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No.

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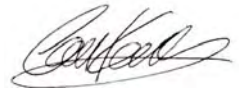
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Report issued by Accredited SAR Laboratory**for****PY7A3880010 (C510a)****Date of test:** December 04th to December 18th, 2008**Laboratory:** Sony Ericsson SAR Test Laboratory
Sony Ericsson Mobile Communications AB
Maplewood, Chineham Business Park
Basingstoke, RG24 8YB,
England**Testing Engineer:** Jon Kenny
jon.kenny@sonyericsson.com
+44 1256 77 48 91**Testing Approval:** Peter Lindeborg
peter.lindeborg@sonyericsson.com
+46-46-2126180**Statement of Compliance**

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

Sony Ericsson Type AAD-3880010-BV; FCC ID PY7A3880010; IC 4170B-A3880010

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 PY7A3880010 (C510a) 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 China Beijing
Contact Name:	Cia Xiaochuan

3 Device Under Test

3.1 Antenna Description

Type	Internal antenna	
Location	Bottom of phone	
Main and BT antennas distance	90mm	
Dimensions	Max length	14 mm
	Max width	40 mm
Configuration	Monopole	



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3.2 Device Description

Device model	AAD-3880010-BV					
Market name	C510a					
Serial number (EUT #)	BX900G070B (#14107)					
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 (#13877)	33.7	33.8	33.8	30.5	30.4	30.4
Product Maximum power Level [dBm] ¹	34.0	34.0	34.0	30.5	30.5	30.5
Data mode	GPRS			GPRS		
Crest factor	4.15			4.15		
Measured Power Level [dBm] ¹ (#13877)	30.8	30.9	30.9	28.0	27.9	27.8
Product Maximum power Level [dBm] ¹	31.0	31.0	31.0	28.0	28.0	28.0
Data mode	EDGE			EDGE		
Crest factor	4.15			4.15		
Measured Power Level [dBm] ¹ (#13877)	27.8	27.9	27.9	26.9	26.9	27.0
Product Maximum power Level [dBm] ¹	28.0	28.0	28.0	27.0	27.0	27.0
Transmitting frequency range [MHz]	824.0 - 849.0			1850.0 - 1910.0		

Mode	UMTS 2			UMTS 5		
Crest factor	1			1		
Multiple access scheme	WCDMA			WCDMA		
Channel No.	9262	9400	9538	2712	2788	2863
Measured Power Level [dBm] ¹ (#13262)	22.4	22.4	22.5	24.0	24.0	24.0
Product Maximum power Level [dBm] ¹	22.5	22.5	22.5	24.0	24.0	24.0
Data Mode	(See section 3.3)					
Transmitting frequency range [MHz]	1852.5 - 1907.6			882,4 – 912,6		

GPRS Multislot class	10
EDGE class	10
GPRS Capability class	B
BT class and conducted power	Class 1, 4.5 dBm
Prototype or production unit	Preproduction
Hardware Version	AP1
Software version	R1CA013
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 #14107

1852,4 1880 1907,6 826,4 836,4 846,6

					Band 2			Band 5		
	β_c	β_d	ΔHS	max->	23,1	23,1	23,1	24	24	24
CS - RMC	8	15	-		22.6	22.6	22.6	23.9	23.9	23.9
CS - voice	8	15	-		22.5	22.6	22.6	24.0	23.9	23.8
HSDPA - 1	2	15	8		22.6	22.6	22.6	24.0	24.0	24.0
HSDPA - 2	12	15	8		21.2	21.9	21.3	23.2	23.0	22.8
HSDPA - 3	15	8	8		21.2	21.8	21.2	23.2	22.9	22.5
HSDPA - 4	15	4	8		21.6	21.8	21.5	23.2	23.0	22.8

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



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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 55) 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	448	2009-11
E-field probe ET3DV6	1610	2009-11
Dipole Validation Kit, D835V2	484	2009-01
Dipole Validation Kit, D1900V2	5d002	2009-01

4.2 Additional equipment

Description	Inventory Number	Due Date
Signal generator R&S SMY 02	3.094	2009-04
Directional coupler HP778D	15.233	None
Power meter R&S NRVD	4.073	2009-04
Power sensor R&S NRV-Z5	4.074	2009-04
Power sensor R&S NRV-Z5	4.076	2009-04
Network analyzer Agilent 8719D	2.022	2009-04
Dielectric probe kit HP8507C	14.046	Self Cal
R&S CMU200	20011270	2009-04



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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, 2008-12-04	40.41	0.87	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2008-12-17	53.62	0.98	1.00
		Recommended	55.20	0.97	1.00
835	Head	Measured, 2008-12-15	39.94	0.86	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2008-12-18	53.51	0.98	1.00
		Recommended	55.20	0.97	1.00
1900	Head	Measured, 2008-12-05	38.00	1.46	1.00
		Recommended	40.00	1.40	1.00
1900	Body	Measured, 2008-12-15	50.68	1.57	1.00
		Recommended	53.30	1.52	1.00
1900	Head	Measured, 2008-12-16	38.06	1.46	1.00
		Recommended	40.00	1.40	1.00
1900	Body	Measured, 2008-12-09	50.87	1.58	1.00
		Recommended	53.30	1.52	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 3.1. 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 had been measured in liquid when all RF equipment in lab was switched off. Measured value was 0.0002 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, 2008-12-04	9.84	40.41	0.87	1.00	22.4
		Reference	9.20	41.50	0.90	1.00	22.0
835	Body	Measured, 2008-12-17	10.16	53.62	0.98	1.00	23.3
		Reference	9.48	55.20	0.97	1.00	22.0
835	Head	Measured, 2008-12-15	10.00	39.94	0.86	1.00	21.5
		Reference	9.20	41.50	0.90	1.00	22.0
835	Body	Measured, 2008-12-18	10.00	53.51	0.98	1.00	23.1
		Reference	9.48	55.20	0.97	1.00	22.0
1900	Head	Measured, 2008-12-05	39.08	38.00	1.46	1.00	22.4
		Reference	37.40	40.00	1.40	1.00	22.0
1900	Body	Measured, 2008-12-15	42.00	50.68	1.57	1.00	22.6
		Reference	38.60	53.30	1.52	1.00	22.0
1900	Head	Measured, 2008-12-16	38.64	38.06	1.46	1.00	22.4
		Reference	37.40	40.00	1.40	1.00	22.0
1900	Body	Measured, 2008-12-09	40.80	50.87	1.58	1.00	22.4
		Reference	38.60	53.30	1.52	1.00	22.0



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7 SAR measurement uncertainty

SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880010 (C510a) 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.

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	33.7	Cheek	22.4	0.79	0.84
			Tilt	22.4	-	-
	190	33.8	Cheek	22.4	0.78	0.85
			Tilt	22.4	0.60	0.66
	251	33.8	Cheek	22.4	0.82	0.85
			Tilt	22.4	-	-
GSM 1900	512	30.5	Cheek	22.4	1.27	1.01
			Tilt	22.4	-	-
	661	30.4	Cheek	22.4	1.26	1.12
			Tilt	22.4	0.48	0.36
	810	30.4	Cheek	22.4	1.27	1.08
			Tilt	22.4	-	-
UMTS 2	9262	22.4	Cheek	22.4	1.36	1.25
			Tilt	22.4	-	-
	9400	22.4	Cheek	22.4	1.33	1.29
			Tilt	22.4	0.49	0.41
	9538	22.5	Cheek	22.4	1.30	1.25
			Tilt	22.4	-	-

Table 1: SAR measurement result for Sony Ericsson PY7A3880010 telephone at highest possible output power. Measured towards the head.

¹ Measured output values were provided by the customer.



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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 mas
UMTS5	4132	24.0	Cheek	21.5	0.75	0.80
			Tilt	21.5	-	-
	4183	24.0	Cheek	21.5	0.68	0.72
			Tilt	21.5	0.60	0.59
	4233	24.0	Cheek	21.5	0.89	0.88
			Tilt	21.5	-	-

Table 1 Continued: SAR measurement result for Sony Ericsson PY7A3880010 telephone at highest possible output power. Measured towards the head.

¹ Measured output values were provided by the customer.



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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	33.7	Back / CS	23.3	0.80
		30.8	Back / GPRS	23.3	0.89
		27.8	Back / EGPRS	23.3	0.48
		30.8	Front / GPRS	23.3	0.68
	190	33.8	Back / CS	23.3	0.89
		33.8	Back / PHF	23.3	0.62
		30.9	Back / GPRS	23.3	0.84
	251	33.8	Back / CS	23.3	0.88
		30.9	Back / GPRS	23.3	0.83
GSM 1900	512	30.5	Back / CS	22.6	0.42
		28.0	Back / GPRS	22.4	0.44
	661	30.4	Back / CS	22.6	0.43
		30.4	Back / PHF	22.6	0.41
		27.9	Back / GPRS	22.4	0.49
		26.9	Back / EGPRS	22.4	0.40
	810	30.4	Back / CS	22.6	0.39
		27.8	Back / GPRS	22.4	0.49
		27.8	Front / GPRS	22.4	0.57
UMTS B2	9262	22.4	Back / CS	22.4	0.44
		22.4	Back / PHF	22.4	0.38
		22.1	Back / HSDPA	22.4	0.45
		22.1	Front / HSDPA	22.4	0.47
	9400	22.4	Back / CS	22.4	0.43
		22.1	Back / HSDPA	22.4	0.44
	9538	22.5	Back / CS	22.4	0.42
		22.2	Back / HSDPA	22.4	0.42
UMTS B5	4132	24.0	Back / CS	23.1	0.91
		23.5	Back / HSDPA	23.1	0.85
	4183	24.0	Back / CS	23.1	0.86
		24.0	Back / PHF	23.1	0.71
		23.6	Back / HSDPA	23.1	0.84
	4233	24.0	Back / CS	23.1	0.93
		23.6	Back / HSDPA	23.1	0.86
		24.0	Front / CS	23.1	0.73

Table 2: SAR measurement result for Sony Ericsson PY7A3880010 telephone at highest possible output power. Measured towards the body.

¹ Measured output values were provided by the customer.



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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 KDB648474. "SAR Evaluation Consideration for HANDSETS with Multiple Transmitters and Antenna", April 2008.
- [6] 3GPP TS 34.121 Universal Mobile Telecommunications System (UMTS); Terminal Conformance Specification, Radio Transmission and Reception (FDD).

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Appendix

9.1 Photographs of the device under test



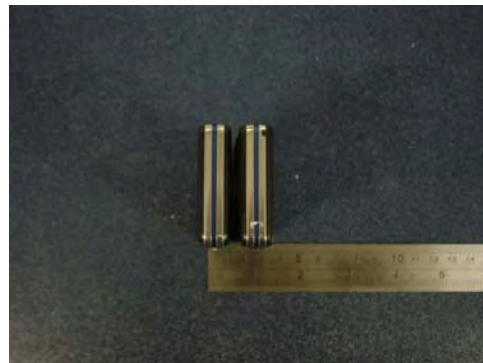
Front & Back



Sides



Back side with battery



Top and Bottom

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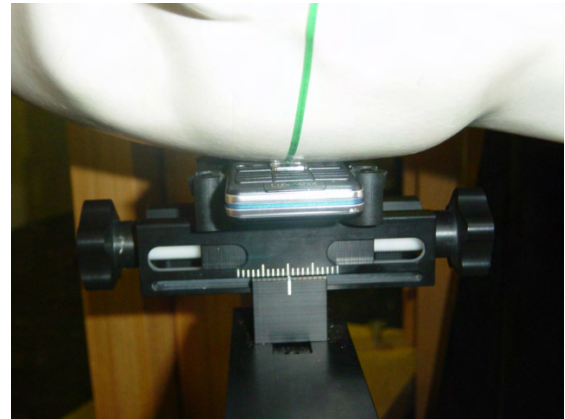
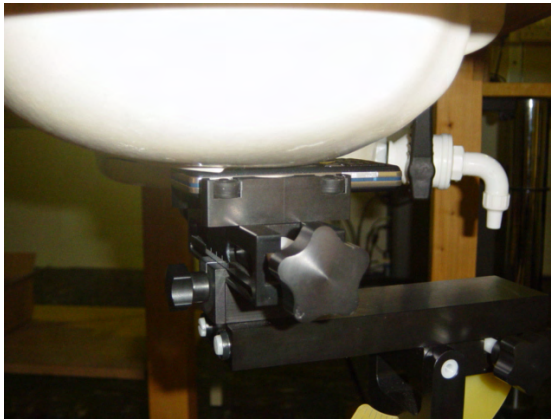
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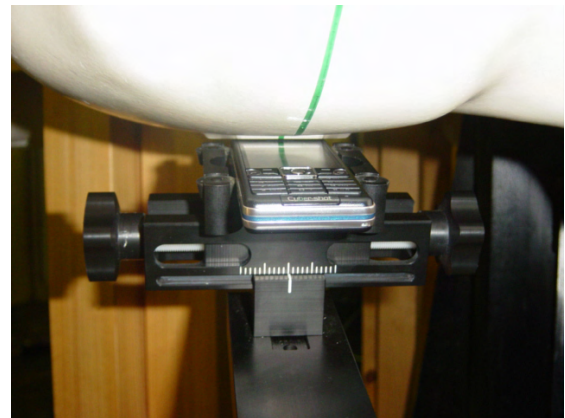
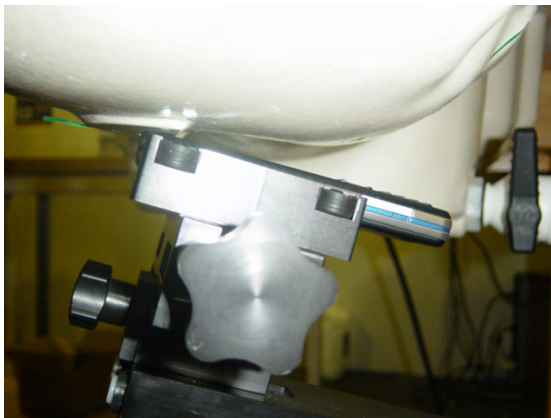
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9.2 Device position at SAM Twin Phantom



DUT position towards the head: Cheek (touch) position



DUT position towards the head: Tilt (touch + 15°) position

Company Internal
REPORT

Prepared (also subject responsible if other)

BA/SEMC/CCDAU Jon Kenny

Approved

LD/SEMC/CCDALE Peter Lindeborg

Checked

PL

No.

CCDA09:004.

Date

090129

Rev

B

Reference

File



DUT in body position with 15 mm distance



Company Internal
REPORT

Prepared (also subject responsible if other)

BA/SEMC/CCDAU *Jon Kenny*

Approved

LD/SEMC/CCDALE *Peter Lindeborg*

Checked

PL

No.

CCDA09:004.

Date

090129

Rev

B

Reference

File

9.3

Attachments

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

Date/Time: 12/4/2008 8:03:46 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-04-12-08**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:484**

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

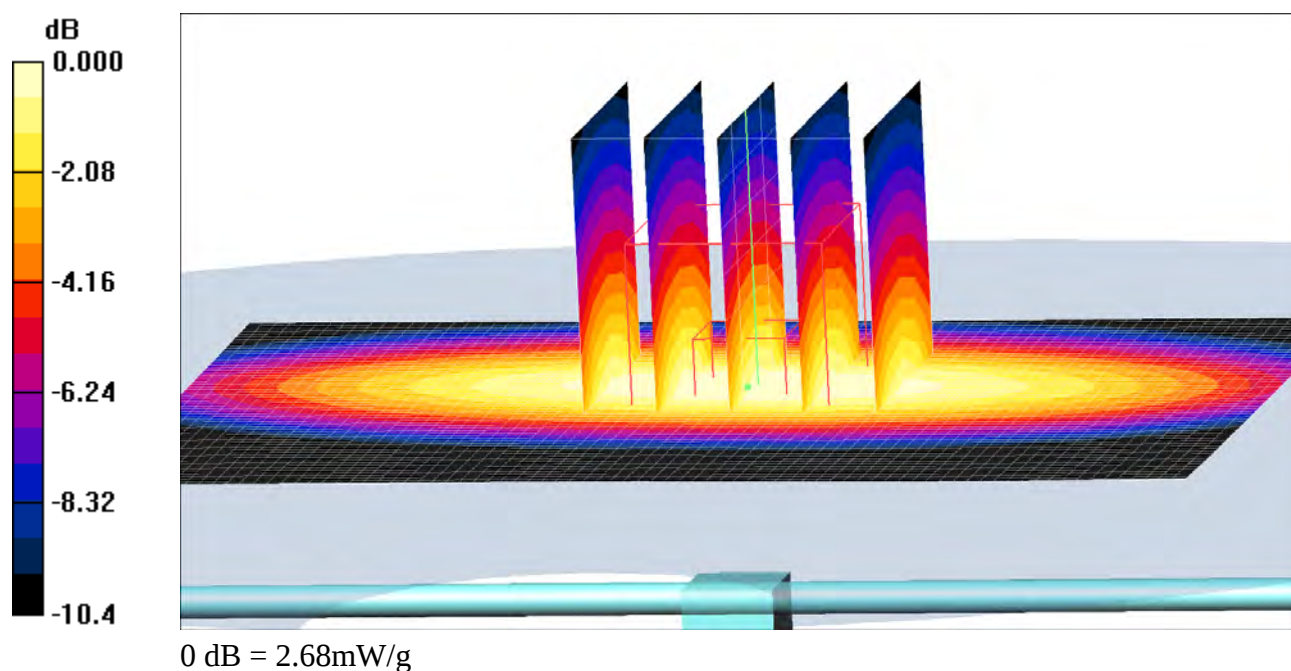
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-2; Type: SAM; Serial: 1025
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.66 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 57.0 V/m; Power Drift = -0.088 dB
Peak SAR (extrapolated) = 3.42 W/kg
SAR(1 g) = 2.46 mW/g; SAR(10 g) = 1.63 mW/g
Maximum value of SAR (measured) = 2.68 mW/g



Date/Time: 12/17/2008 9:02:16 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-Body-17-12-08**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:484**

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

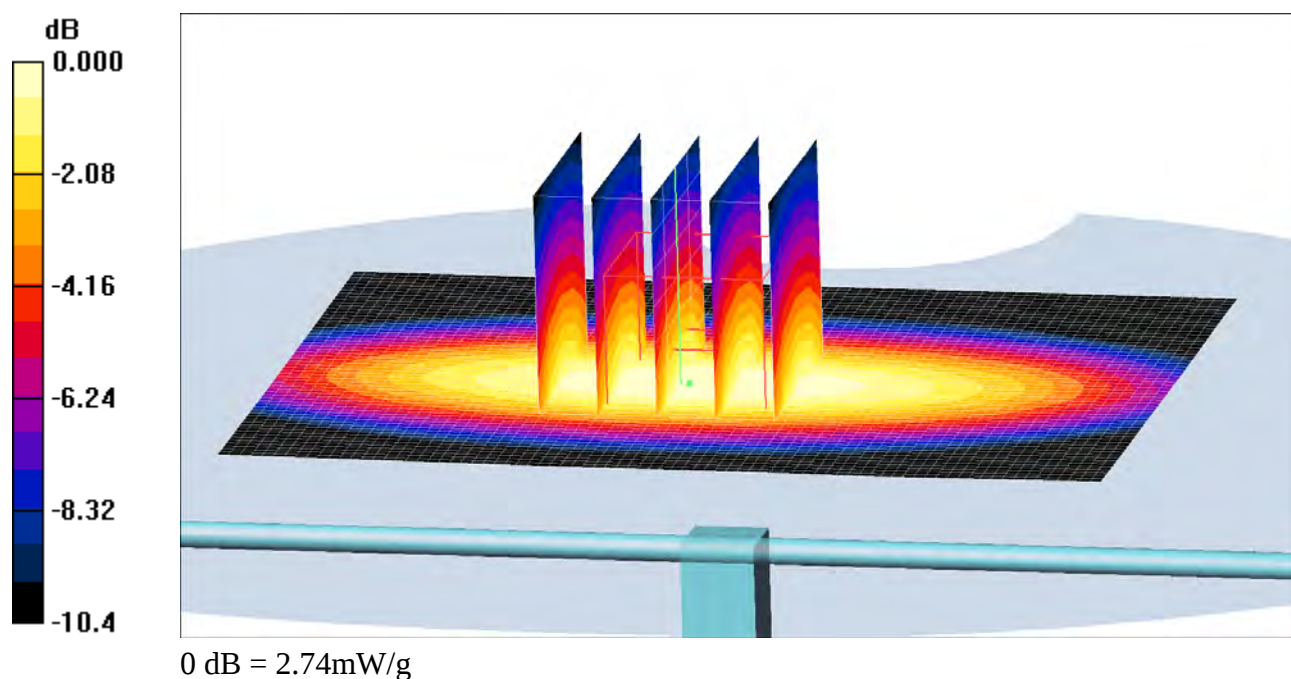
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.76 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.5 V/m; Power Drift = -0.058 dB
Peak SAR (extrapolated) = 3.47 W/kg
SAR(1 g) = 2.54 mW/g; SAR(10 g) = 1.69 mW/g
Maximum value of SAR (measured) = 2.74 mW/g



Date/Time: 12/15/2008 12:24:26 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-15-12-08**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:484**

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

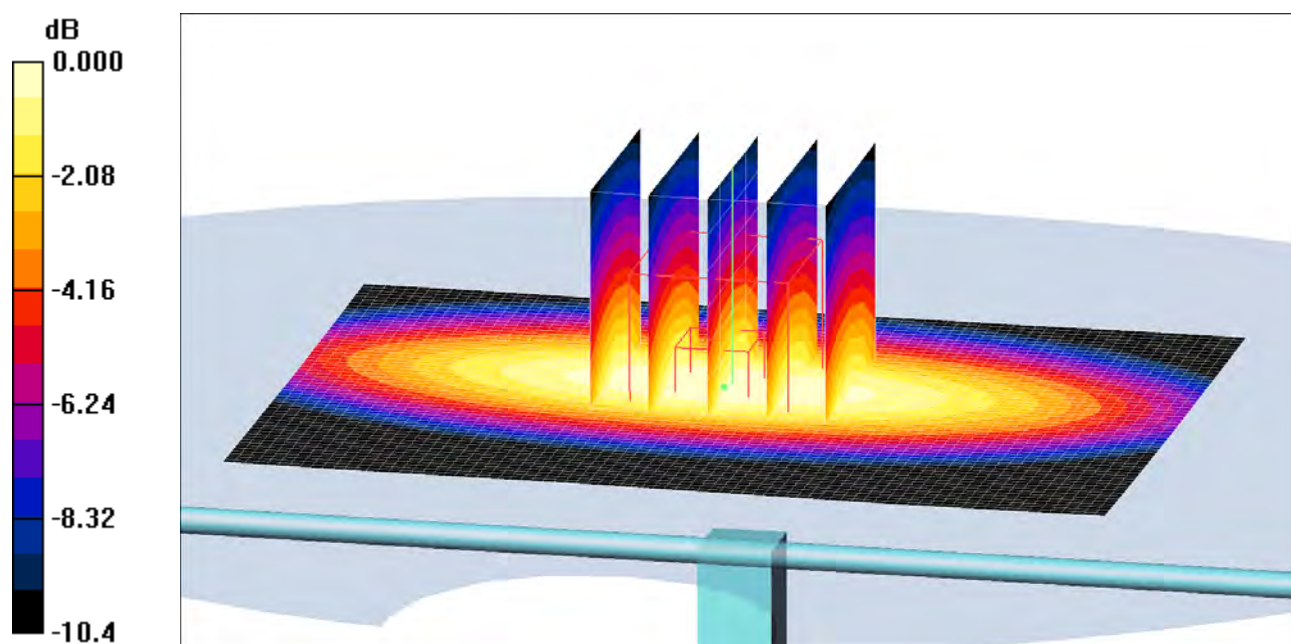
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-2; Type: SAM; Serial: 1025
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.70 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 58.3 V/m; Power Drift = -0.035 dB
Peak SAR (extrapolated) = 3.50 W/kg
SAR(1 g) = 2.5 mW/g; SAR(10 g) = 1.66 mW/g
Maximum value of SAR (measured) = 2.71 mW/g



0 dB = 2.71mW/g

Date/Time: 12/18/2008 9:10:02 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-18-12-08**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:484**

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

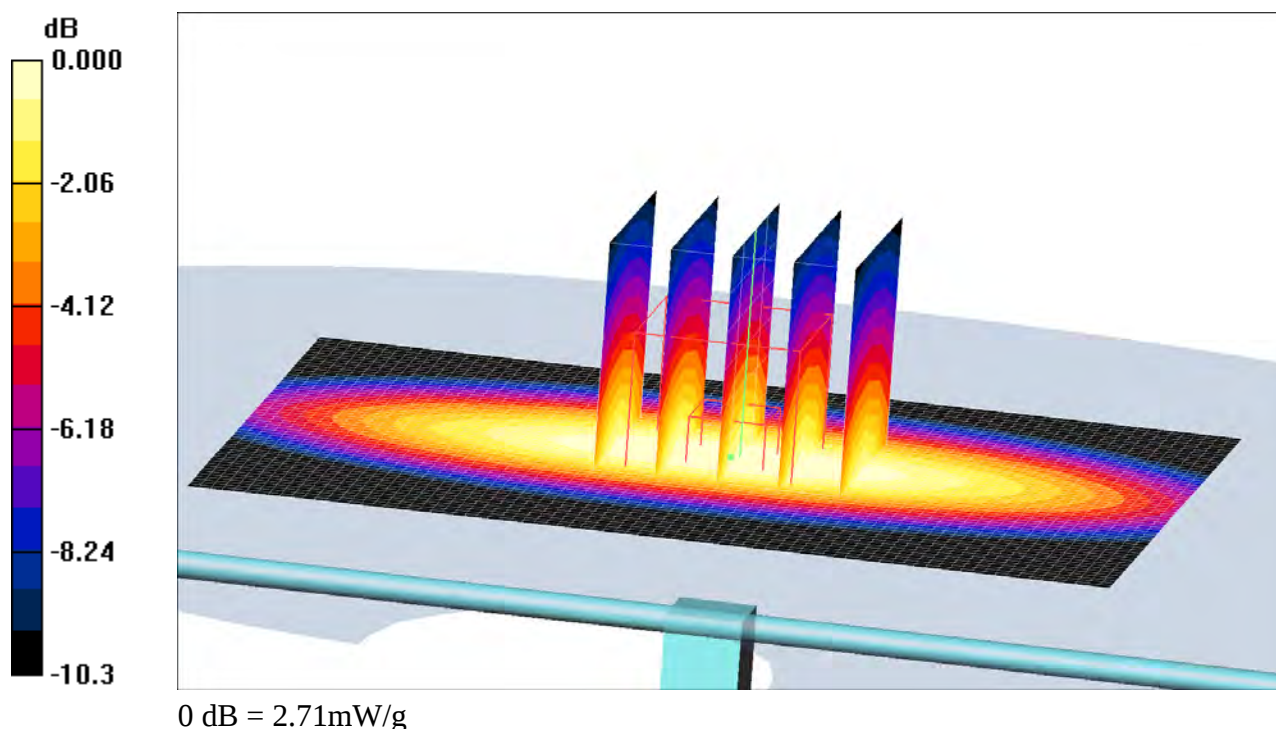
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 2.74 mW/g
d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 55.5 V/m; Power Drift = -0.086 dB
Peak SAR (extrapolated) = 3.42 W/kg
SAR(1 g) = 2.5 mW/g; SAR(10 g) = 1.67 mW/g
Maximum value of SAR (measured) = 2.71 mW/g



Date/Time: 12/5/2008 9:44:46 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-05-12-08**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5D002**

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

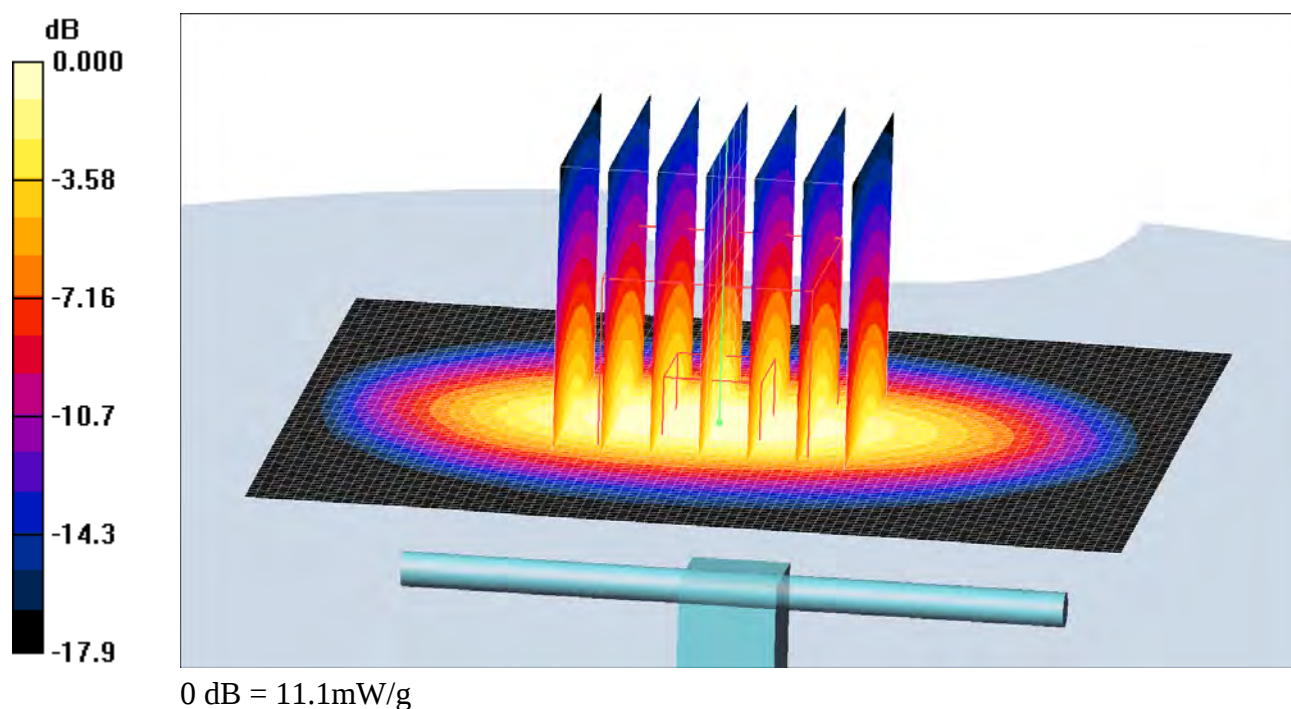
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 11.1 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 90.7 V/m; Power Drift = -0.013 dB
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 9.77 mW/g; SAR(10 g) = 5.08 mW/g
Maximum value of SAR (measured) = 11.1 mW/g



Date/Time: 12/15/2008 10:12:34 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-Body-15-12-08**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5D002**

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

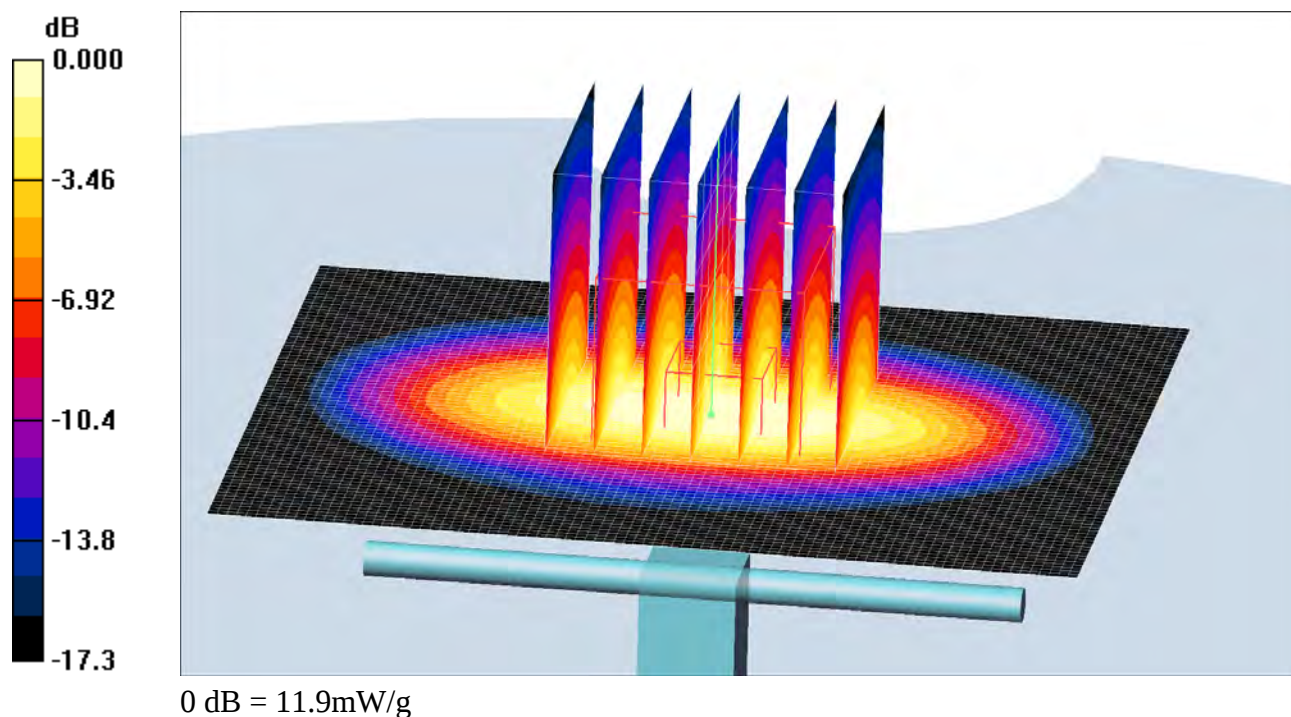
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 12.0 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 90.8 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 19.1 W/kg
SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.49 mW/g
Maximum value of SAR (measured) = 11.9 mW/g



Date/Time: 12/16/2008 10:22:14 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-16-12-08**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5D002**

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

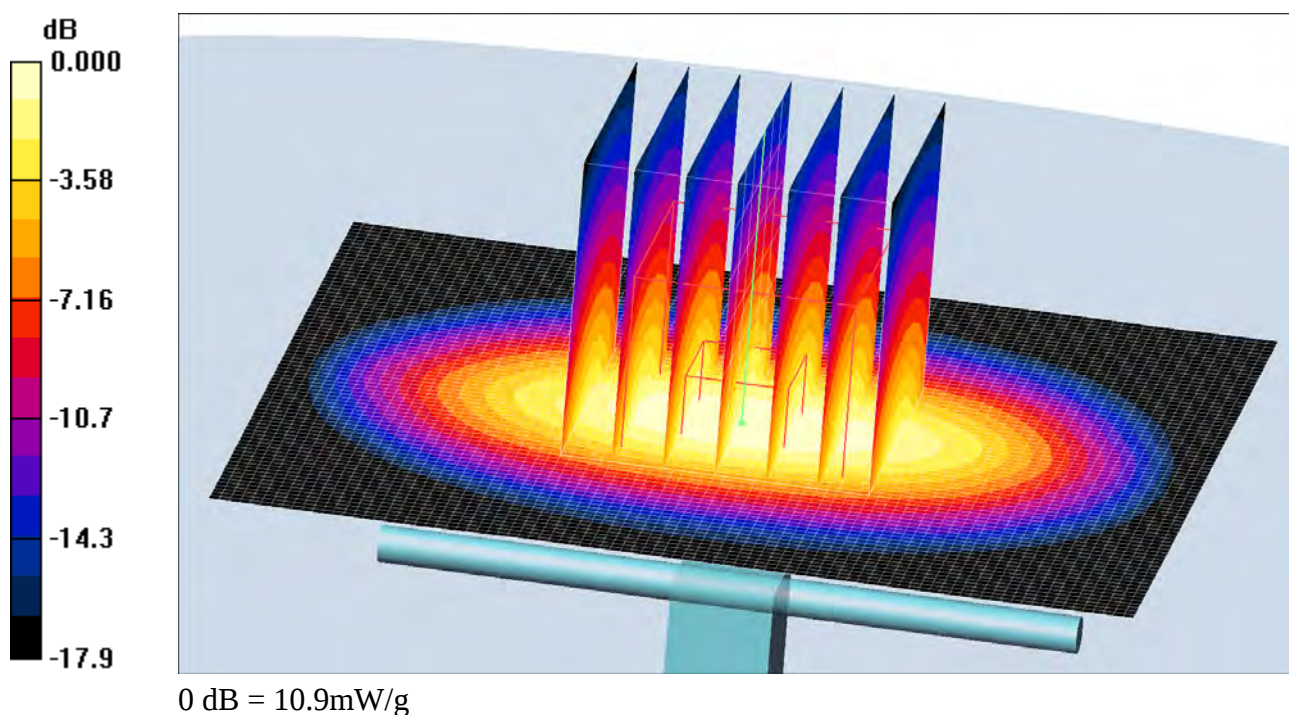
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 11.0 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 91.3 V/m; Power Drift = -0.026 dB
Peak SAR (extrapolated) = 17.4 W/kg
SAR(1 g) = 9.66 mW/g; SAR(10 g) = 5.02 mW/g
Maximum value of SAR (measured) = 10.9 mW/g



Date/Time: 12/9/2008 10:43:23 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-Body-09-12-08**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5D002**

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

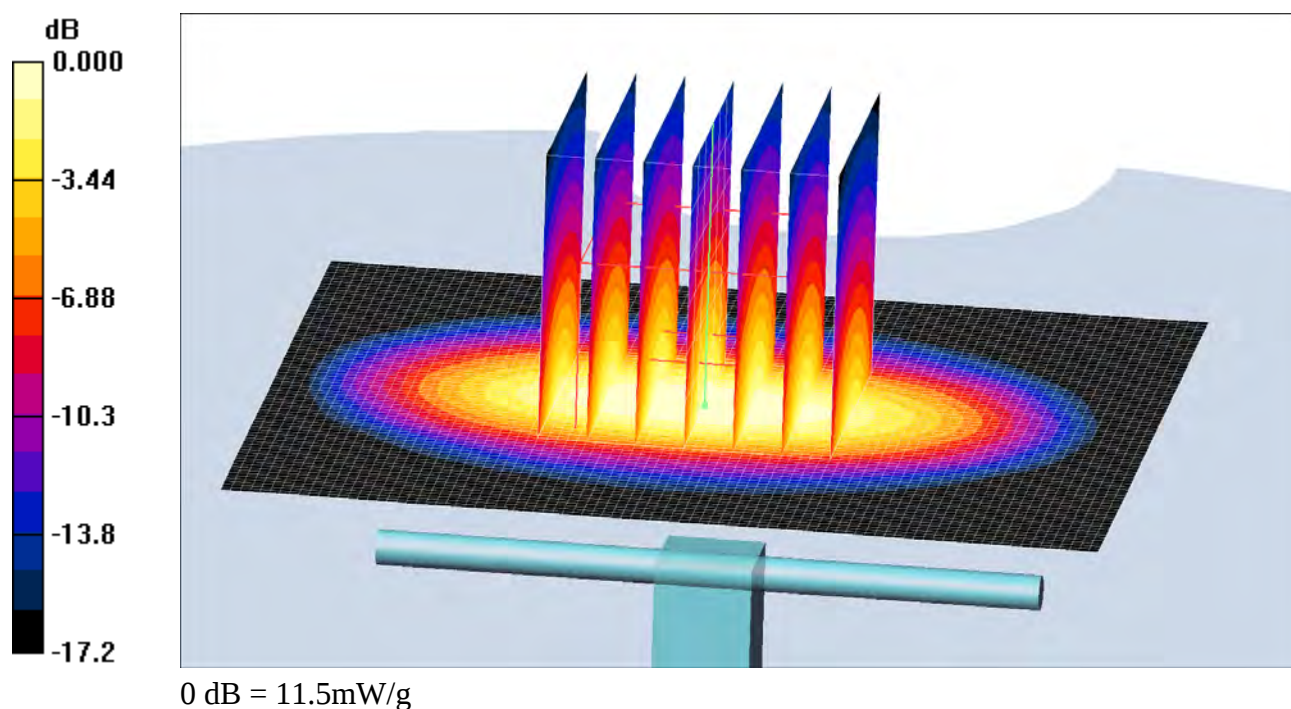
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 11.6 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 90.4 V/m; Power Drift = -0.016 dB
Peak SAR (extrapolated) = 18.4 W/kg
SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.32 mW/g
Maximum value of SAR (measured) = 11.5 mW/g



Date/Time: 12/4/2008 9:41:44 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-LeftHandSide-GSM850-Tilt-Middle**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position - Middle/Area Scan (61x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.651 mW/g

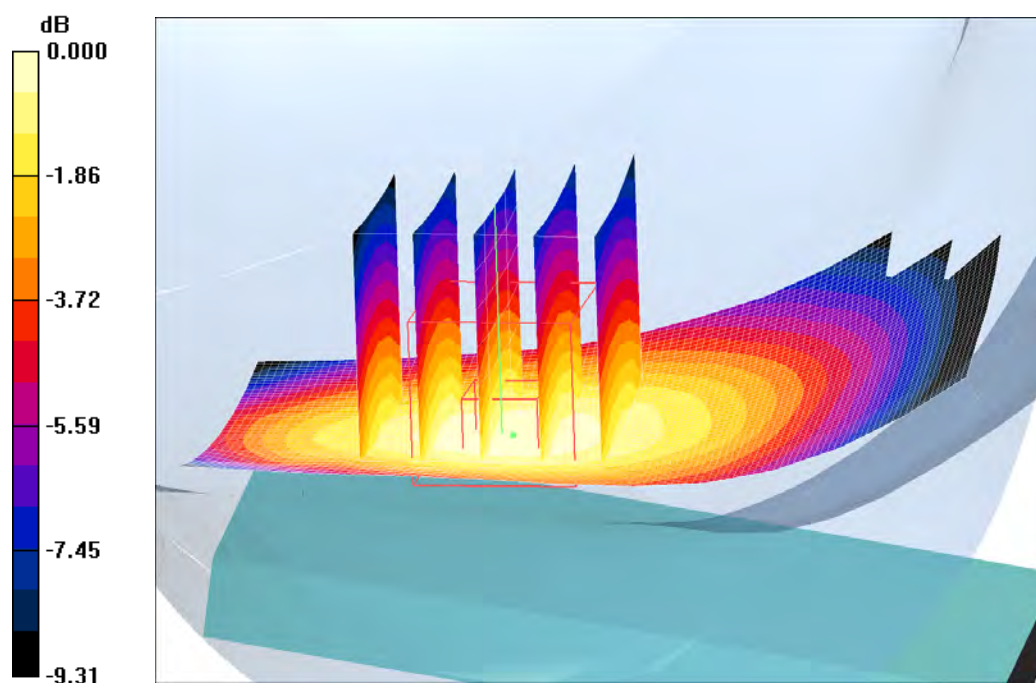
Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.0 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.746 W/kg

SAR(1 g) = 0.604 mW/g; SAR(10 g) = 0.439 mW/g

Maximum value of SAR (measured) = 0.645 mW/g



0 dB = 0.645mW/g

Date/Time: 12/4/2008 10:30:06 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-LeftHandSide-GSM850-Touch-High**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

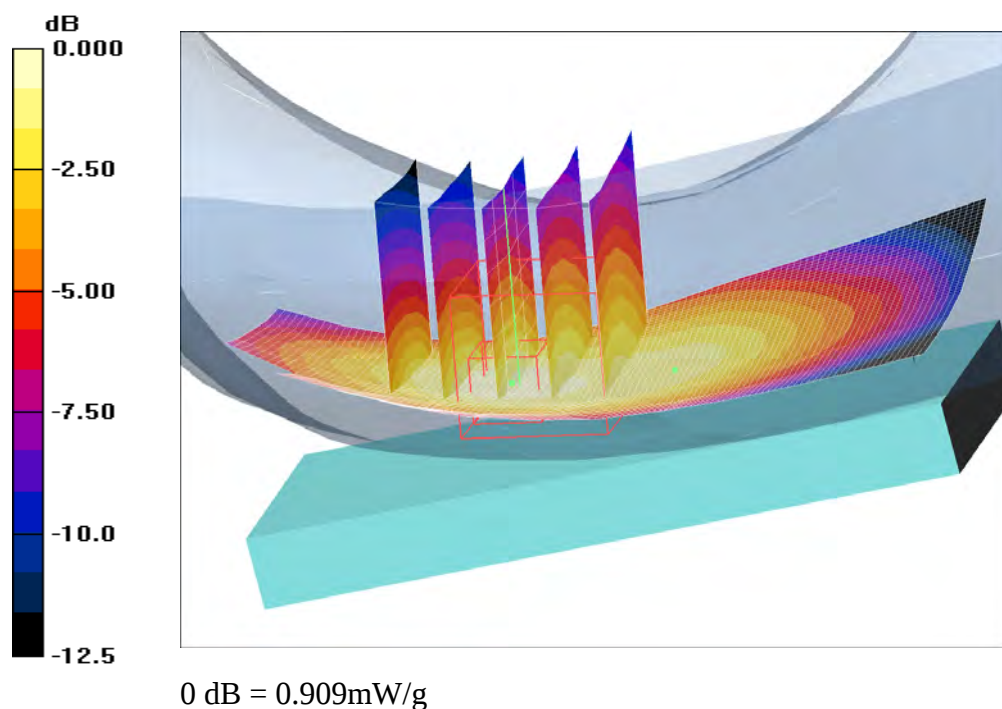
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - High/Area Scan (61x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.898 mW/g **Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 16.1 V/m ; Power Drift = 0.048 dB Peak SAR (extrapolated) = 1.15 W/kg **SAR(1 g) = 0.822 mW/g ; SAR(10 g) = 0.562 mW/g** Maximum value of SAR (measured) = 0.909 mW/g 

Date/Time: 12/4/2008 11:11:03 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-RightHandSide-GSM850-Tilt-Middle**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

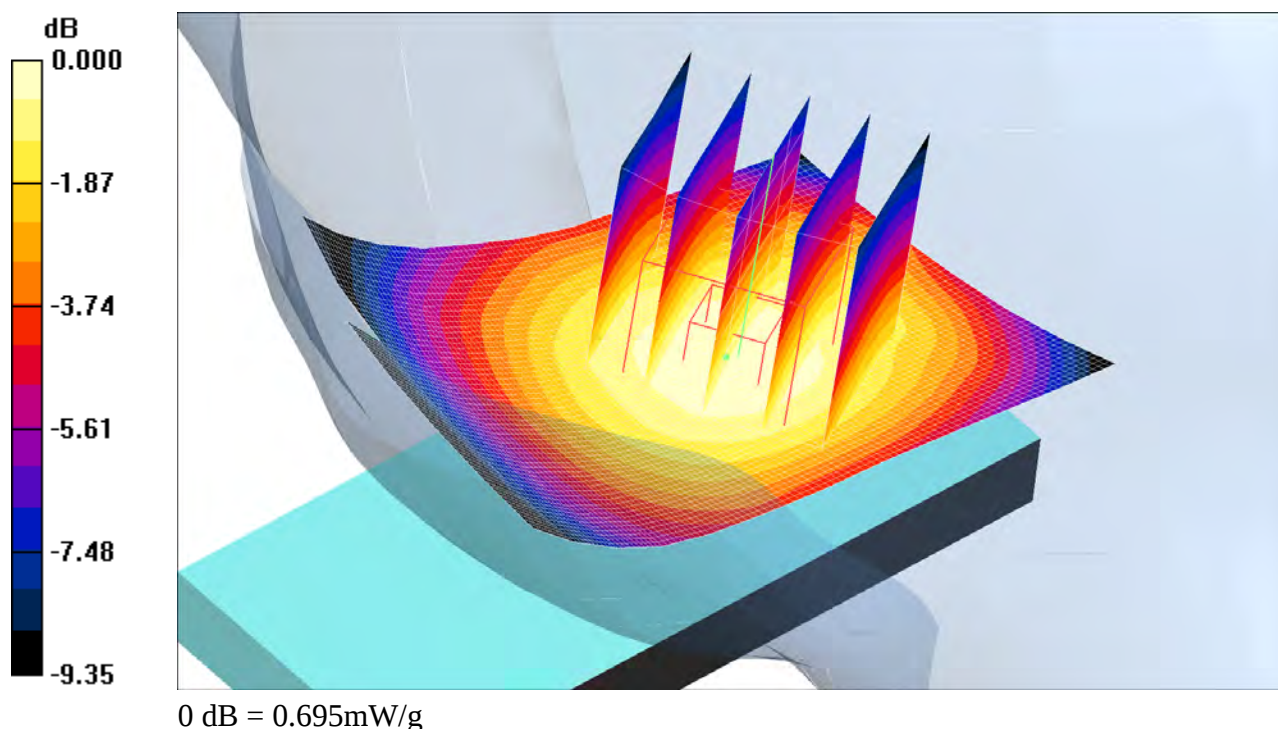
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-2; Type: SAM; Serial: 1025
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.705 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.1 V/m; Power Drift = -0.017 dB
Peak SAR (extrapolated) = 0.806 W/kg
SAR(1 g) = 0.655 mW/g; SAR(10 g) = 0.478 mW/g
Maximum value of SAR (measured) = 0.695 mW/g



Date/Time: 12/4/2008 11:32:02 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-RightHandSide-GSM850-Touch-Low**DUT: Kate; Type: DUT; Serial: #14107**

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

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.858$ mho/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Low/Area Scan (61x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.896 mW/g

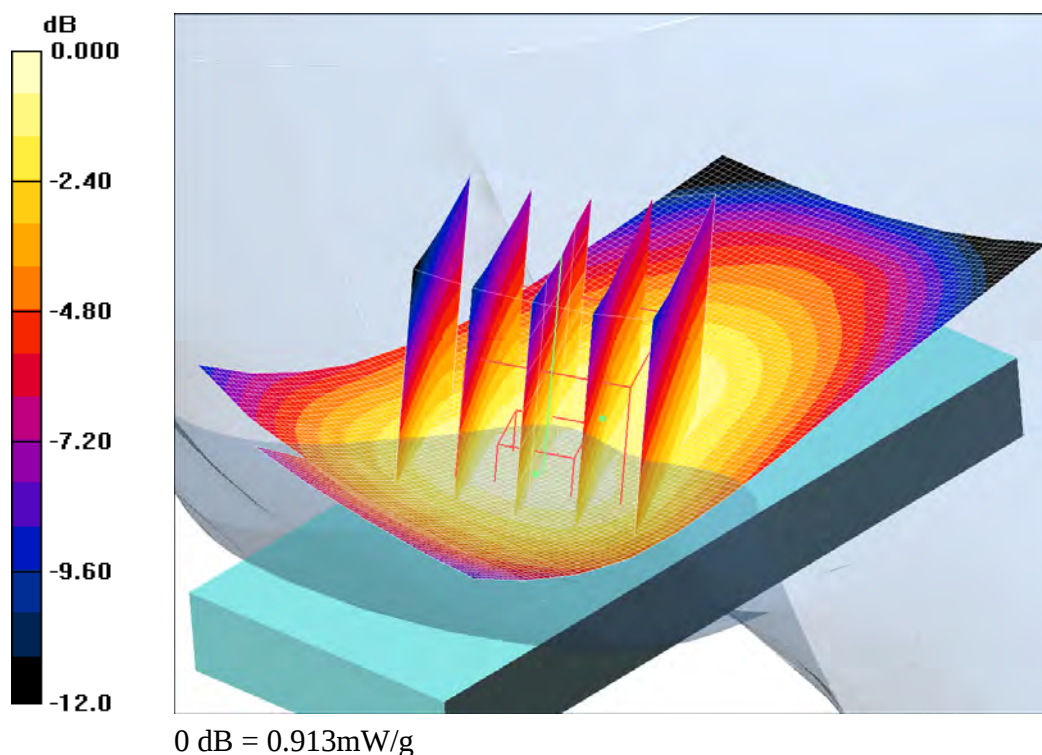
Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.5 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.839 mW/g; SAR(10 g) = 0.597 mW/g

Maximum value of SAR (measured) = 0.913 mW/g



Date/Time: 12/5/2008 10:52:26 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-LeftHandSide-GSM1900-Tilt-Middle**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

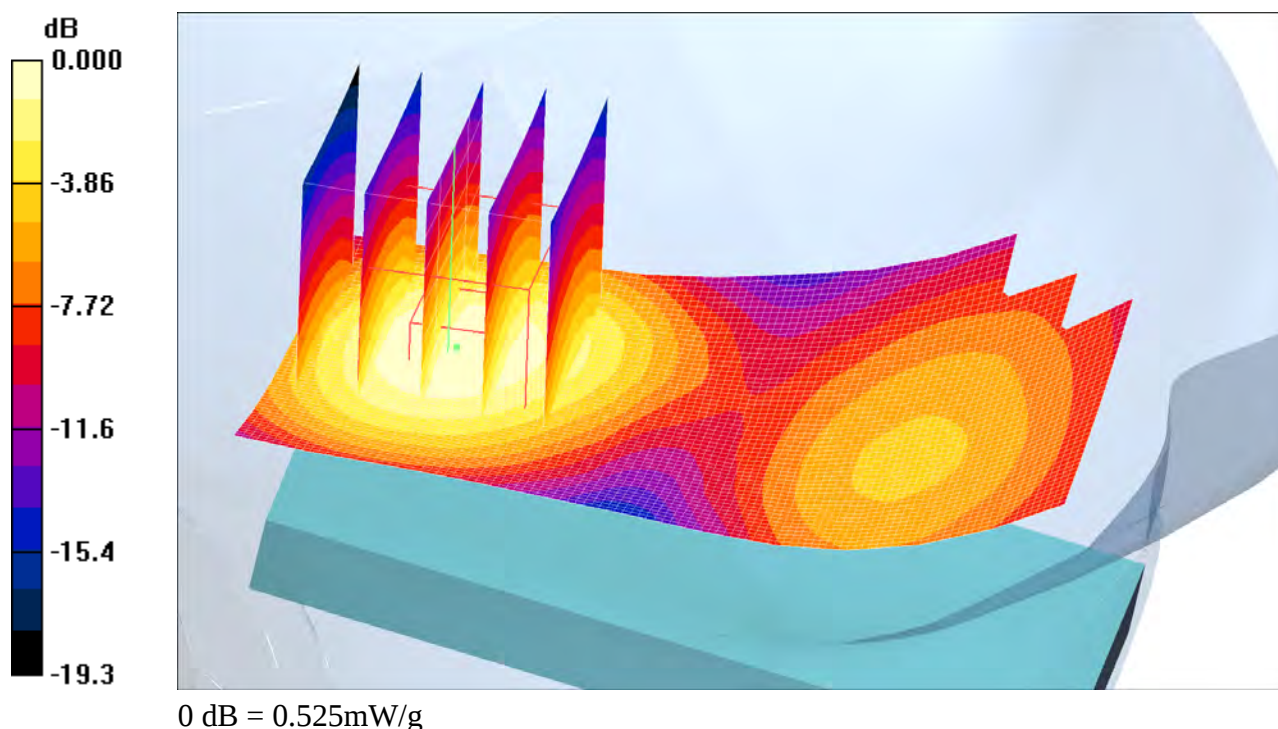
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.540 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.8 V/m; Power Drift = -0.017 dB
Peak SAR (extrapolated) = 0.742 W/kg
SAR(1 g) = 0.482 mW/g; SAR(10 g) = 0.282 mW/g
Maximum value of SAR (measured) = 0.525 mW/g



Date/Time: 12/5/2008 11:29:03 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-LeftHandSide-GSM1900-Touch-High**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

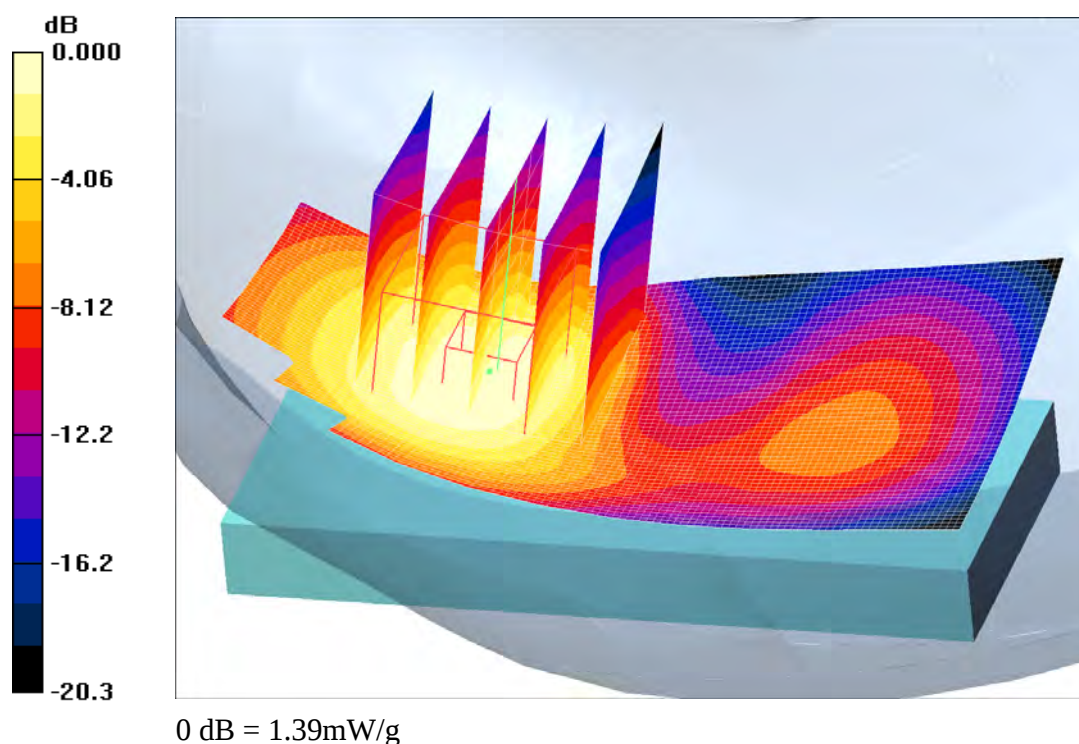
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 38$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch - High/Area Scan (61x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 1.38 mW/g **Touch - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 10.4 V/m ; Power Drift = -0.107 dB Peak SAR (extrapolated) = 1.85 W/kg **SAR(1 g) = 1.27 mW/g ; SAR(10 g) = 0.775 mW/g** Maximum value of SAR (measured) = 1.39 mW/g 

Date/Time: 12/5/2008 12:07:45 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-RightHandSide-GSM1900-Tilt-Middle**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: DCS 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

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position - Middle/Area Scan (61x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.394 mW/g

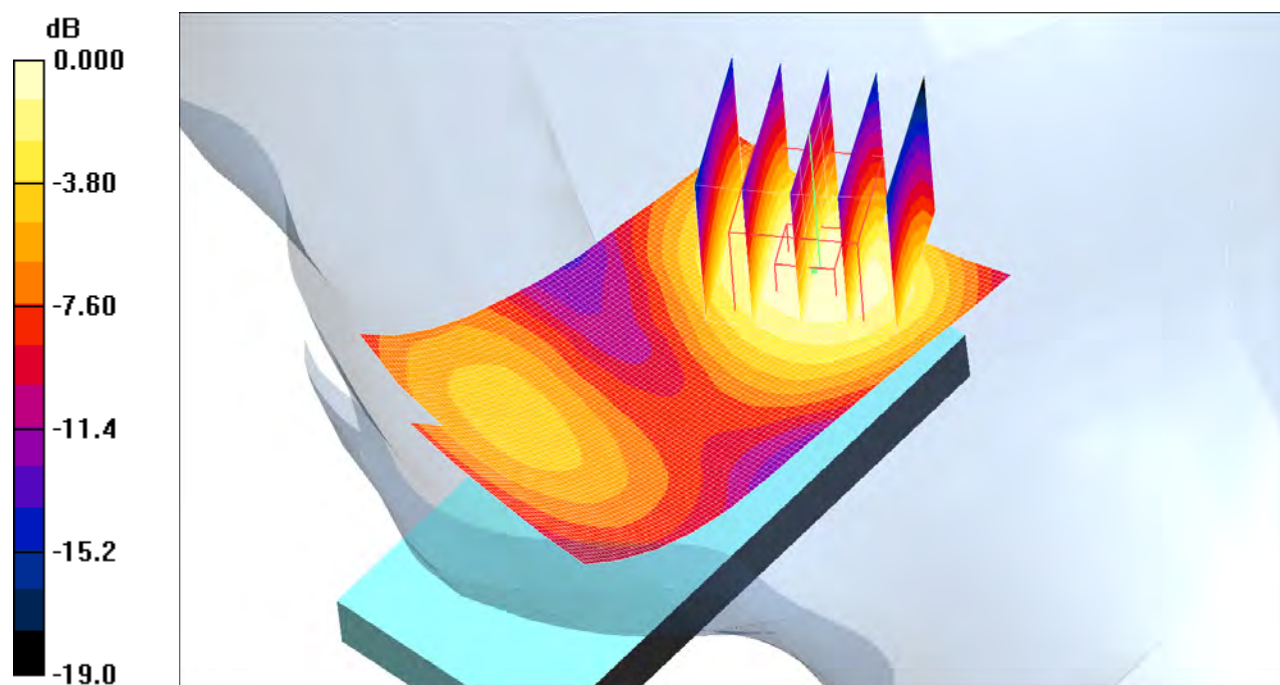
Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.544 W/kg

SAR(1 g) = 0.360 mW/g; SAR(10 g) = 0.215 mW/g

Maximum value of SAR (measured) = 0.393 mW/g



0 dB = 0.393mW/g

Date/Time: 12/5/2008 11:52:04 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-RightHandSide-GSM1900-Touch-Middle**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

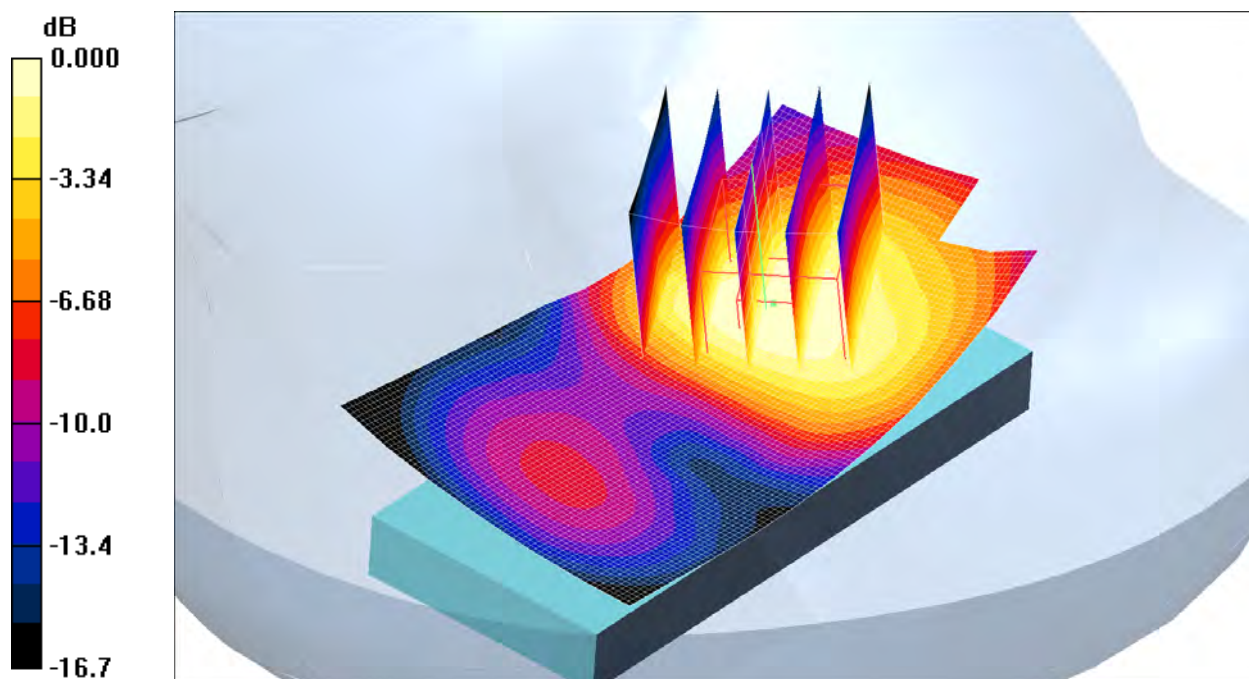
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.23 mW/g
Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.2 V/m; Power Drift = -0.212 dB
Peak SAR (extrapolated) = 1.60 W/kg
SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.682 mW/g
Maximum value of SAR (measured) = 1.23 mW/g



0 dB = 1.23mW/g

Date/Time: 12/16/2008 11:22:28 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-LeftHandSide-UMTS2-Tilt-Middle**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

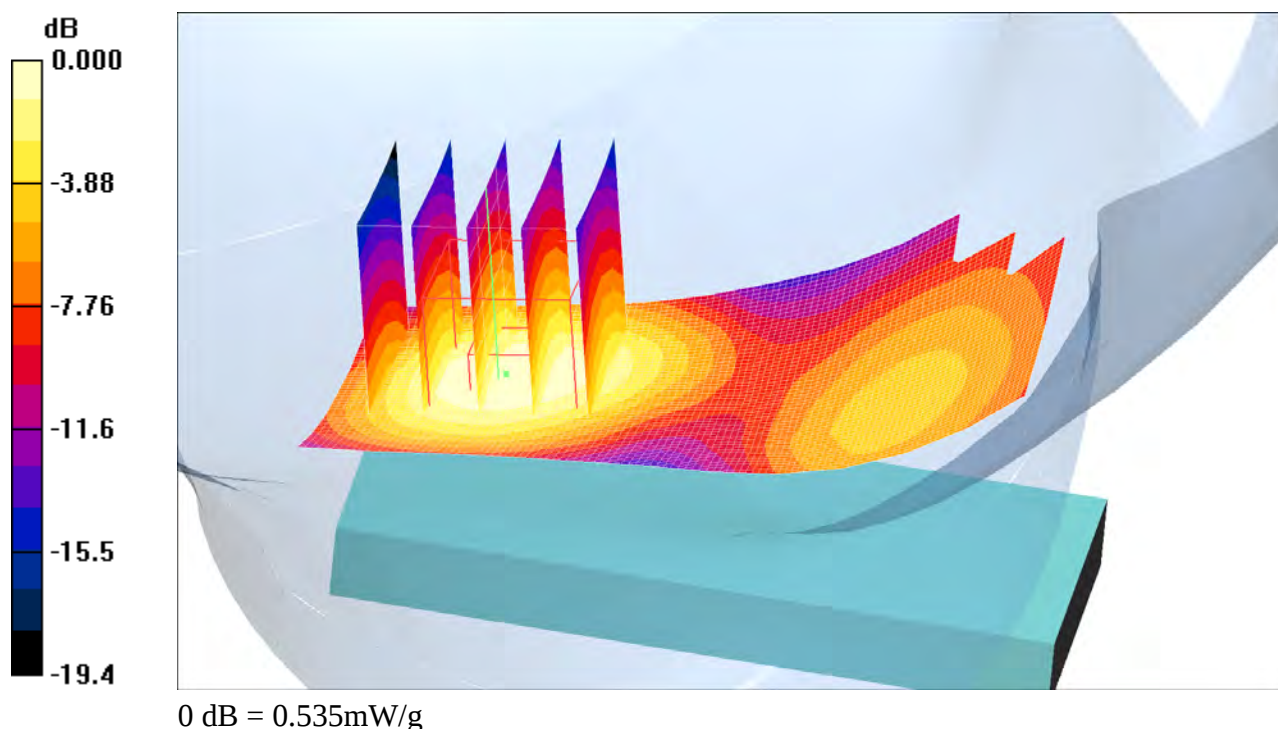
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.545 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.0 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 0.752 W/kg
SAR(1 g) = 0.491 mW/g; SAR(10 g) = 0.290 mW/g
Maximum value of SAR (measured) = 0.535 mW/g



Date/Time: 12/16/2008 11:37:30 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-LeftHandSide-UMTS2-Touch-Low**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Low/Area Scan (61x111x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 1.51 mW/g

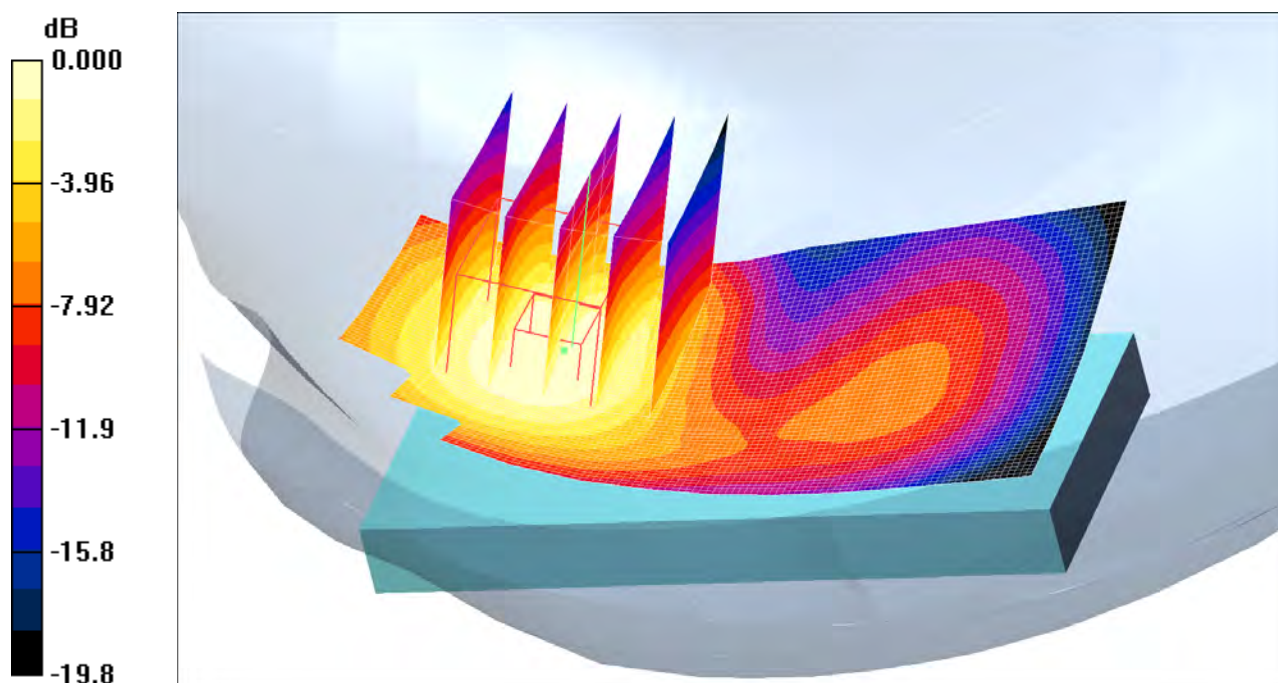
Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.69 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.827 mW/g

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



0 dB = 1.44mW/g

Date/Time: 12/16/2008 2:05:09 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-RightHandSide-UMTS2-Tilt-Middle**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; 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: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position - Middle/Area Scan (61x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.453 mW/g

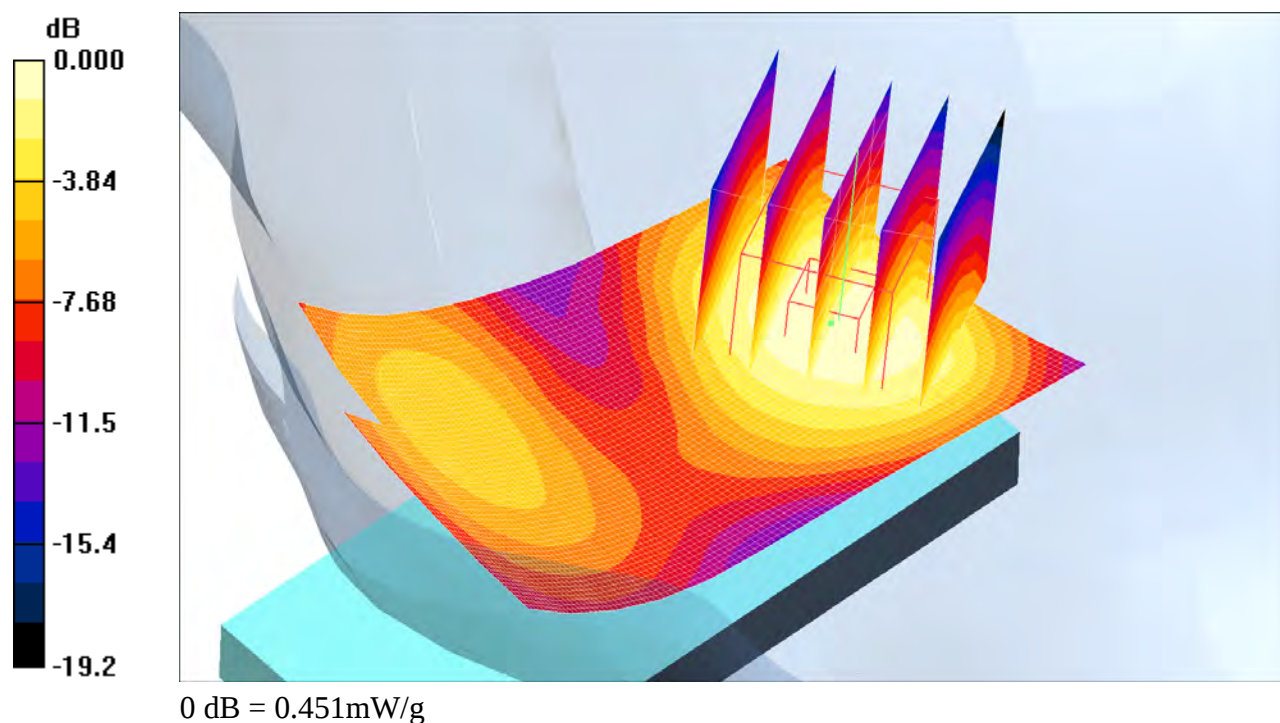
Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.9 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 0.622 W/kg

SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.247 mW/g

Maximum value of SAR (measured) = 0.451 mW/g



Date/Time: 12/16/2008 1:49:45 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-RightHandSide-UMTS2-Touch-Middle**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

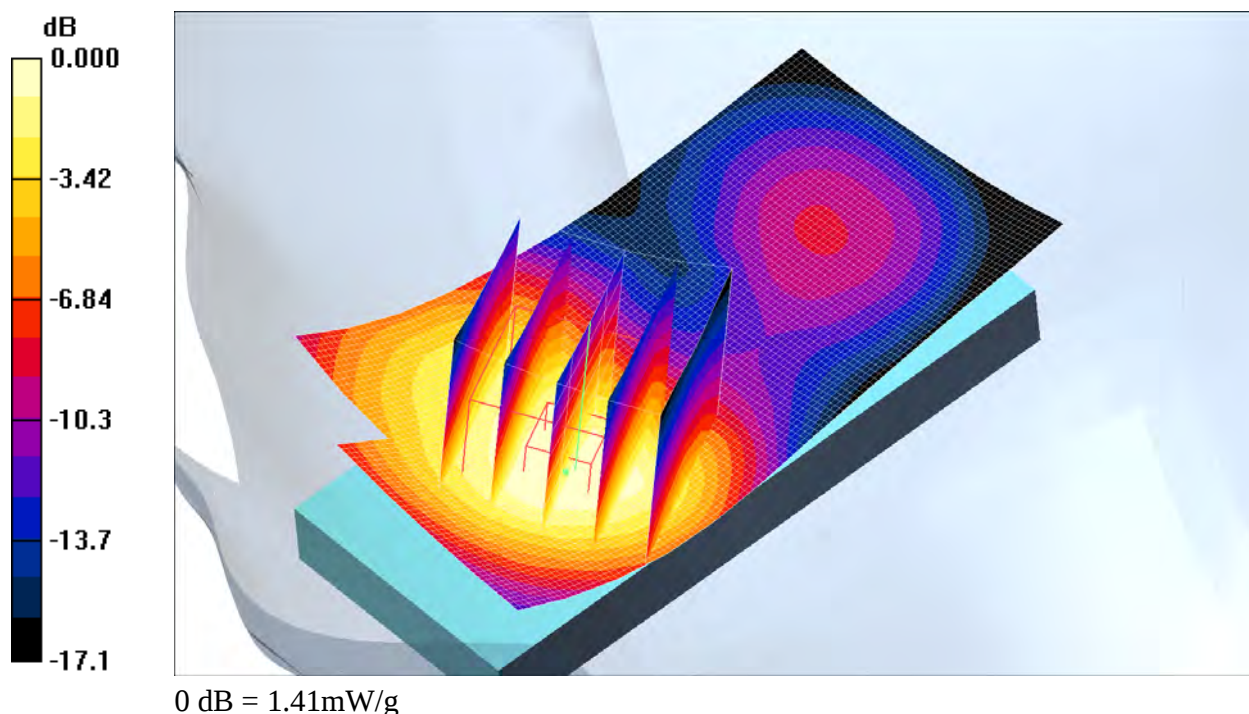
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.42 mW/g
- Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.55 V/m; Power Drift = -0.075 dB
Peak SAR (extrapolated) = 1.89 W/kg
SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.778 mW/g
Maximum value of SAR (measured) = 1.41 mW/g



Date/Time: 12/15/2008 1:55:22 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-LeftHandSide-UMTS5-Tilt-Middle**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 836.6 MHz; Duty Cycle: 1:1

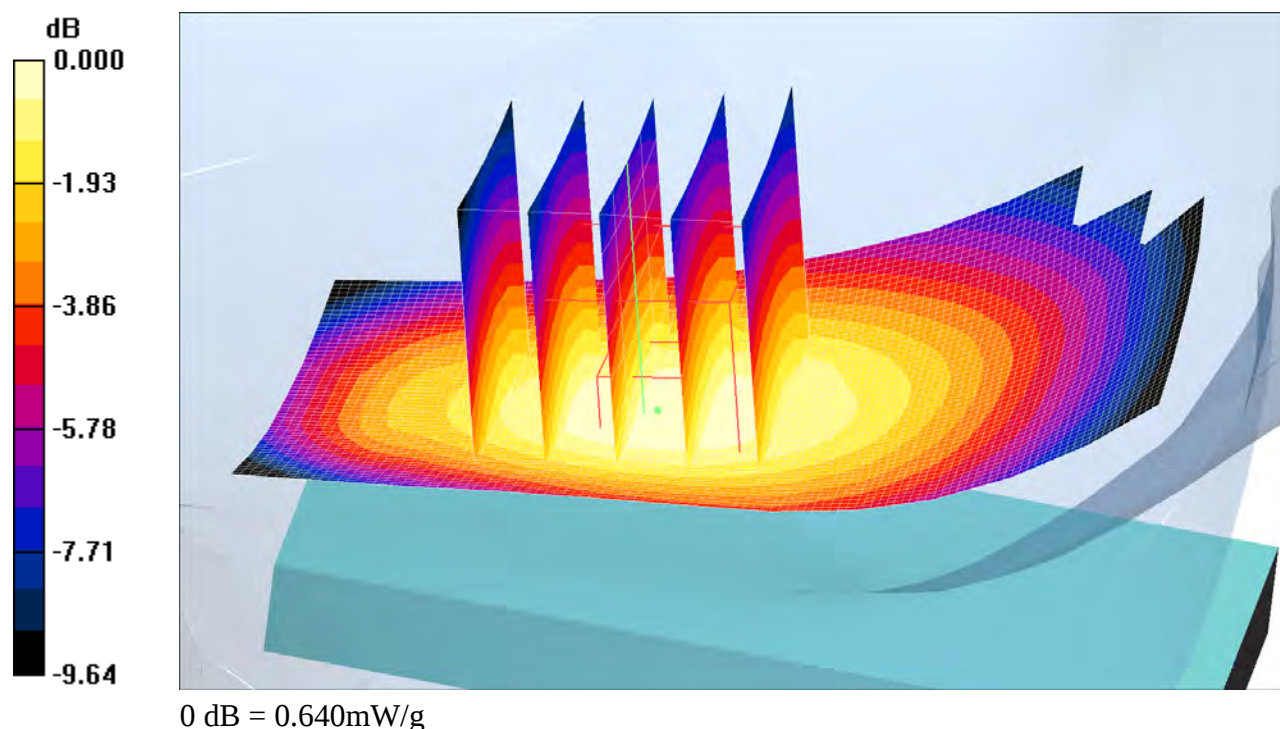
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-2; Type: SAM; Serial: 1025
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.640 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.3 V/m; Power Drift = 0.070 dB
Peak SAR (extrapolated) = 0.741 W/kg
SAR(1 g) = 0.599 mW/g; SAR(10 g) = 0.435 mW/g
Maximum value of SAR (measured) = 0.640 mW/g



Date/Time: 12/15/2008 2:46:10 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-LeftHandSide-UMTS5-Touch-High**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 846.6 MHz; Duty Cycle: 1:1

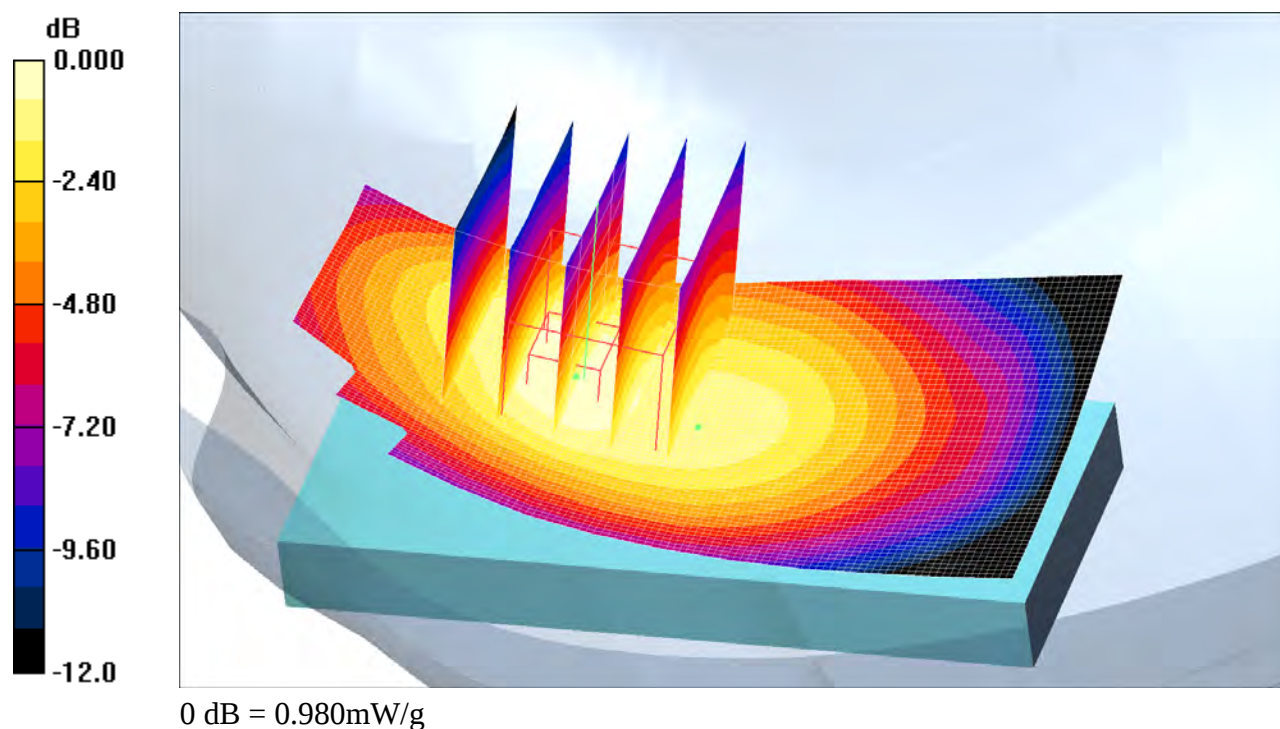
Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-2; Type: SAM; Serial: 1025
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - High/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.965 mW/g
- Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.3 V/m; Power Drift = -0.044 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.893 mW/g; SAR(10 g) = 0.610 mW/g
Maximum value of SAR (measured) = 0.980 mW/g



Date/Time: 12/15/2008 3:28:50 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-RightHandSide-UMTS5-Tilt-Middle**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position - Middle/Area Scan (61x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.631 mW/g

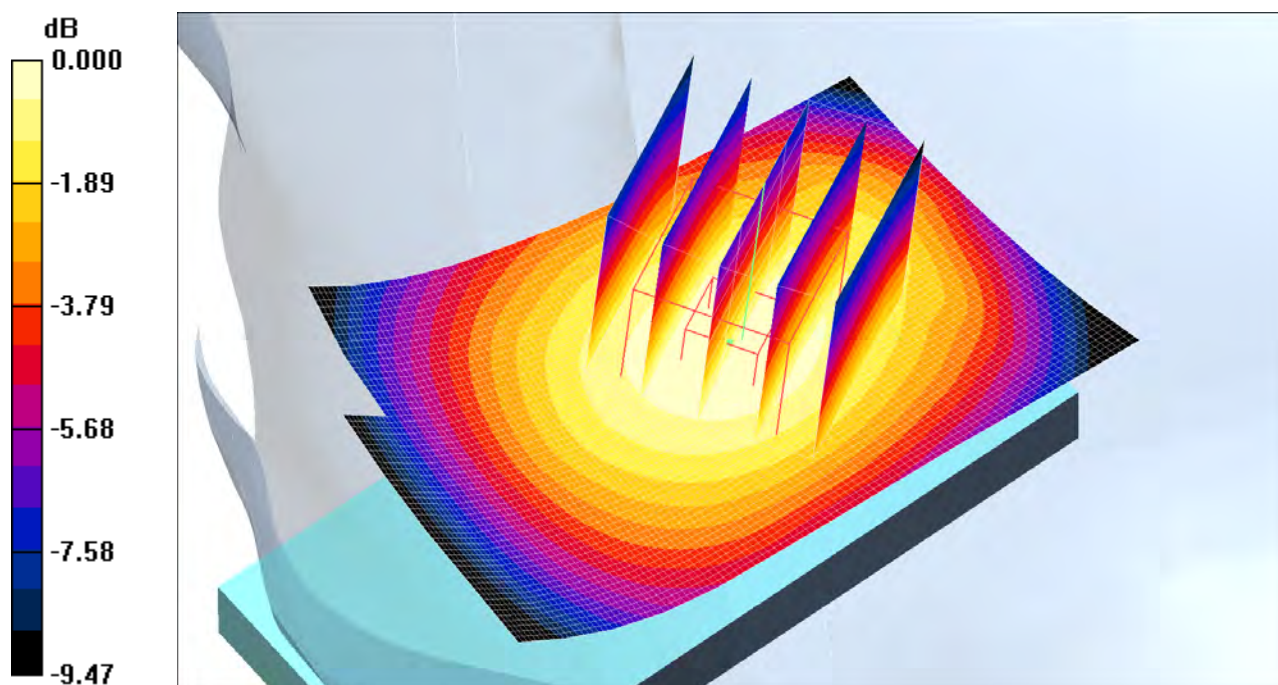
Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.8 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.721 W/kg

SAR(1 g) = 0.587 mW/g; SAR(10 g) = 0.431 mW/g

Maximum value of SAR (measured) = 0.621 mW/g



0 dB = 0.621mW/g

Date/Time: 12/16/2008 9:11:11 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kate-RightHandSide-UMTS5-Touch-High**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - High/Area Scan (61x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.960 mW/g

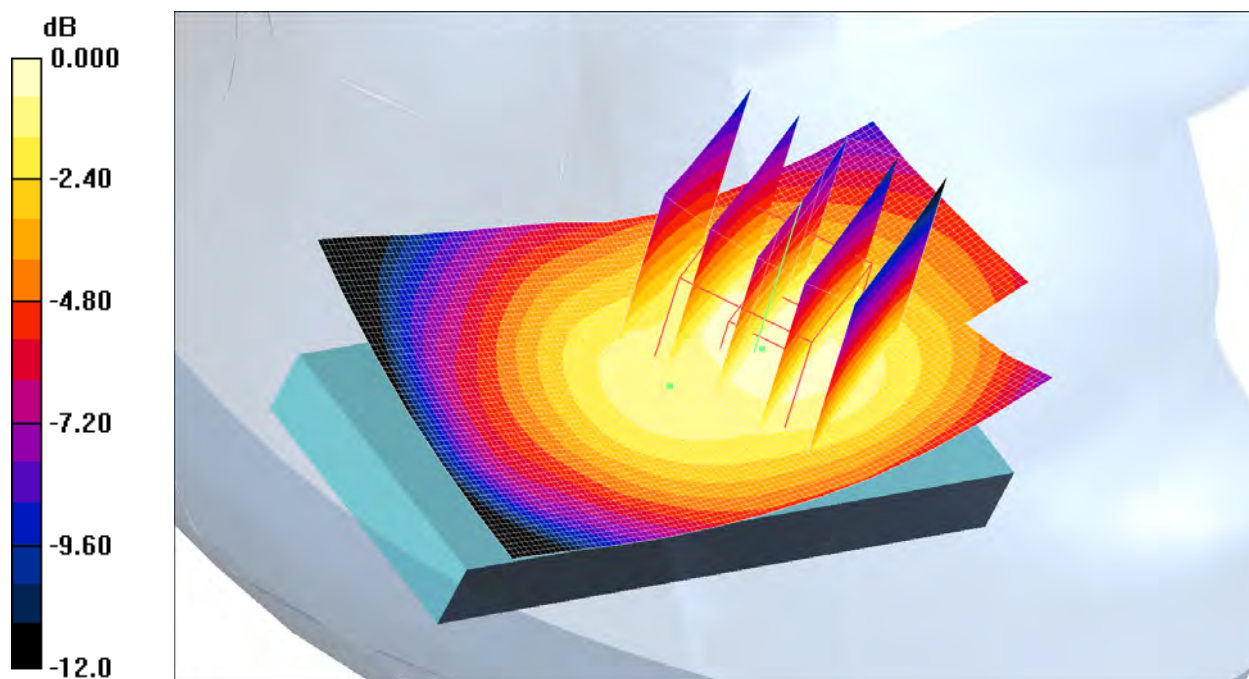
Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.7 V/m; Power Drift = 0.131 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.877 mW/g; SAR(10 g) = 0.613 mW/g

Maximum value of SAR (measured) = 0.950 mW/g



0 dB = 0.950mW/g

Date/Time: 12/17/2008 11:13:56 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-850-Speech-Middle**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

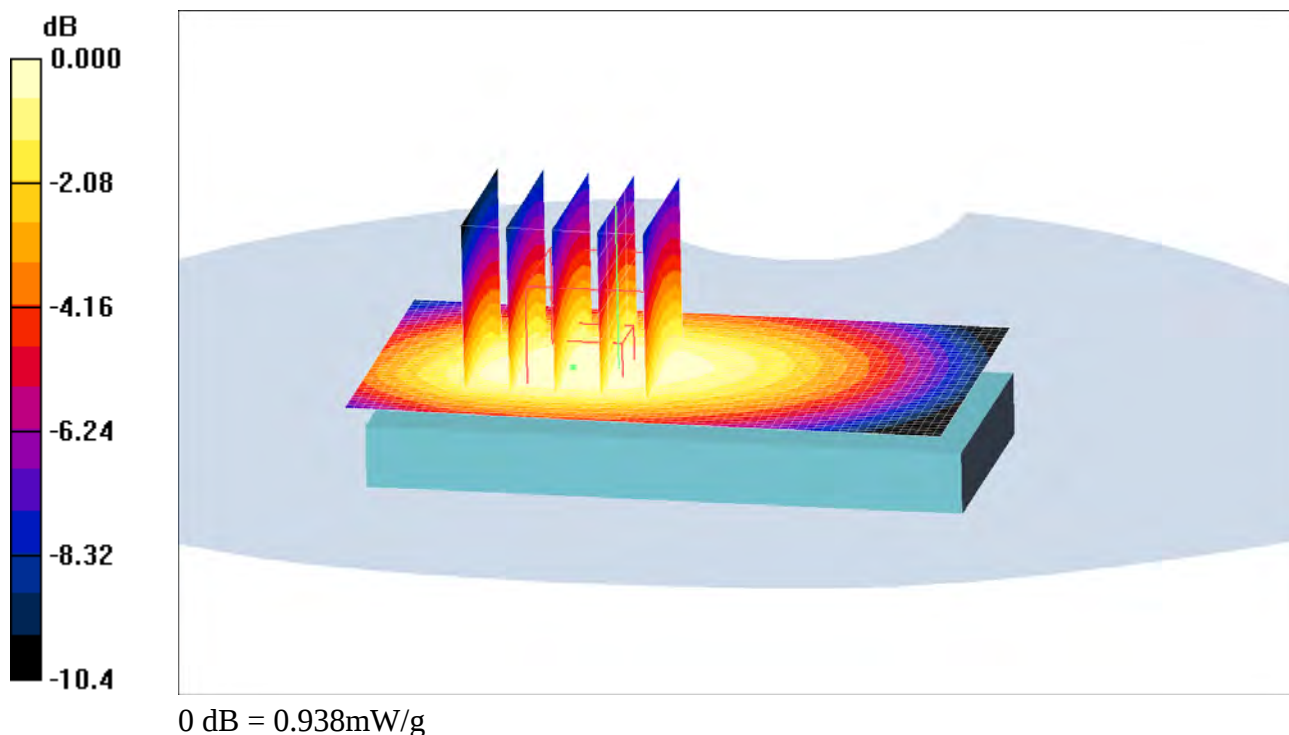
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body 2/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.959 mW/g **Body 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 30.5 V/m ; Power Drift = 0.016 dB Peak SAR (extrapolated) = 1.10 W/kg **SAR(1 g) = 0.891 mW/g ; SAR(10 g) = 0.647 mW/g** Maximum value of SAR (measured) = 0.938 mW/g 

Date/Time: 12/17/2008 11:26:24 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-850-Speech-Middle-PHF**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

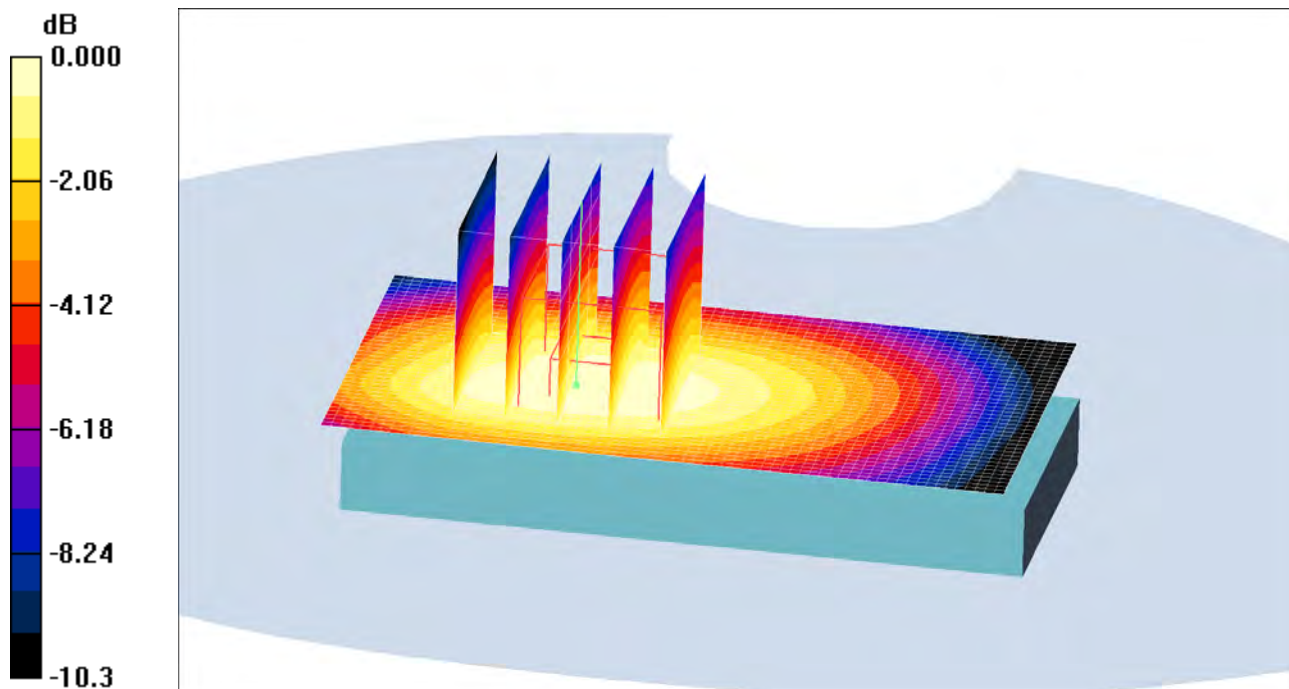
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body PHF/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.661 mW/g **Body PHF/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 25.0 V/m ; Power Drift = 0.105 dB Peak SAR (extrapolated) = 0.784 W/kg **SAR(1 g) = 0.624 mW/g ; SAR(10 g) = 0.454 mW/g** Maximum value of SAR (measured) = 0.665 mW/g 0 dB = 0.665 mW/g

Date/Time: 12/17/2008 10:13:06 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-850-GPRS-Low**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.952 mW/g

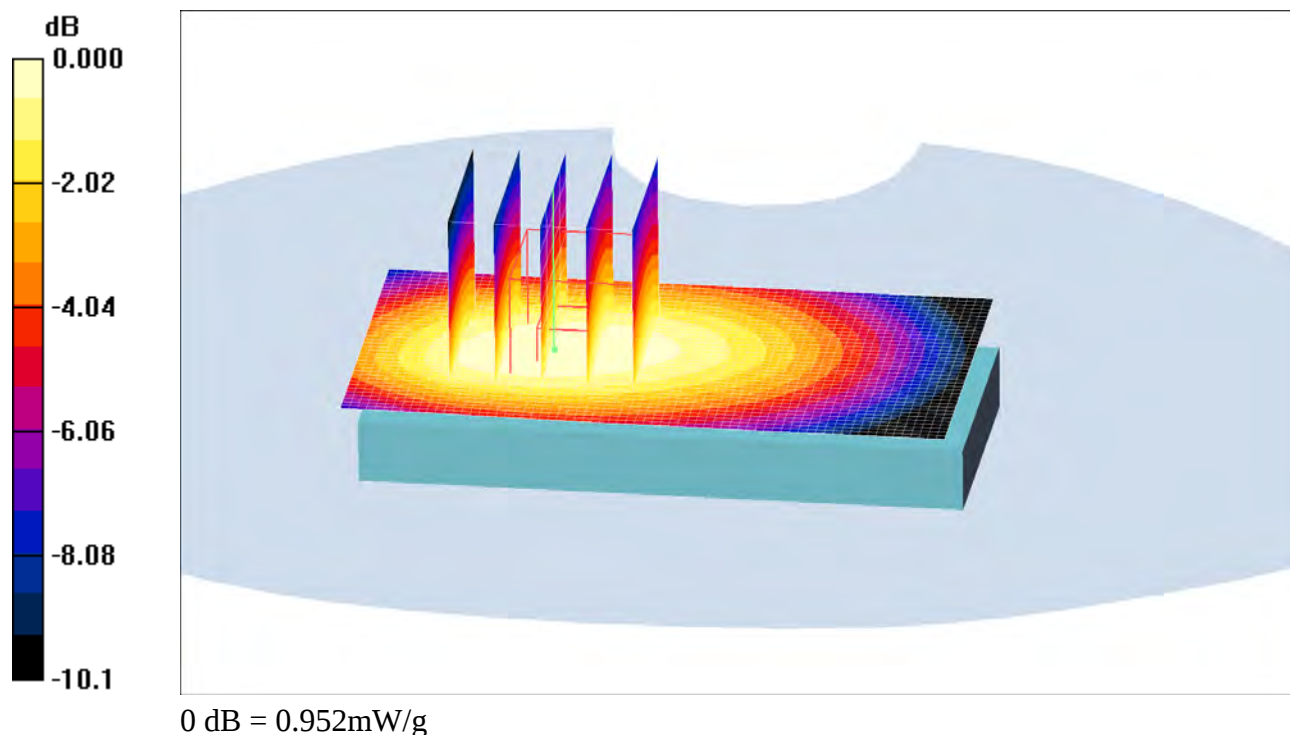
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.6 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.894 mW/g; SAR(10 g) = 0.652 mW/g

Maximum value of SAR (measured) = 0.952 mW/g



Date/Time: 12/17/2008 10:55:54 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-850-GPRS-Low-Front**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:4.15

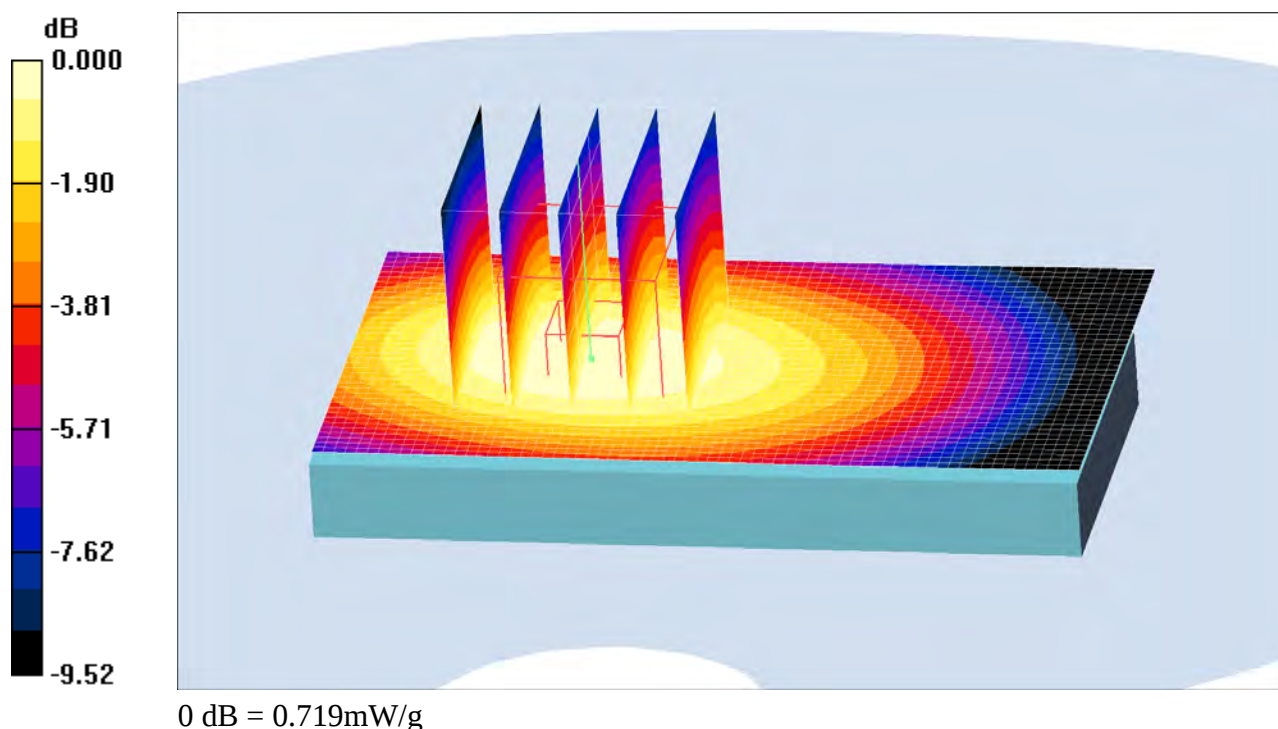
Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Body Front To Phantom/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.726 mW/g
- Body Front To Phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.9 V/m; Power Drift = -0.051 dB
Peak SAR (extrapolated) = 0.821 W/kg
SAR(1 g) = 0.677 mW/g; SAR(10 g) = 0.497 mW/g
Maximum value of SAR (measured) = 0.719 mW/g



Date/Time: 12/15/2008 10:43:38 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-1900-Speech-Middle**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

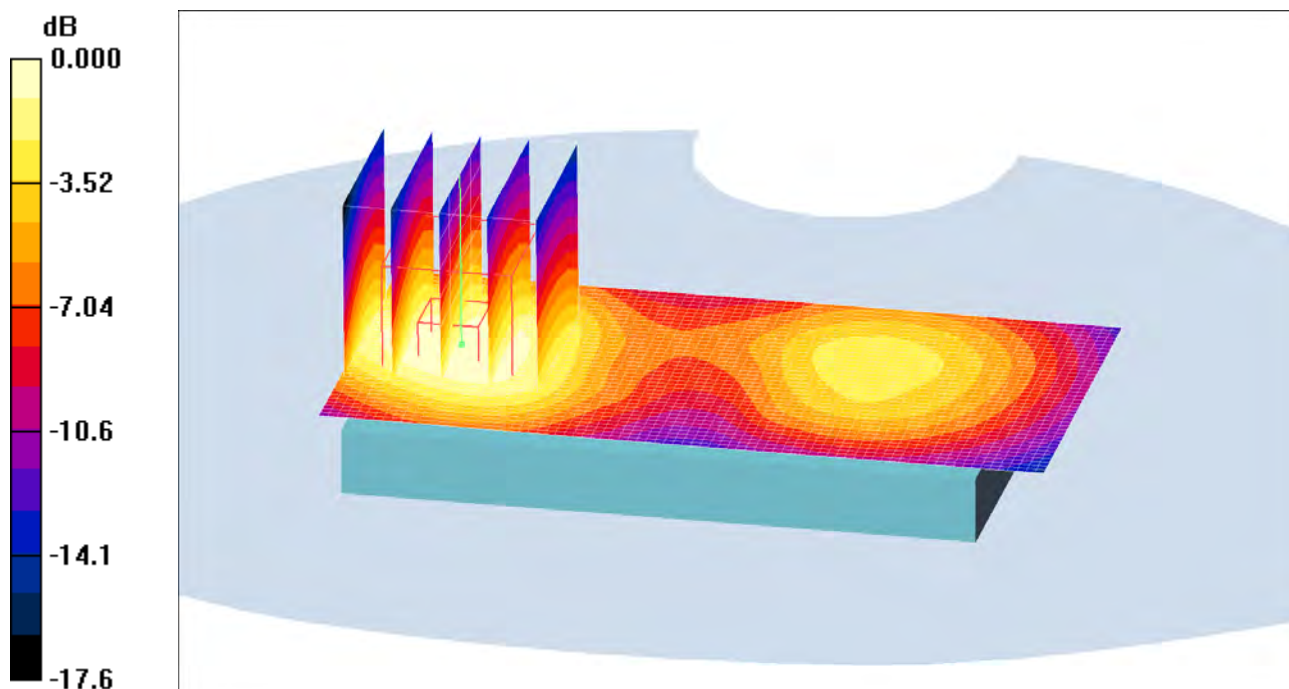
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body 2/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.474 mW/g **Body 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 8.14 V/m ; Power Drift = 0.020 dB Peak SAR (extrapolated) = 0.736 W/kg **SAR(1 g) = 0.433 mW/g ; SAR(10 g) = 0.257 mW/g** Maximum value of SAR (measured) = 0.471 mW/g 0 dB = 0.471 mW/g

Date/Time: 12/15/2008 10:56:28 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-1900-Speech-Middle-PHF**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body PHF/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.454 mW/g

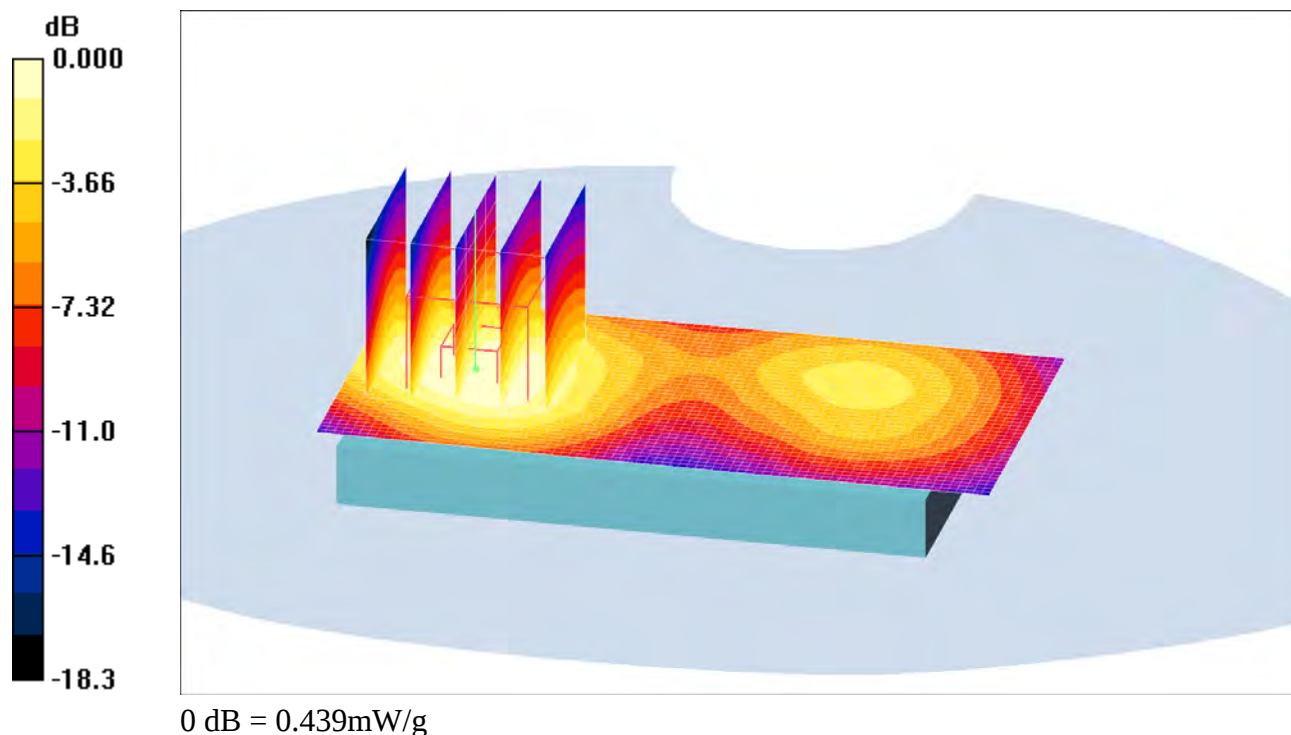
Body PHF/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.68 V/m; Power Drift = 0.189 dB

Peak SAR (extrapolated) = 0.665 W/kg

SAR(1 g) = 0.406 mW/g; SAR(10 g) = 0.243 mW/g

Maximum value of SAR (measured) = 0.439 mW/g



Date/Time: 12/9/2008 11:52:09 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-1900-GPRS-High**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

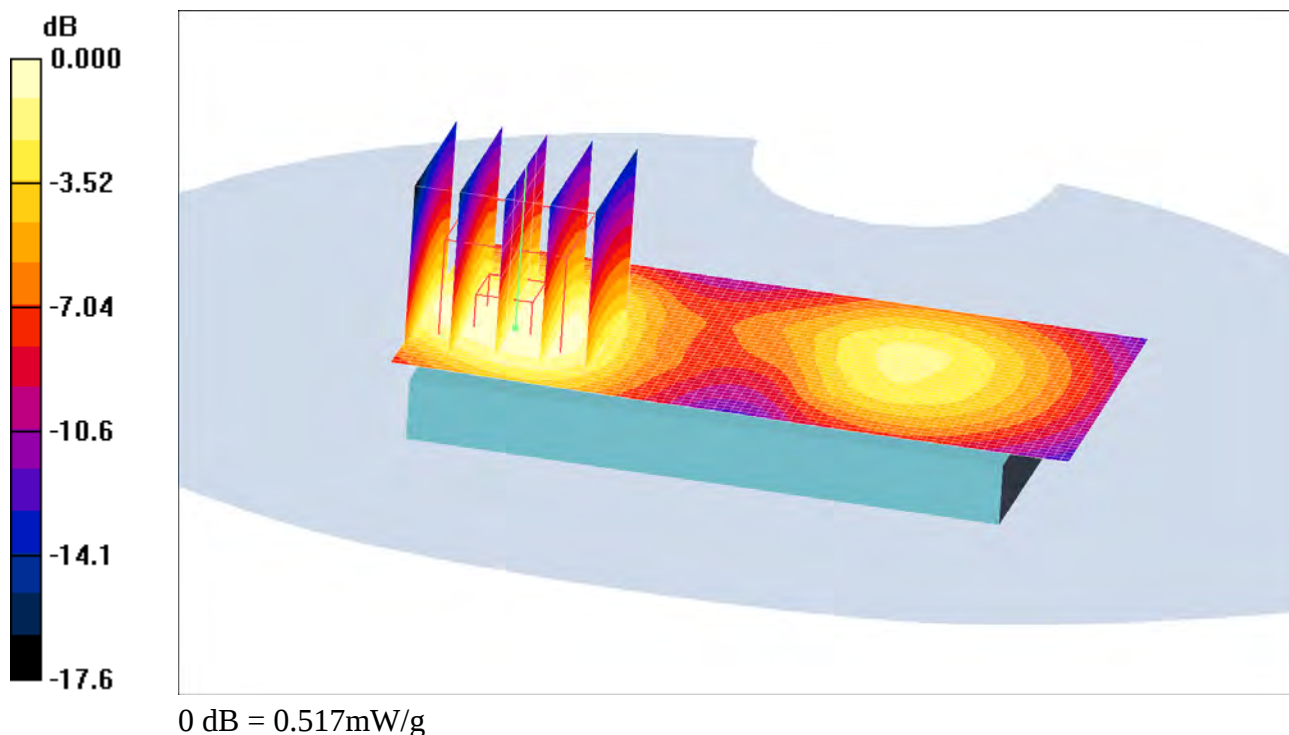
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.59 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body 3/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.540 mW/g **Body 3/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 = -0.105 dB Peak SAR (extrapolated) = 0.810 W/kg **SAR(1 g) = 0.486 mW/g ; SAR(10 g) = 0.292 mW/g** Maximum value of SAR (measured) = 0.517 mW/g 

Date/Time: 12/9/2008 1:28:43 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-1900-GPRS-High-Front**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

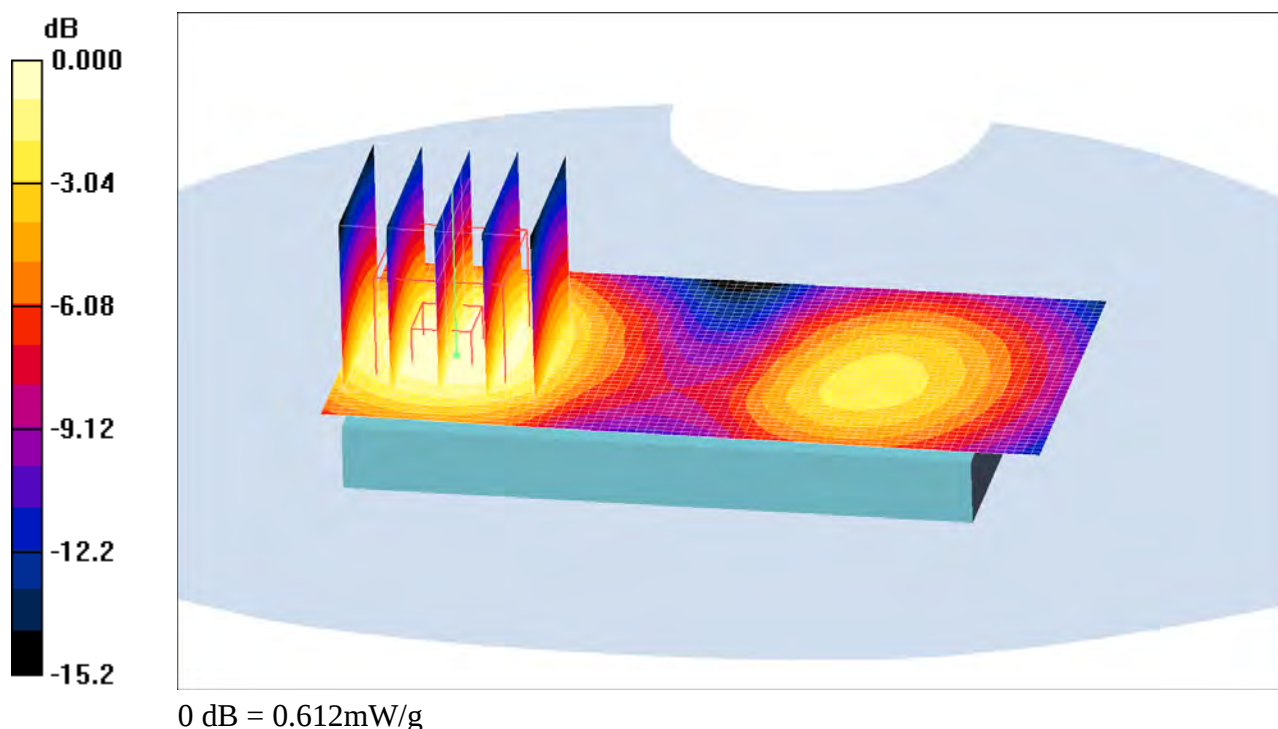
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.59 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Body Front to Phantom/Area Scan (41x81x1):** Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.617 mW/g
- Body Front to Phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.09 V/m ; Power Drift = -0.055 dB
Peak SAR (extrapolated) = 0.916 W/kg
SAR(1 g) = 0.571 mW/g ; SAR(10 g) = 0.350 mW/g
Maximum value of SAR (measured) = 0.612 mW/g



Date/Time: 12/9/2008 3:42:50 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-UMTS2-Speech-Low**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Speech/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.491 mW/g

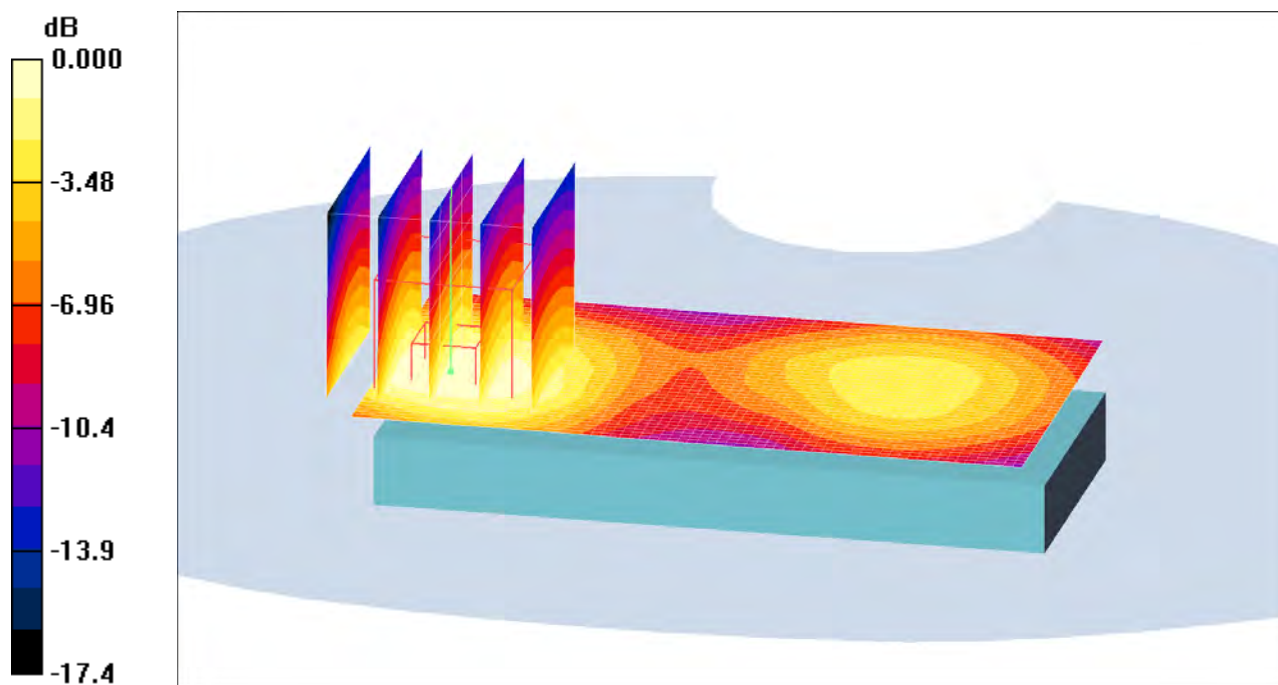
Body Speech/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.28 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 0.713 W/kg

SAR(1 g) = 0.435 mW/g; SAR(10 g) = 0.262 mW/g

Maximum value of SAR (measured) = 0.472 mW/g



0 dB = 0.472mW/g

Date/Time: 12/9/2008 3:28:18 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-UMTS2-Speech-Low-PHF**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Speech PHF/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.420 mW/g

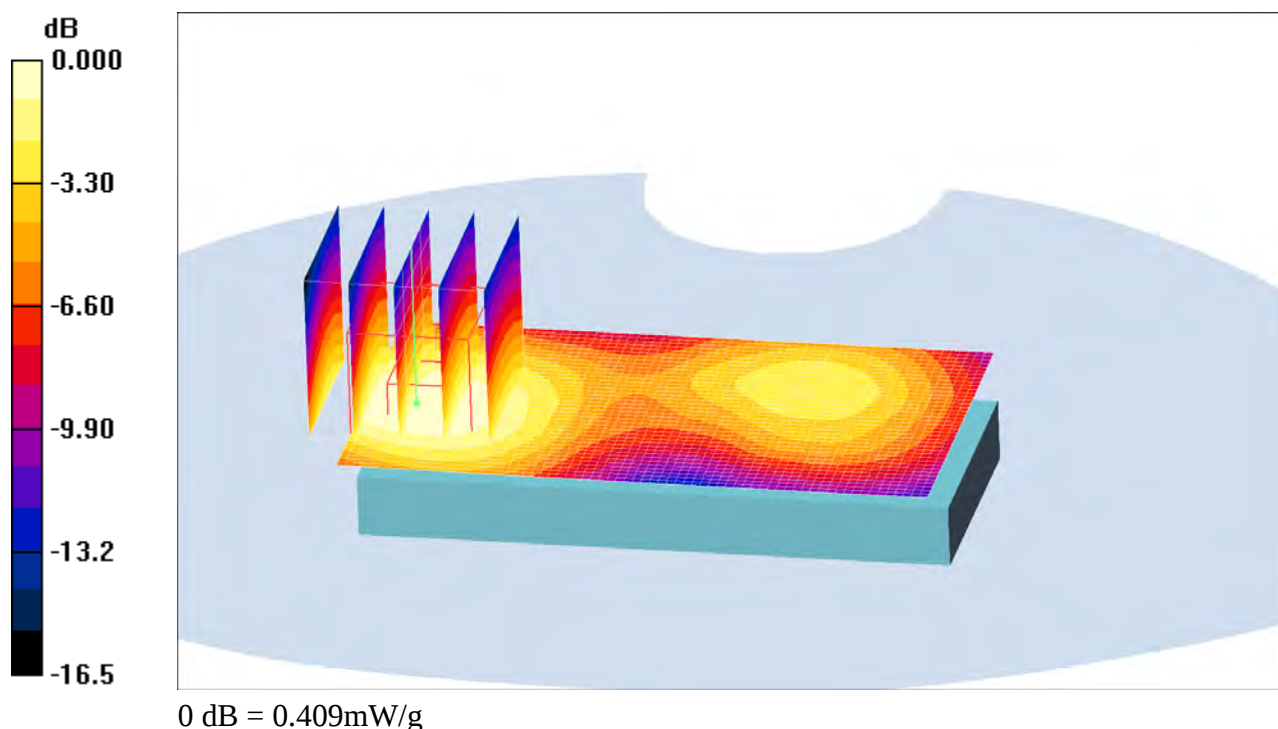
Body Speech PHF/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.20 V/m; Power Drift = 0.119 dB

Peak SAR (extrapolated) = 0.609 W/kg

SAR(1 g) = 0.378 mW/g; SAR(10 g) = 0.230 mW/g

Maximum value of SAR (measured) = 0.409 mW/g



Date/Time: 12/9/2008 2:45:04 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-UMTS2-HSDPA-Low**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body HSDPA/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.505 mW/g

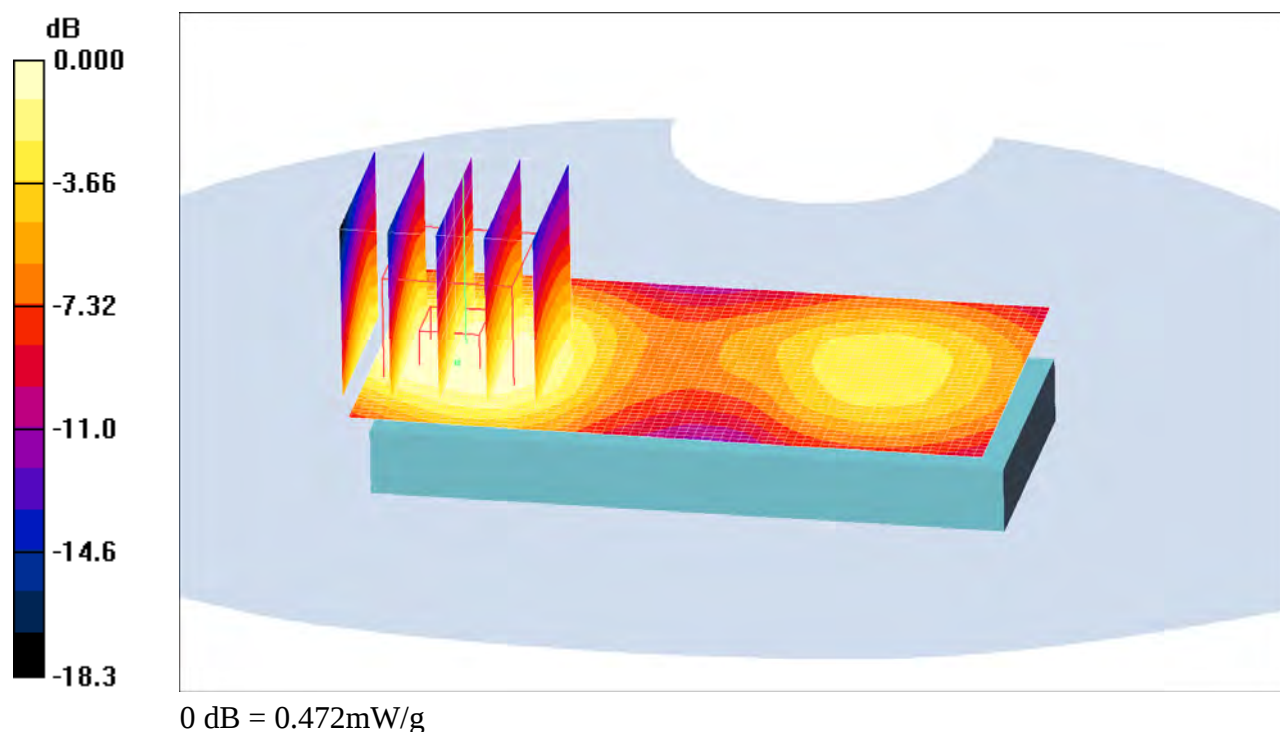
Body HSDPA/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.63 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.730 W/kg

SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.270 mW/g

Maximum value of SAR (measured) = 0.472 mW/g



Date/Time: 12/10/2008 8:55:07 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-UMTS2-HSDPA-Low-Front**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz; Duty Cycle: 1:1

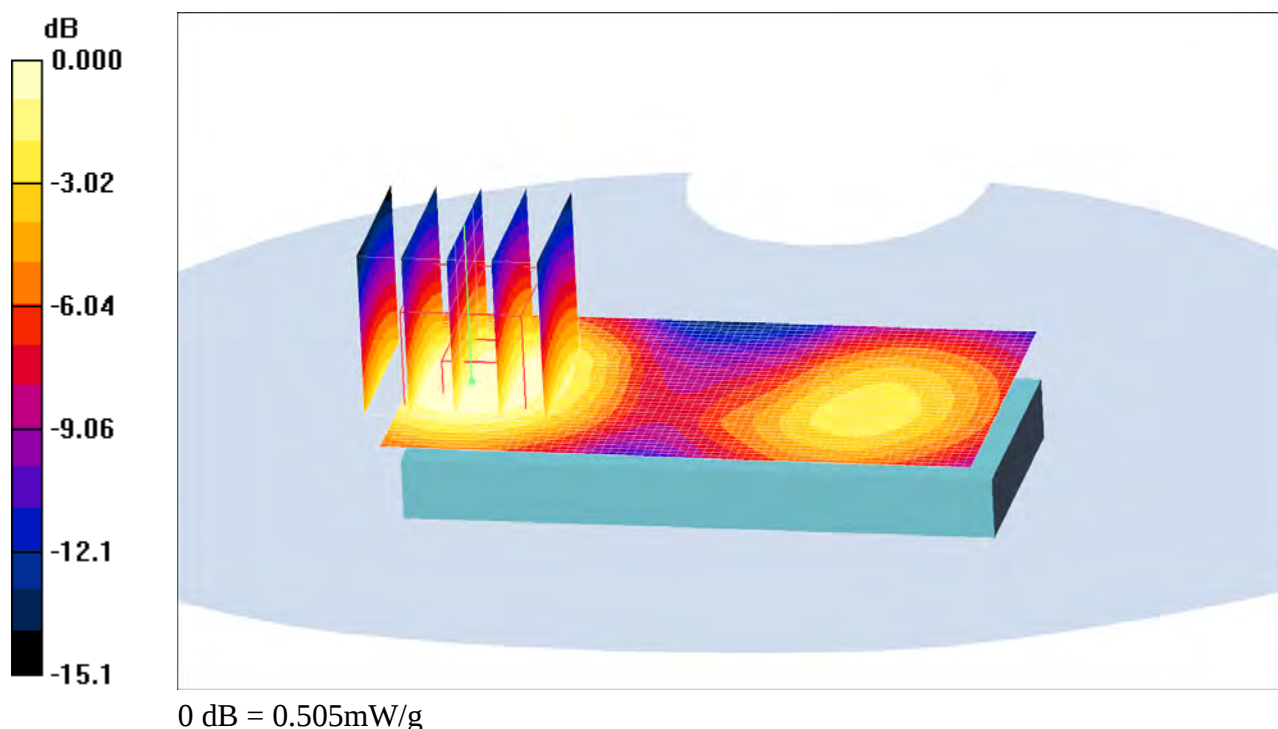
Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Body Front To Phantom/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.515 mW/g
- Body Front To Phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.52 V/m; Power Drift = 0.014 dB
Peak SAR (extrapolated) = 0.734 W/kg
SAR(1 g) = 0.467 mW/g; SAR(10 g) = 0.288 mW/g
Maximum value of SAR (measured) = 0.505 mW/g



Date/Time: 12/18/2008 11:31:23 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-UMTS5-Speech-High**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body 3/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.976 mW/g

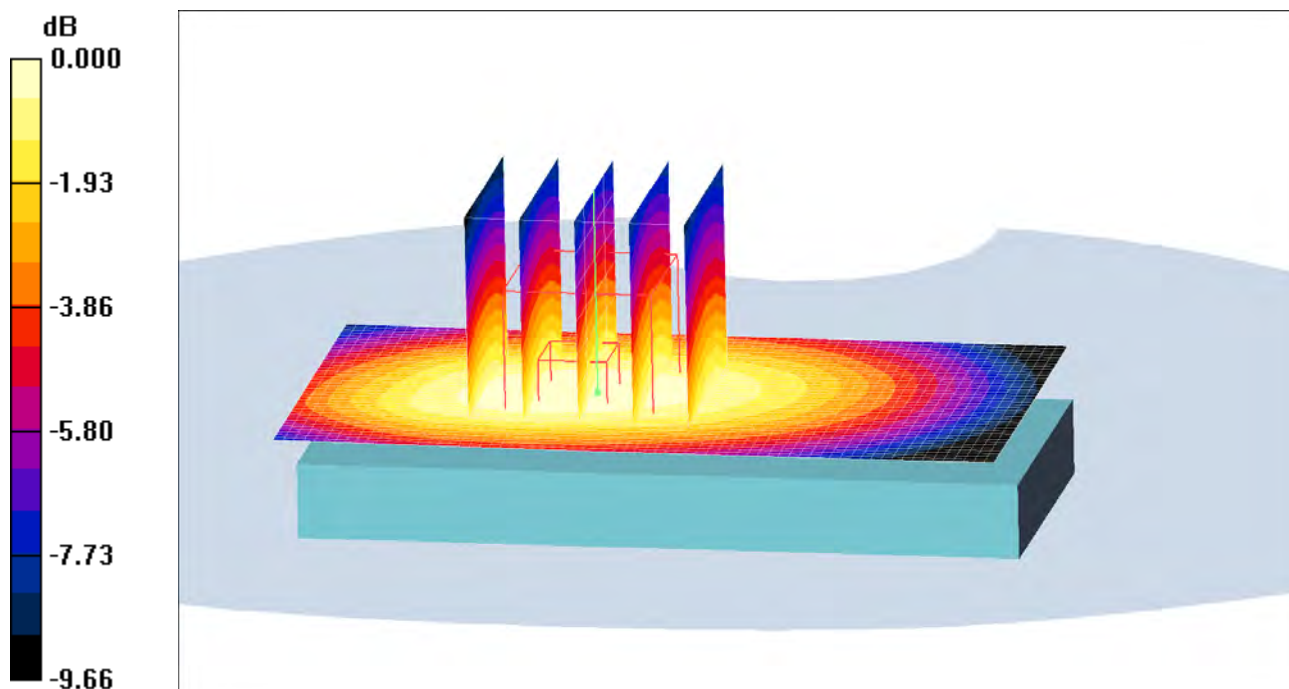
Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.3 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.929 mW/g; SAR(10 g) = 0.674 mW/g

Maximum value of SAR (measured) = 0.989 mW/g



Date/Time: 12/18/2008 11:45:58 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-UMTS5-Speech-High-Front**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 846.6 MHz; Duty Cycle: 1:1

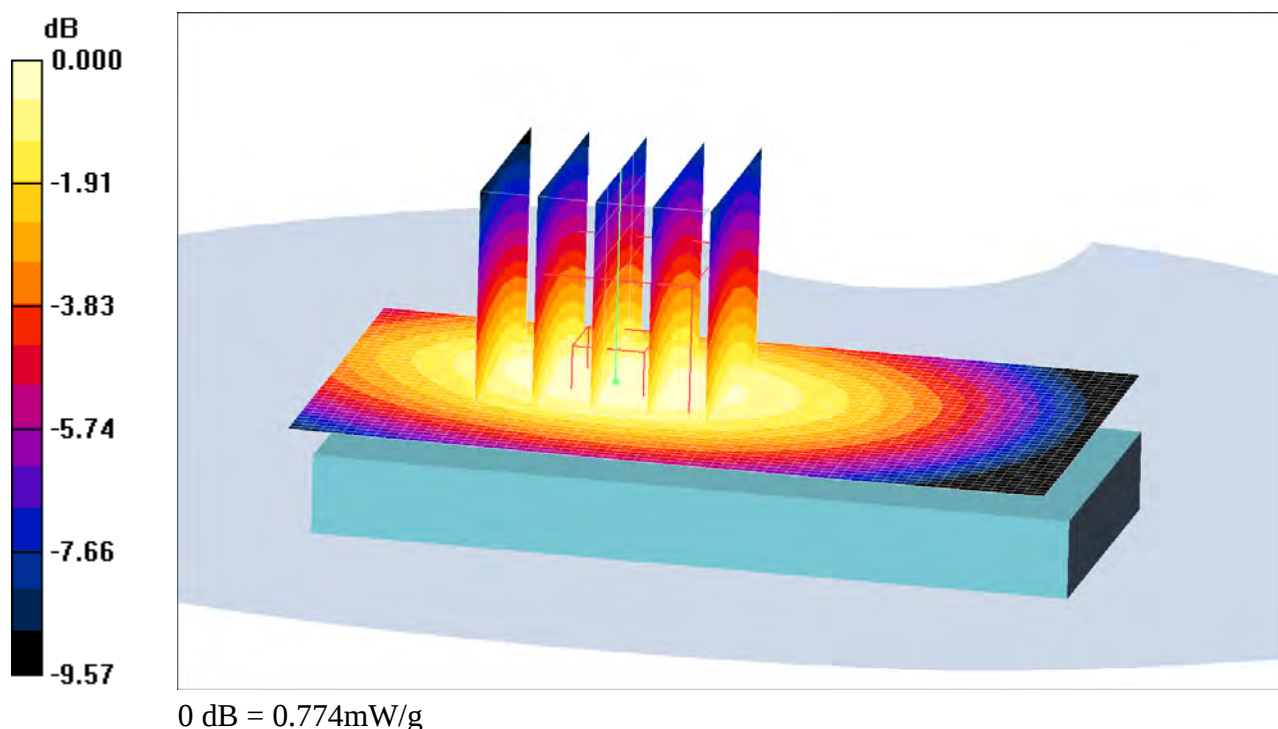
Medium parameters used: $f = 846.6 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Body Front To phantom/Area Scan (41x71x1):** Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.768 mW/g
- Body Front To phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 26.7 V/m ; Power Drift = 0.159 dB
Peak SAR (extrapolated) = 0.888 W/kg
SAR(1 g) = 0.727 mW/g ; SAR(10 g) = 0.531 mW/g
Maximum value of SAR (measured) = 0.774 mW/g



Date/Time: 12/18/2008 10:44:49 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-UMTS5-Speech-Middle-PHF**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body PHF/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.762 mW/g

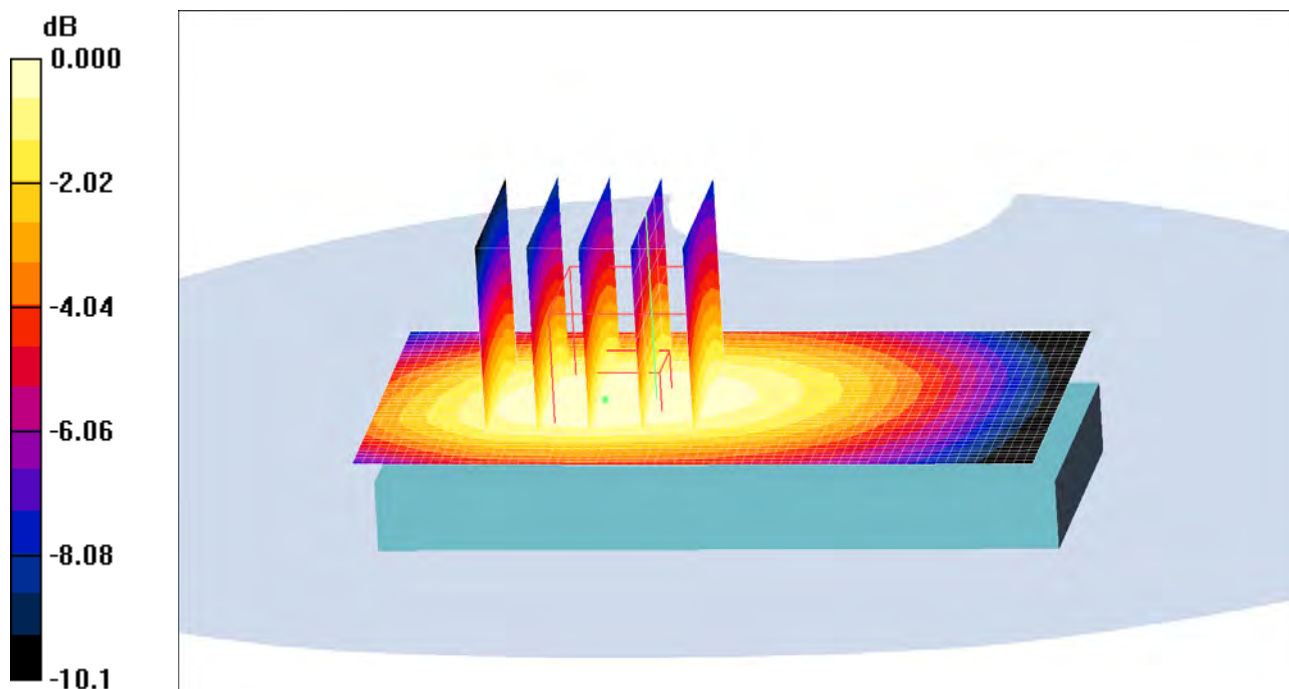
Body PHF/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.4 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.858 W/kg

SAR(1 g) = 0.706 mW/g; SAR(10 g) = 0.517 mW/g

Maximum value of SAR (measured) = 0.745 mW/g



0 dB = 0.745mW/g

Date/Time: 12/18/2008 10:08:27 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kate-UMTS5-HSDPA-Low**DUT: Kate; Type: DUT; Serial: #14107**

Communication System: WCDMA Band5; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.886 mW/g

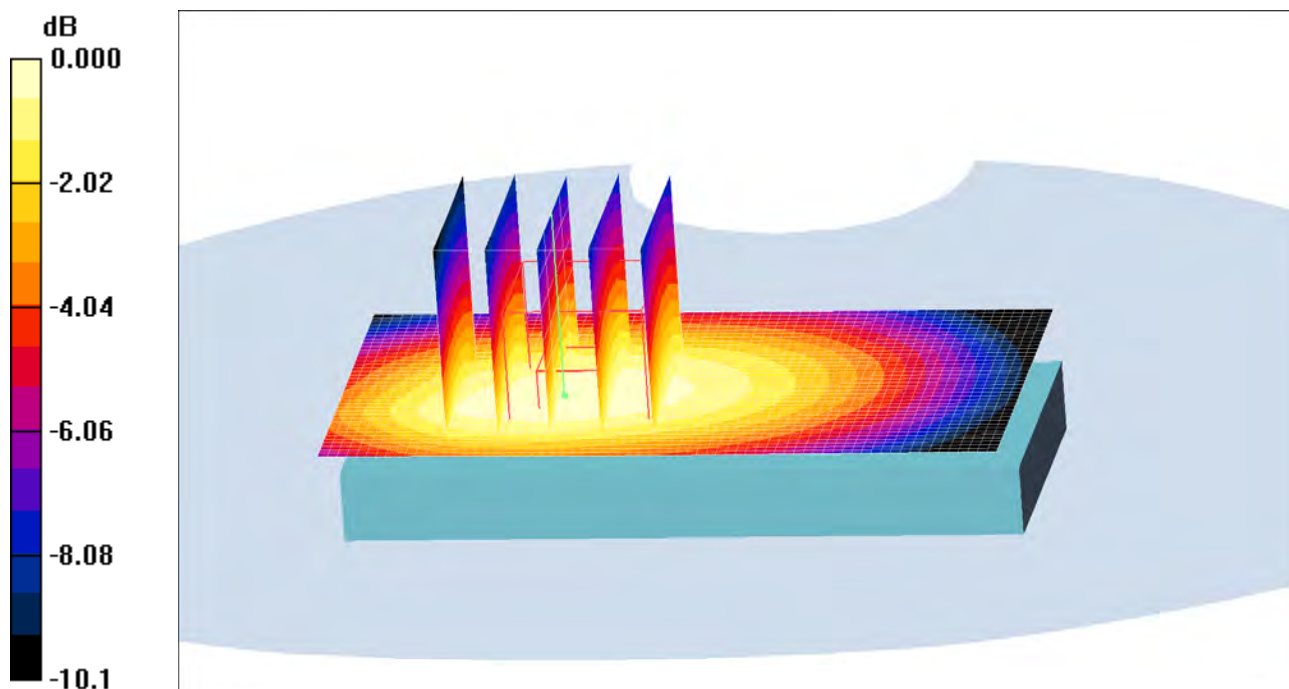
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.6 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.846 mW/g; SAR(10 g) = 0.615 mW/g

Maximum value of SAR (measured) = 0.903 mW/g



0 dB = 0.903mW/g