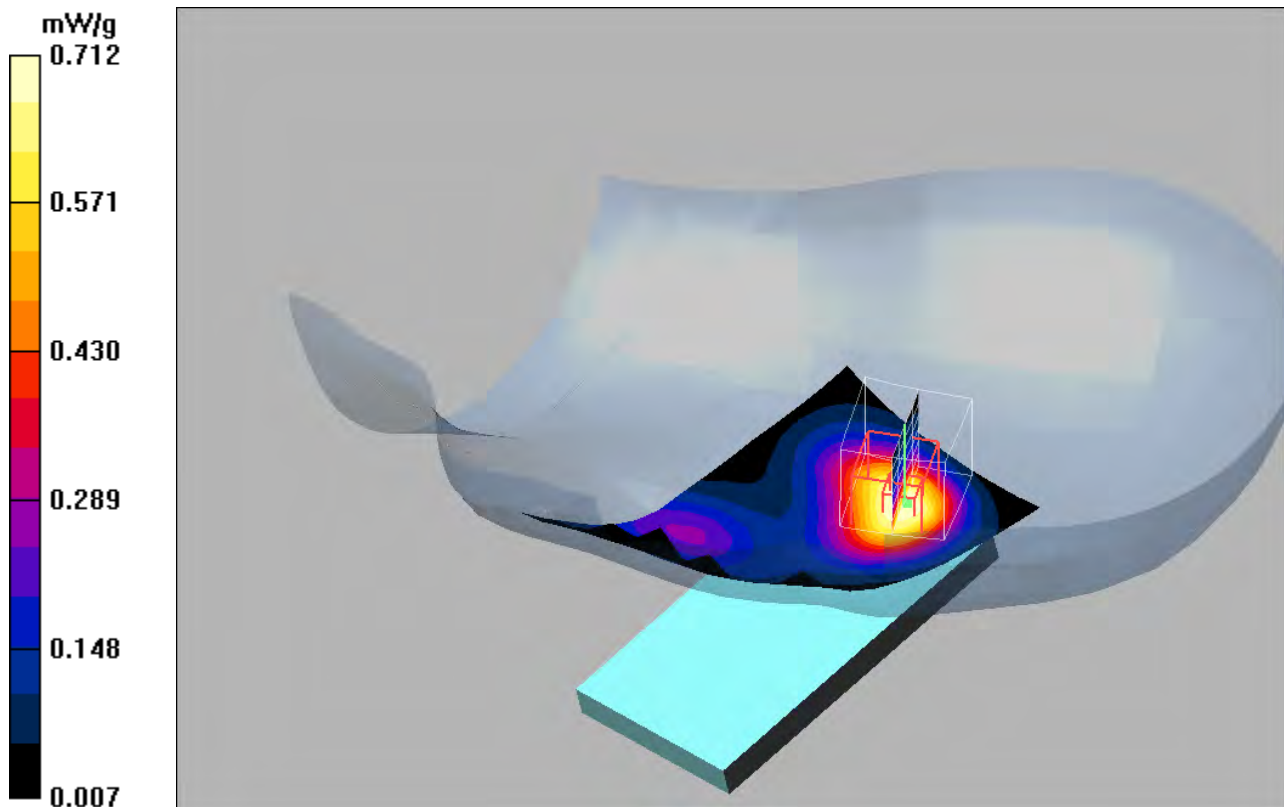
Left Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.6 V/m ; Power Drift = 0.211 dB

Peak SAR (extrapolated) = 0.924 W/kg

SAR(1 g) = 0.665 mW/g ; SAR(10 g) = 0.419 mW/g

Maximum value of SAR (measured) = 0.712 mW/g



Date/Time: 2009-10-26 11:12:38

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Left_UMTSband2_091026_RP.da4](#)

DUT: PY73880074; Type: GSM, UMTS; Serial: #16435
Program Name: SAR Measurement on the Head

Communication System: UMTS_band2; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³
 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) 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

Left Cheek Middle/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 1.55 mW/g

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

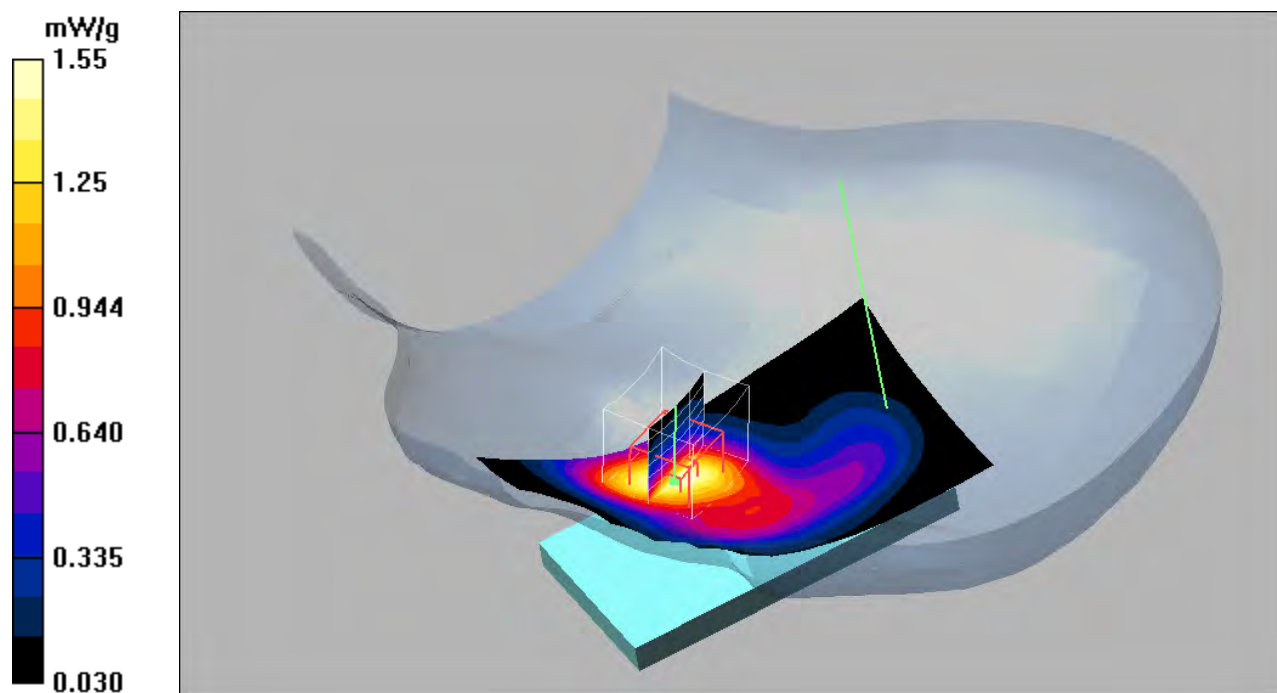
Reference Value = 13.4 V/m; Power Drift = 0.169 dB

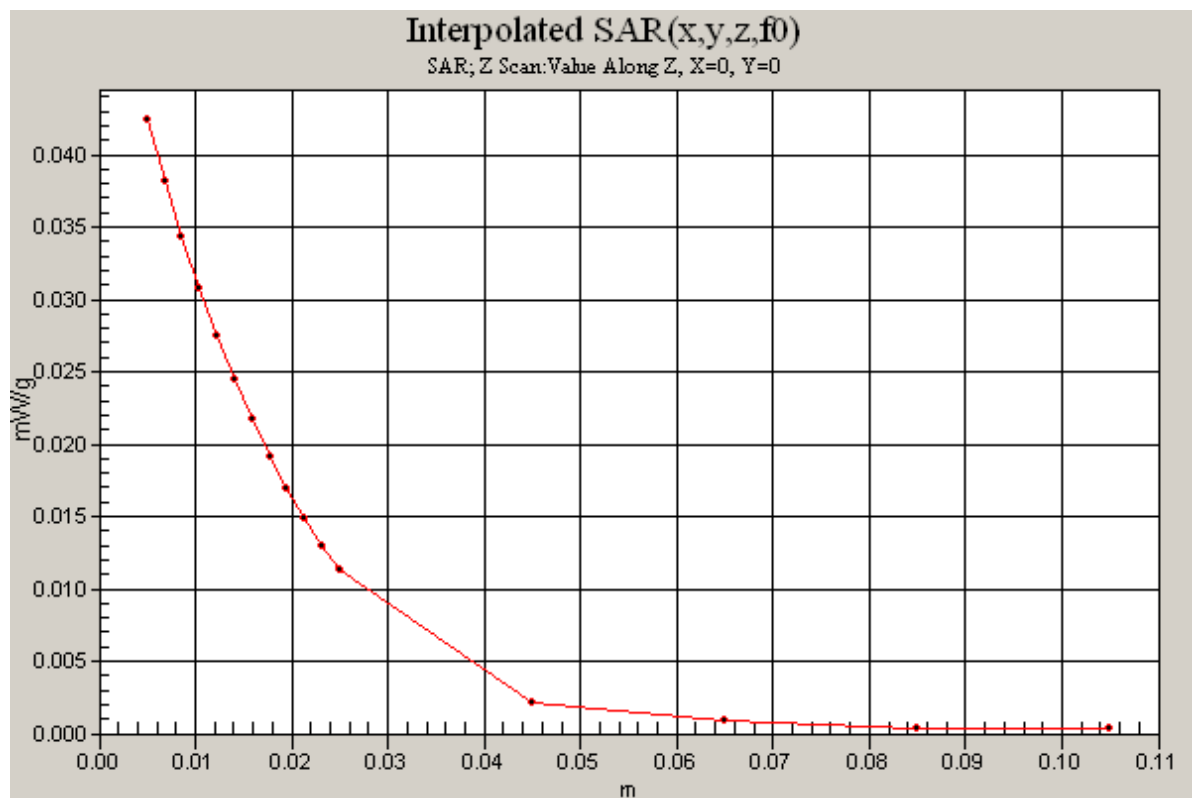
Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 1.4 mW/g; SAR(10 g) = 0.855 mW/g

Maximum value of SAR (measured) = 1.55 mW/g

Left Cheek Middle/Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm
 Maximum value of SAR (interpolated) = 0.042 mW/g





Date/Time: 2009-10-07 09:29:59

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Left UMTS5_091007_RP.da4](#)

DUT: PY7A3880074; Type: GSM, UMTS; Serial: #16435
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; $\sigma = 0.878$ mho/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³

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 (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.471 mW/g

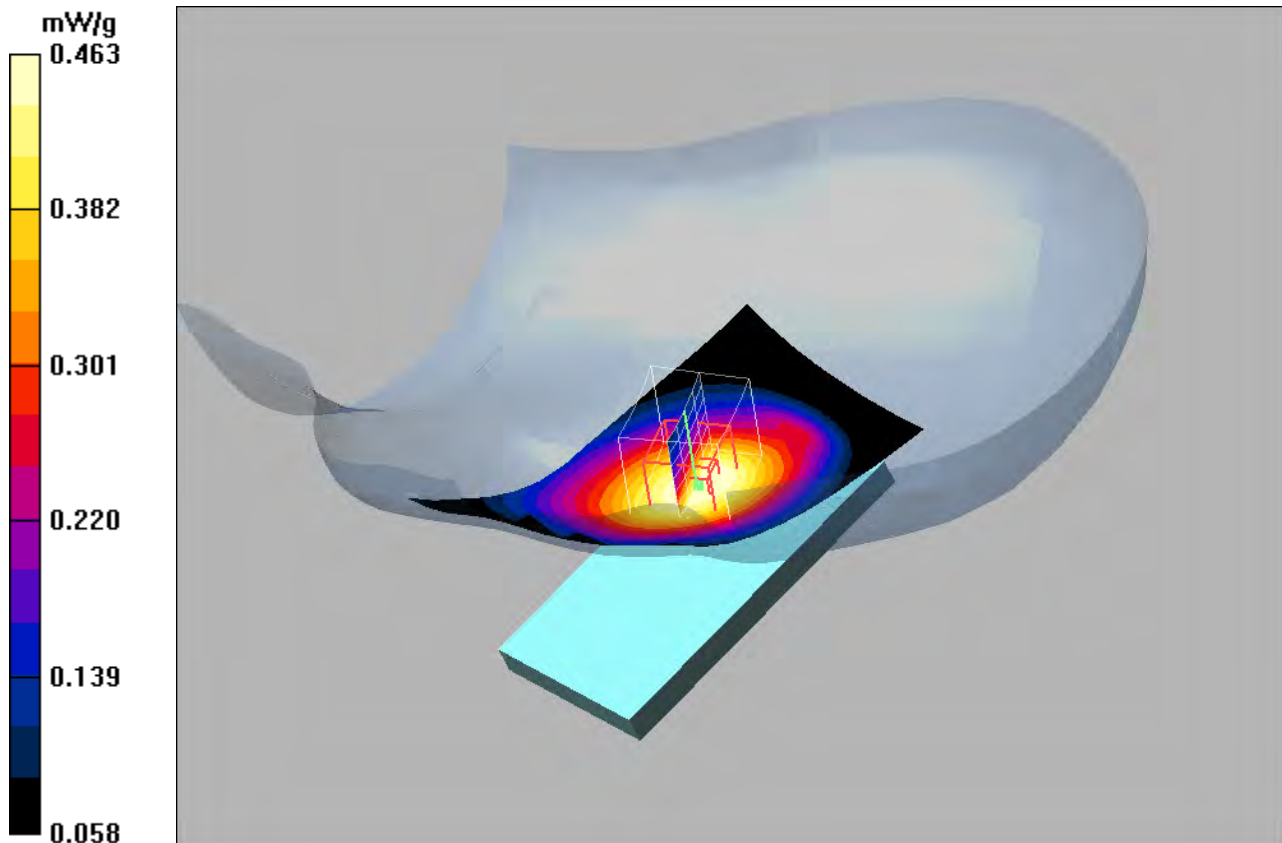
Left Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = 0.107 dB

Peak SAR (extrapolated) = 0.542 W/kg

SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.338 mW/g.

Maximum value of SAR (measured) = 0.463 mW/g



Date/Time: 2009-10-07 09:51:04

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Left UMTS5_091007_RP.da4](#)

DUT: PY7A3880074; Type: GSM, UMTS; Serial: #16435
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; $\sigma = 0.876$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

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 (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.819 mW/g

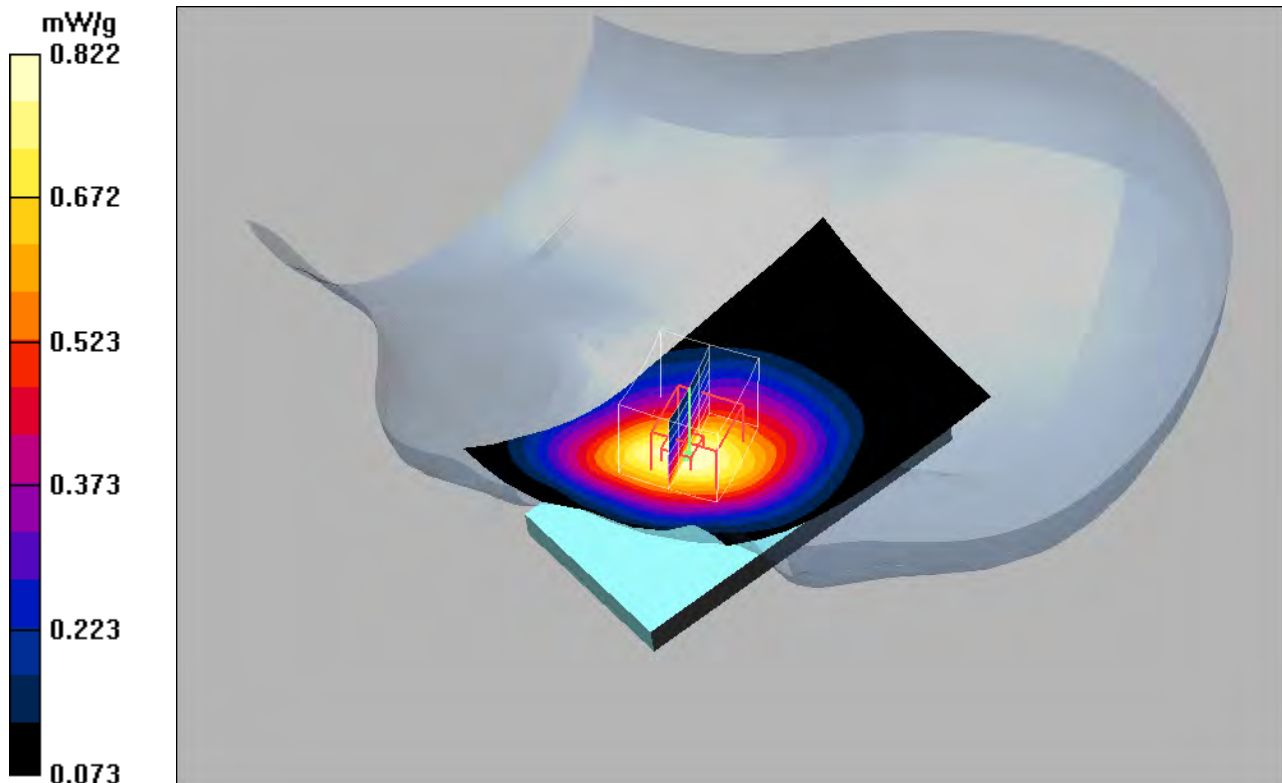
Left Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.98 V/m; Power Drift = 0.189 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.762 mW/g; SAR(10 g) = 0.544 mW/g

Maximum value of SAR (measured) = 0.822 mW/g



Date/Time: 2009-10-23 13:37:11

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Left GSM1900_091023_RP.da4](#)

DUT: PY73880074; Type: GSM, UMTS; Serial: #16435
Program Name: SAR Measurement on the Head

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$
 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 (81x141x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.404 mW/g

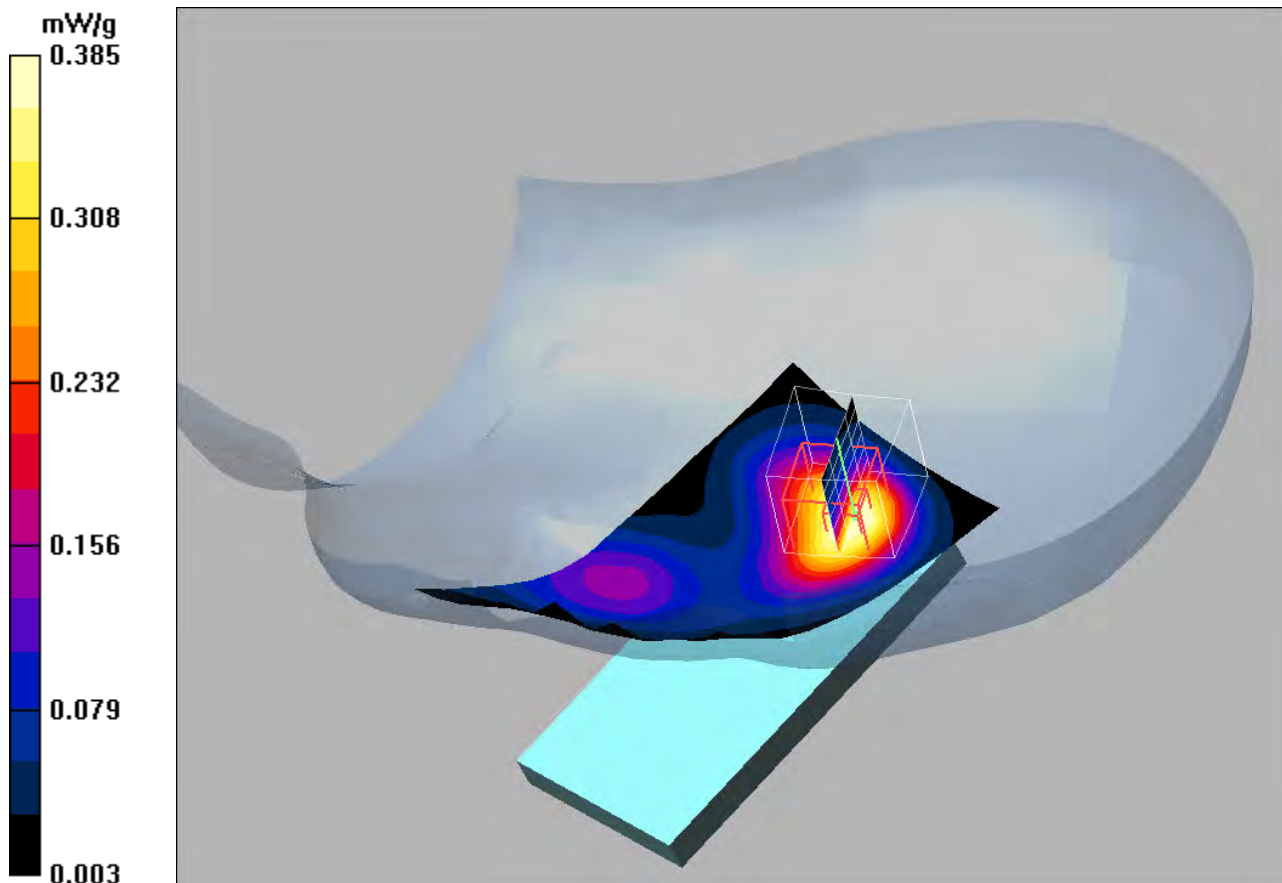
Left Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.9 V/m ; Power Drift = 0.196 dB

Peak SAR (extrapolated) = 0.506 W/kg

SAR(1 g) = 0.359 mW/g ; SAR(10 g) = 0.224 mW/g

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



Date/Time: 2009-10-06 13:54:53

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Left GSM850_091006_RP.da4](#)

DUT: PY7A3880074; Type: GSM, UMTS; Serial: #16435
Program Name: SAR Measurement on the Head

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

Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.878 \text{ mho/m}$; $\epsilon_r = 40.6$; $\rho = 1000 \text{ kg/m}^3$

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 (81x141x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.269 mW/g

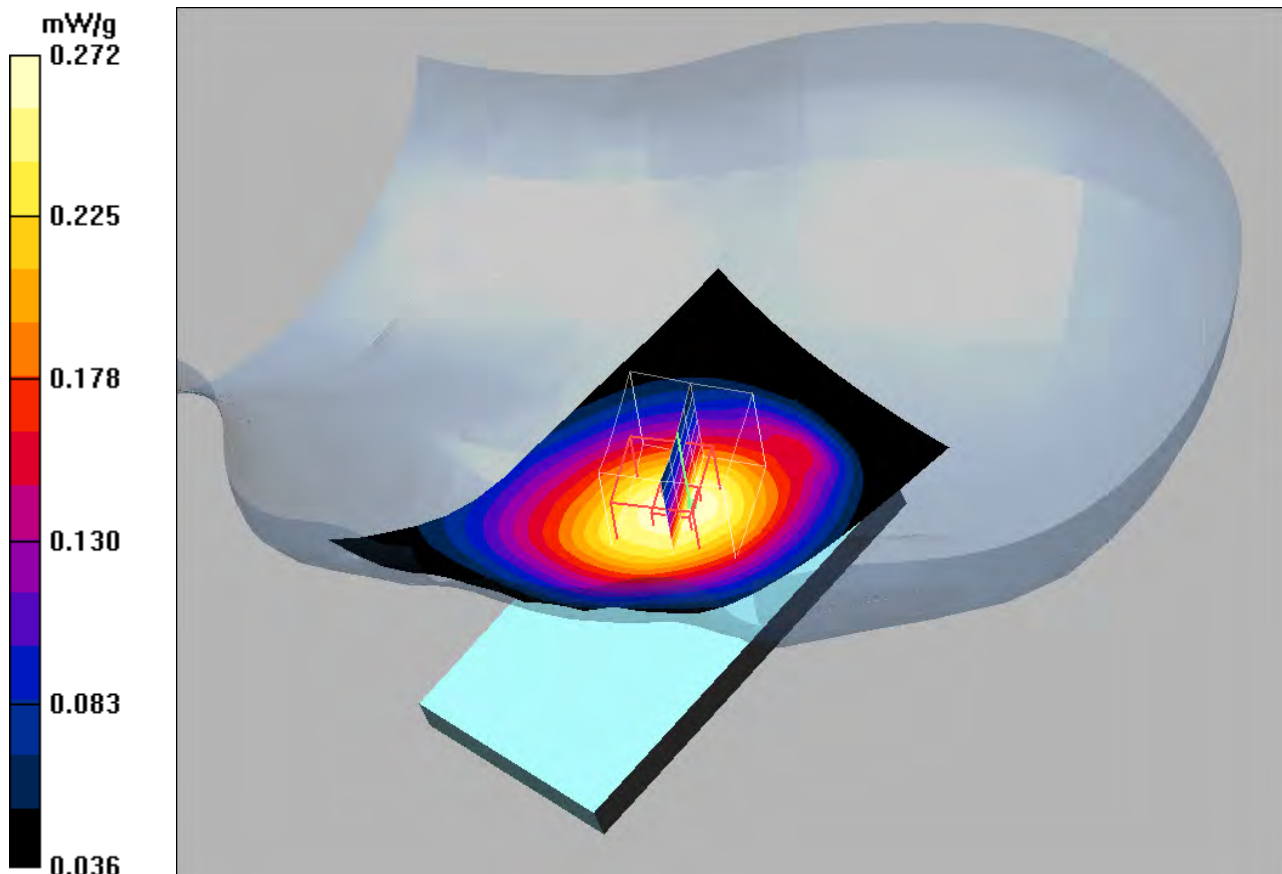
Left Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.11 V/m ; Power Drift = 0.349 dB

Peak SAR (extrapolated) = 0.314 W/kg

SAR(1 g) = 0.259 mW/g ; SAR(10 g) = 0.196 mW/g

Maximum value of SAR (measured) = 0.272 mW/g



Date/Time: 2009-10-23 13:01:31

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Left GSM1900_091023_RP.da4](#)

DUT: PY73880074; Type: GSM, UMTS; Serial: #16435
Program Name: SAR Measurement on the Head

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³
 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 High/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.859 mW/g

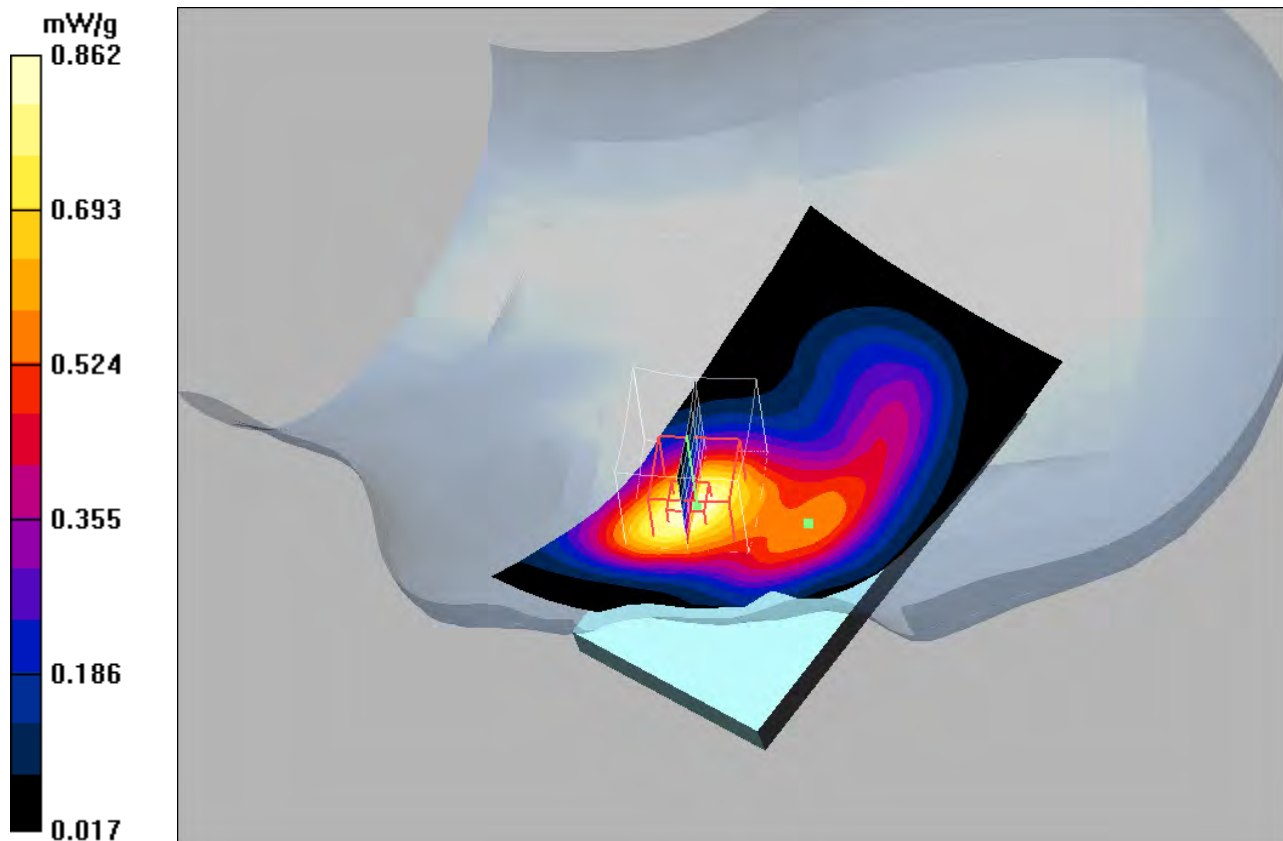
Left Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = 0.112 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.488 mW/g

Maximum value of SAR (measured) = 0.862 mW/g



Date/Time: 2009-10-06 14:18:05

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Left GSM850_091006_RP.da4](#)

DUT: PY7A3880074; Type: GSM, UMTS; Serial: #16435
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; $\sigma = 0.888$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

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 (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.542 mW/g

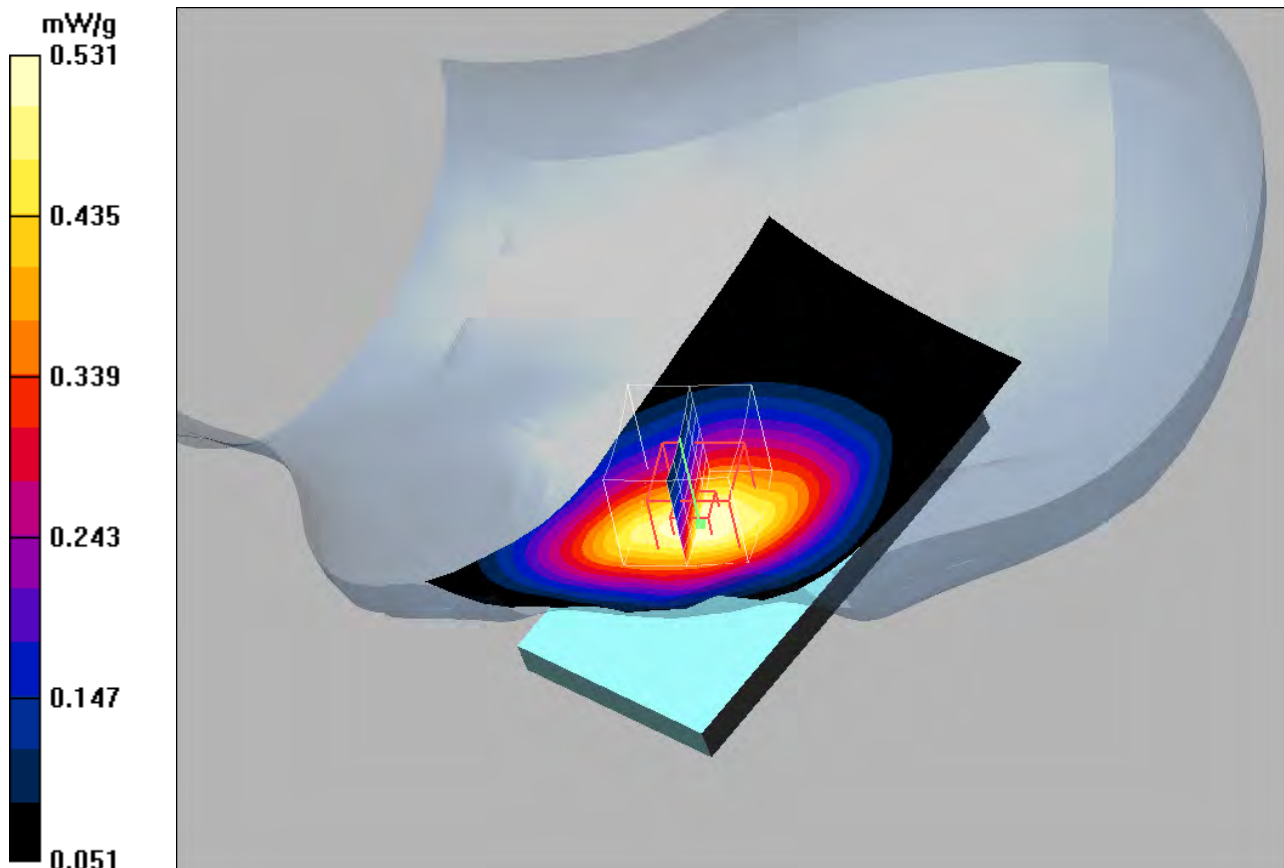
Left Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.18 V/m; Power Drift = 0.381 dB

Peak SAR (extrapolated) = 0.674 W/kg

SAR(1 g) = 0.501 mW/g; SAR(10 g) = 0.362 mW/g

Maximum value of SAR (measured) = 0.531 mW/g



Date/Time: 2009-11-12 10:58:36

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Right_Wlan_091112_RP.da4](#)

DUT: PY73880074; Type: GSM, UMTS; Serial: #16725
Program Name: SAR Measurement on the Head

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³
 Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(4.32, 4.32, 4.32); 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 (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.413 mW/g

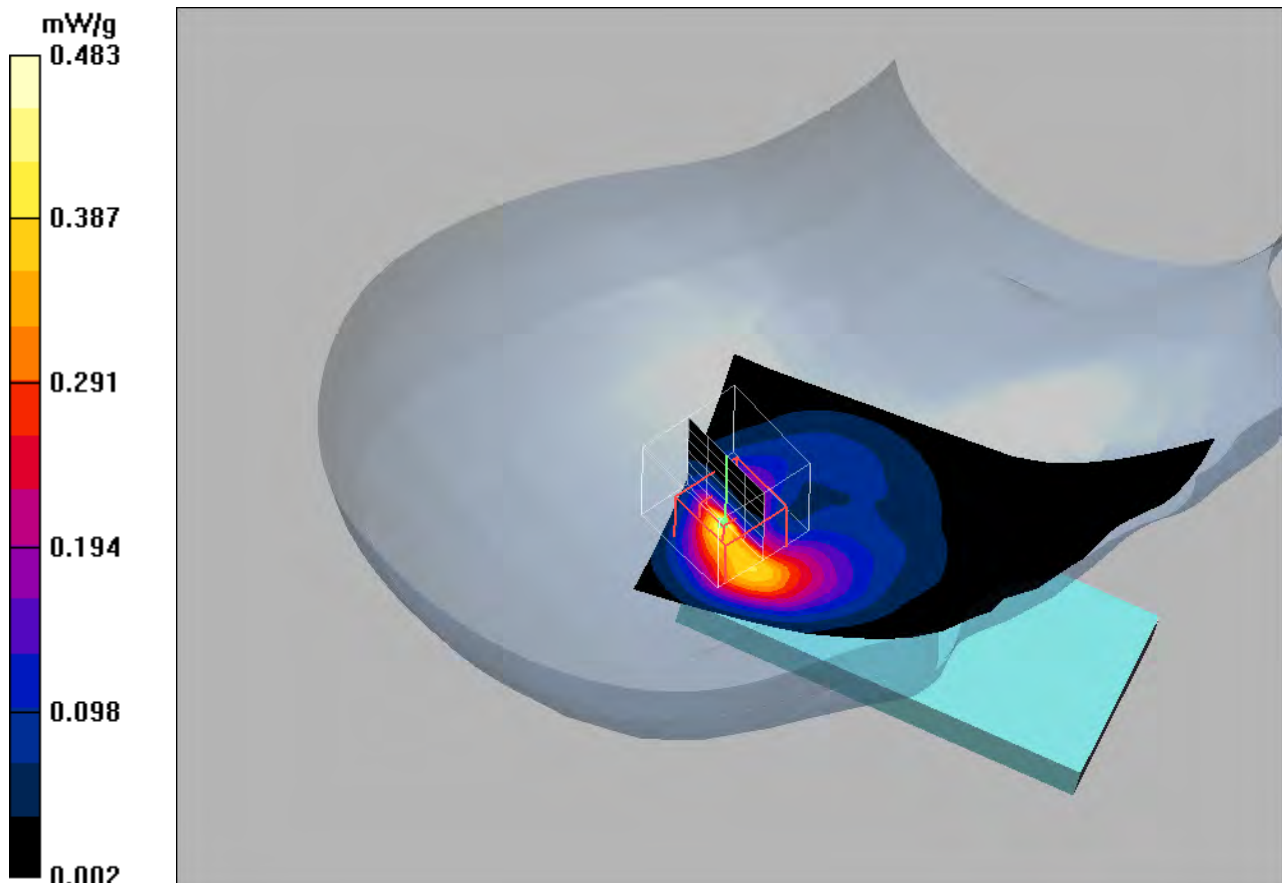
Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.0 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 0.959 W/kg

SAR(1 g) = 0.384 mW/g; SAR(10 g) = 0.169 mW/g

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



Date/Time: 2009-11-12 16:23:11

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: Body_Wlan_091112_RP.da4

DUT: PY73880074 (SO-01B); Type: Wlan; Serial: #16725
Program Name: SAR Measurement on the Body

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(3.86, 3.86, 3.86); 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 186

15mm Middle Front/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.073 mW/g

15mm Middle Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.80 V/m; Power Drift = -0.161 dB

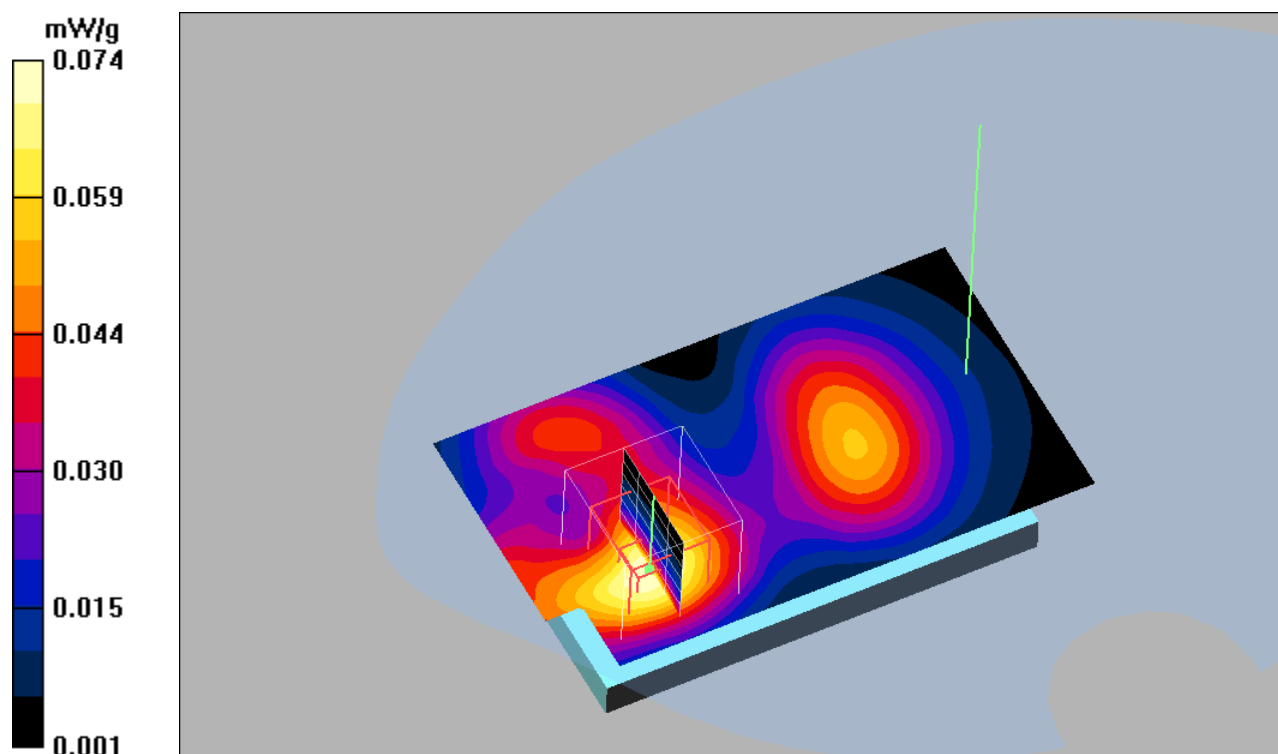
Peak SAR (extrapolated) = 0.131 W/kg

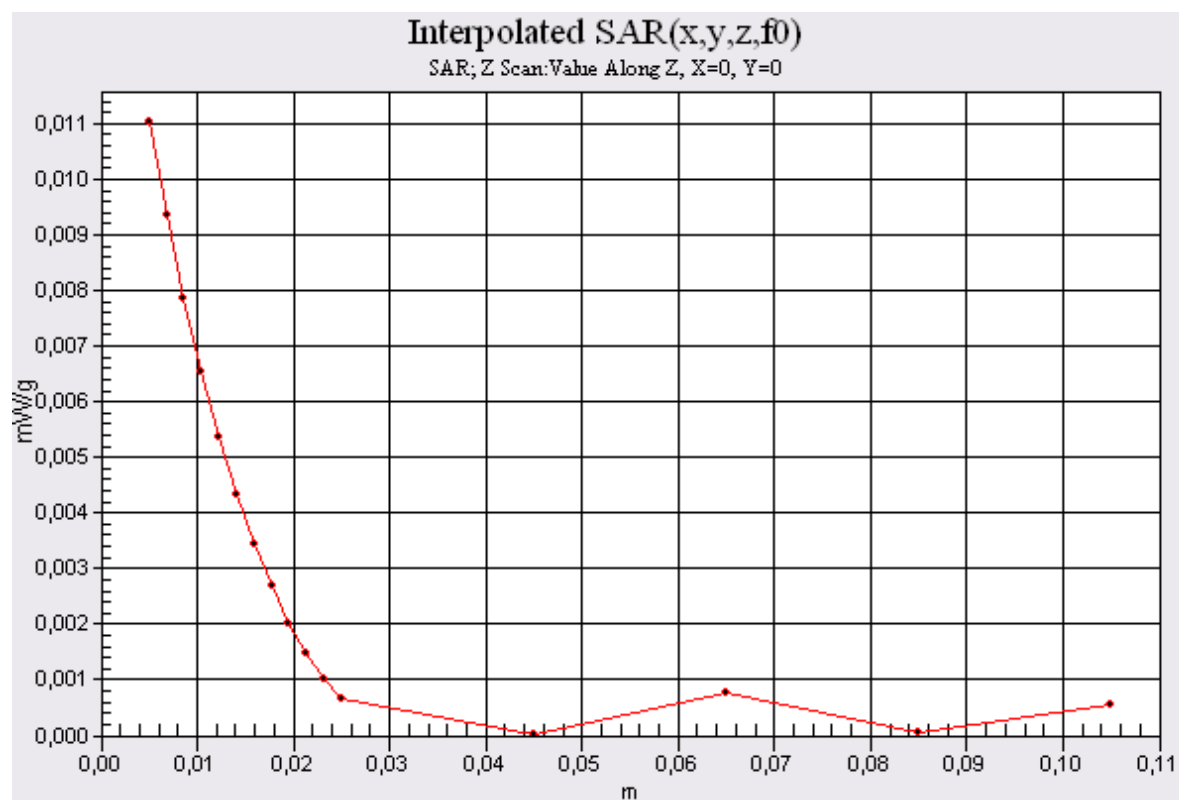
SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.038 mW/g

Maximum value of SAR (measured) = 0.074 mW/g

15mm Middle Front/Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm

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





Date/Time: 2009-11-06 11:16:33

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Body15mm_Speech_UMTSband5_091106_RP.da4](#)**DUT: PY7A3880074 (SO-01B); Type: GSM, UMTS; Serial: #16435****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; $\sigma = 0.982$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

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 186

15mm BT High/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.01 mW/g

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

Reference Value = 16.8 V/m; Power Drift = -0.005 dB

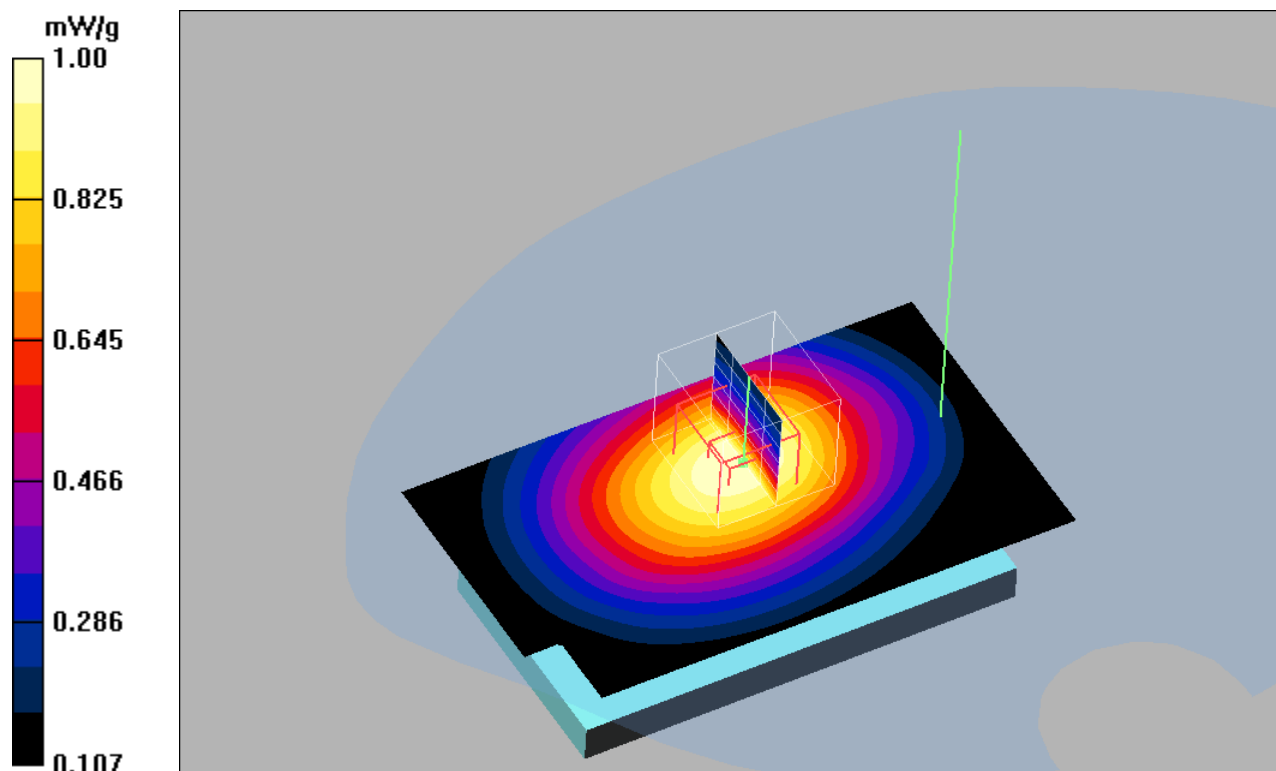
Peak SAR (extrapolated) = 1.19 W/kg

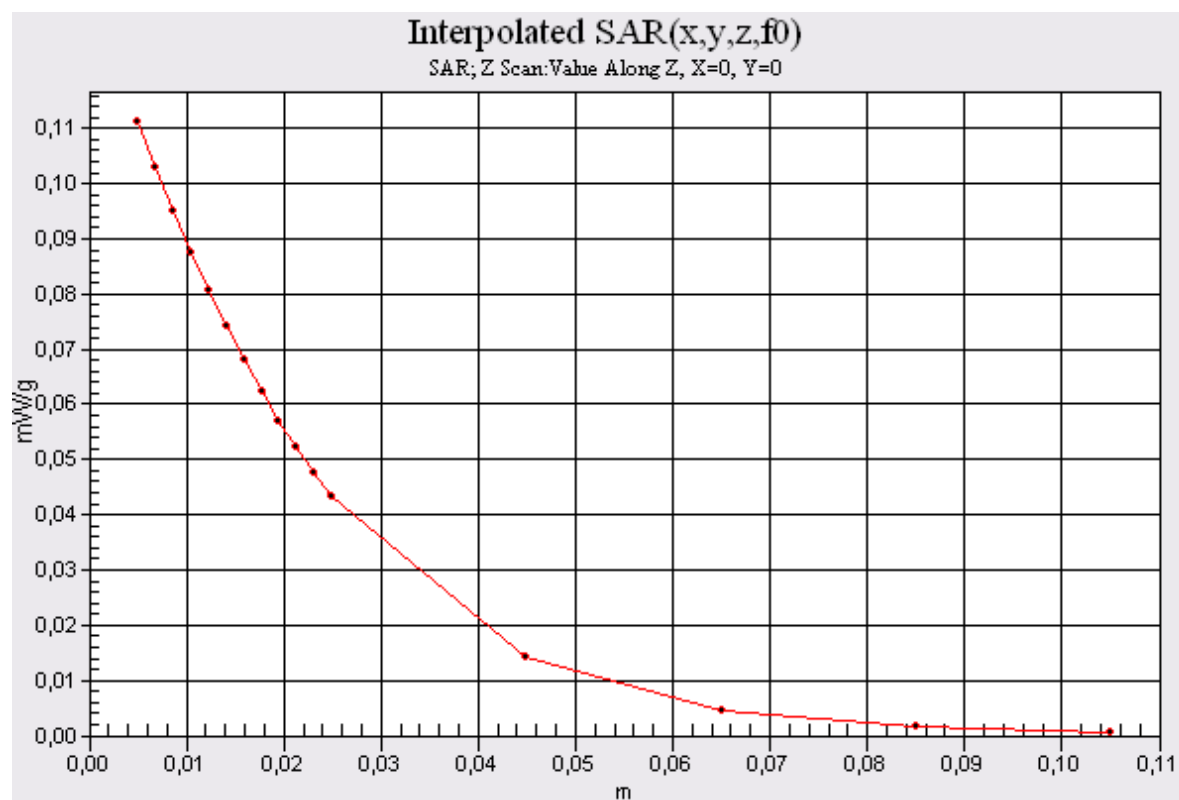
SAR(1 g) = 0.948 mW/g; SAR(10 g) = 0.697 mW/g

Maximum value of SAR (measured) = 1.00 mW/g

15mm BT High/Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm

Maximum value of SAR (interpolated) = 0.111 mW/g





Date/Time: 2009-11-04 11:17:35

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Body15mm_Speech_UMTSband2_091104_RP.da4](#)**DUT: PY7A3880074 (SO-01B); Type: GSM, UMTS; Serial: #16435****Program Name: SAR Measurement on the Body**

Communication System: UMTS_band2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

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)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 186

15mm PHF Middle/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.983 mW/g

15mm PHF Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.6 V/m; Power Drift = -0.033 dB

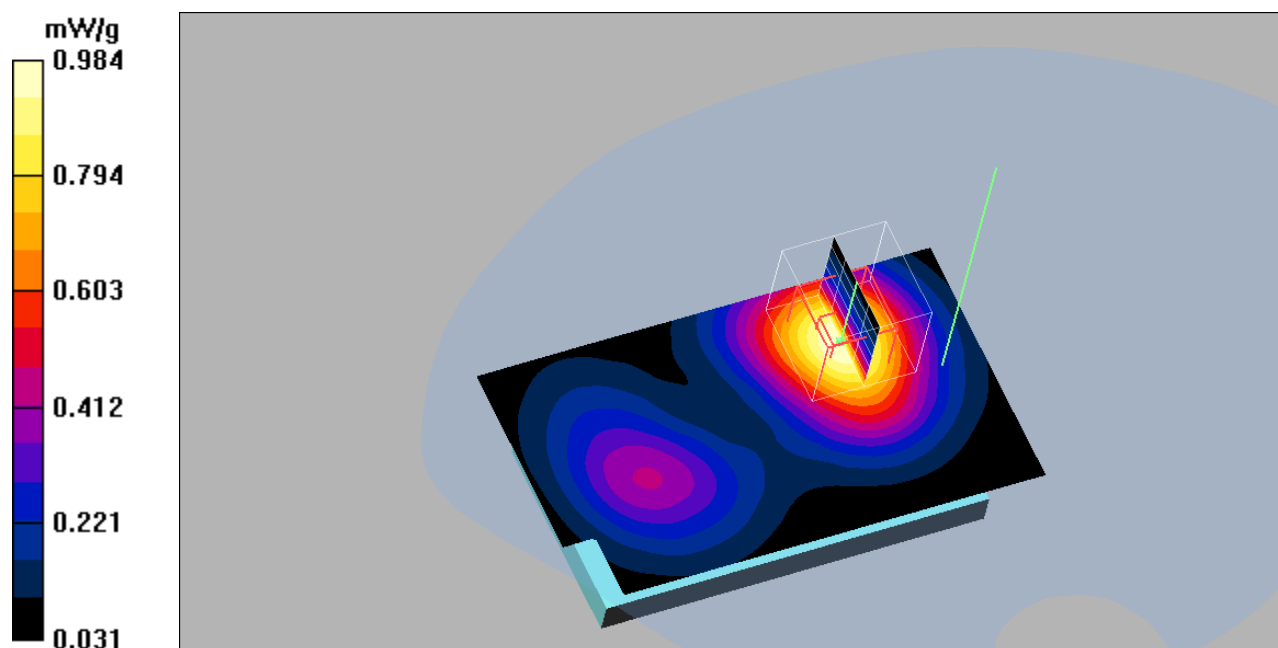
Peak SAR (extrapolated) = 1.35 W/kg

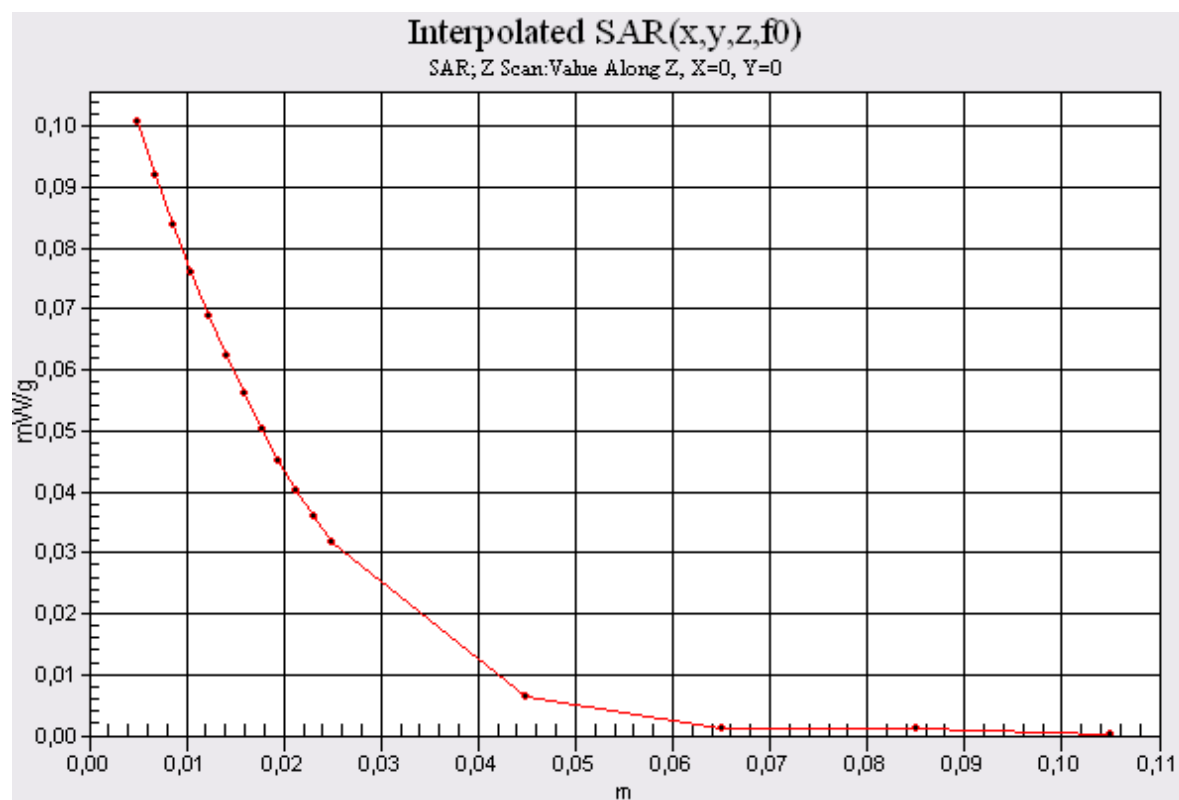
SAR(1 g) = 0.913 mW/g; SAR(10 g) = 0.575 mW/g

Maximum value of SAR (measured) = 0.984 mW/g

15mm PHF Middle/Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm

Maximum value of SAR (interpolated) = 0.101 mW/g





Date/Time: 2009-11-03 10:27:40

Test Laboratory: Sony Ericsson Mobile Communications

File Name: Body15mm_Speech_GSM1900_091103_RP.da4**DUT: PY7A3880074 (SO-01B); Type: GSM, UMTS; Serial: #16435****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; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

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 186

15mm PHF Low/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.542 mW/g

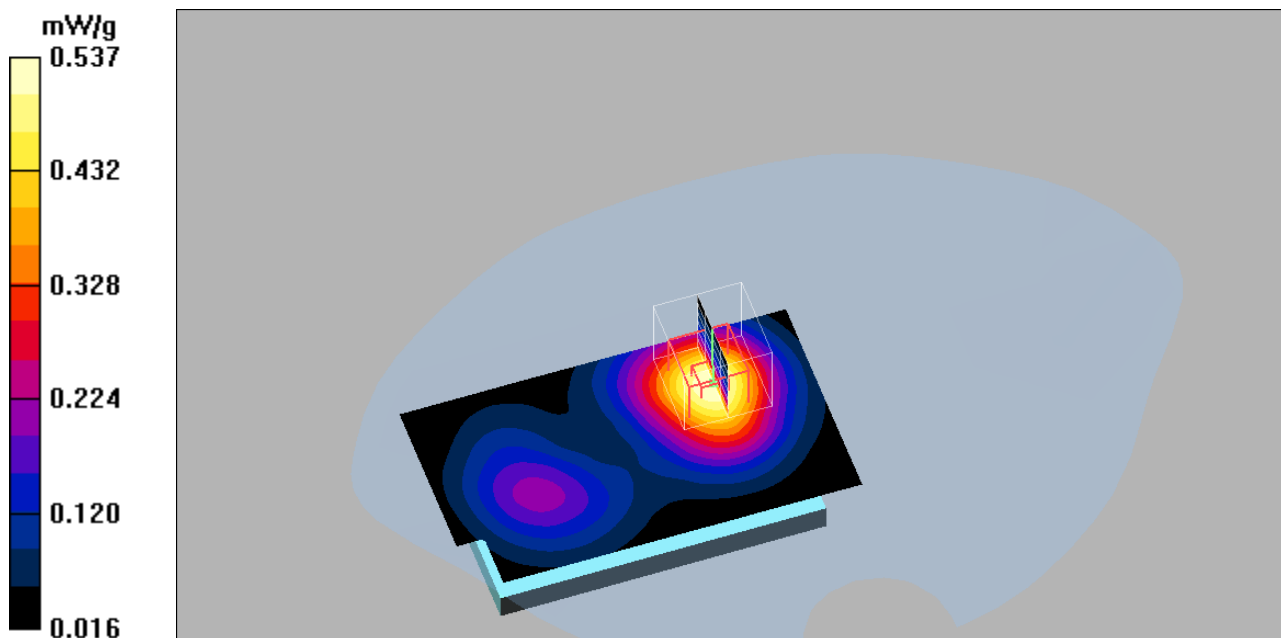
15mm PHF Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.4 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 0.732 W/kg

SAR(1 g) = 0.494 mW/g; SAR(10 g) = 0.311 mW/g

Maximum value of SAR (measured) = 0.537 mW/g



Date/Time: 2009-11-05 09:45:59

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: Body15mm_Speech_GSM850_091105_RP.da4

DUT: PY7A3880074 (SO-01B); Type: GSM, UMTS; Serial: #16435
Program Name: SAR Measurement on the Body

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

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 186

15mm PHF Low/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.350 mW/g

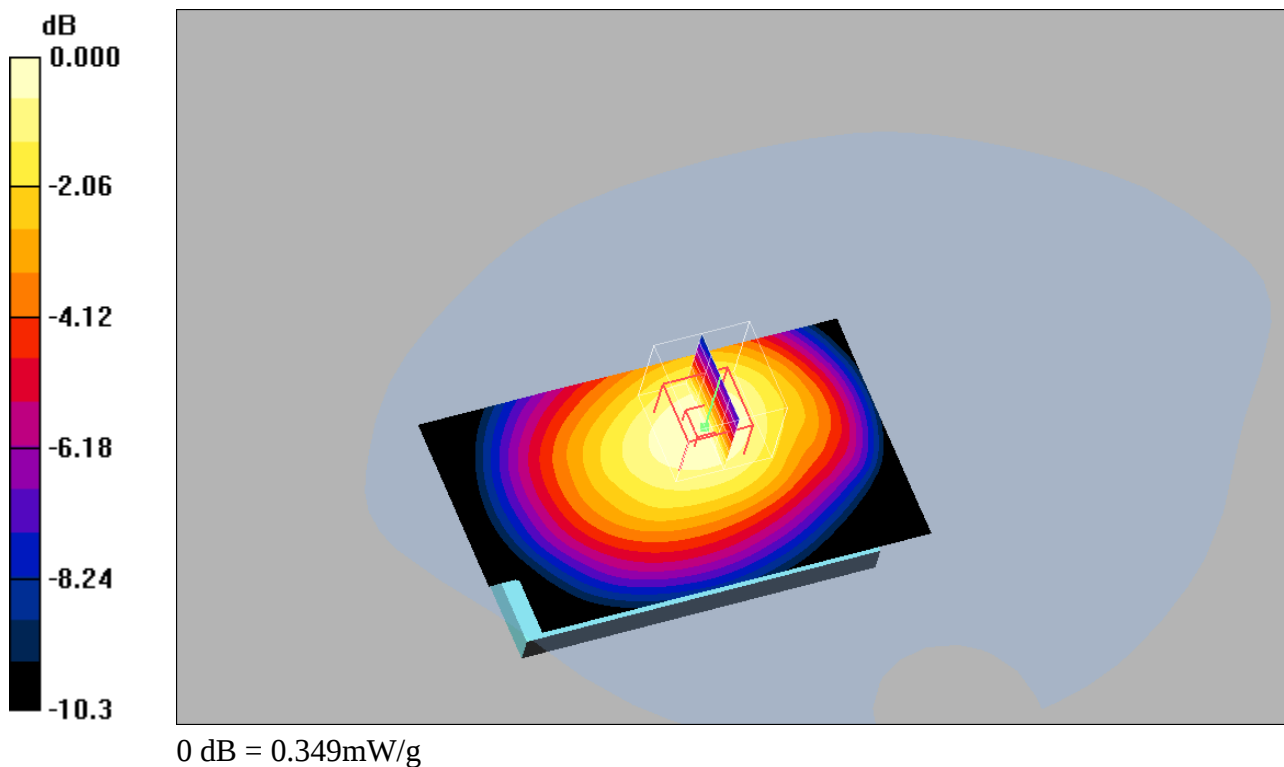
15mm PHF Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.412 W/kg

SAR(1 g) = 0.328 mW/g; SAR(10 g) = 0.240 mW/g

Maximum value of SAR (measured) = 0.349 mW/g



Date/Time: 2009-11-06 11:36:56

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Body15mm_Speech_UMTSband5_091106_RP.da4](#)**DUT: PY7A3880074 (SO-01B); Type: GSM, UMTS; Serial: #16435****Program Name: SAR Measurement on the Body**

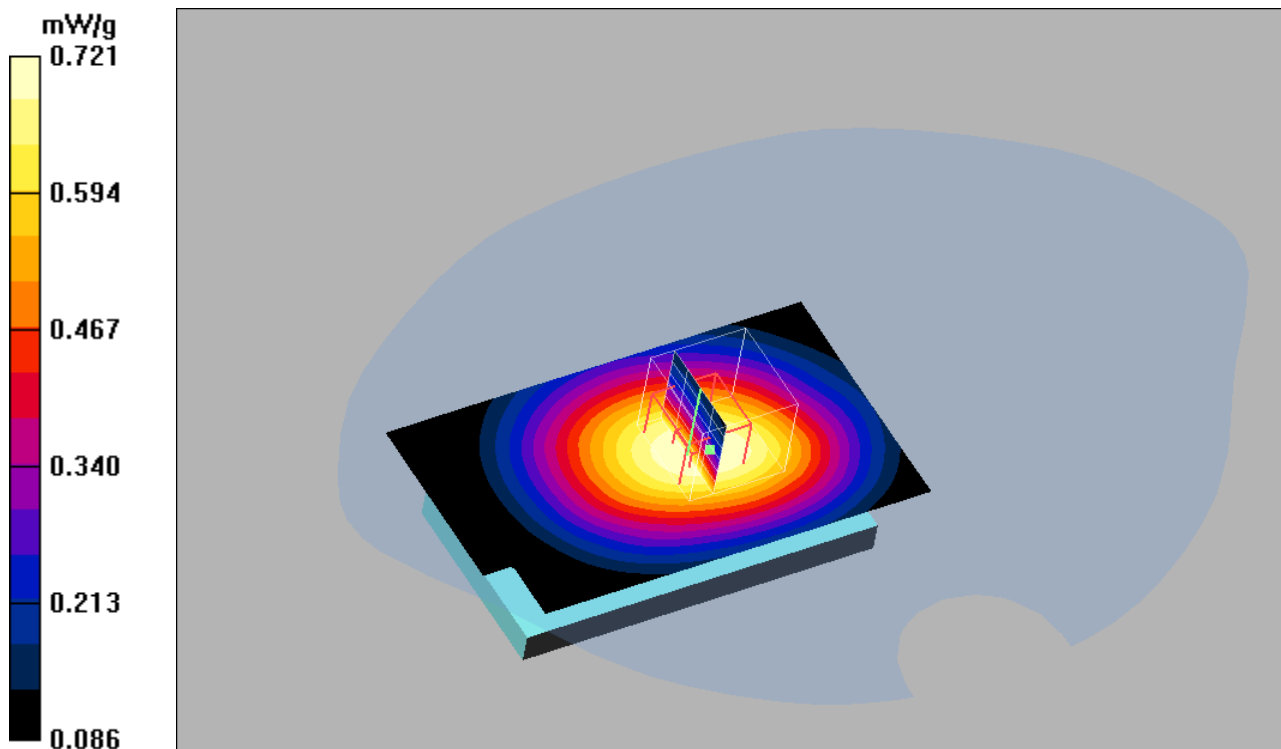
Communication System: UMTS_band5; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 0.982 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

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 (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 186

15mmBT High front/Area Scan (81x141x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.729 mW/g **15mmBT High front/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 18.8 V/m ; Power Drift = -0.044 dB Peak SAR (extrapolated) = 0.847 W/kg **SAR(1 g) = 0.685 mW/g ; SAR(10 g) = 0.510 mW/g** Maximum value of SAR (measured) = 0.721 mW/g 

Date/Time: 2009-11-04 11:48:47

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Body15mm_Speech_UMTSband2_091104_RP.da4](#)**DUT: PY7A3880074 (SO-01B); Type: GSM, UMTS; Serial: #16435****Program Name: SAR Measurement on the Body**

Communication System: UMTS_band2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

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 186

15mm PHF Middle front/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.713 mW/g

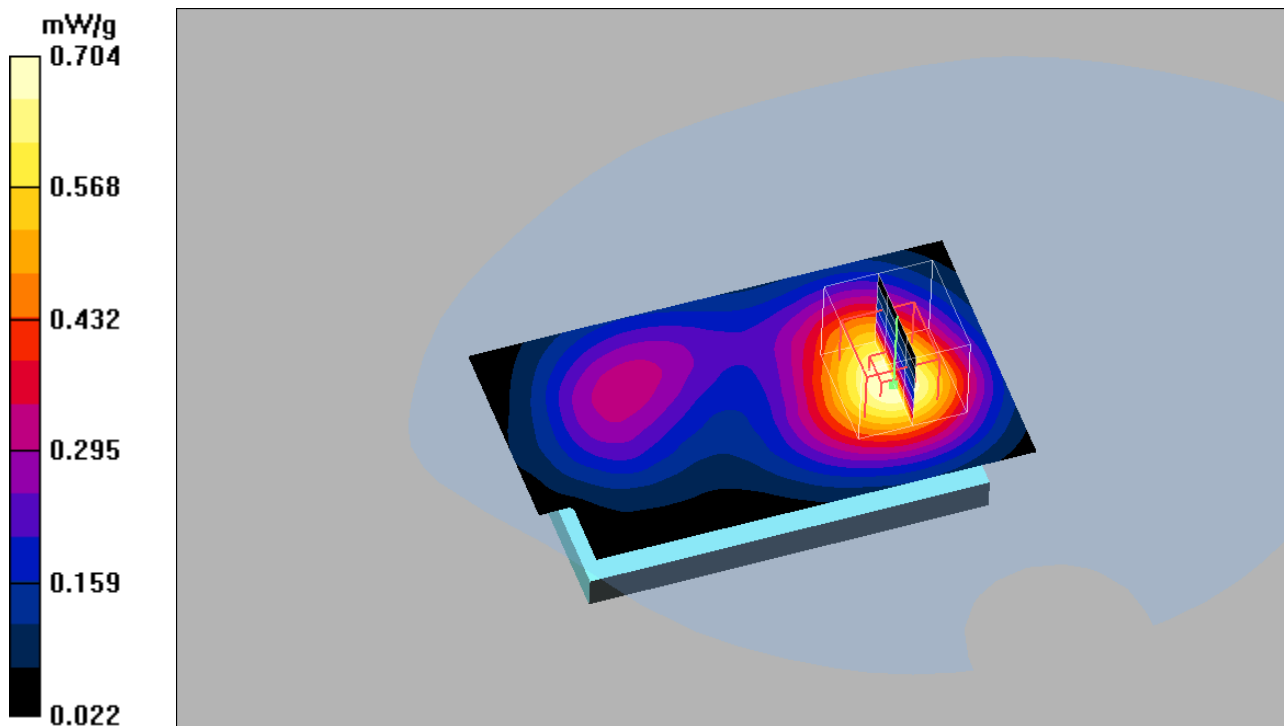
15mm PHF Middle front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.7 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.999 W/kg

SAR(1 g) = 0.658 mW/g; SAR(10 g) = 0.417 mW/g

Maximum value of SAR (measured) = 0.704 mW/g



Date/Time: 2009-11-03 10:51:59

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: Body15mm_Speech_GSM1900_091103_RP.da4

DUT: PY7A3880074 (SO-01B); Type: GSM, UMTS; Serial: #16435
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; $\epsilon_r = 55$; $\rho = 1000$ kg/m³
 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 186

15mm BT Low/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.520 mW/g

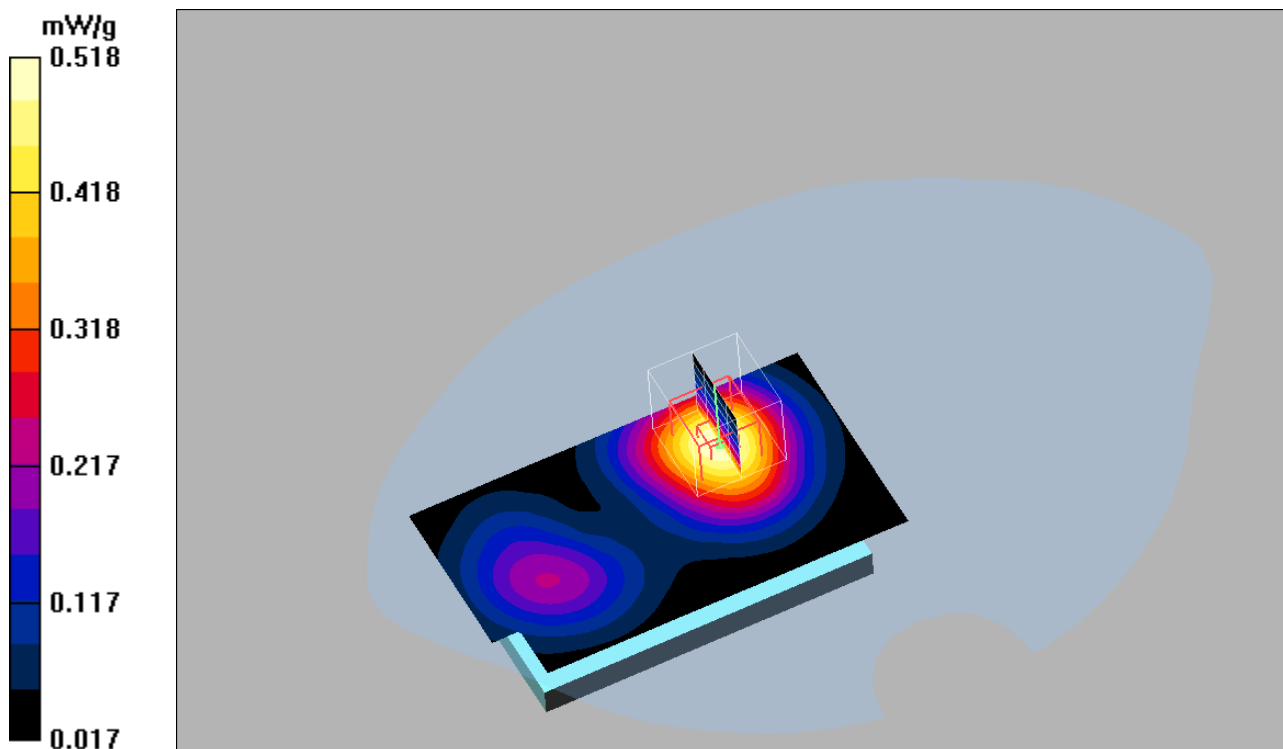
15mm BT Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.99 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 0.698 W/kg

SAR(1 g) = 0.480 mW/g; SAR(10 g) = 0.306 mW/g

Maximum value of SAR (measured) = 0.518 mW/g



Date/Time: 2009-11-05 10:06:27

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Body15mm_Speech_GSM850_091105_RP.da4](#)

DUT: PY7A3880074 (SO-01B); Type: GSM, UMTS; Serial: #16435
Program Name: SAR Measurement on the Body

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

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 186

15mm BT Low/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

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

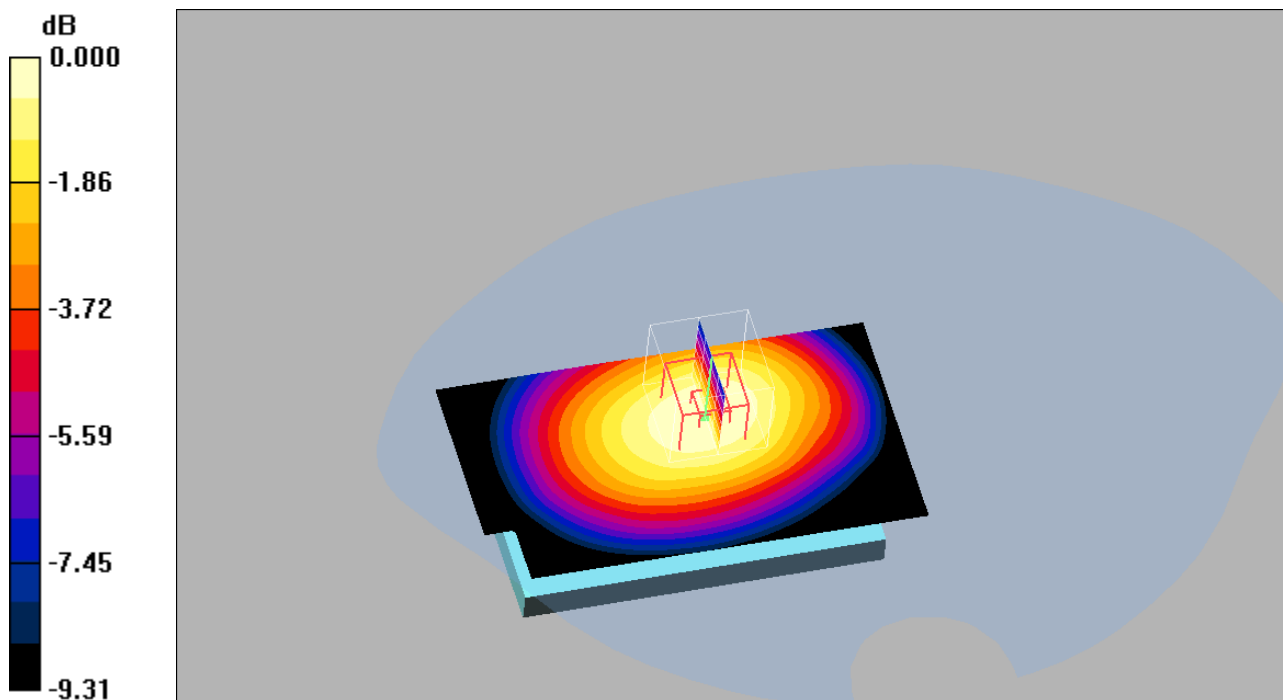
15mm BT Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.0 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 0.564 W/kg

SAR(1 g) = 0.451 mW/g; SAR(10 g) = 0.334 mW/g

Maximum value of SAR (measured) = 0.474 mW/g



0 dB = 0.474mW/g

Date/Time: 2009-11-05 14:00:19

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Body15mm_Data_4Tx_GSM850_091105_RP.da4](#)**DUT: PY7A3880074-BV (SO-01B); Type: GSM, UMTS; Serial: #16435****Program Name: SAR Measurement on the Body**

Communication System: GSM850 GPRS4TX; Frequency: 848.8 MHz; Duty Cycle: 1:2.075

Medium parameters used: $f = 849$ MHz; $\sigma = 0.985$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

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) 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 186

15mm Data 4Tx High/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.18 mW/g

15mm Data 4Tx High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.0 V/m; Power Drift = 0.002 dB

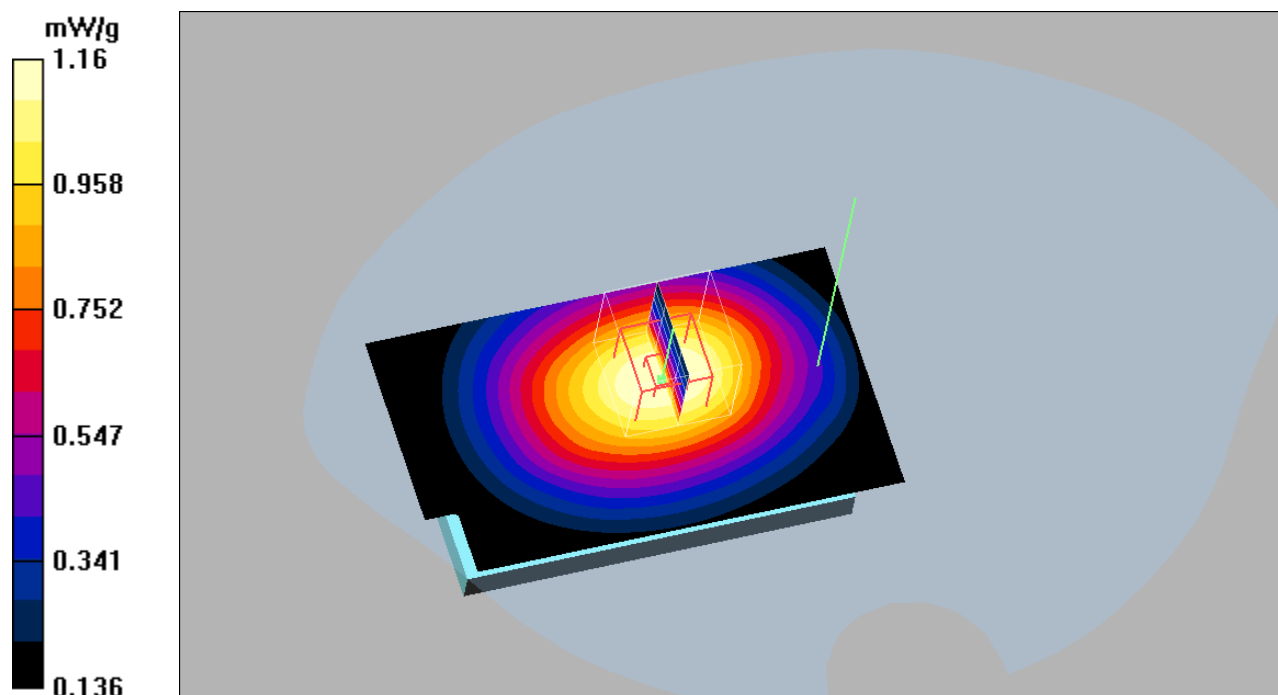
Peak SAR (extrapolated) = 1.36 W/kg

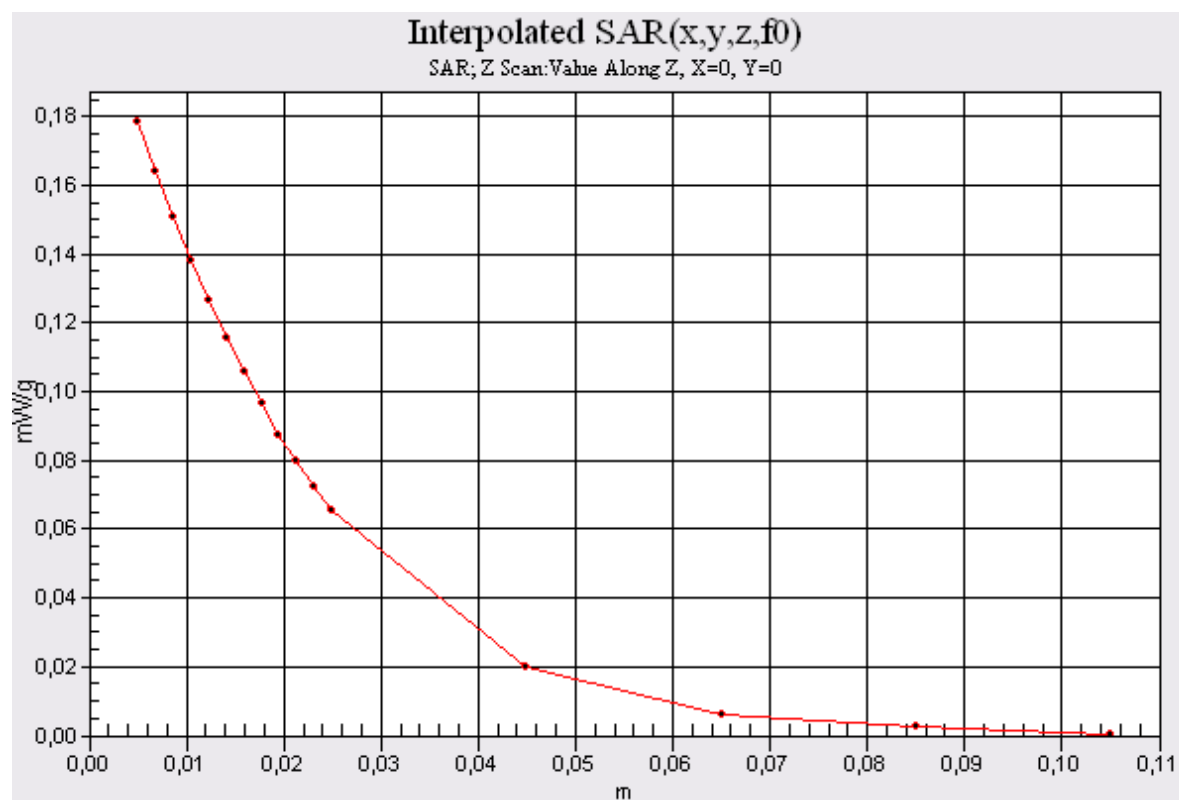
SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.816 mW/g

Maximum value of SAR (measured) = 1.16 mW/g

15mm Data 4Tx High/Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm

Maximum value of SAR (interpolated) = 0.179 mW/g





Date/Time: 2009-11-03 14:58:51

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Body15mm_Data_3Tx_GSM1900_091103_RP.da4](#)**DUT: PY7A3880074 (SO-01B); Type: GSM, UMTS; Serial: #16435****Program Name: SAR Measurement on the Body**

Communication System: GSM1900 GPRS3TX; Frequency: 1909.8 MHz; Duty Cycle: 1:2.77

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.6$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

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 186

15mm Data 3Tx High/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 0.841 mW/g

15mm Data 3Tx High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

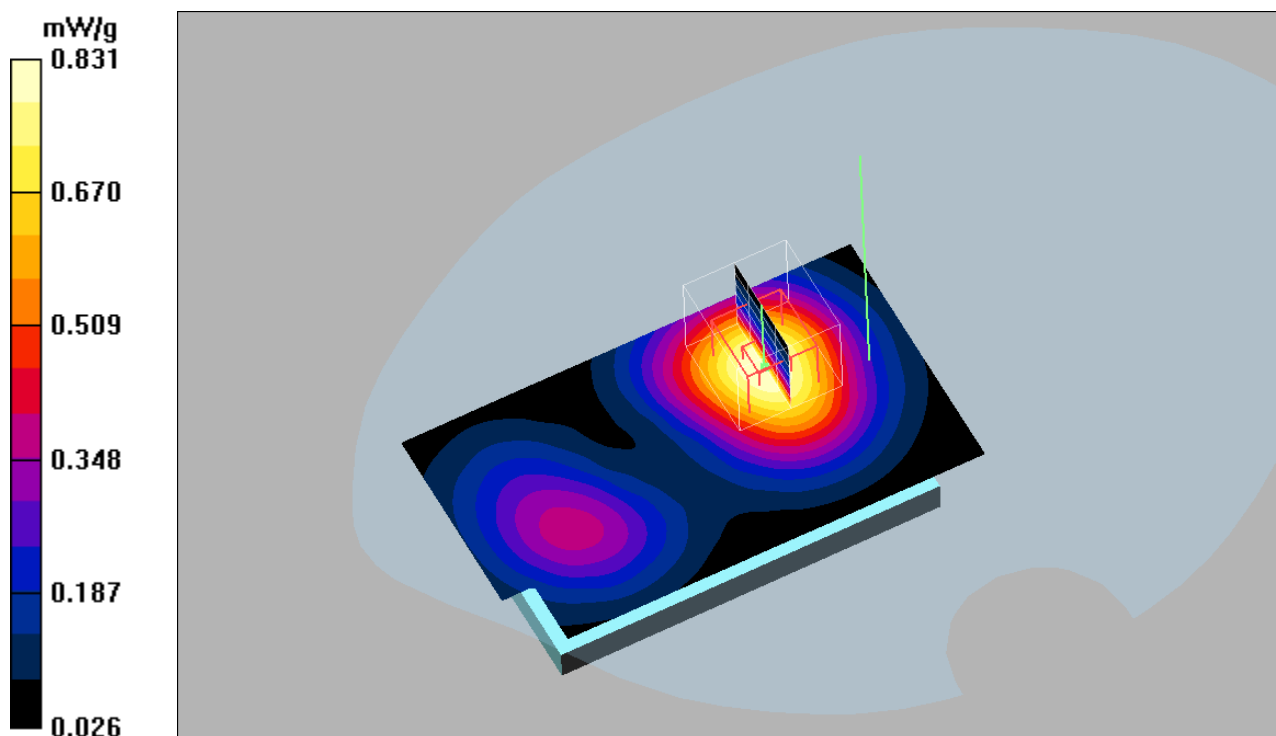
Reference Value = 14.0 V/m; Power Drift = -0.017 dB

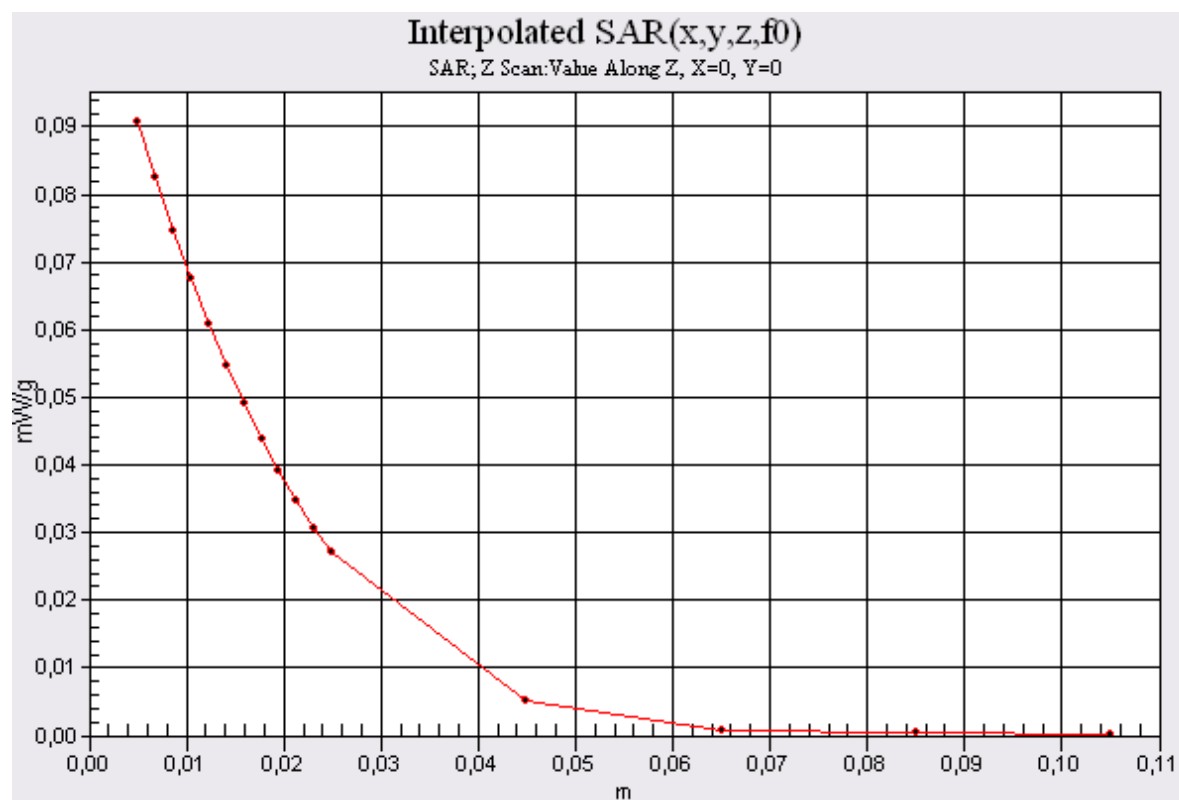
Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.770 mW/g; SAR(10 g) = 0.489 mW/g

Maximum value of SAR (measured) = 0.831 mW/g

15mm Data 3Tx High/Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm
 Maximum value of SAR (interpolated) = 0.091 mW/g





Date/Time: 2009-11-05 15:07:43

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: [Body15mm_Data_4Tx_GSM850_091105_RP.da4](#)

DUT: PY7A3880074 (SO-01B); Type: GSM, UMTS; Serial: #16435
Program Name: SAR Measurement on the Body

Communication System: GSM850 GPRS4TX; Frequency: 848.8 MHz; Duty Cycle: 1:2.075
 Medium parameters used: $f = 849 \text{ MHz}$; $\sigma = 0.985 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$
 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 (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 186

15mm Data 4Tx High Front/Area Scan (81x141x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.840 mW/g

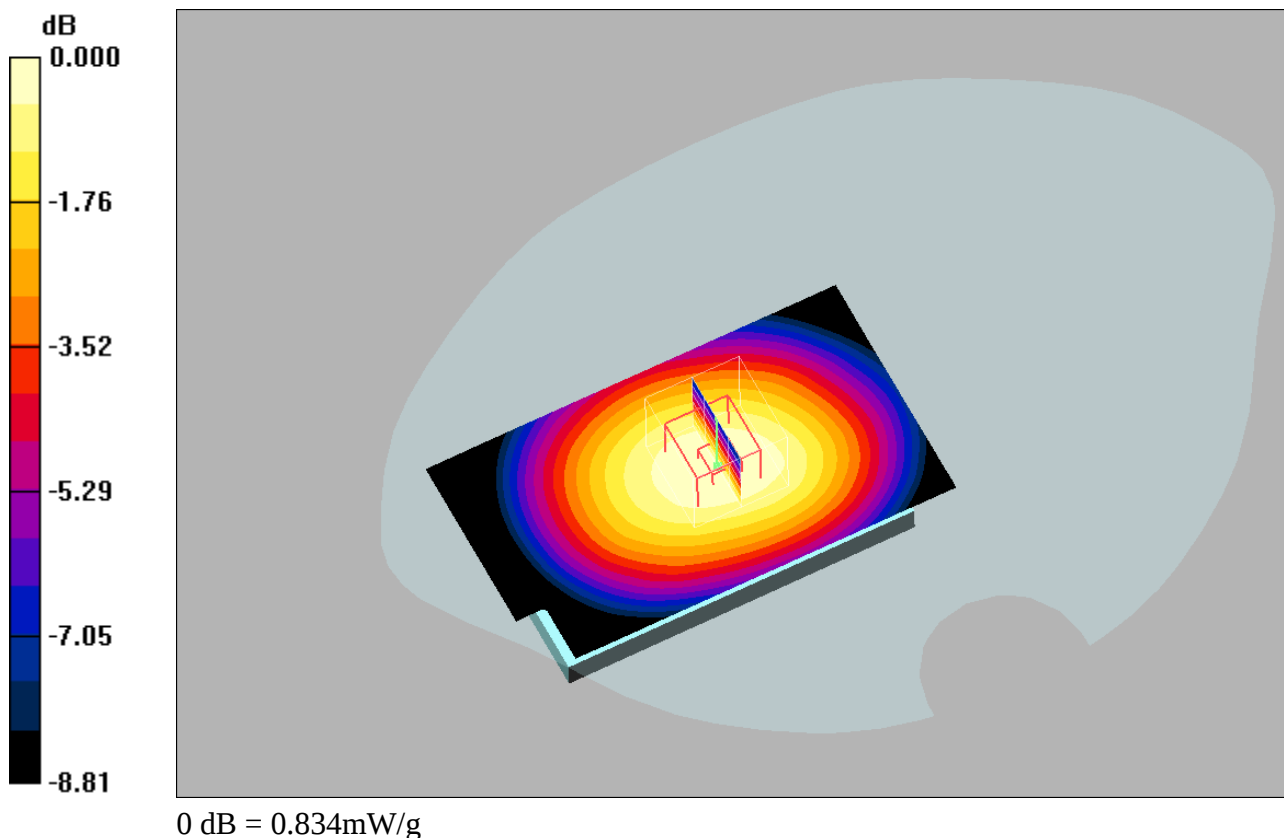
15mm Data 4Tx High Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.3 V/m ; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.971 W/kg

SAR(1 g) = 0.789 mW/g ; SAR(10 g) = 0.591 mW/g

Maximum value of SAR (measured) = 0.834 mW/g



Date/Time: 2009-11-03 16:26:01

Test Laboratory: Sony Ericsson Mobile Communications

File Name: [Body15mm_Data_3Tx_GSM1900_091103_RP.da4](#)**DUT: PY7A3880074 (SO-01B); Type: GSM, UMTS; Serial: #16435****Program Name: SAR Measurement on the Body**

Communication System: GSM1900 GPRS3TX; Frequency: 1909.8 MHz; Duty Cycle: 1:2.77

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.6$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

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 186

15mm Data 3Tx High Front/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.670 mW/g

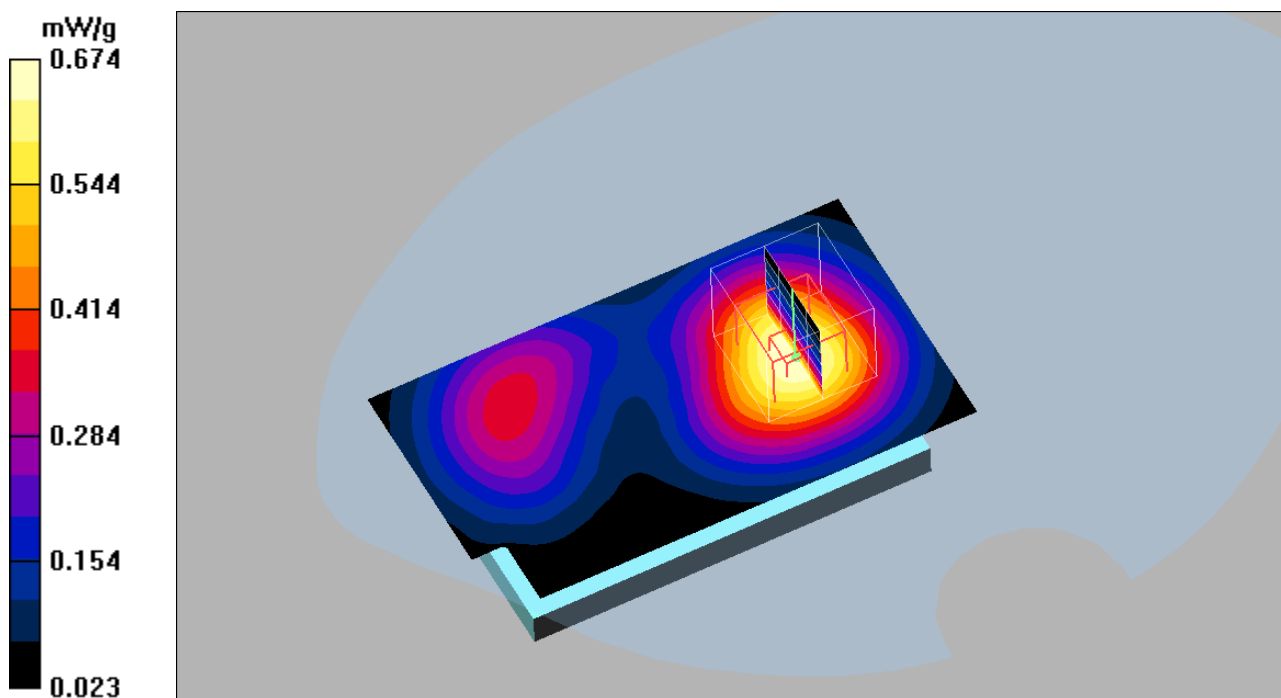
15mm Data 3Tx High Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.9 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.950 W/kg

SAR(1 g) = 0.626 mW/g; SAR(10 g) = 0.397 mW/g

Maximum value of SAR (measured) = 0.674 mW/g



Date/Time: 2009-11-12 16:08:39

Test Laboratory: Sony Ericsson Mobile Communications
 File Name: Body_Wlan_091112_RP.da4

DUT: PY73880074 (SO-01B); Type: Wlan; Serial: #16725
Program Name: SAR Measurement on the Body

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1569; ConvF(3.86, 3.86, 3.86); 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 186

15mm Middle/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.045 mW/g

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

Reference Value = 3.78 V/m; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.088 W/kg

SAR(1 g) = 0.044 mW/g; SAR(10 g) = 0.025 mW/

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

