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BA/SEMC/CCDAU Robert Carr

Approved

LD/SEMC/BGLIMC Peter Lindeborg

Checked

PL**Company Internal
REPORT**

No.

CCDA09:153.

Date

090401

Rev

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Reference

File**Report issued by Accredited SAR Laboratory****for****PY7A3880005 (W705a)****Date of test:** September 31st to December 2nd, 2008**Laboratory:** Sony Ericsson SAR Test Laboratory
Sony Ericsson Mobile Communications AB
Maplewood, Chineham Business Park
Basingstoke, RG24 8YB,
England**Testing Engineer:** Robert Carr
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+44 1256 77 48 95*ROBERT CARR***Testing Approval:** Peter Lindeborg
peter.lindeborg@sonyericsson.com
+46-46-2126180*PL Lindeborg***Statement of Compliance**

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

Sony Ericsson Type AAD-3880005-BV; FCC ID PY7A3880005; IC 4170B-A3880005

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 PY7A3880005 (W705a) 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:	W building 1-8-15 konan Minato-ku Tokyo-to 1080075 Japan
Contact Name:	Takeshi Watanabe

3 Device Under Test

3.1 Antenna Description

Type	Internal antenna	
Location	Bottom of phone	
Main and WLAN antennas distance	68mm	
Dimensions	Max length	43 mm
	Max width	13 mm
Configuration	Monopole	



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3.2 Device Description

Device model	AAD-3880005-BV					
Market name	W705a					
Serial number (EUT #)	CB5114VT2R (#13877) CB5114VT1M (#13880) HSUPA Power measurement sample. CB5114VT4Y (#13798) WLAN Sample CB5114XSVJ (#13799) WLAN Sample					
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)	33.9	33.9	33.8	30.9	30.9	30.9
Product Maximum power Level [dBm] ¹	33.8	33.8	33.8	31.0	31.0	31.0
Data mode	GPRS			GPRS		
Crest factor	4.15			4.15		
Measured Power Level [dBm] ¹ (#13877)	31.4	31.3	31.5	29.7	29.7	29.6
Product Maximum power Level [dBm] ¹	31.5	31.5	31.5	29.7	29.7	29.7
Data mode	EDGE			EDGE		
Crest factor	4.15			4.15		
Measured Power Level [dBm] ¹ (#13877)	28.0	27.9	27.9	26.1	25.9	25.9
Product Maximum power Level [dBm] ¹	28.0	28.0	28.0	26.0	26.0	26.0
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)	23,1	23,1	23,1	23,8	23,8	23,7
Product Maximum power Level [dBm] ¹	23,1	23,1	23,1	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, 8 dBm
Prototype or production unit	Preproduction
Hardware Version	AP1
Software version	R1CA006 R1EA024 for HSUPA Power measurement sample.
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 #13877

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	-		23.3	23.3	23.4	23.9	24.0	23.9
CS - voice	8	15	-		23.3	23.3	23.4	23.9	24.0	23.9
HSDPA - 1	2	15	8		23.1	23.1	23.2	23.8	23.8	23.7
HSDPA - 2	12	15	8		23.2	23.2	23.3	23.8	23.8	23.7
HSDPA - 3	15	8	8		22.8	22.7	22.9	23.4	23.4	23.3
HSDPA - 4	15	4	8		22.9	22.8	23.0	23.5	23.5	23.3

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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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	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	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	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	3.0	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 #13880

		1852,4 (Band2)	1880 (Band2)	1907,6 (Band2)	826,4 (Band5)	836,4 (Band5)	846,6 (Band5)
		Band 2			Band 5		
	max->	23,1	23,1	23,1	24	24	24
HSUPA - Sub-test 1		23.0	23.0	23.0	23.9	24.0	23.7
HSUPA - Sub-test 2		20.3	20.4	20.4	21.2	21.4	21.0
HSUPA - Sub-test 3		21.7	21.9	21.6	22.7	22.9	22.5
HSUPA - Sub-test 4		20.1	20.2	20.3	21.2	21.3	21.0
HSUPA - Sub-test 5		22.9	23.0	23.0	23.7	23.9	23.6

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.



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WLAN Output Power					
Mode	Max Output Power ¹ (dBm)	Factory Tolerance ¹ (dB)	EUT (#13798#13799) power (dBm) ¹		
			Ch 1	Ch6	Ch13
802.11b 1Mbit/sec	16.5	1	16.1	16.5	16.5
802.11b 2Mbit/sec			16.4	16.2	16.5
802.11b 5.5Mbit/sec			16.2	16.6	16.3
802.11b 11Mbit/sec			16.3	16.2	16.3
802.11g 6Mbit/sec	13.5	1	12.6	11.8	12.2
802.11g 9Mbit/sec			12.9	12.3	12.9
802.11g 12Mbit/sec			12.6	12.1	12.7
802.11g 18Mbit/sec			12.7	12.2	12.7
802.11g 24Mbit/sec			12.8	12.1	12.7
802.11g 36Mbit/sec			12.8	12.2	12.6
802.11g 48Mbit/sec			12.6	11.9	12.5
802.11g 54Mbit/sec			12.6	11.9	12.4

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 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	798	2009-02
E-field probe ET3DV6	1610	2009-11
E-field probe ET3DV6	1611	2008-12
E-field probe ES3DV3	3111	2009-03
Dipole Validation Kit, D835V2	442	2008-12
Dipole Validation Kit, D835V2	484	2009-01
Dipole Validation Kit, D1900V2	539	2008-12
Dipole Validation Kit, D1900V2	5d002	2009-01
Dipole Validation Kit, D2450V2	721	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, 2008-11-26	40.9	0.88	1.00
		Recommended	41.5	0.90	1.00
835	Body	Measured, 2008-11-28	54.1	0.98	1.00
		Recommended	55.2	0.97	1.00
835	Head	Measured, 2008-11-27	41.1	0.89	1.00
		Recommended	41.5	0.90	1.00
835	Body	Measured, 2008-12-01	53.8	0.98	1.00
		Recommended	55.2	0.97	1.00
1900	Head	Measured, 2008-11-14	38.0	1.47	1.00
		Recommended	40.0	1.40	1.00
1900	Body	Measured, 2008-11-21	50.7	1.59	1.00
		Recommended	53.3	1.52	1.00
1900	Head	Measured, 2008-12-02	38.1	1.47	1.00
		Recommended	40.0	1.40	1.00
1900	Body	Measured, 2008-12-02	50.8	1.54	1.00
		Recommended	53.3	1.52	1.00
2450	Head	Measured, 2008-10-31	37.6	1.89	1.00
		Recommended	39.2	1.80	1.00
2450	Head	Measured, 2008-11-25	37.9	1.89	1.00
		Recommended	39.2	1.80	1.00
2450	Body	Measured, 2008-11-25	51.1	1.89	1.00
		Recommended	52.7	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 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, 2008-11-26	9.92	40.9	0.88	1.00	21.9
		Reference	9.43	41.5	0.90	1.00	22.0
835	Body	Measured, 2008-11-28	9.76	54.1	0.98	1.00	22.6
		Reference	9.7	55.2	0.97	1.00	22.0
835	Head	Measured, 2008-11-27	10.1	41.1	0.89	1.00	21.7
		Reference	9.43	41.5	0.90	1.00	22.0
835	Body	Measured, 2008-12-01	10.2	53.8	0.98	1.00	22.5
		Reference	9.48	55.2	0.97	1.00	22.0
1900	Head	Measured, 2008-09-14	35.9	38.0	1.47	1.00	22.1
		Reference	38.44	40.0	1.40	1.00	22.0
1900	Body	Measured, 2008-09-21	40.4	50.7	1.59	1.00	22.3
		Reference	37.0	53.3	1.52	1.00	22.0
1900	Head	Measured, 2008-12-02	37.4	38.1	1.47	1.00	21.5
		Reference	38.56	40.0	1.40	1.00	22.0
1900	Body	Measured, 2008-12-02	42.0	50.8	1.54	1.00	21.6
		Reference	38.6	53.3	1.52	1.00	22.0
2450	Head	Measured, 2008-10-31	50.8	37.6	1.89	1.00	22.2
		Reference	54.1	39.2	1.80	1.00	22.0
2450	Head	Measured, 2008-11-25	50.4	37.9	1.89	1.00	22.0
		Reference	54.1	39.2	1.80	1.00	22.0
2450	Body	Measured, 2008-11-25	53.6	51.1	1.89	1.00	22.2
		Reference	52.1	52.7	1.95	1.00	22.0



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7 SAR measurement uncertainty

SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880005 (W705a) 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. SAR in WLAN mode had been measured with 100% duty-cycle with Bit rate speed of 1Mbit/sec.

For head measurement, the DUT was tested with slider open and closed 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 slider in the closed position 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 mas
GSM 850	128	33.9	Cheek	21.9	0.49	-
			Tilt	21.9	-	-
			² Cheek	21.9	-	0.61
			² Tilt	21.9	-	-
	190	33.9	Cheek	21.9	0.68	0.59
			Tilt	21.9	0.41	0.46
			² Cheek	21.9	0.62	0.69
			² Tilt	21.9	0.38	0.44
	251	33.8	Cheek	21.9	0.78	-
			Tilt	21.9	-	-
			² Cheek	21.9	-	0.64
			² Tilt	21.9	-	-
GSM 1900	512	30.9	Cheek	22.1	0.64	-
			Tilt	22.1	-	-
			² Cheek	22.1	-	0.64
			² Tilt	22.1	-	-
	661	30.9	Cheek	22.1	0.70	0.54
			Tilt	22.1	0.29	0.34
			² Cheek	22.1	0.68	0.78
			² Tilt	22.1	0.23	0.36
	810	30.9	Cheek	22.1	0.87	-
			Tilt	22.1	-	-
			² Cheek	22.1	-	0.83
			² Tilt	22.1	-	-
UMTS 2	9262	23.1	Cheek	21.5	1.14	-
			Tilt	21.5	-	-
			² Cheek	21.5	-	1.05
			² Tilt	21.5	-	-
	9400	23.1	Cheek	21.5	1.08	0.84
			Tilt	21.5	0.34	0.48
			² Cheek	21.5	1.03	1.10
			² Tilt	21.5	0.39	0.51
	9538	23.1	Cheek	21.5	1.15	-
			Tilt	21.5	-	-
			² Cheek	21.5	-	1.10
			² Tilt	21.5	-	-

Table 1: SAR measurement result for Sony Ericsson PY7A3880005 telephone at highest possible output power. Measured towards the head.

¹ Measured output values were provided by the customer.

² Slider closed.



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Prepared (also subject responsible if other)

BA/SEMC/CCDAU Robert Carr

Approved

LD/SEMC/BGLIMC Peter Lindeborg

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No.

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Date

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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	23.8	Cheek	21.7	-	-
			Tilt	21.7	-	-
			² Cheek	21.7	0.45	0.50
			² Tilt	21.7	-	-
	4183	23.8	Cheek	21.7	0.59	0.65
			Tilt	21.7	0.41	0.48
			² Cheek	21.7	0.63	0.73
			² Tilt	21.7	0.39	0.46
	4233	23.7	Cheek	21.7	-	-
			Tilt	21.7	-	-
			² Cheek	21.7	0.53	0.57
			² Tilt	21.7	-	-
WLAN 802.11b 1 Mbps	1	16.1	Cheek	22.2	-	-
			Tilt	22.2	-	-
			² Cheek	22.2	-	0.21
			² Tilt	22.2	0.20	-
	6	16.5	Cheek	22.2	0.08	0.15
			Tilt	22.2	0.06	0.07
			² Cheek	22.2	0.10	0.18
			² Tilt	22.2	0.12	0.15
	11	16.5	Cheek	22.2	-	-
			Tilt	22.2	-	-
			² Cheek	22.2	-	0.20
			² Tilt	22.2	0.14	-

Table 1 Continued: SAR measurement result for Sony Ericsson PY7A3880005 telephone at highest possible output power. Measured towards the head.

¹ Measured output values were provided by the customer.

² Slider closed.



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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	33.9	Back / CS	22.6	0.68
		31.4	Back / GPRS	22.6	0.49
	190	31.3	Back / GPRS	22.6	0.71
		33.9	Back / CS	22.6	0.71
	251	31.5	Back / GPRS	22.6	0.98
		33.8	Back / CS	22.6	0.67
			Back / PHF	22.6	0.54
		27.9	Back / EDGE	22.6	0.52
		31.5	Front to phantom	22.6	0.5
GSM 1900	512	29.7	Back / GPRS	22.3	0.49
		30.9	Back / CS	22.3	0.34
	661	29.7	Back / GPRS	22.3	0.63
		30.9	Back / CS	22.3	0.43
	810	29.6	Back / GPRS	22.3	0.86
		30.9	Back / CS	22.3	0.49
			Back / PHF	22.3	0.42
		29.6	Front to Phantom	22.3	0.37
		25.9	Back / EDGE	22.3	0.39
UMTS 2	9262	23.1	Back / HSDPA	21.6	0.54
			Back / CS	21.6	0.59
	9400	23.0	Back / HSDPA	21.6	0.57
		23.1	Back / CS	21.6	0.60
	9538	23.1	Back / HSDPA	21.6	0.63
			Back / CS	21.6	0.63
			Back / PHF	21.6	0.55
UMTS 5	4132	23.8	Back / HSDPA	22.5	0.48
			Back / CS	22.5	0.52
	4183	23.7	Back / HSDPA	22.5	0.69
		23.8	Back / CS	22.5	0.71
			Back / PHF	22.5	0.55
			Front to Phantom	22.5	0.37
	4233	23.6	Back / HSDPA	22.5	0.56
		23.7	Back / CS	22.5	0.62
WLAN	1	16.1	Back / WLAN	22.2	0.06
	6	16.2	Back / WLAN	22.2	0.10
			Front to Phantom	22.2	0.05
	11	16.0	Back / WLAN	22.2	0.10

Table 2: SAR measurement result for Sony Ericsson PY7A3880005 telephone at highest possible output power. Measured towards the body.

¹ Measured output values were provided by the customer.

² Slider closed.



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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 802.11a/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).

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LD/SEMC/BGLIMC Peter Lindeborg

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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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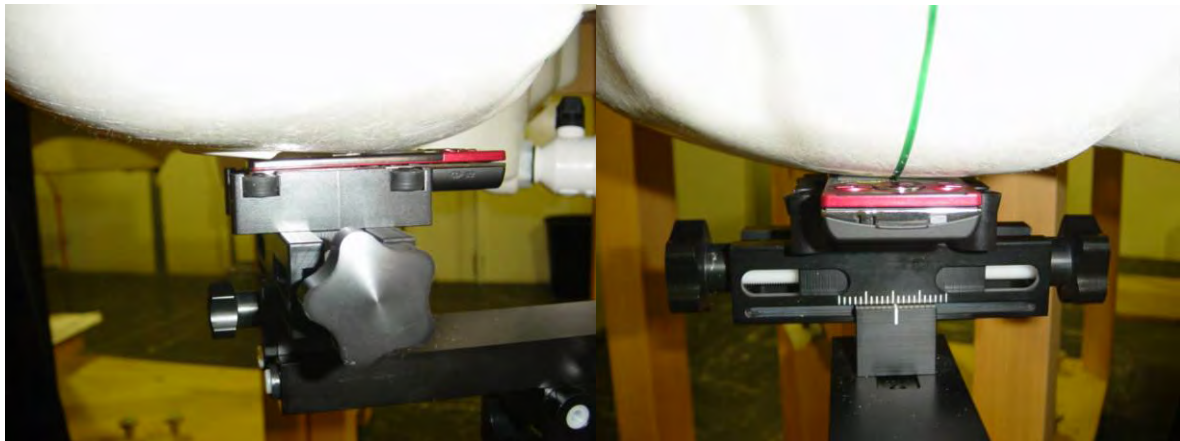
Rev

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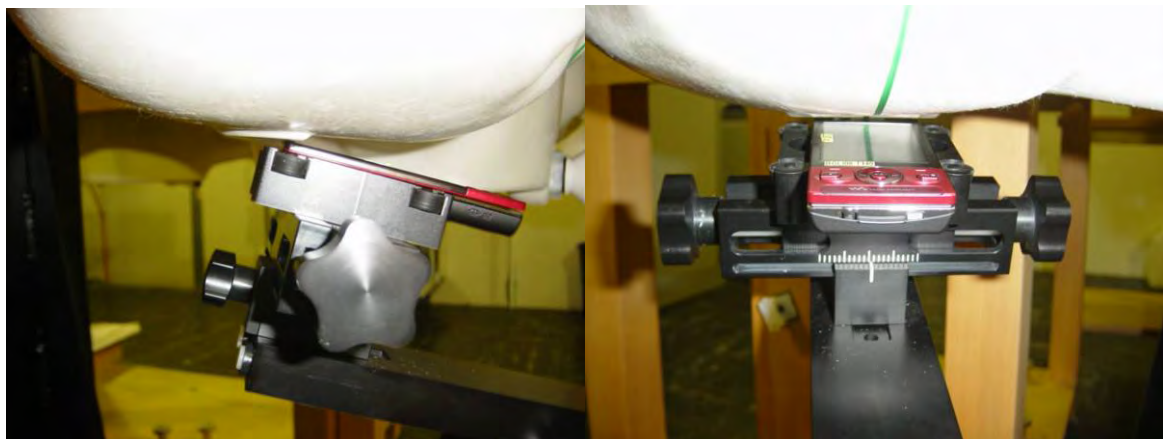
Reference

File

9.2 Device position at SAM Twin Phantom



DUT position towards the head Slider Closed: Cheek (touch) position



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

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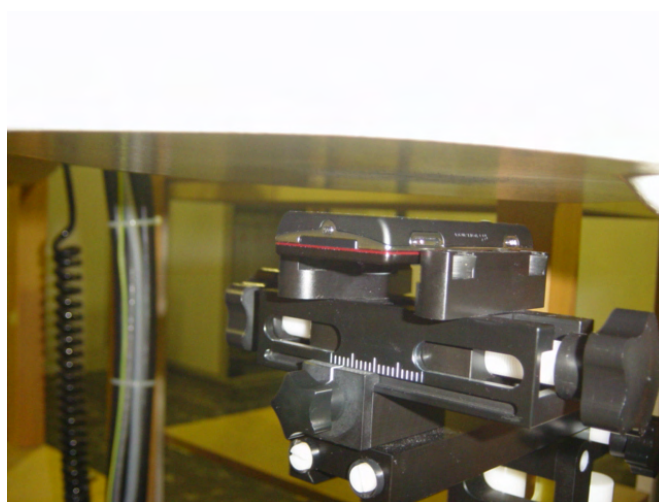
File



DUT position towards the head Slider Open: Cheek (touch) position



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



DUT in body position with 15 mm distance



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9.3

Attachments

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

Date/Time: 11/21/2008 11:00:49 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-1900-GPRS-High**DUT: Rika; Type: DUT; Serial: #13877**

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

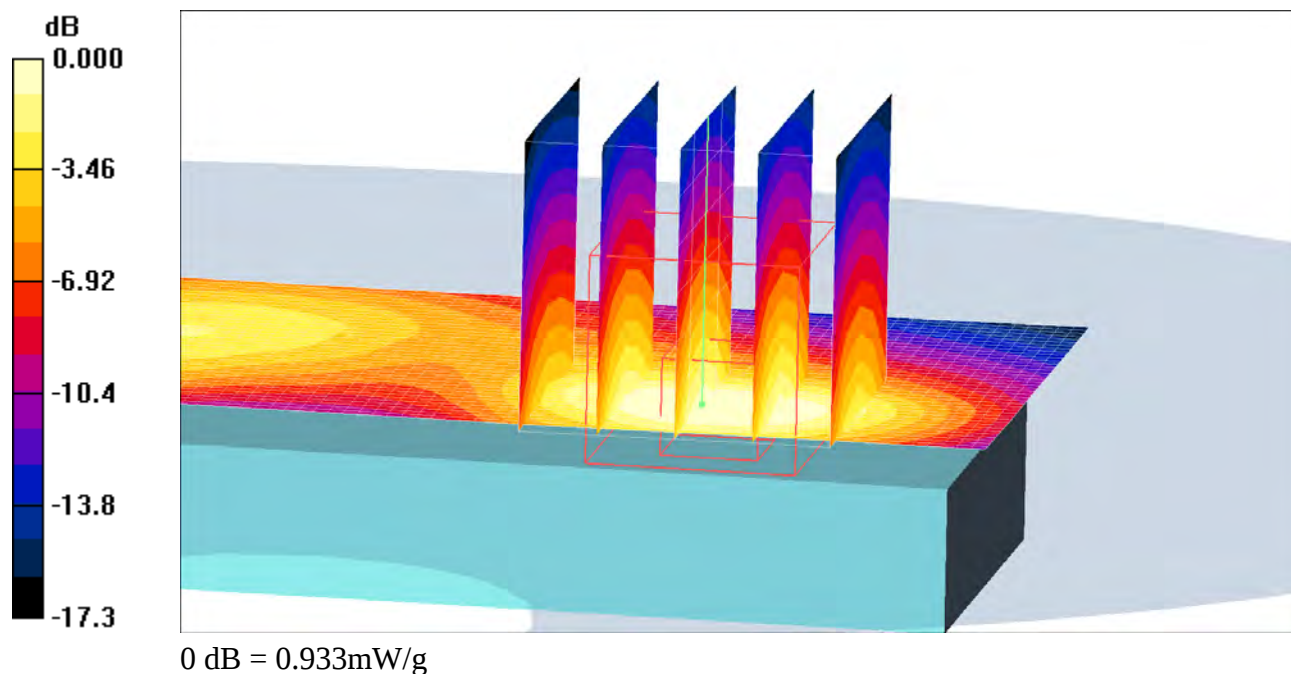
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.6 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- 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) = 0.953 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 = 13.4 V/m ; Power Drift = 0.038 dB Peak SAR (extrapolated) = 1.54 W/kg **SAR(1 g) = 0.857 mW/g ; SAR(10 g) = 0.464 mW/g** Maximum value of SAR (measured) = 0.933 mW/g 

Date/Time: 11/21/2008 10:38:38 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-1900-GPRS-Low**DUT: Rika; Type: DUT; Serial: #13877**

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

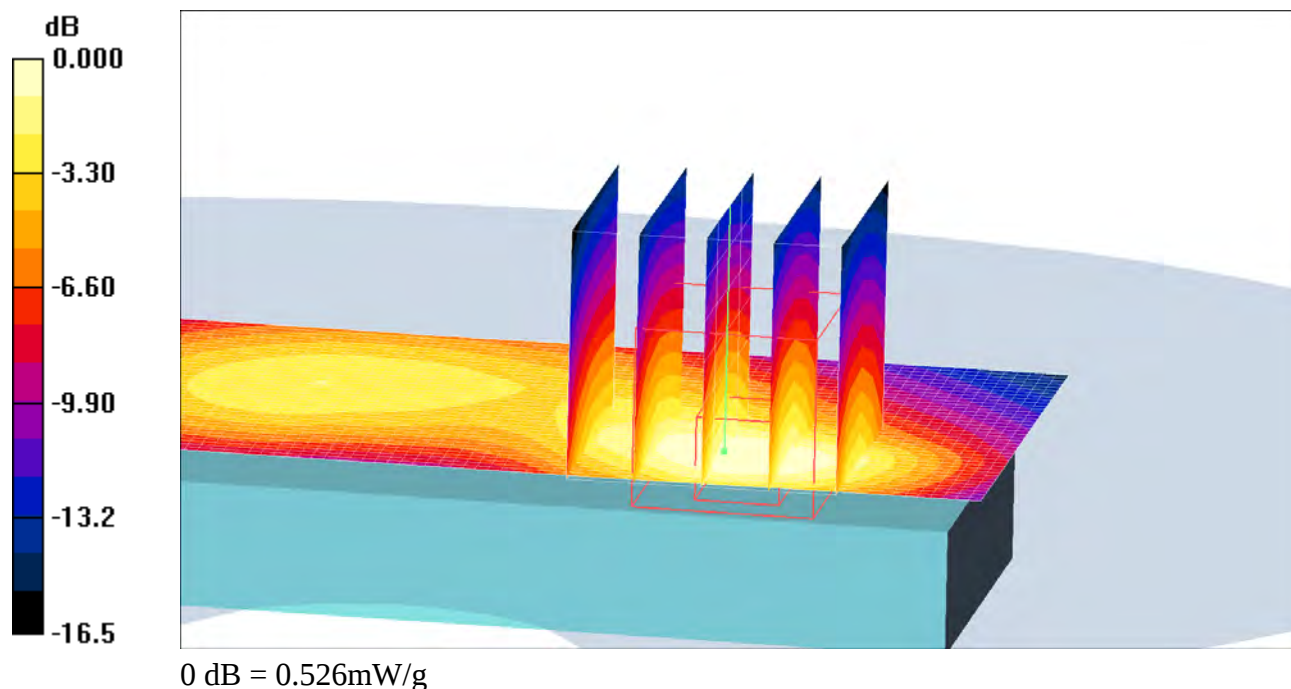
Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.51 \text{ mho/m}$; $\epsilon_r = 51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.535 mW/g **Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 13.3 V/m ; Power Drift = 0.009 dB Peak SAR (extrapolated) = 0.864 W/kg **SAR(1 g) = 0.487 mW/g ; SAR(10 g) = 0.268 mW/g** Maximum value of SAR (measured) = 0.526 mW/g 

Date/Time: 11/21/2008 10:49:47 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-1900-GPRS-Middle**DUT: Rika; Type: DUT; Serial: #13877**

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.693 mW/g

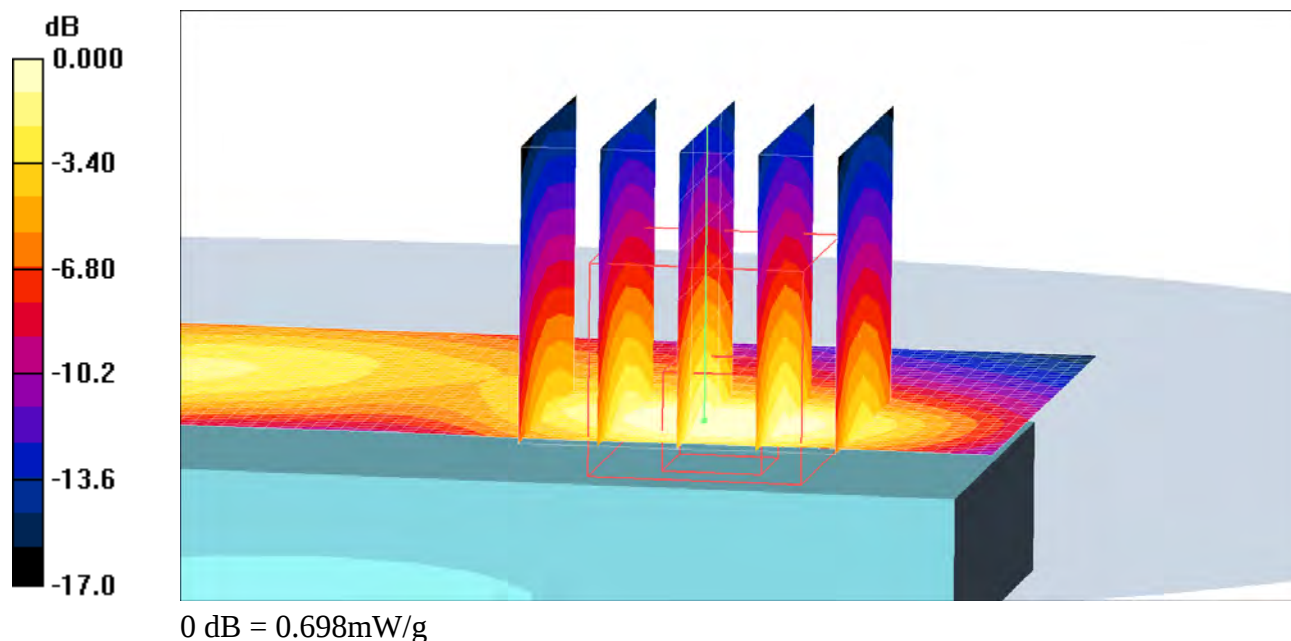
Body 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.4 V/m; Power Drift = -0.163 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.343 mW/g

Maximum value of SAR (measured) = 0.698 mW/g



Date/Time: 11/21/2008 12:02:42 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-1900-Speech-High**DUT: Rika; Type: DUT; Serial: #13877**

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

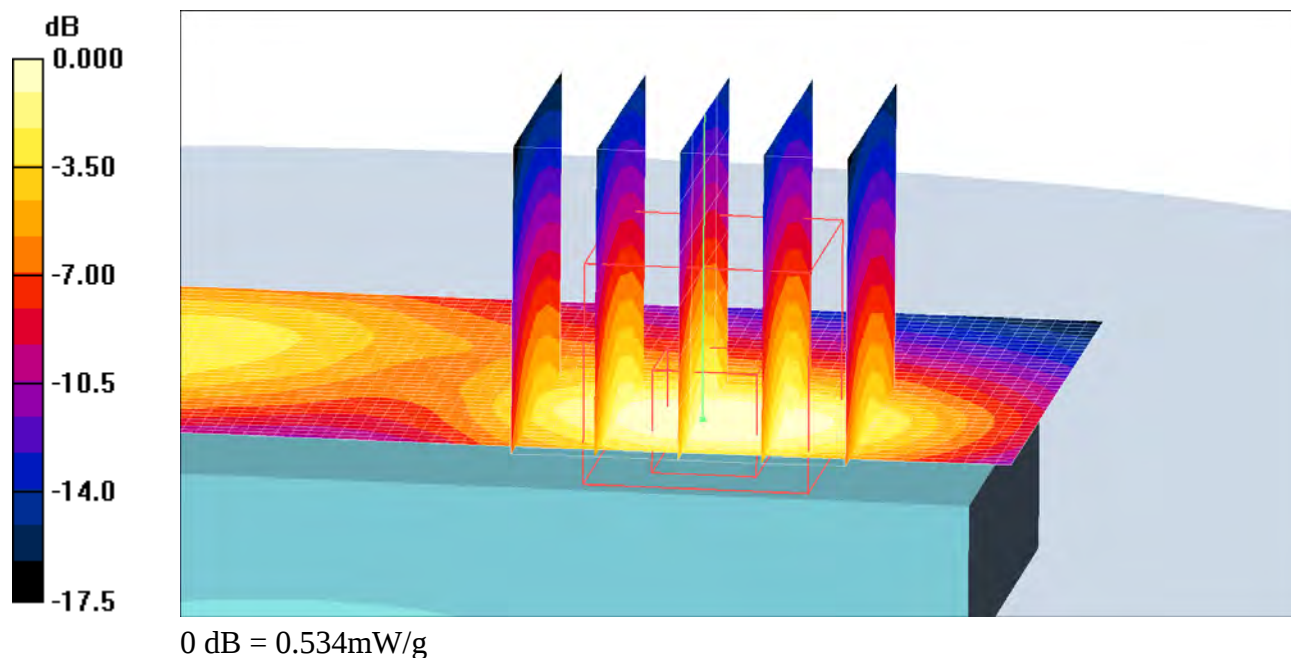
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.6 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- 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) = 0.534 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 = 9.66 V/m ; Power Drift = -0.011 dB Peak SAR (extrapolated) = 0.877 W/kg **SAR(1 g) = 0.486 mW/g ; SAR(10 g) = 0.264 mW/g** Maximum value of SAR (measured) = 0.534 mW/g 

Date/Time: 11/28/2008 11:23:28 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-850-GPRS-High**DUT: Rika; Type: DUT; Serial: #13877**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.15

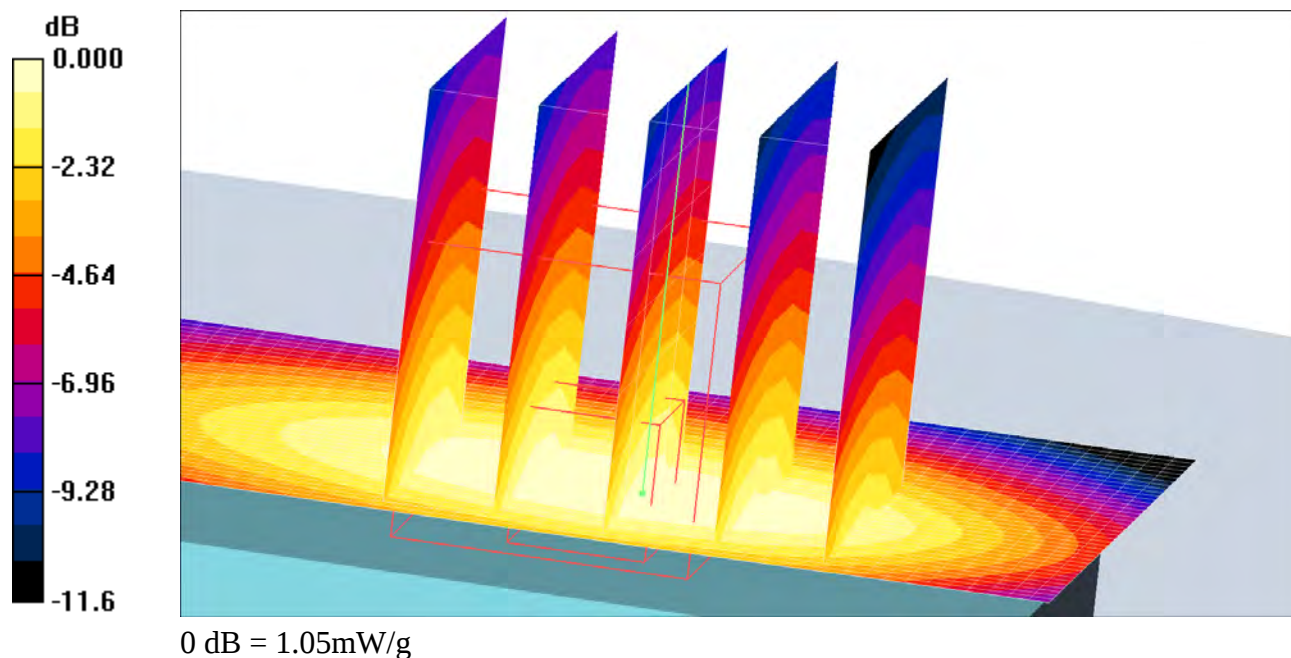
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn798; Calibrated: 3/18/2008
- 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: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 1.05 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 = 29.6 V/m ; Power Drift = -0.084 dB Peak SAR (extrapolated) = 1.30 W/kg **SAR(1 g) = 0.983 mW/g ; SAR(10 g) = 0.684 mW/g** Maximum value of SAR (measured) = 1.05 mW/g 

Date/Time: 11/28/2008 10:47:14 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-850-GPRS-Low**DUT: Rika; Type: DUT; Serial: #13877**

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; $\epsilon_r = 54.5$; $\rho = 1000$ 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: DAE4 Sn798; Calibrated: 3/18/2008
- 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) = 0.523 mW/g

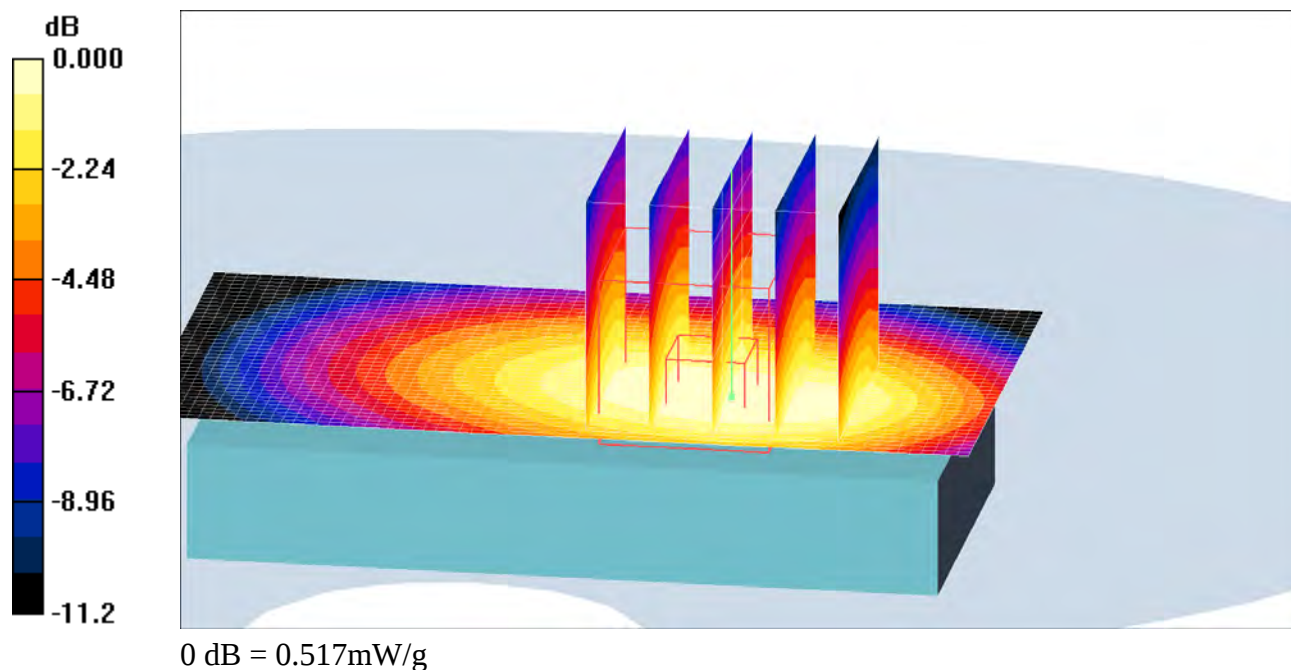
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.9 V/m; Power Drift = -0.039 dB

Peak SAR (extrapolated) = 0.621 W/kg

SAR(1 g) = 0.485 mW/g; SAR(10 g) = 0.340 mW/g

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



Date/Time: 11/28/2008 11:12:42 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-850-GPRS-Middle**DUT: Rika; Type: DUT; Serial: #13877**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ 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: DAE4 Sn798; Calibrated: 3/18/2008
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.755 mW/g

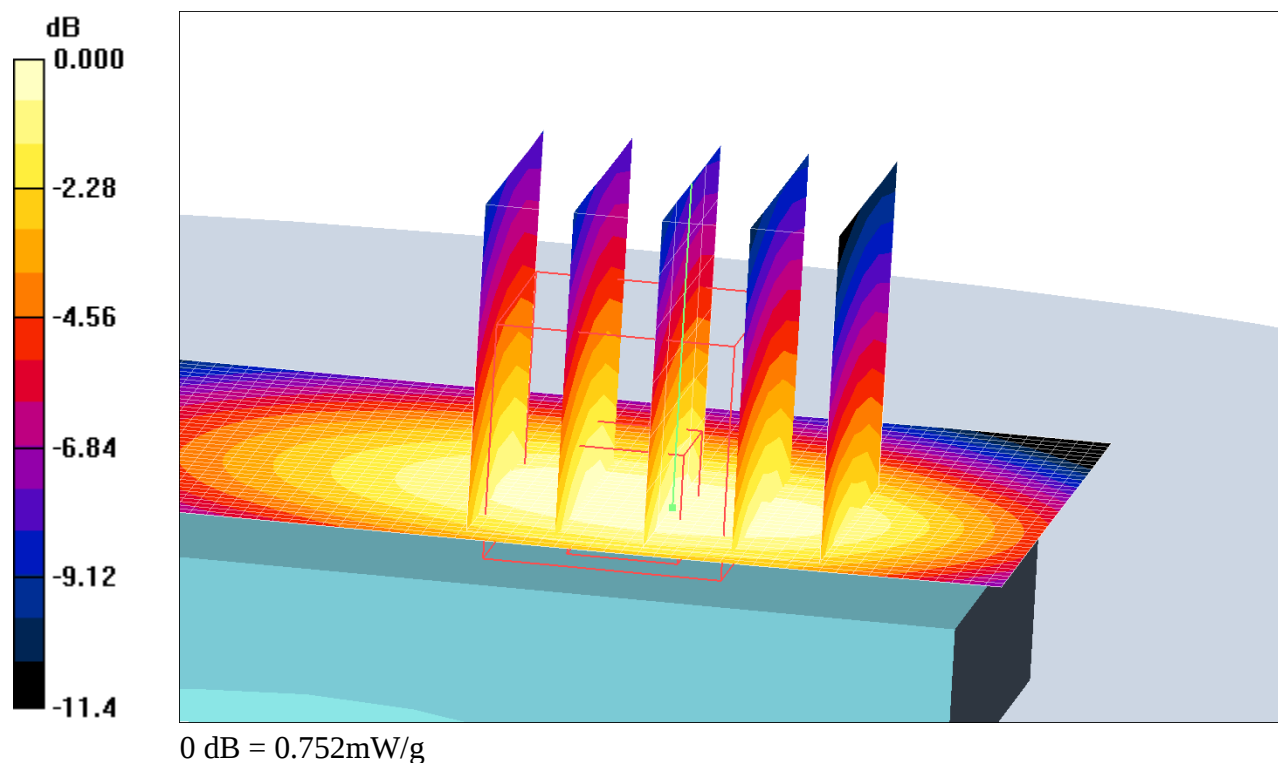
Body 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.2 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.920 W/kg

SAR(1 g) = 0.705 mW/g; SAR(10 g) = 0.492 mW/g

Maximum value of SAR (measured) = 0.752 mW/g



Date/Time: 11/28/2008 1:19:18 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-850-Speech-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

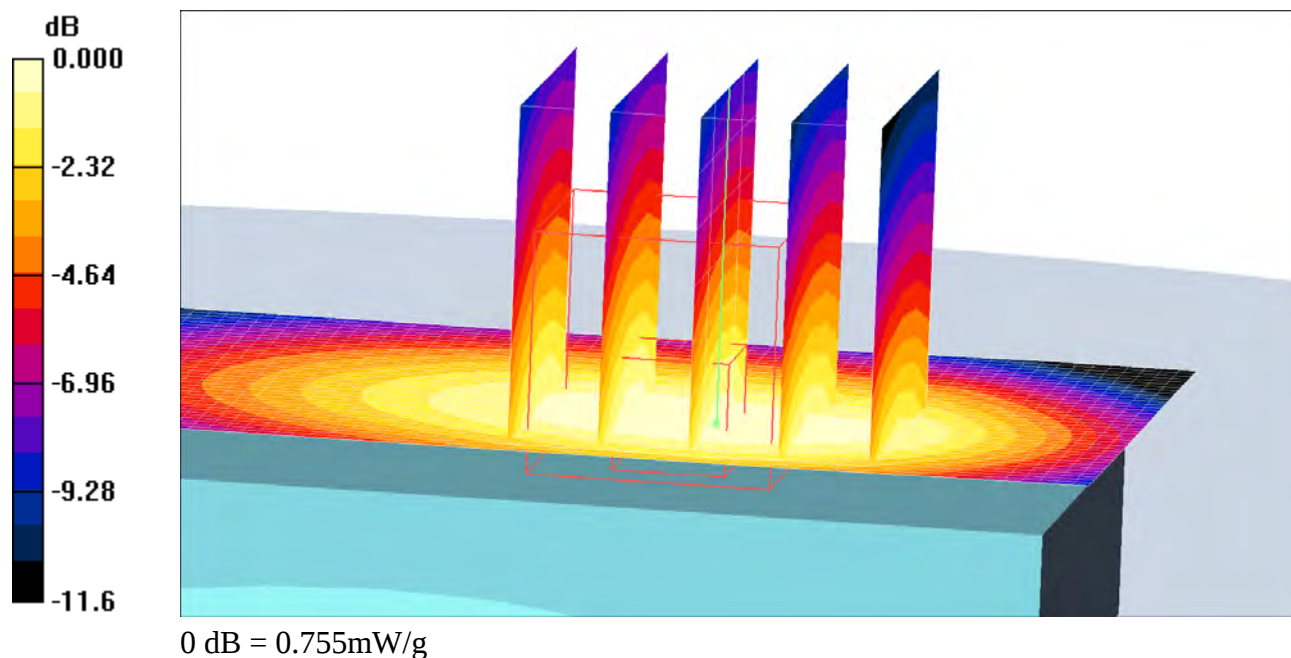
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn798; Calibrated: 3/18/2008
- 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) = 0.754 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 = 26.1 V/m ; Power Drift = -0.042 dB Peak SAR (extrapolated) = 0.924 W/kg **SAR(1 g) = 0.708 mW/g ; SAR(10 g) = 0.492 mW/g** Maximum value of SAR (measured) = 0.755 mW/g 

Date/Time: 11/25/2008 3:40:40 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-Body-WLAN-Front-To-Phantom**DUT: Rika; Type: DUT; Serial: #13799**

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

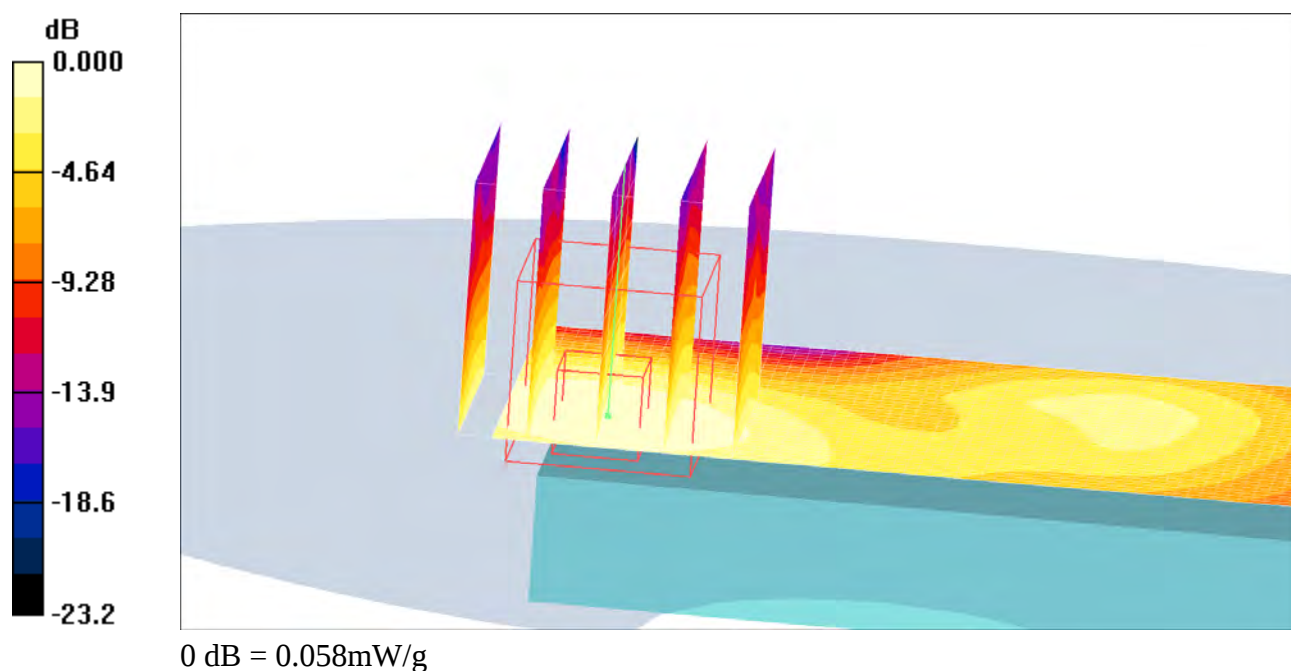
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(4.09, 4.09, 4.09); Calibrated: 3/11/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn798; Calibrated: 3/18/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DAS4, 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) = 0.057 mW/g
- Body Front To Phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.21 V/m; Power Drift = -0.062 dB
Peak SAR (extrapolated) = 0.090 W/kg
SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.031 mW/g
Maximum value of SAR (measured) = 0.058 mW/g



Date/Time: 11/25/2008 3:13:02 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-Body-WLAN-High**DUT: Rika; Type: DUT; Serial: #13799**

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(4.09, 4.09, 4.09); Calibrated: 3/11/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- 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) = 0.109 mW/g

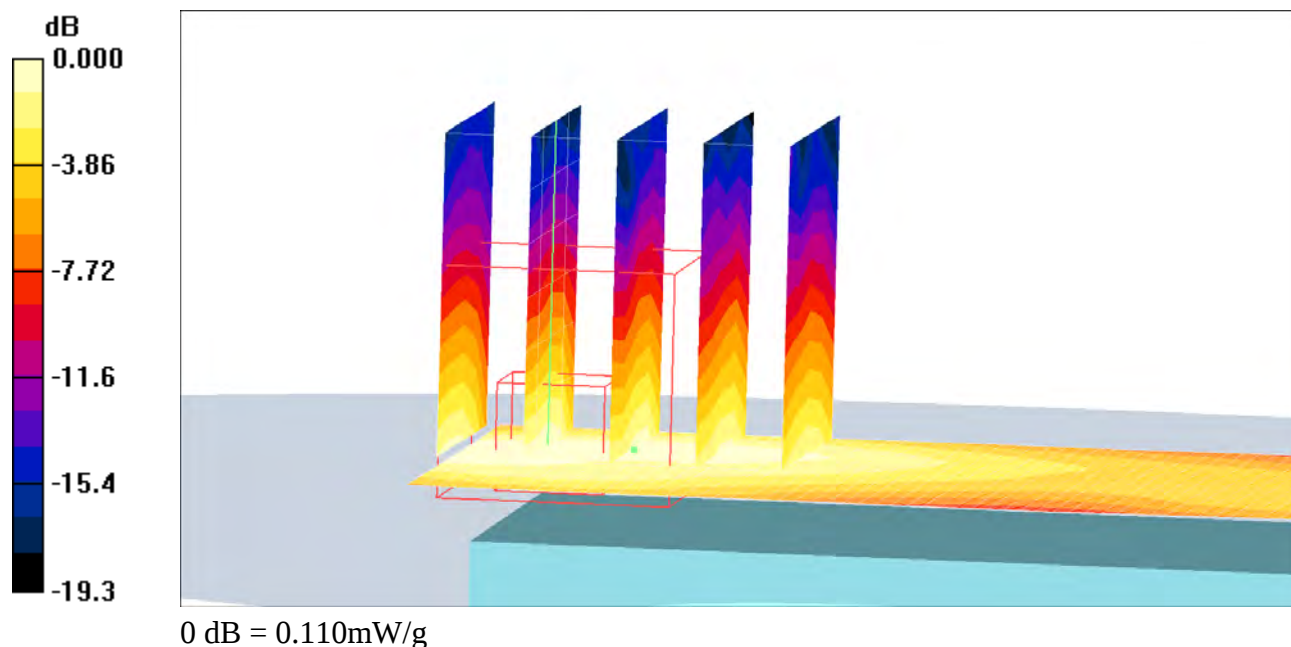
Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.07 V/m; Power Drift = -0.252 dB

Peak SAR (extrapolated) = 0.190 W/kg

SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.054 mW/g

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



Date/Time: 11/25/2008 2:41:37 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-Body-WLAN-Low**DUT: Rika; Type: DUT; Serial: #13799**

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(4.09, 4.09, 4.09); Calibrated: 3/11/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- 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) = 0.070 mW/g

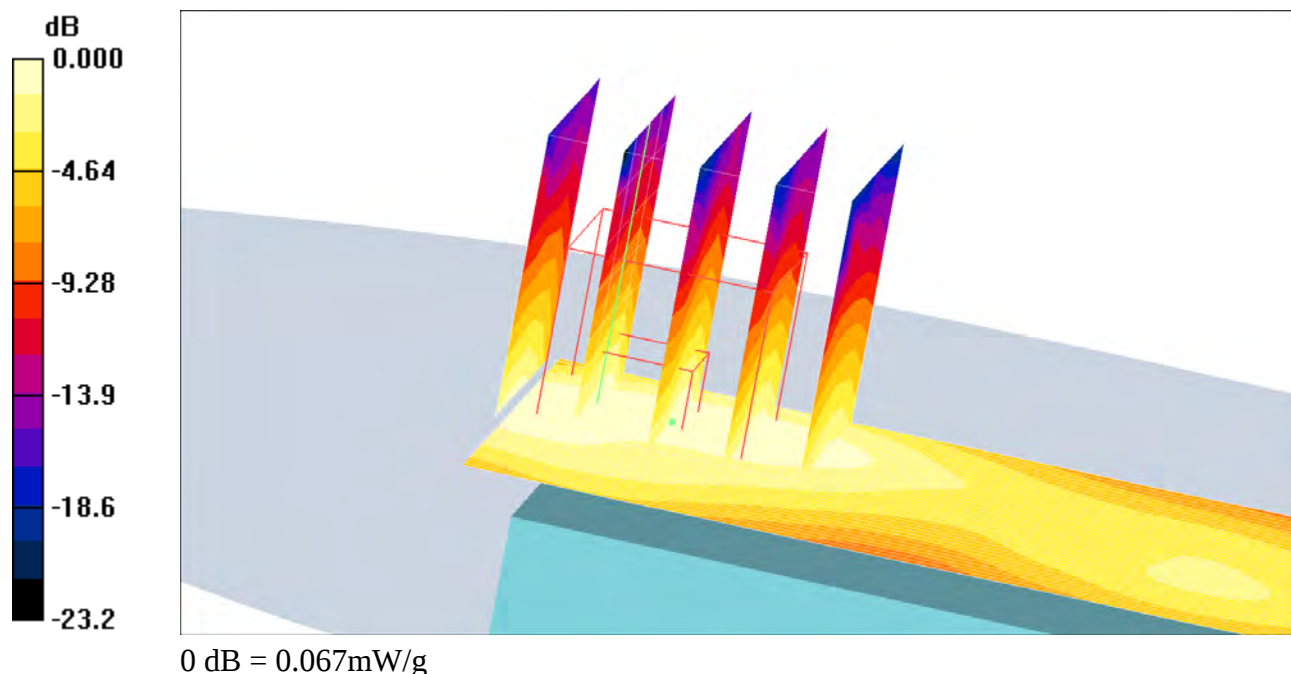
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.71 V/m; Power Drift = -0.214 dB

Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.034 mW/g

Maximum value of SAR (measured) = 0.067 mW/g



Date/Time: 11/25/2008 3:00:32 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-Body-WLAN-Middle**DUT: Rika; Type: DUT; Serial: #13799**

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

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(4.09, 4.09, 4.09); Calibrated: 3/11/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.124 mW/g

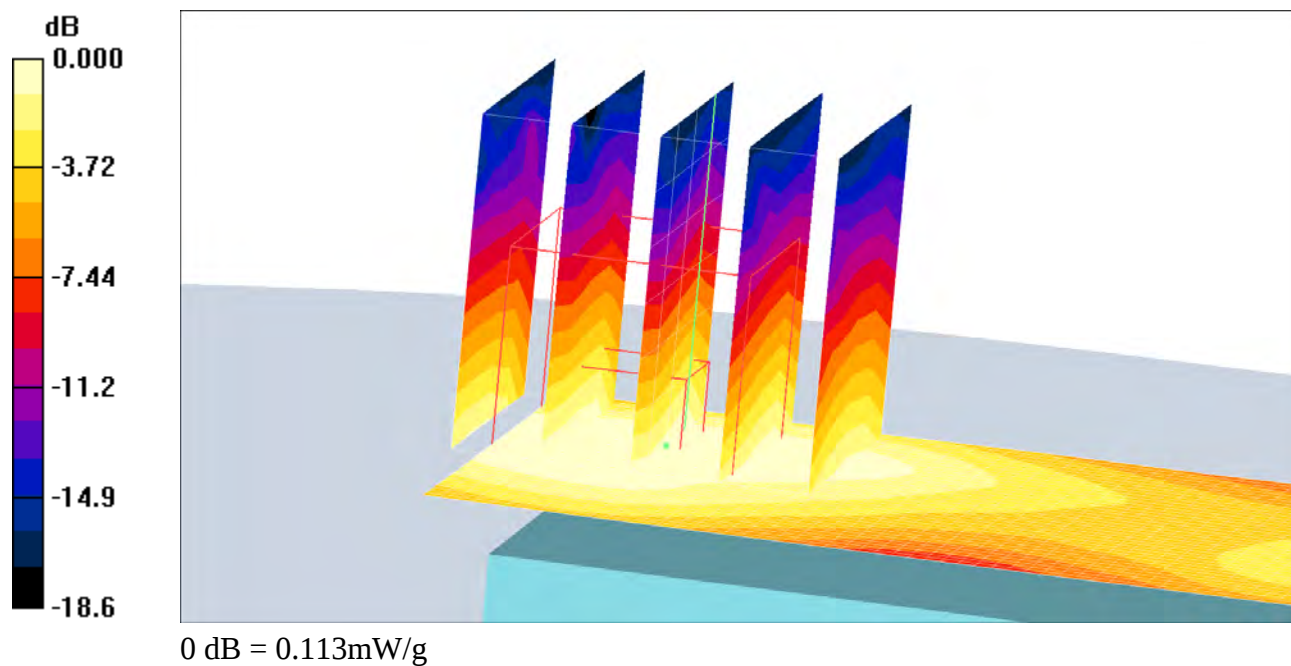
Body 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.06 V/m; Power Drift = -0.561 dB

Peak SAR (extrapolated) = 0.195 W/kg

SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.058 mW/g

Maximum value of SAR (measured) = 0.113 mW/g



Date/Time: 12/2/2008 3:11:00 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-UMTS2-HSDPA-High**DUT: Rika; Type: DUT; Serial: #13877**

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ 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: DAE4 Sn798; Calibrated: 3/18/2008
- 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) = 0.730 mW/g

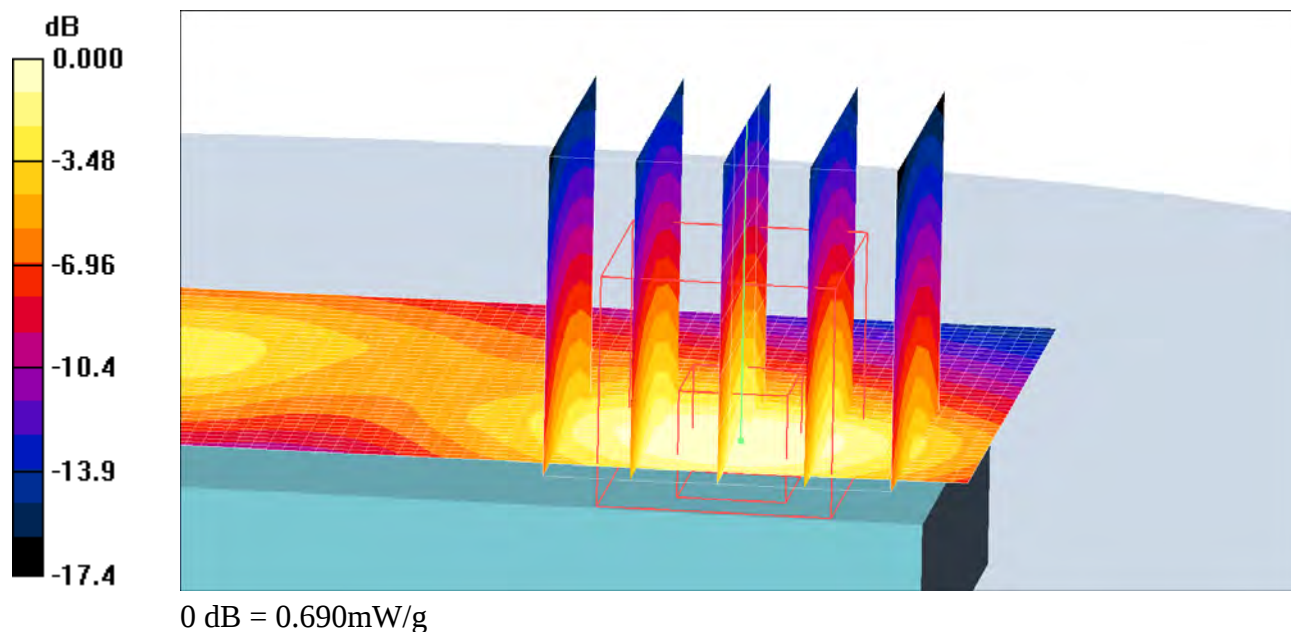
Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.627 mW/g; SAR(10 g) = 0.339 mW/g

Maximum value of SAR (measured) = 0.690 mW/g



Date/Time: 12/2/2008 3:29:36 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-UMTS2-Speech-High**DUT: Rika; Type: DUT; Serial: #13877**

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz; Duty Cycle: 1:1

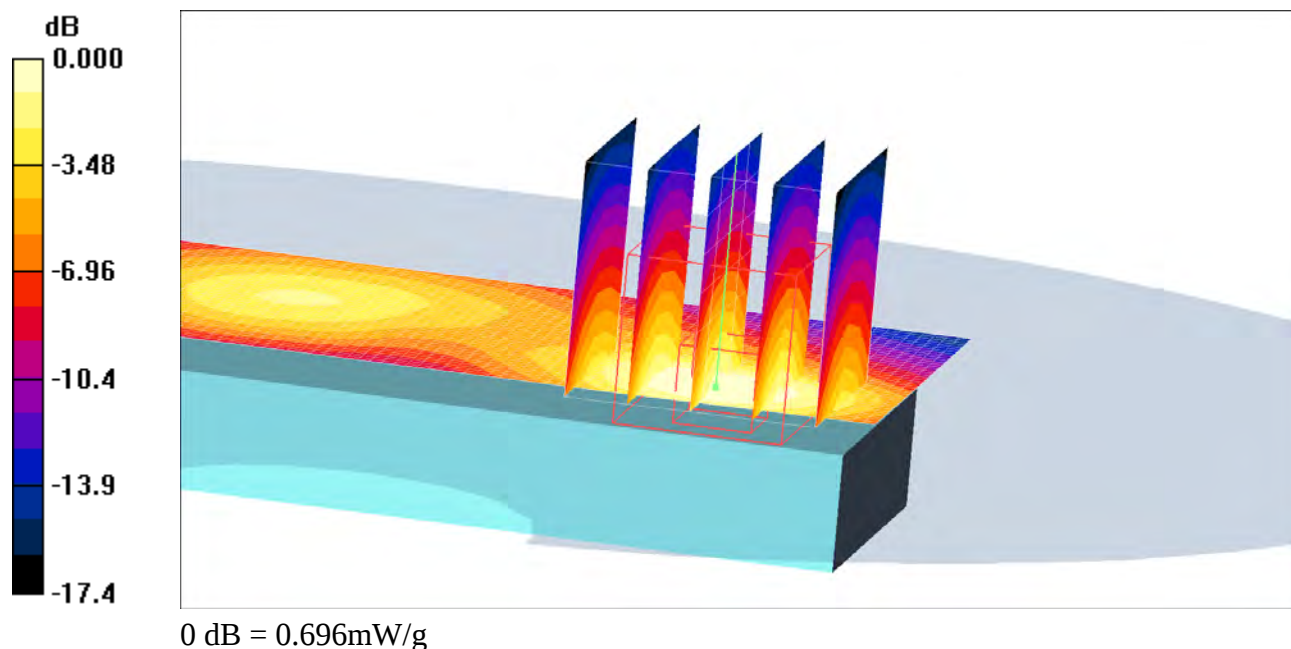
Medium parameters used: $f = 1907.6 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn798; Calibrated: 3/18/2008
- 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: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.739 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 = 12.3 V/m ; Power Drift = 0.006 dB Peak SAR (extrapolated) = 1.16 W/kg **SAR(1 g) = 0.630 mW/g ; SAR(10 g) = 0.340 mW/g** Maximum value of SAR (measured) = 0.696 mW/g 

Date/Time: 12/2/2008 3:55:18 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-UMTS2-Speech-Low**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ 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: DAE4 Sn798; Calibrated: 3/18/2008
- 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) = 0.690 mW/g

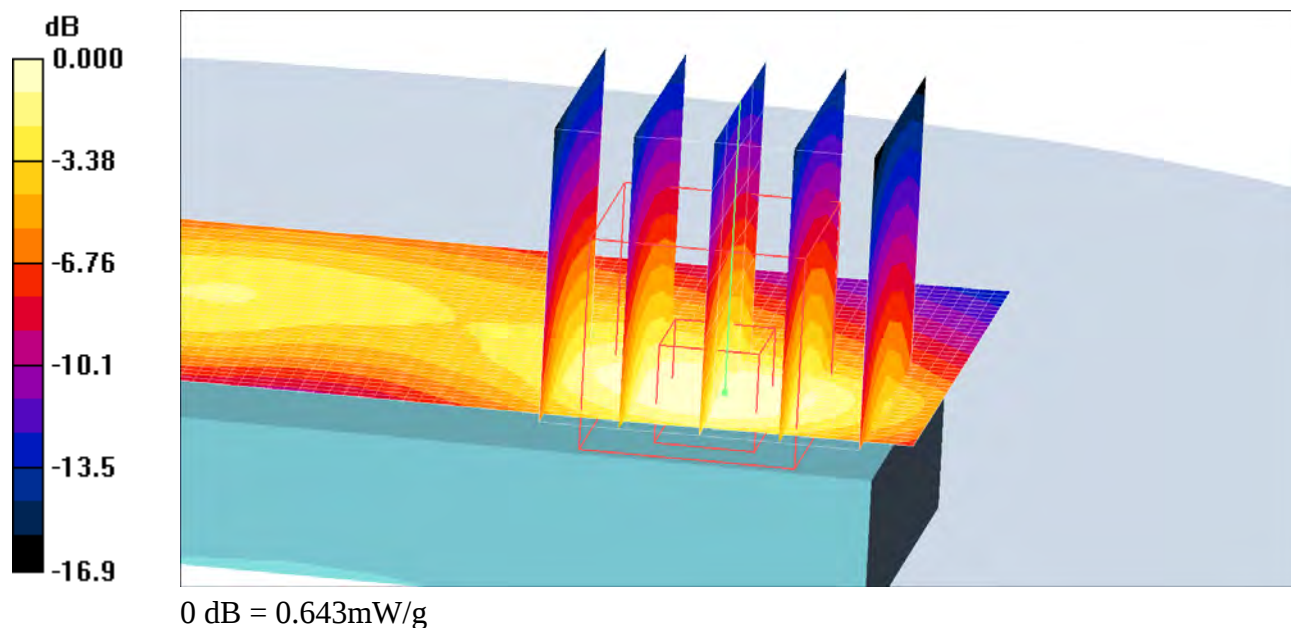
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.5 V/m; Power Drift = -0.242 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.588 mW/g; SAR(10 g) = 0.326 mW/g

Maximum value of SAR (measured) = 0.643 mW/g



Date/Time: 12/2/2008 4:06:21 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-UMTS2-Speech-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ 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: DAE4 Sn798; Calibrated: 3/18/2008
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.682 mW/g

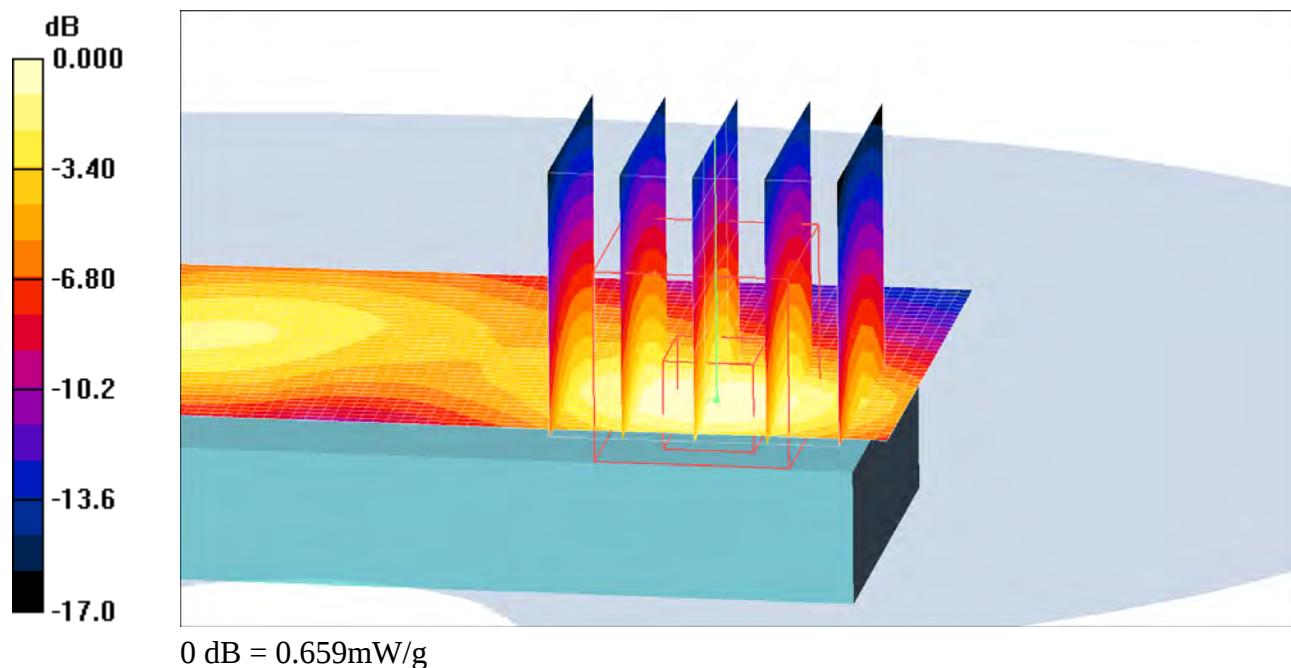
Body 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.8 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.602 mW/g; SAR(10 g) = 0.328 mW/g

Maximum value of SAR (measured) = 0.659 mW/g



Date/Time: 12/1/2008 12:23:36 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-UMTS5-HSDPA-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

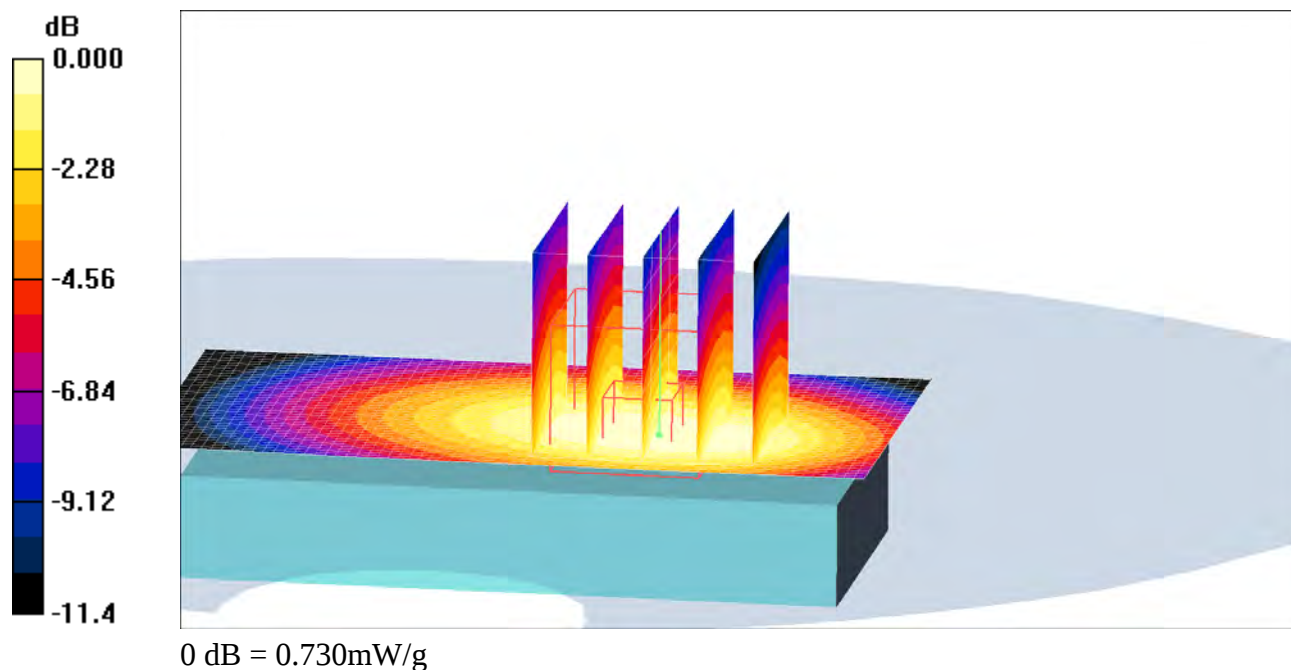
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn798; Calibrated: 3/18/2008
- 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) = 0.734 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 = 24.9 V/m ; Power Drift = -0.050 dB Peak SAR (extrapolated) = 0.898 W/kg **SAR(1 g) = 0.685 mW/g ; SAR(10 g) = 0.479 mW/g** Maximum value of SAR (measured) = 0.730 mW/g 

Date/Time: 12/1/2008 2:34:27 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-UMTS5-Speech-High**DUT: Rika; Type: DUT; Serial: #13877**

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

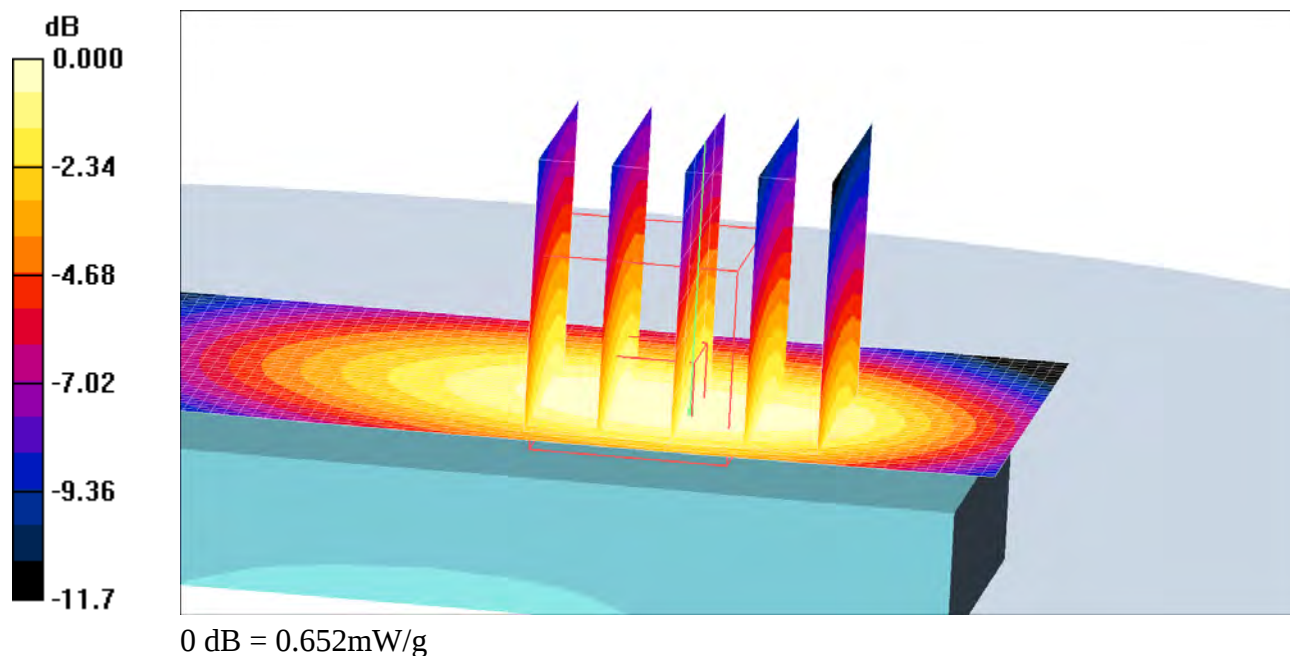
Medium parameters used: $f = 846.6 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 53.6$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn798; Calibrated: 3/18/2008
- 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: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.647 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 = 24.7 V/m ; Power Drift = 0.013 dB Peak SAR (extrapolated) = 0.802 W/kg **SAR(1 g) = 0.617 mW/g ; SAR(10 g) = 0.431 mW/g** Maximum value of SAR (measured) = 0.652 mW/g 

Date/Time: 12/1/2008 2:24:02 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-UMTS5-Speech-Low**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 54$; $\rho = 1000$ 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: DAE4 Sn798; Calibrated: 3/18/2008
- 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) = 0.553 mW/g

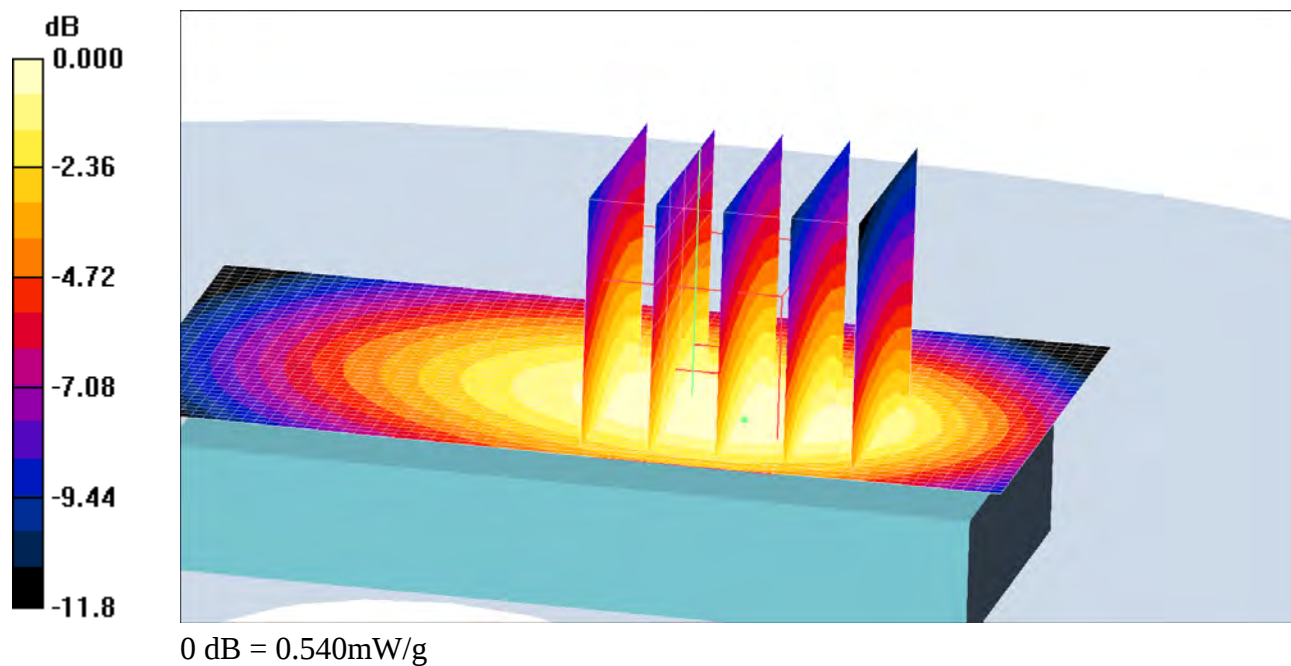
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.9 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 0.665 W/kg

SAR(1 g) = 0.516 mW/g; SAR(10 g) = 0.360 mW/g

Maximum value of SAR (measured) = 0.540 mW/g



Date/Time: 12/1/2008 1:55:38 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Rika-UMTS5-Speech-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.7$; $\rho = 1000$ 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: DAE4 Sn798; Calibrated: 3/18/2008
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.757 mW/g

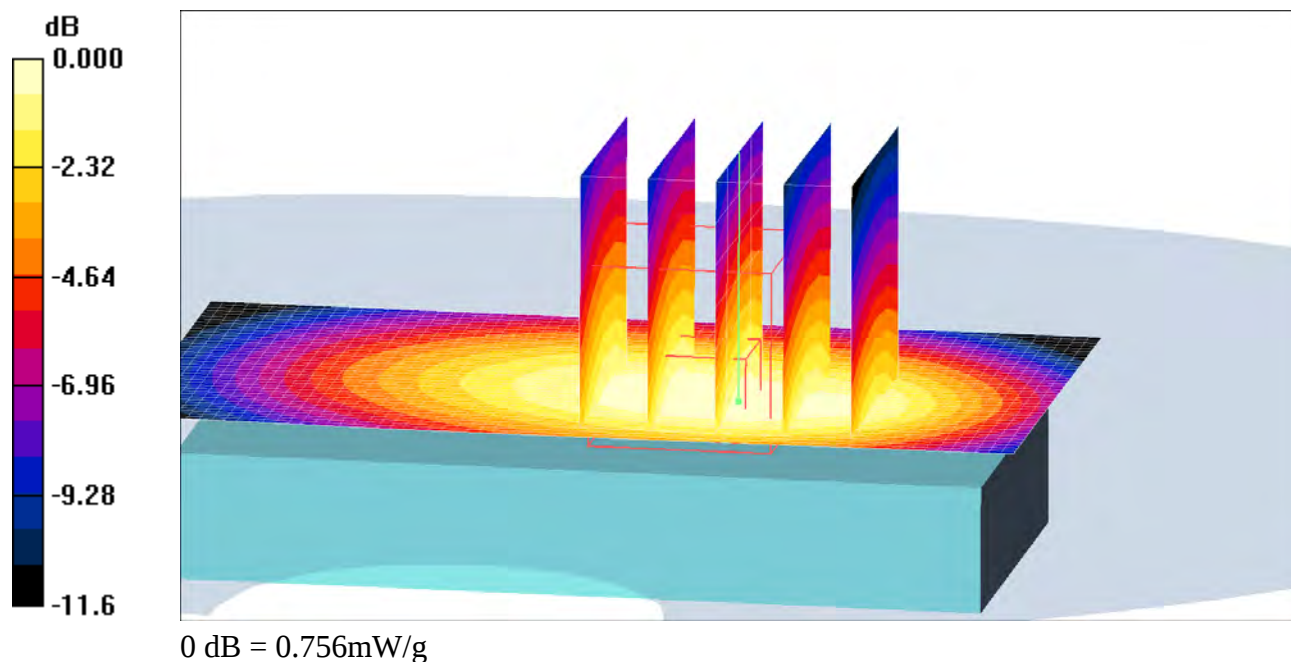
Body 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.8 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.931 W/kg

SAR(1 g) = 0.709 mW/g; SAR(10 g) = 0.495 mW/g

Maximum value of SAR (measured) = 0.756 mW/g



Date/Time: 11/14/2008 10:33:50 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-LeftHandSide-GSM1900-Tilt-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

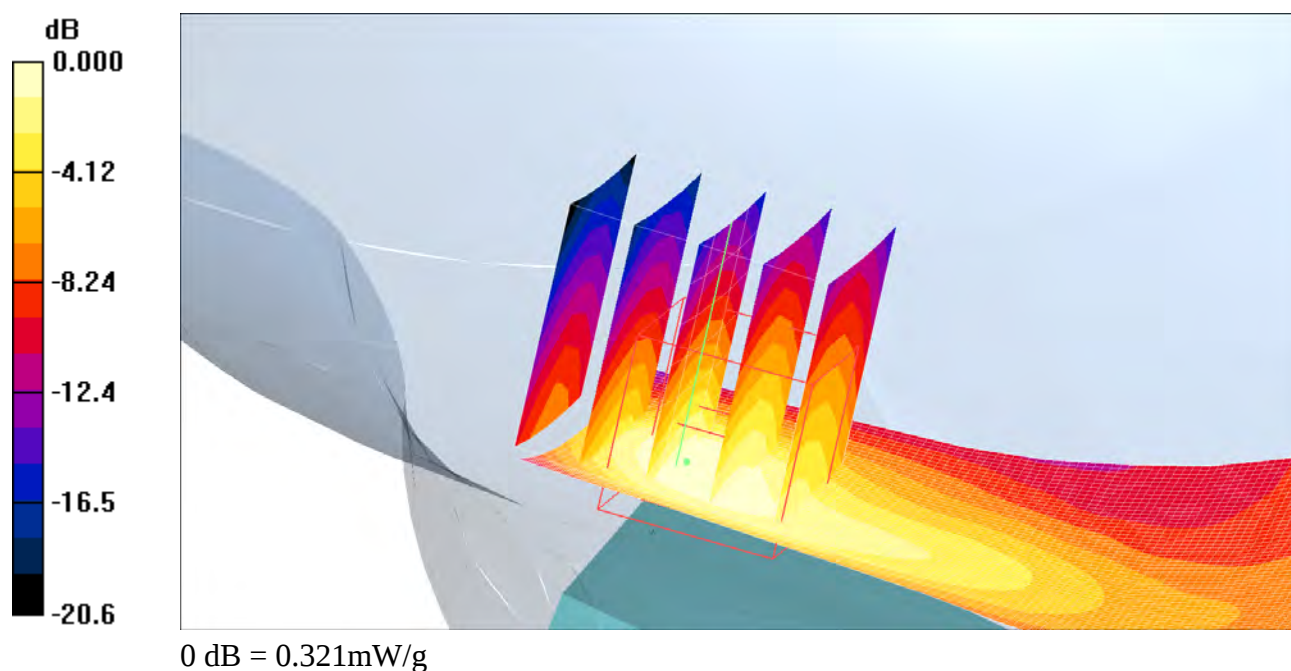
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn798; Calibrated: 3/18/2008
 - 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) = 0.329 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.3 V/m; Power Drift = 0.075 dB
Peak SAR (extrapolated) = 0.478 W/kg
SAR(1 g) = 0.289 mW/g; SAR(10 g) = 0.165 mW/g
Maximum value of SAR (measured) = 0.321 mW/g



Date/Time: 11/14/2008 11:06:10 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-LeftHandSide-GSM1900-Touch-High**DUT: Rika; Type: DUT; Serial: #13877**

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

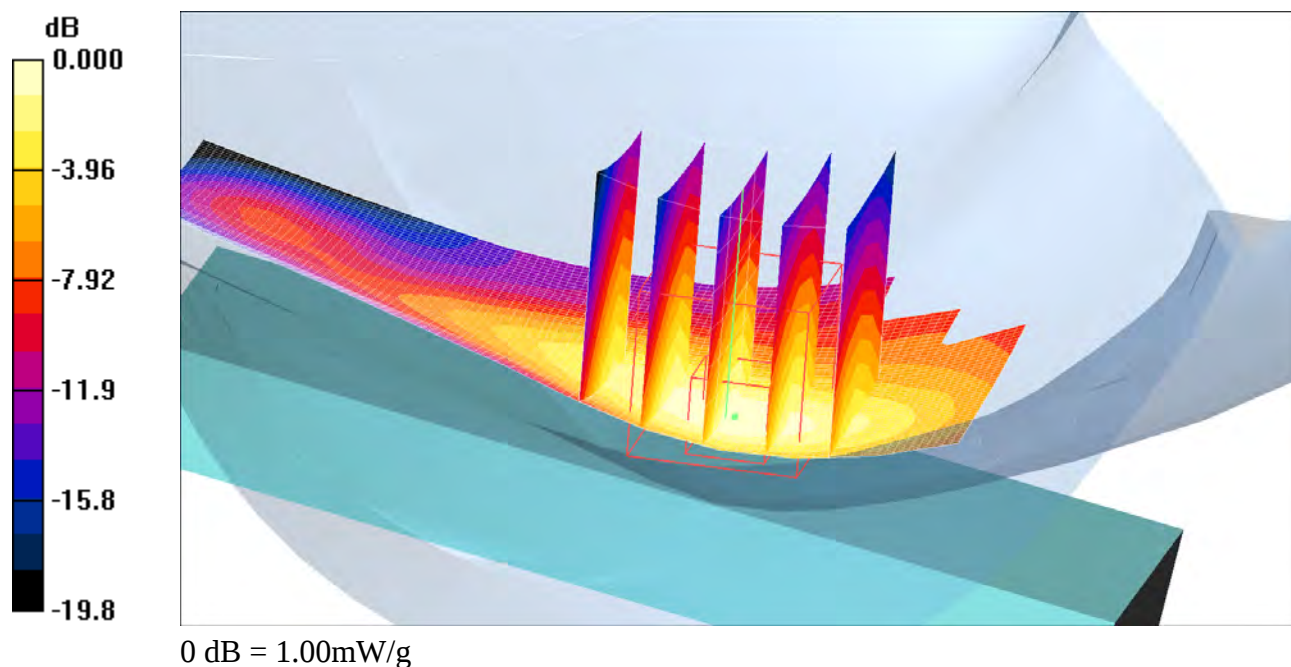
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.5 \text{ mho/m}$; $\epsilon_r = 38$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- 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) = 0.963 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 = 9.44 V/m ; Power Drift = -0.072 dB Peak SAR (extrapolated) = 1.44 W/kg **SAR(1 g) = 0.867 mW/g ; SAR(10 g) = 0.479 mW/g** Maximum value of SAR (measured) = 1.00 mW/g 

Date/Time: 11/26/2008 11:04:46 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-LeftHandSide-GSM850-Tilt-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

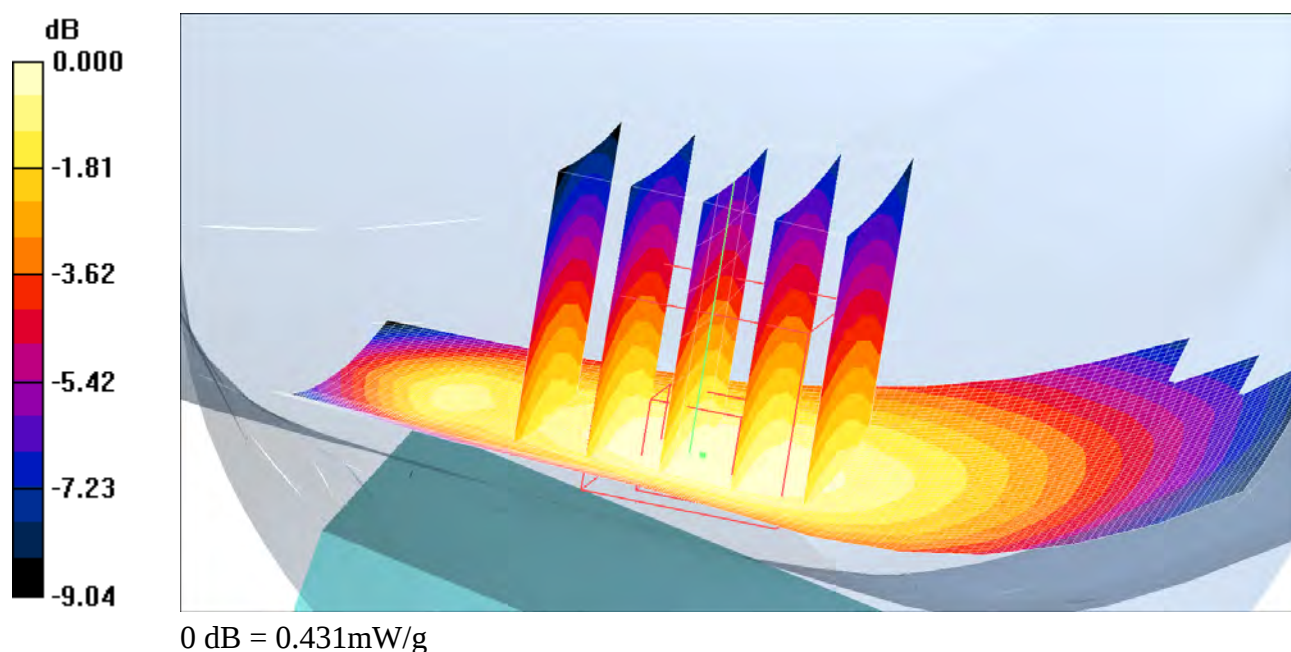
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(5.89, 5.89, 5.89); Calibrated: 3/11/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn798; Calibrated: 3/18/2008
 - 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: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (interpolated) = 0.439 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 19.0 V/m ; Power Drift = -0.193 dB
Peak SAR (extrapolated) = 0.512 W/kg
SAR(1 g) = 0.406 mW/g ; SAR(10 g) = 0.304 mW/g
Maximum value of SAR (measured) = 0.431 mW/g



Date/Time: 11/26/2008 12:13:15 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-LeftHandSide-GSM850-Touch-High**DUT: Rika; Type: DUT; Serial: #13877**

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

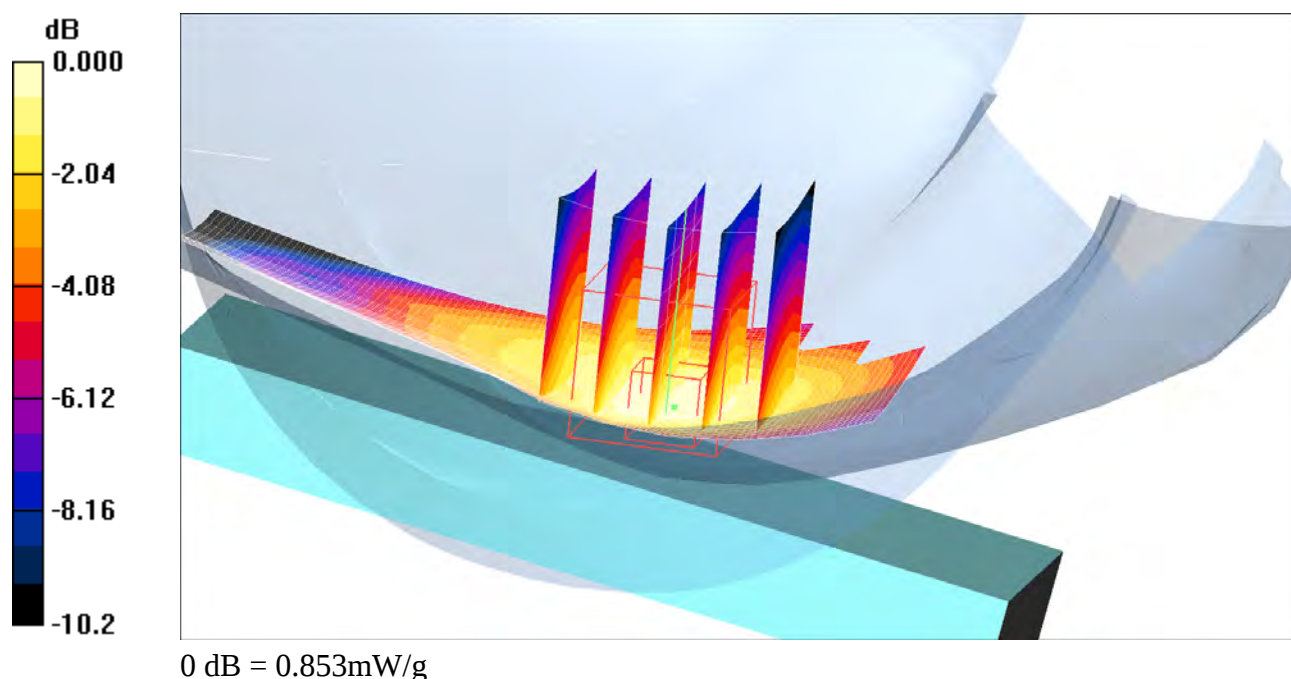
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(5.89, 5.89, 5.89); Calibrated: 3/11/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn798; Calibrated: 3/18/2008
 - 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) = 0.822 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 = 13.8 V/m ; Power Drift = -0.008 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.784 mW/g ; SAR(10 g) = 0.557 mW/g
Maximum value of SAR (measured) = 0.853 mW/g



Date/Time: 12/2/2008 10:14:16 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-LeftHandSide-UMTS2-Tilt-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ 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: DAE4 Sn798; Calibrated: 3/18/2008
- 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) = 0.388 mW/g

Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

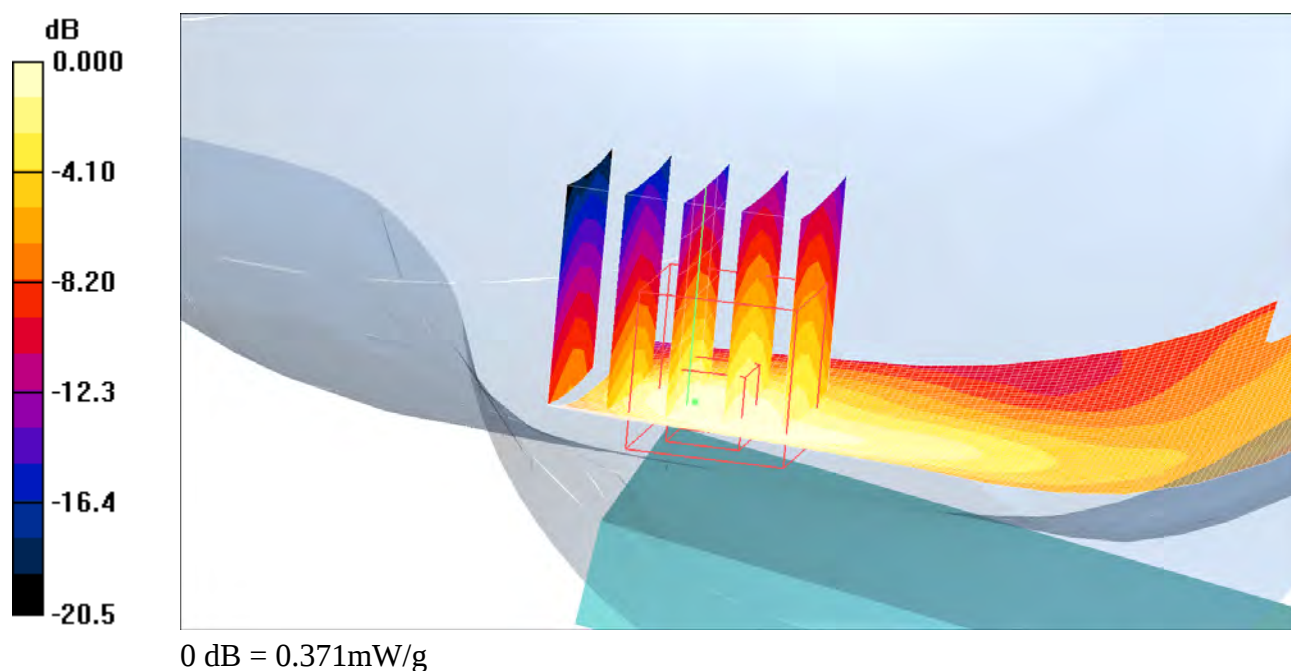
dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.5 V/m; Power Drift = -0.120 dB

Peak SAR (extrapolated) = 0.567 W/kg

SAR(1 g) = 0.343 mW/g; SAR(10 g) = 0.205 mW/g

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



Date/Time: 12/2/2008 11:29:07 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-LeftHandSide-UMTS2-Touch-High**DUT: Rika; Type: DUT; Serial: #13877**

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz; Duty Cycle: 1:1

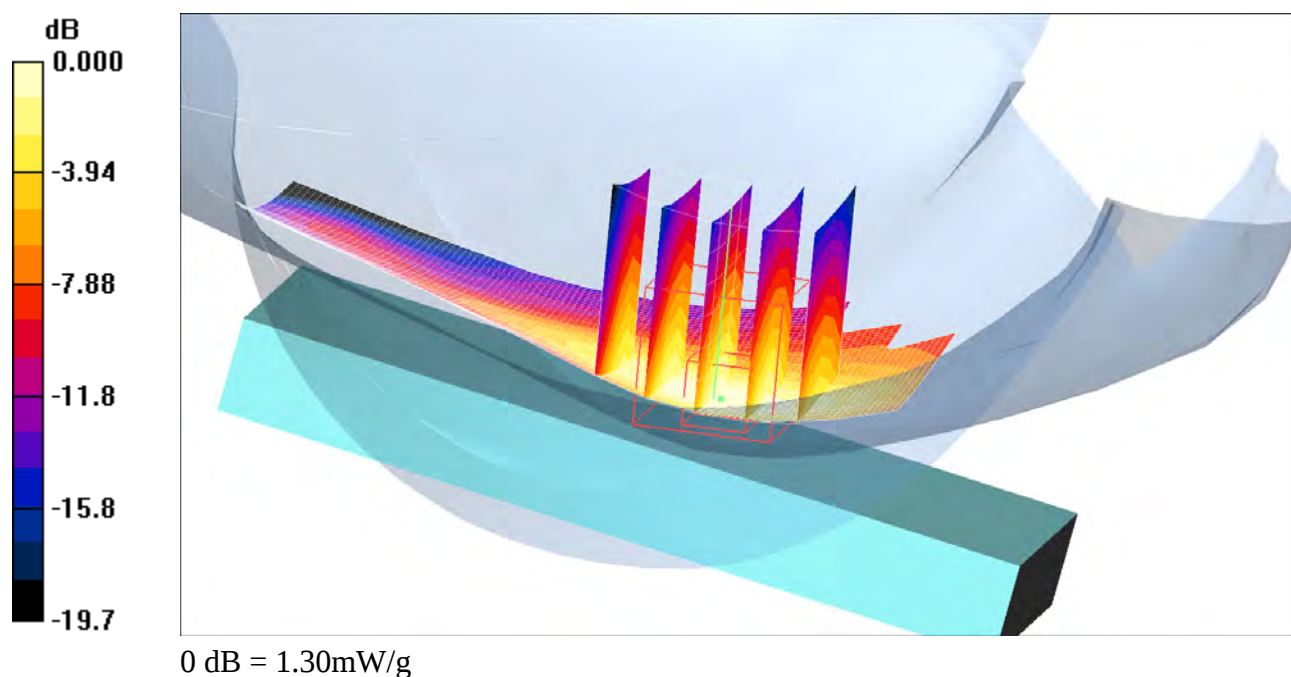
Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

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: DAE4 Sn798; Calibrated: 3/18/2008
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - 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) = 1.30 mW/g
- Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.97 V/m; Power Drift = -0.123 dB
Peak SAR (extrapolated) = 1.92 W/kg
SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.637 mW/g
Maximum value of SAR (measured) = 1.30 mW/g



Date/Time: 11/27/2008 10:36:20 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-LeftHandSide-UMTS5-Tilt-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(5.89, 5.89, 5.89); Calibrated: 3/11/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.410 mW/g

Tilt position - Middle - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

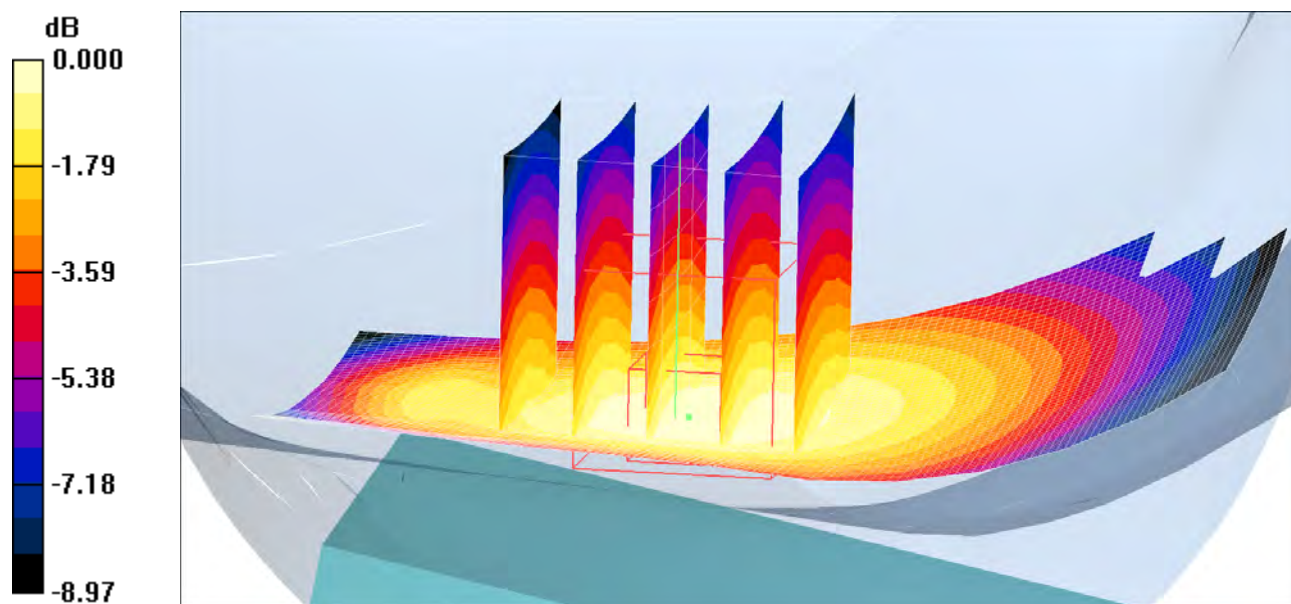
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.7 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.289 mW/g

Maximum value of SAR (measured) = 0.408 mW/g



0 dB = 0.408mW/g

Date/Time: 11/27/2008 10:20:54 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-LeftHandSide-UMTS5-Touch-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

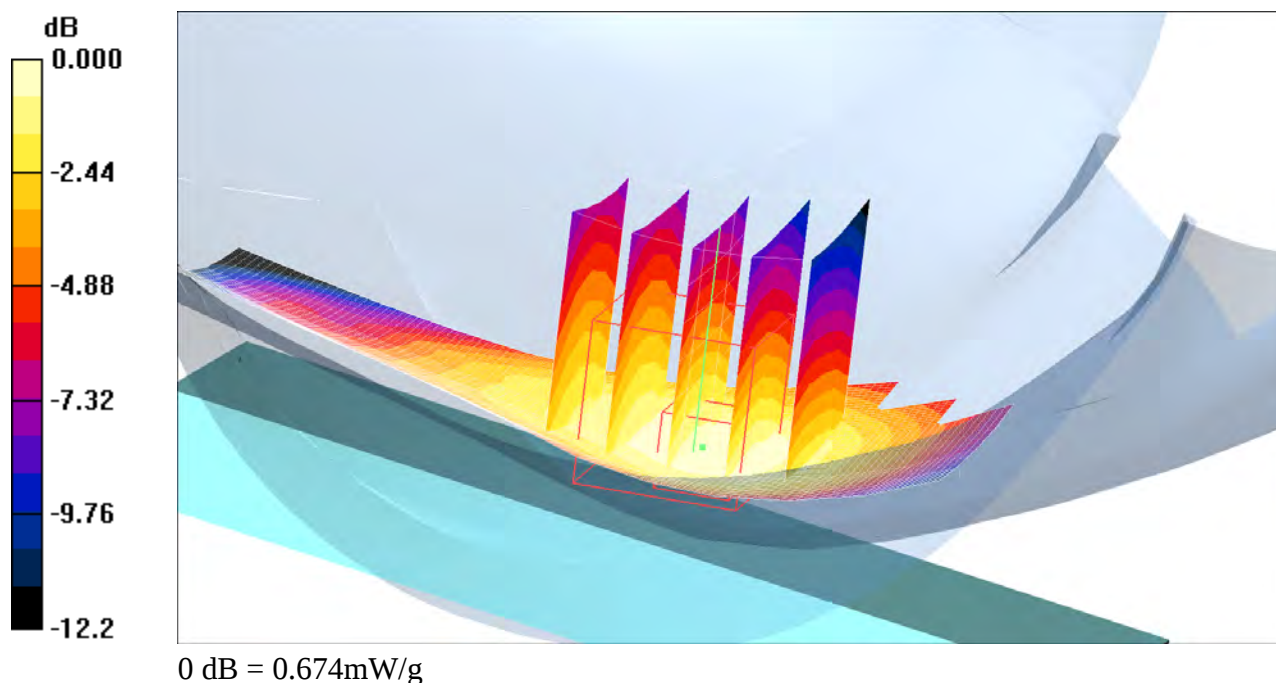
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(5.89, 5.89, 5.89); Calibrated: 3/11/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn798; Calibrated: 3/18/2008
 - Phantom: SAM-2; Type: SAM; Serial: 1025
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Middle - Slider Closed/Area Scan (61x111x1):** Measurement grid:
 $dx=10$ mm, $dy=10$ mm
 Maximum value of SAR (interpolated) = 0.683 mW/g
- Touch position - Middle - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**
 Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
 Reference Value = 13.0 V/m; Power Drift = 0.003 dB
 Peak SAR (extrapolated) = 0.831 W/kg
SAR(1 g) = 0.630 mW/g; SAR(10 g) = 0.450 mW/g
 Maximum value of SAR (measured) = 0.674 mW/g



Date/Time: 10/31/2008 12:13:47 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-LeftHandSide-WLAN-Tilt-Low**DUT: Rika; Type: DUT; Serial: #13799**

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 37.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(4.38, 4.38, 4.38); Calibrated: 3/11/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position - Slider Closed 2/Area Scan (61x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.224 mW/g

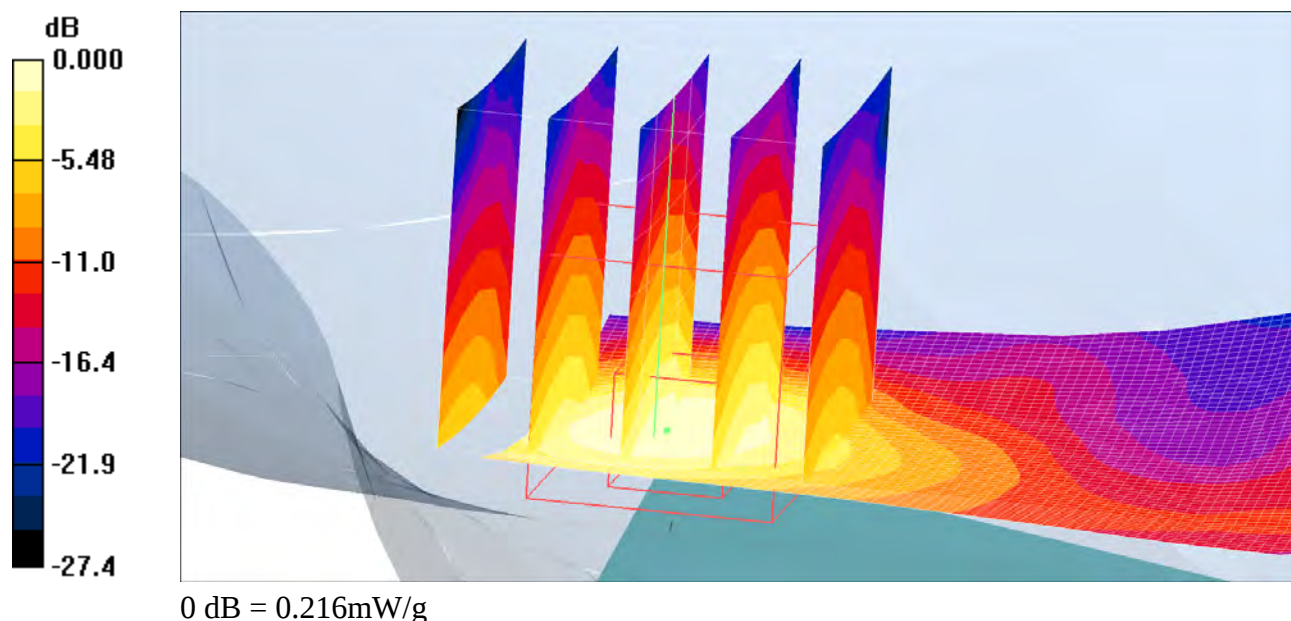
Tilt position - Slider Closed 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 0.396 W/kg

SAR(1 g) = 0.195 mW/g; SAR(10 g) = 0.092 mW/g

Maximum value of SAR (measured) = 0.216 mW/g



Date/Time: 10/31/2008 11:50:18 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-LeftHandSide-WLAN-Touch-Middle**DUT: Rika; Type: DUT; Serial: #13799**

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

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 37.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(4.38, 4.38, 4.38); Calibrated: 3/11/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.112 mW/g

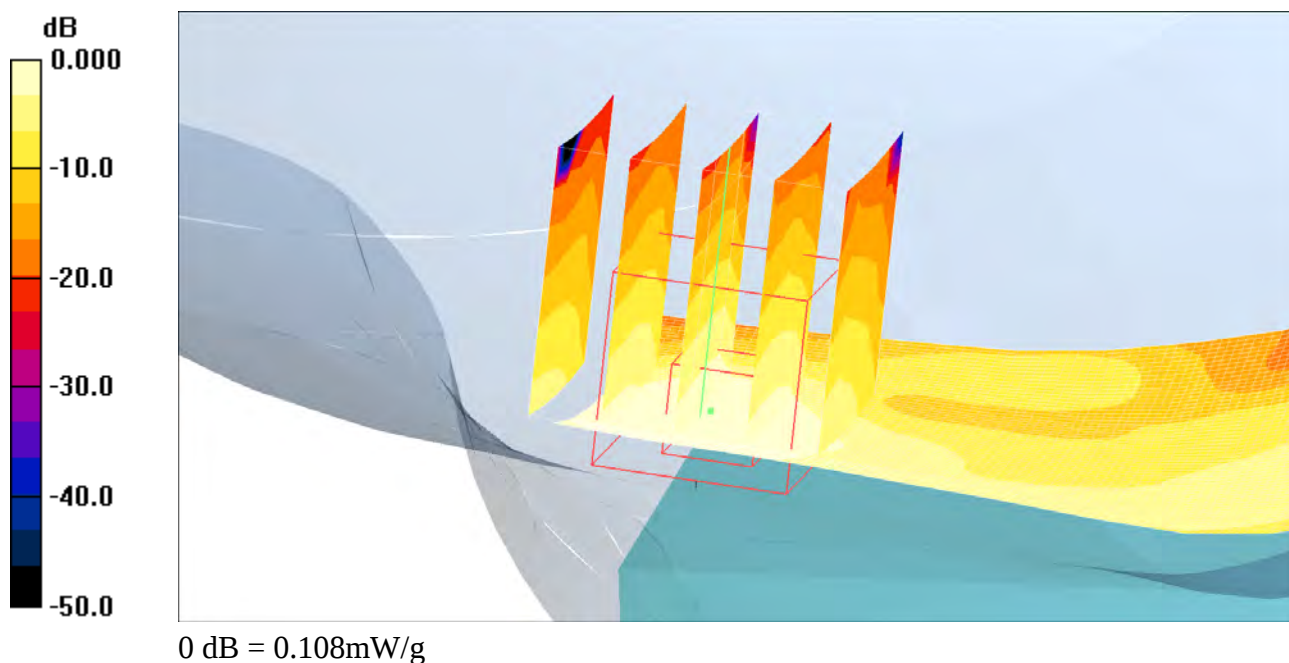
Touch position - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.52 V/m; Power Drift = 0.170 dB

Peak SAR (extrapolated) = 0.202 W/kg

SAR(1 g) = 0.098 mW/g; SAR(10 g) = 0.048 mW/g

Maximum value of SAR (measured) = 0.108 mW/g



Date/Time: 11/14/2008 12:16:44 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-RightHandSide-GSM1900-Tilt-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.414 mW/g

Tilt position - Middle- Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

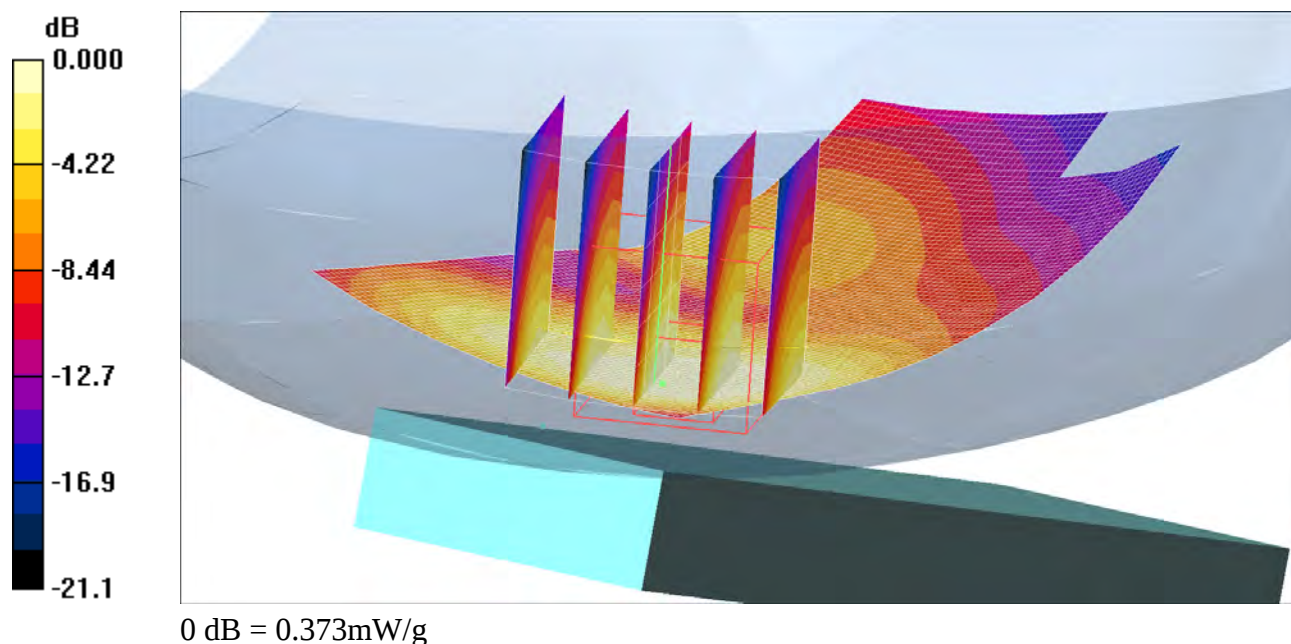
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.5 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.572 W/kg

SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.209 mW/g

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



Date/Time: 11/14/2008 12:56:10 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-RightHandSide-GSM1900-Touch-High**DUT: Rika; Type: DUT; Serial: #13877**

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

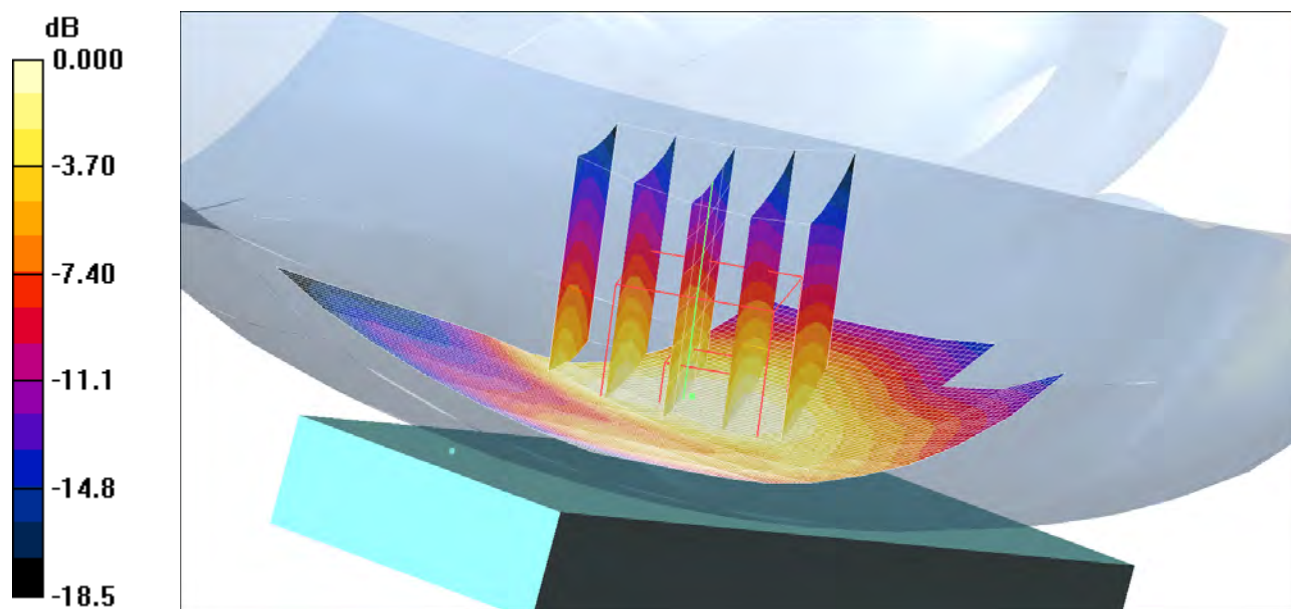
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.5 \text{ mho/m}$; $\epsilon_r = 38$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - High - Slider Closed/Area Scan (61x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.926 mW/g **Touch position - High - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 7.82 V/m ; Power Drift = 0.053 dB Peak SAR (extrapolated) = 1.42 W/kg **SAR(1 g) = 0.830 mW/g ; SAR(10 g) = 0.482 mW/g** Maximum value of SAR (measured) = 0.908 mW/g 0 dB = 0.908 mW/g

Date/Time: 11/26/2008 2:45:12 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-RightHandSide-GSM850-Tilt-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(5.89, 5.89, 5.89); Calibrated: 3/11/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

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

Tilt position - Middle- Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

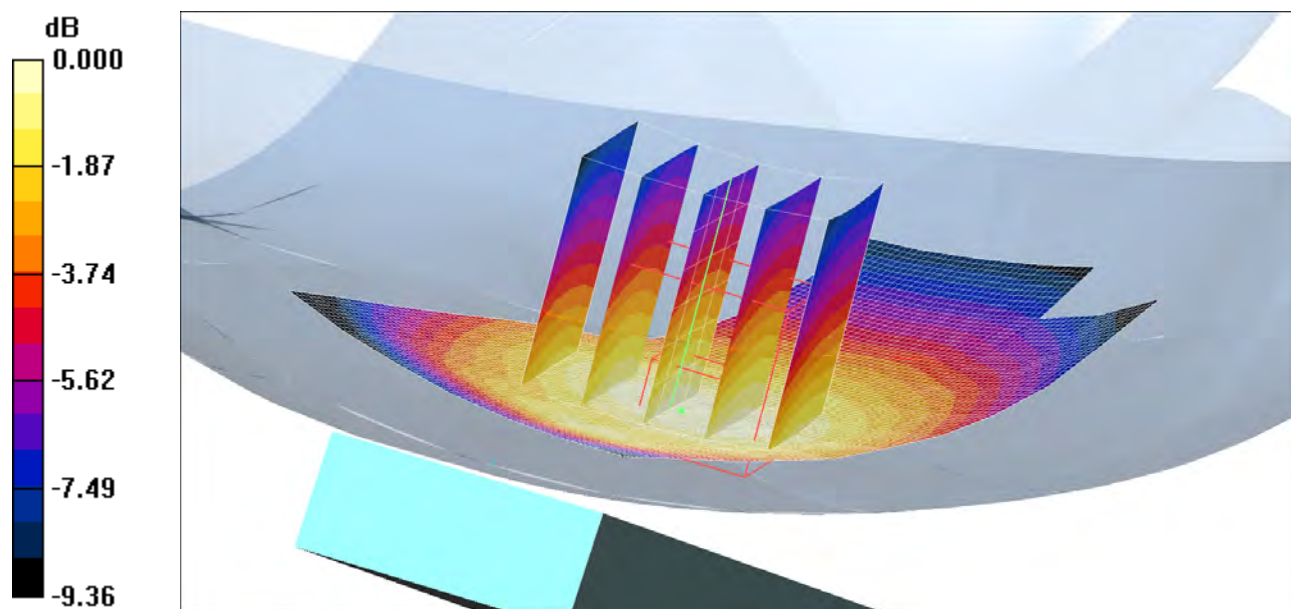
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.7 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 0.559 W/kg

SAR(1 g) = 0.442 mW/g; SAR(10 g) = 0.328 mW/g

Maximum value of SAR (measured) = 0.470 mW/g



0 dB = 0.470mW/g

Date/Time: 11/26/2008 2:28:17 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-RightHandSide-GSM850-Touch-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(5.89, 5.89, 5.89); Calibrated: 3/11/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.727 mW/g

Touch position - Middle- Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

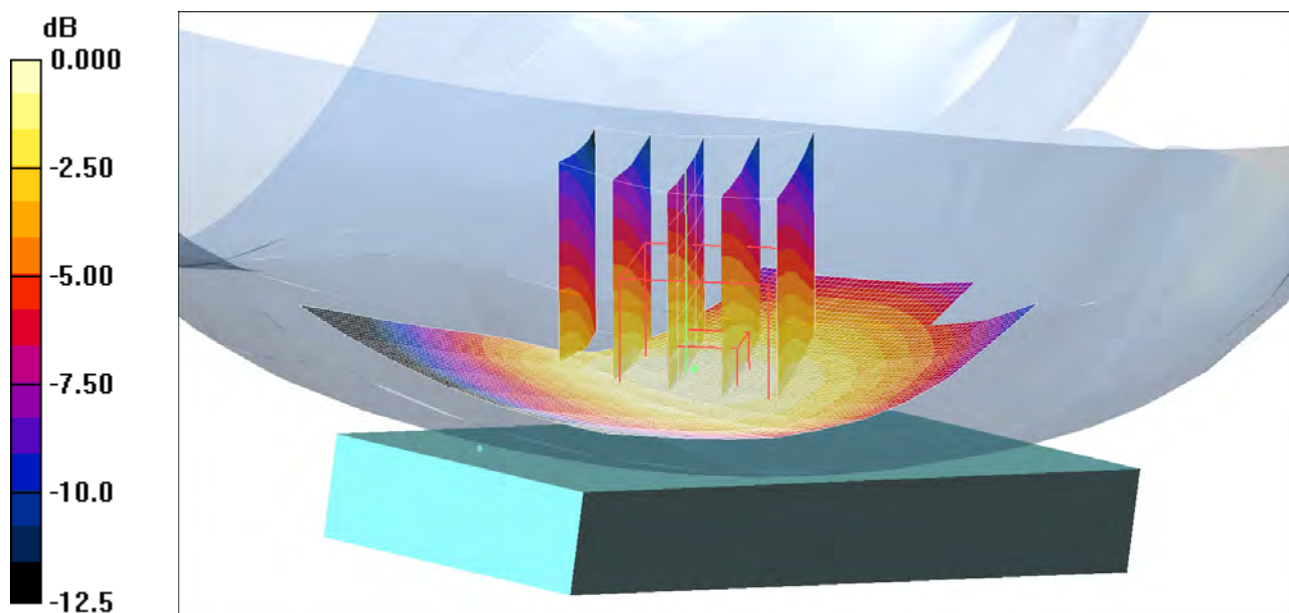
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.690 mW/g; SAR(10 g) = 0.480 mW/g

Maximum value of SAR (measured) = 0.735 mW/g



0 dB = 0.735mW/g

Date/Time: 12/2/2008 1:02:01 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-RightHandSide-UMTS2-Tilt-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ 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: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.582 mW/g

Tilt position - Middle- Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

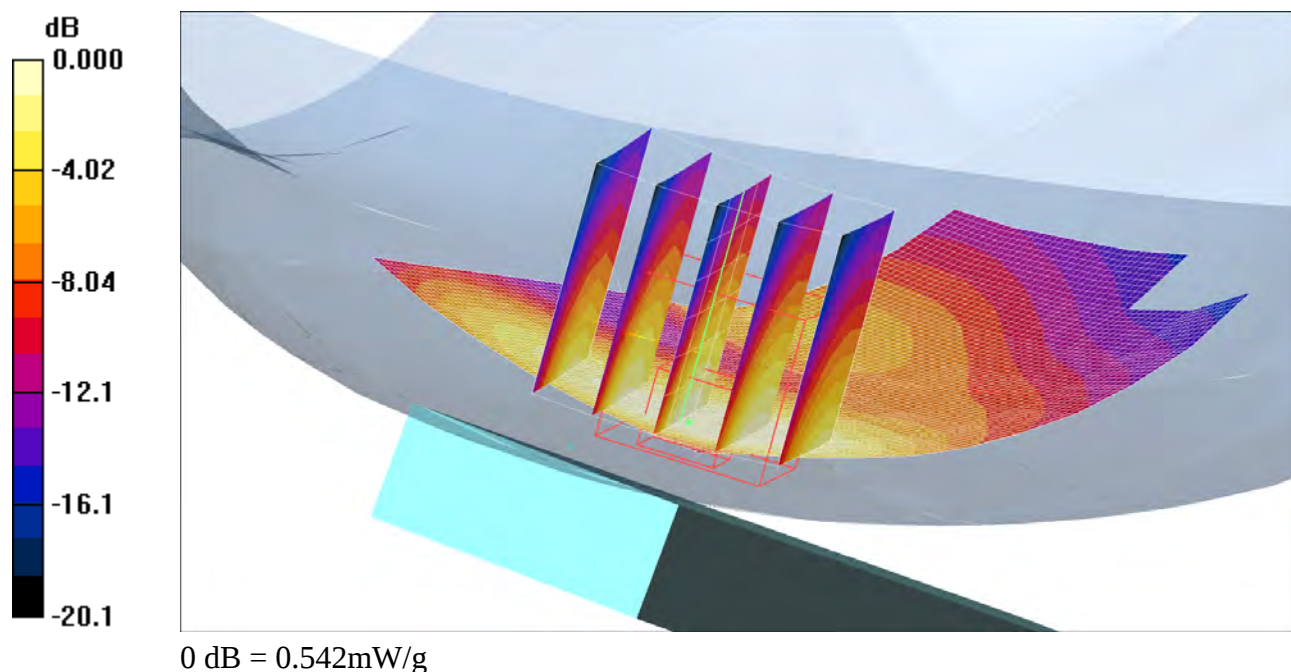
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.6 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.851 W/kg

SAR(1 g) = 0.506 mW/g; SAR(10 g) = 0.293 mW/g

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



Date/Time: 12/2/2008 12:46:29 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-RightHandSide-UMTS2-Touch-Open**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ 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: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 1.25 mW/g

Touch position - Middle- Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

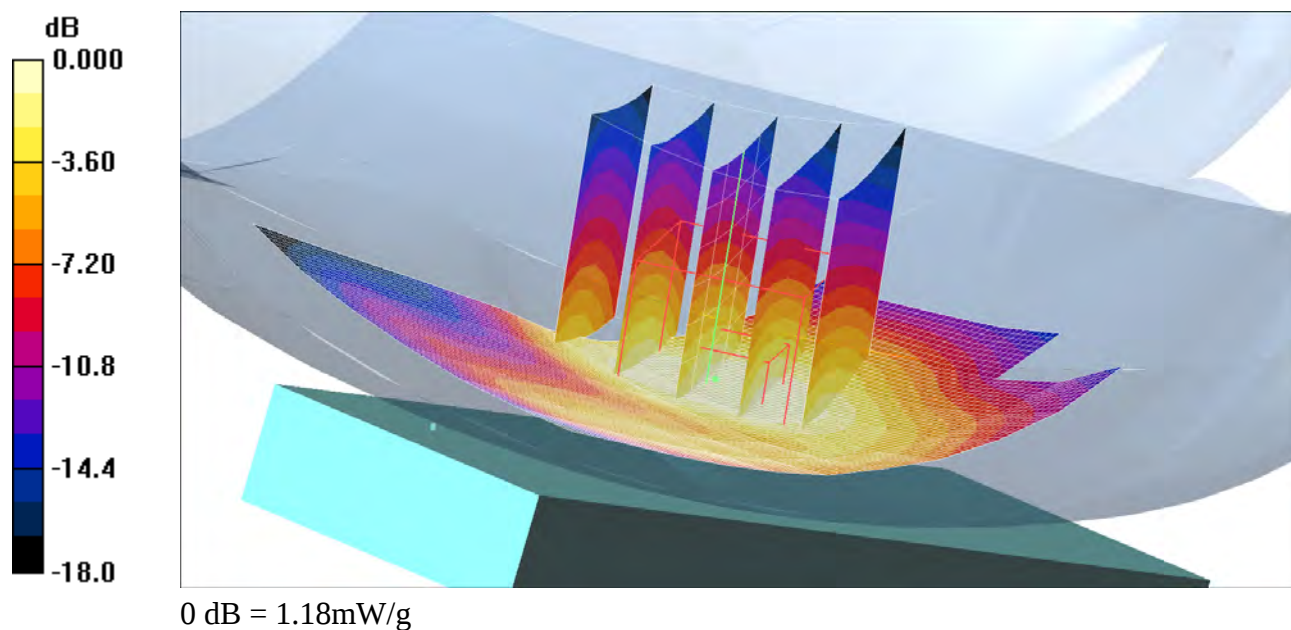
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = 0.102 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.638 mW/g

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



Date/Time: 11/27/2008 1:15:34 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-RightHandSide-UMTS5-Tilt-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(5.89, 5.89, 5.89); Calibrated: 3/11/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.465 mW/g

Tilt position - Middle- Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

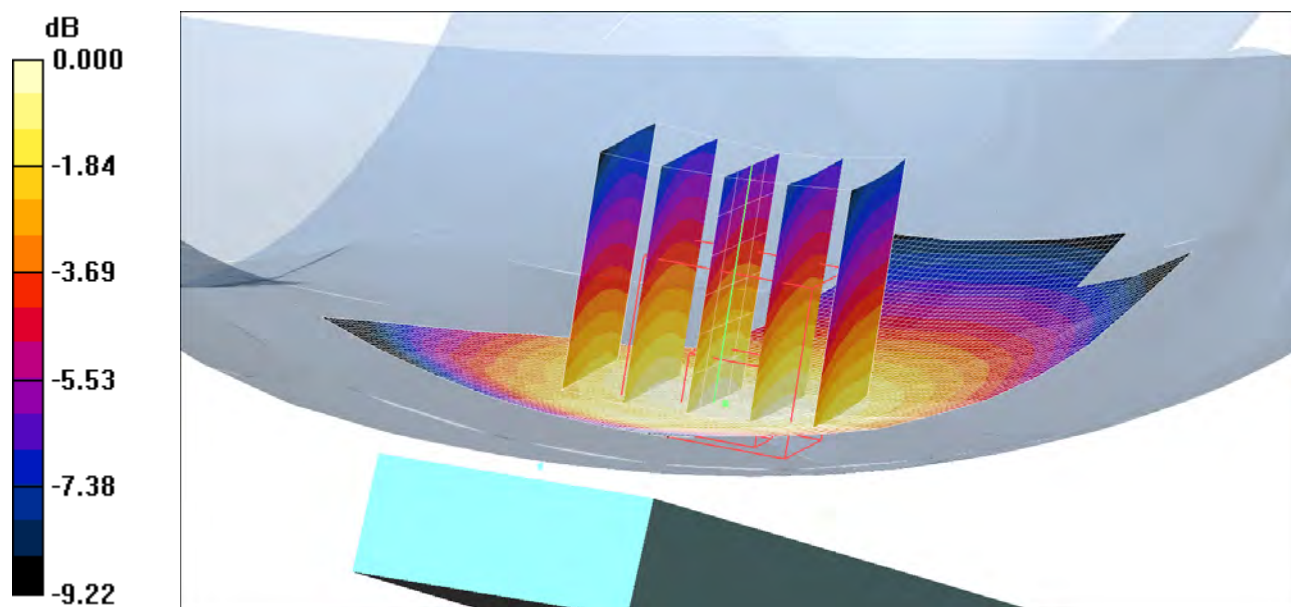
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.8 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.547 W/kg

SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.326 mW/g

Maximum value of SAR (measured) = 0.464 mW/g



0 dB = 0.464mW/g

Date/Time: 11/27/2008 1:00:17 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-RightHandSide-UMTS5-touch-Middle**DUT: Rika; Type: DUT; Serial: #13877**

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(5.89, 5.89, 5.89); Calibrated: 3/11/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.737 mW/g

Touch position - Middle- Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

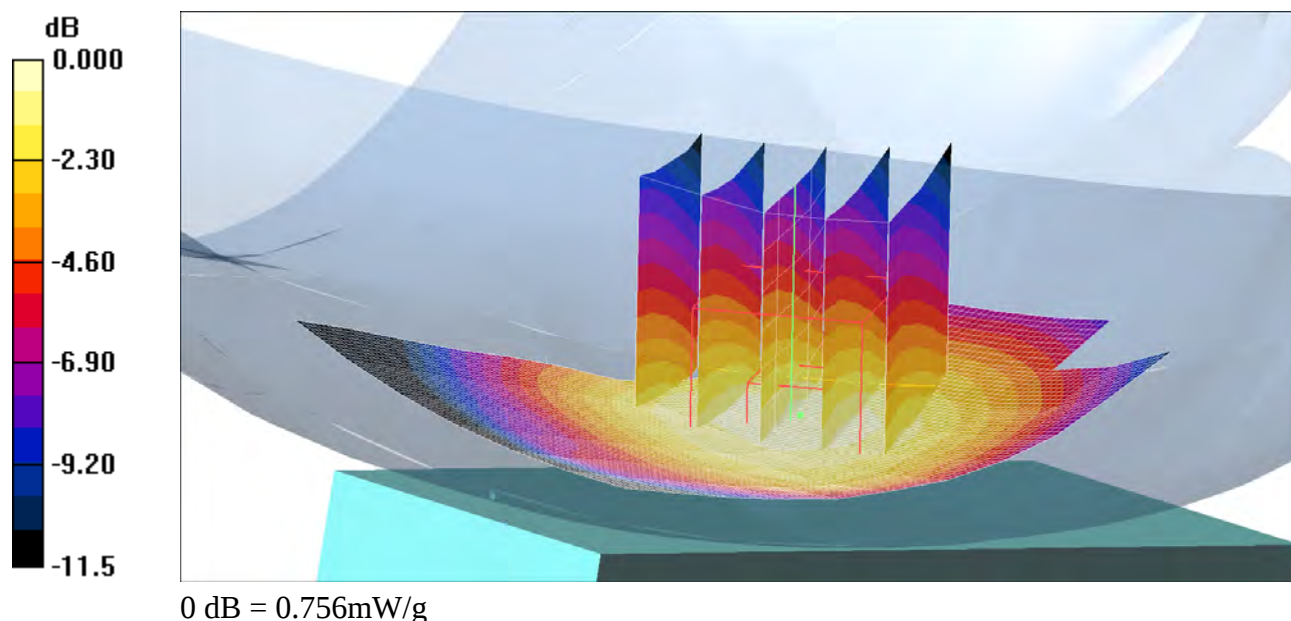
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.7 V/m; Power Drift = 0.085 dB

Peak SAR (extrapolated) = 0.977 W/kg

SAR(1 g) = 0.694 mW/g; SAR(10 g) = 0.489 mW/g

Maximum value of SAR (measured) = 0.756 mW/g



Date/Time: 11/25/2008 11:26:45 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-RightHandSide-WLAN-Slider Closed-Touch-Low**DUT: Rika; Type: DUT; Serial: #13799**

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(4.38, 4.38, 4.38); Calibrated: 3/11/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.237 mW/g

Touch position - Bottom - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

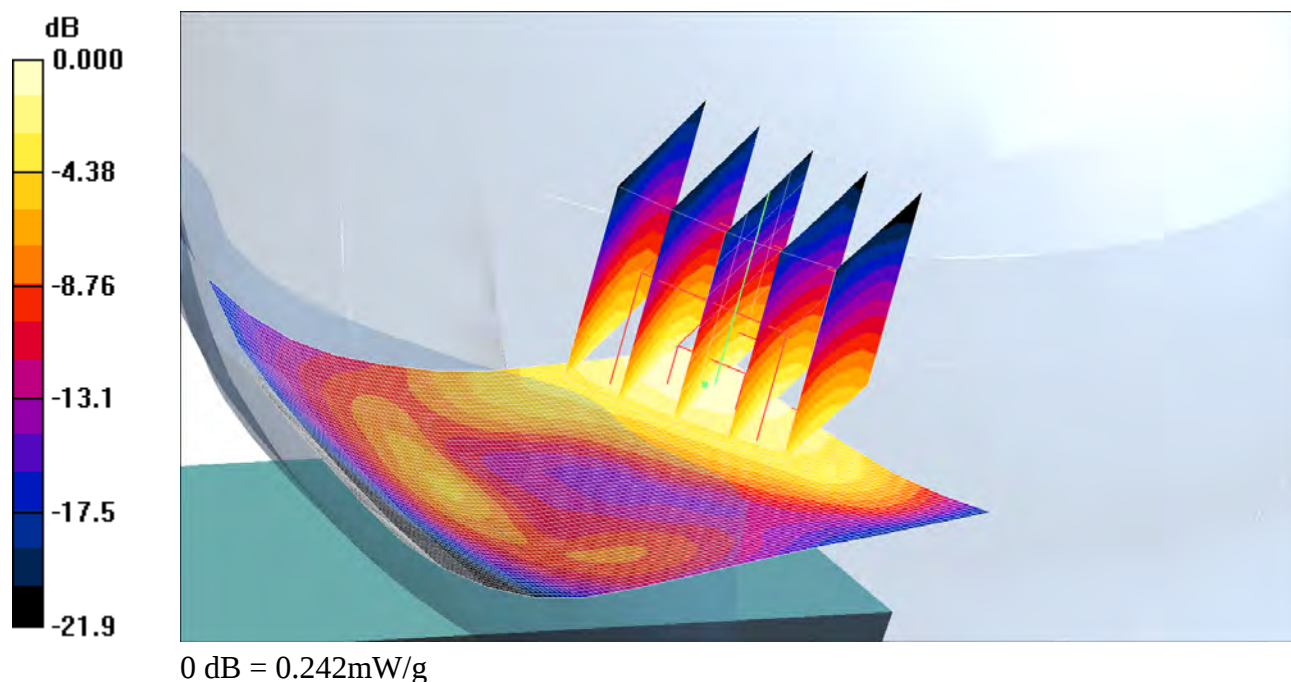
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.39 V/m; Power Drift = -0.338 dB

Peak SAR (extrapolated) = 0.465 W/kg

SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.102 mW/g

Maximum value of SAR (measured) = 0.242 mW/g



Date/Time: 11/25/2008 11:04:08 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Rika-RightHandSide-WLAN-Tilt-Middle**DUT: Rika; Type:DUT; Serial: #13799**

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

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(4.38, 4.38, 4.38); Calibrated: 3/11/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn798; Calibrated: 3/18/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.170 mW/g

Tilt position - Middle - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

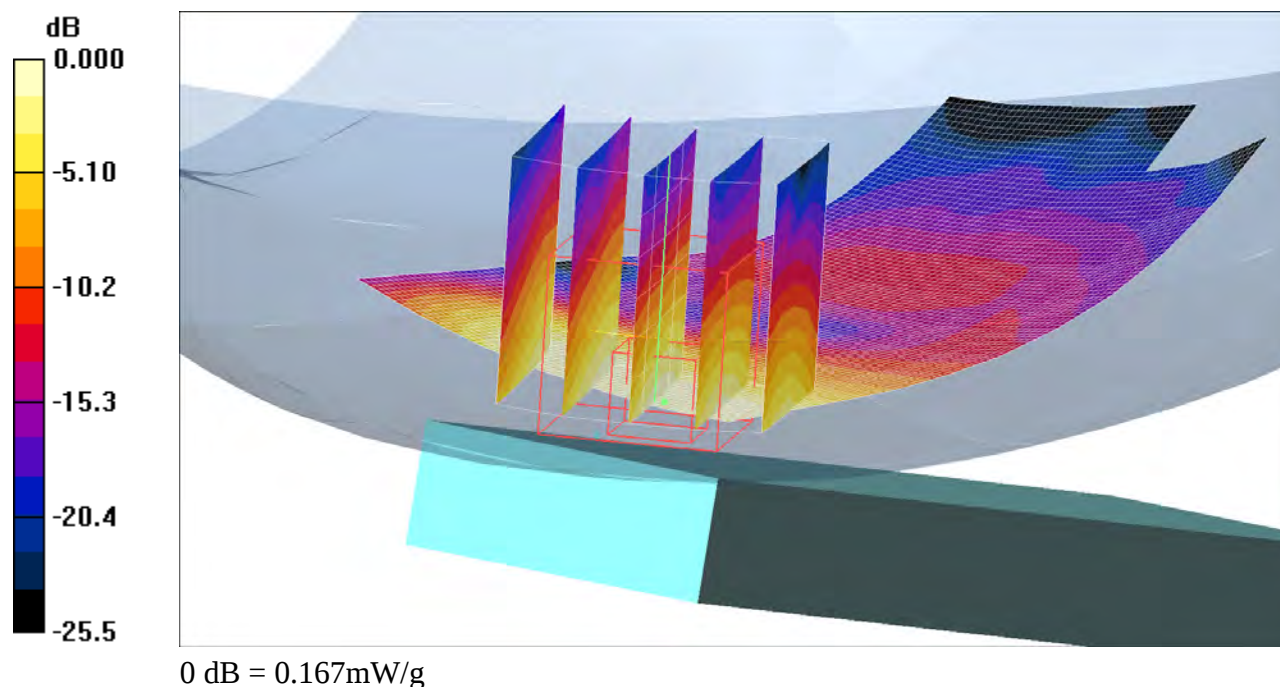
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.05 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 0.317 W/kg

SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.076 mW/g

Maximum value of SAR (measured) = 0.167 mW/g



Date/Time: 12/2/2008 9:16:49 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-02-12-08**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d002**

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

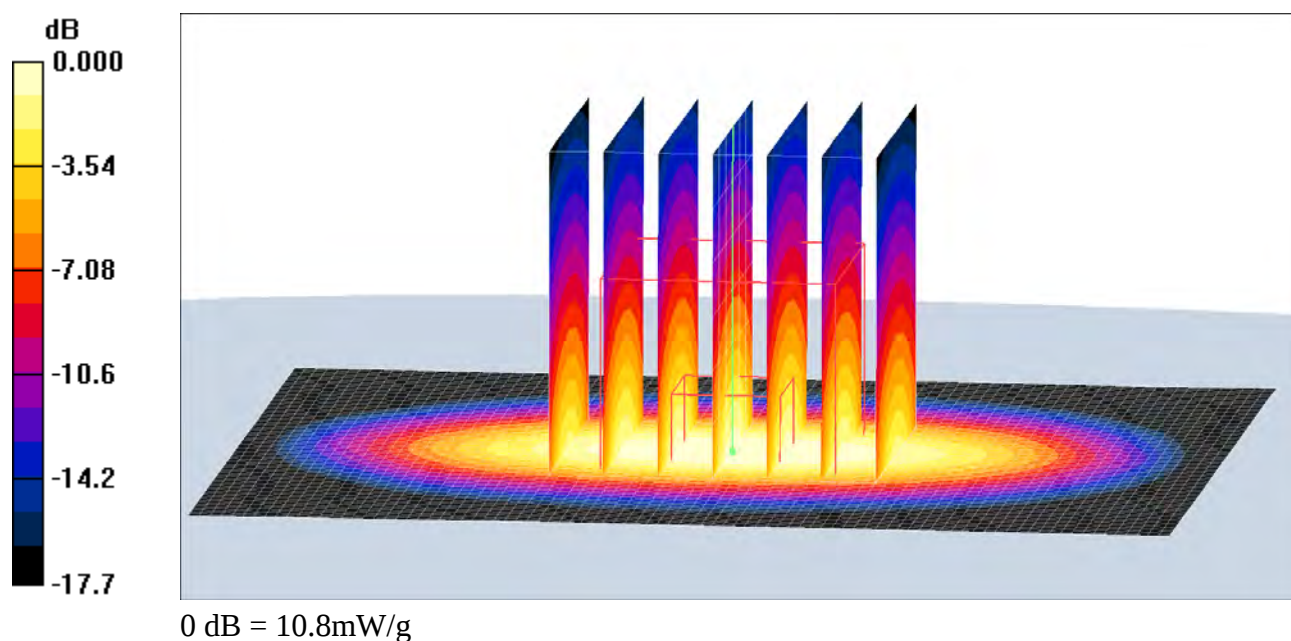
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

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: DAE4 Sn798; Calibrated: 3/18/2008
 - 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 = 91.1 V/m; Power Drift = 0.022 dB
Peak SAR (extrapolated) = 17.3 W/kg
SAR(1 g) = 9.64 mW/g; SAR(10 g) = 5.03 mW/g
Maximum value of SAR (measured) = 10.8 mW/g



Date/Time: 11/14/2008 9:44:08 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-14-11-08**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

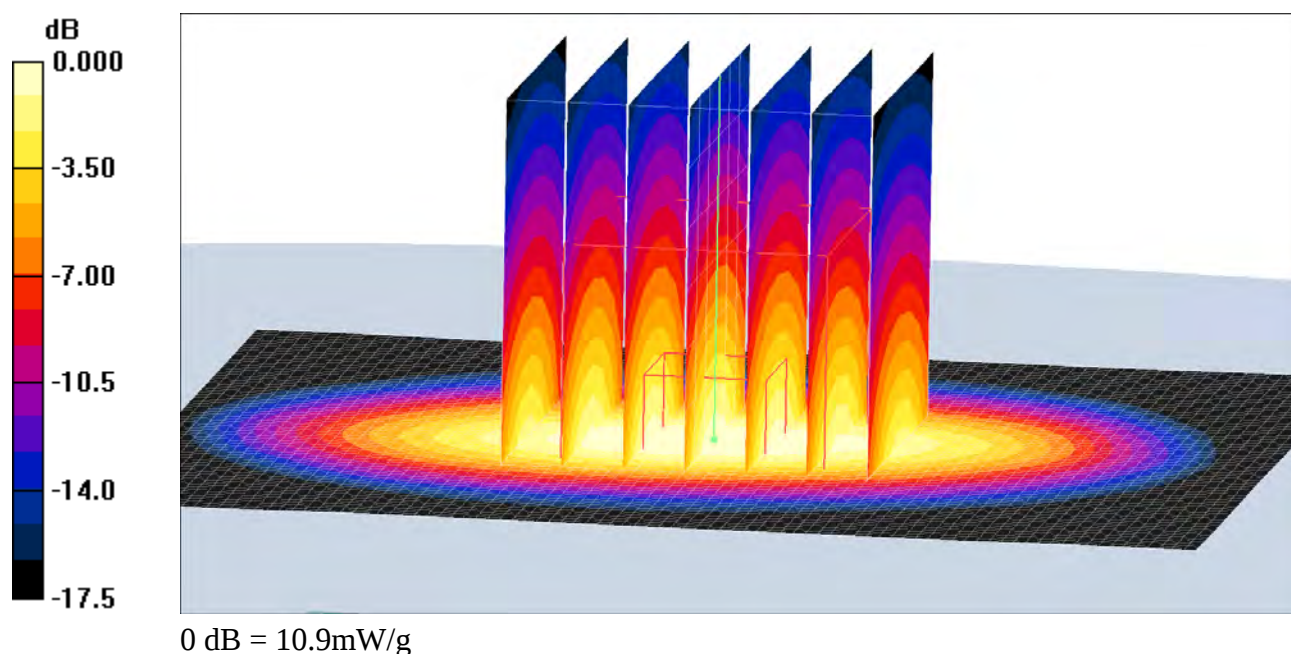
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 38$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn798; Calibrated: 3/18/2008
 - 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) = 10.9 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 91.4 V/m; Power Drift = -0.008 dB
Peak SAR (extrapolated) = 16.6 W/kg
SAR(1 g) = 9.61 mW/g; SAR(10 g) = 5.05 mW/g
Maximum value of SAR (measured) = 10.9 mW/g



Date/Time: 12/2/2008 2:18:06 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-Body-02-12-08**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d002**

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

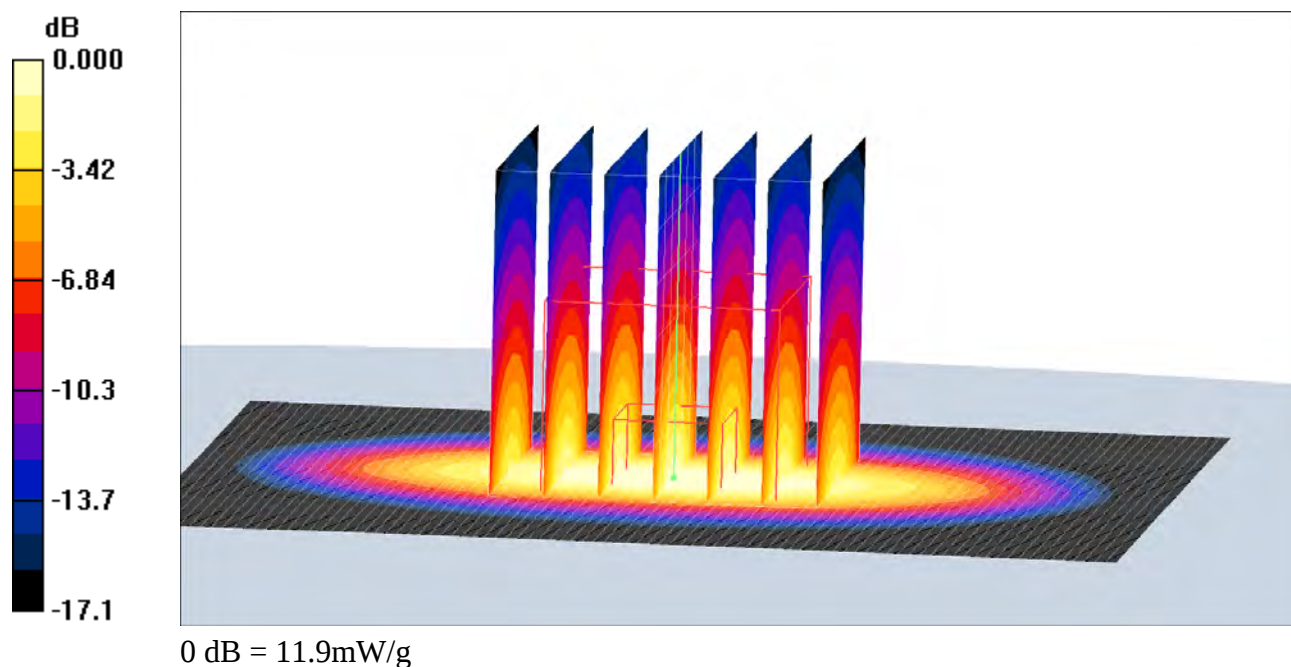
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn798; Calibrated: 3/18/2008
 - 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: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (interpolated) = 11.9 mW/g
d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 92.6 V/m; Power Drift = -0.041 dB
Peak SAR (extrapolated) = 19.0 W/kg
SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.45 mW/g
Maximum value of SAR (measured) = 11.9 mW/g



Date/Time: 11/21/2008 10:03:28 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-Body-21-11-08**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

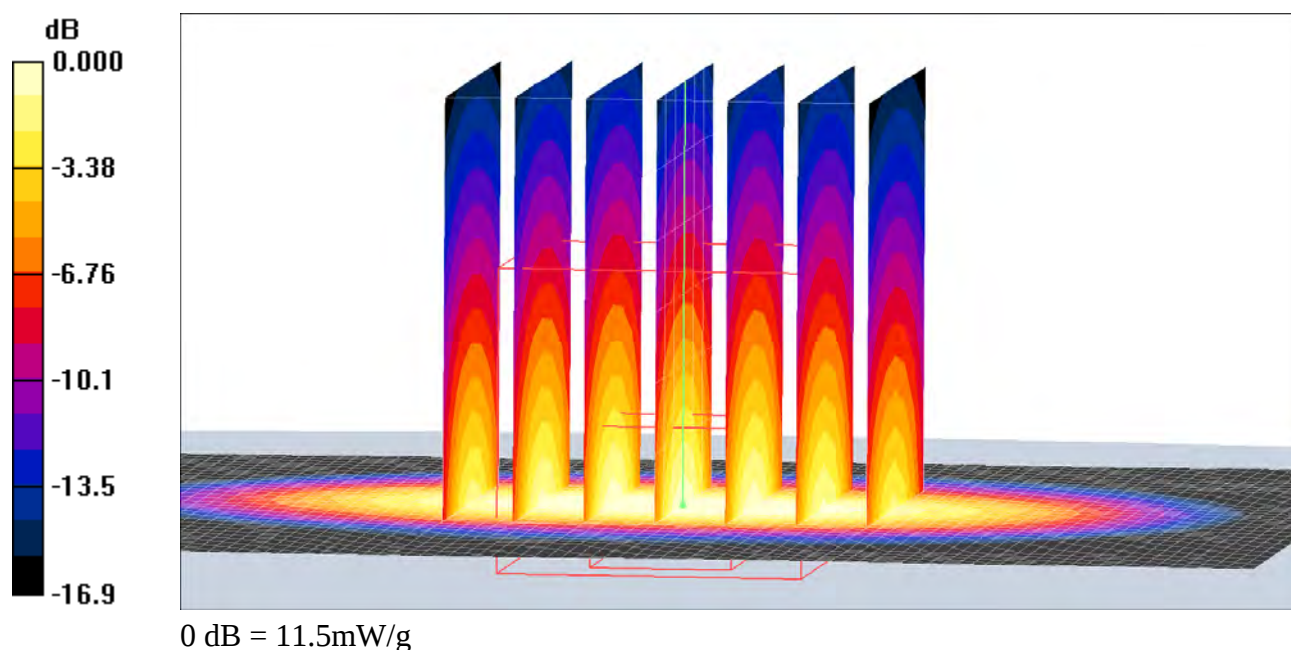
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.59 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn798; Calibrated: 3/18/2008
 - 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) = 11.6 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 89.2 V/m; Power Drift = -0.039 dB
Peak SAR (extrapolated) = 17.8 W/kg
SAR(1 g) = 10.1 mW/g; SAR(10 g) = 5.33 mW/g
Maximum value of SAR (measured) = 11.5 mW/g



Date/Time: 11/25/2008 9:44:46 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D2450-25-11-08**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

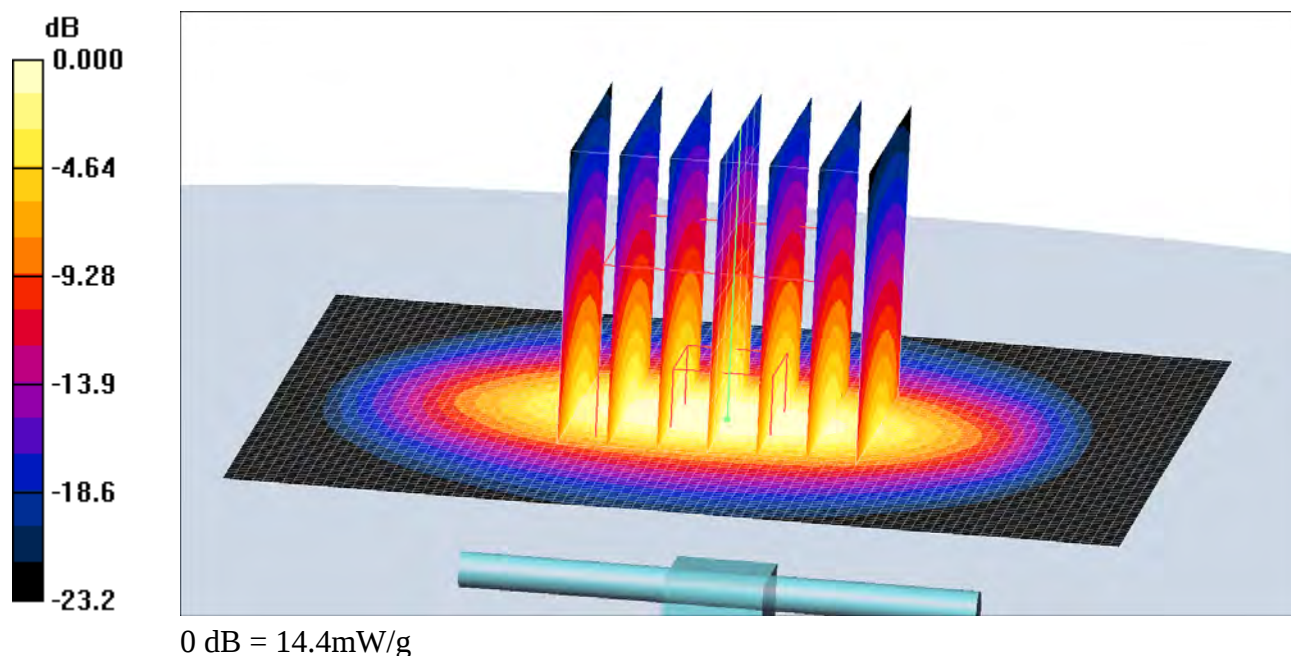
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(4.38, 4.38, 4.38); Calibrated: 3/11/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn798; Calibrated: 3/18/2008
 - 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) = 14.5 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 88.8 V/m; Power Drift = -0.038 dB
Peak SAR (extrapolated) = 28.0 W/kg
SAR(1 g) = 12.6 mW/g; SAR(10 g) = 5.68 mW/g
Maximum value of SAR (measured) = 14.4 mW/g



Date/Time: 10/31/2008 9:09:52 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D2450-31-10-08**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

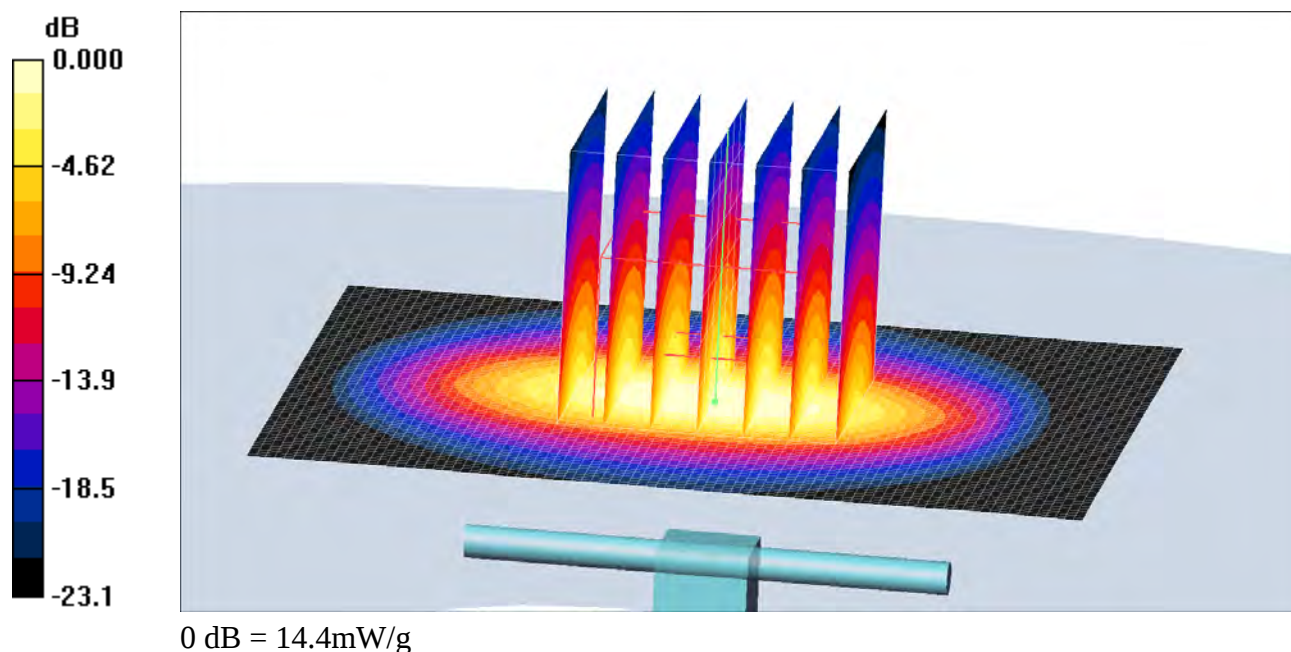
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 37.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(4.38, 4.38, 4.38); Calibrated: 3/11/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn798; Calibrated: 3/18/2008
 - 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) = 14.6 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 88.3 V/m; Power Drift = 0.013 dB
Peak SAR (extrapolated) = 27.8 W/kg
SAR(1 g) = 12.7 mW/g; SAR(10 g) = 5.77 mW/g
Maximum value of SAR (measured) = 14.4 mW/g



Date/Time: 11/25/2008 2:05:54 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D2450-Body-25-11-08**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

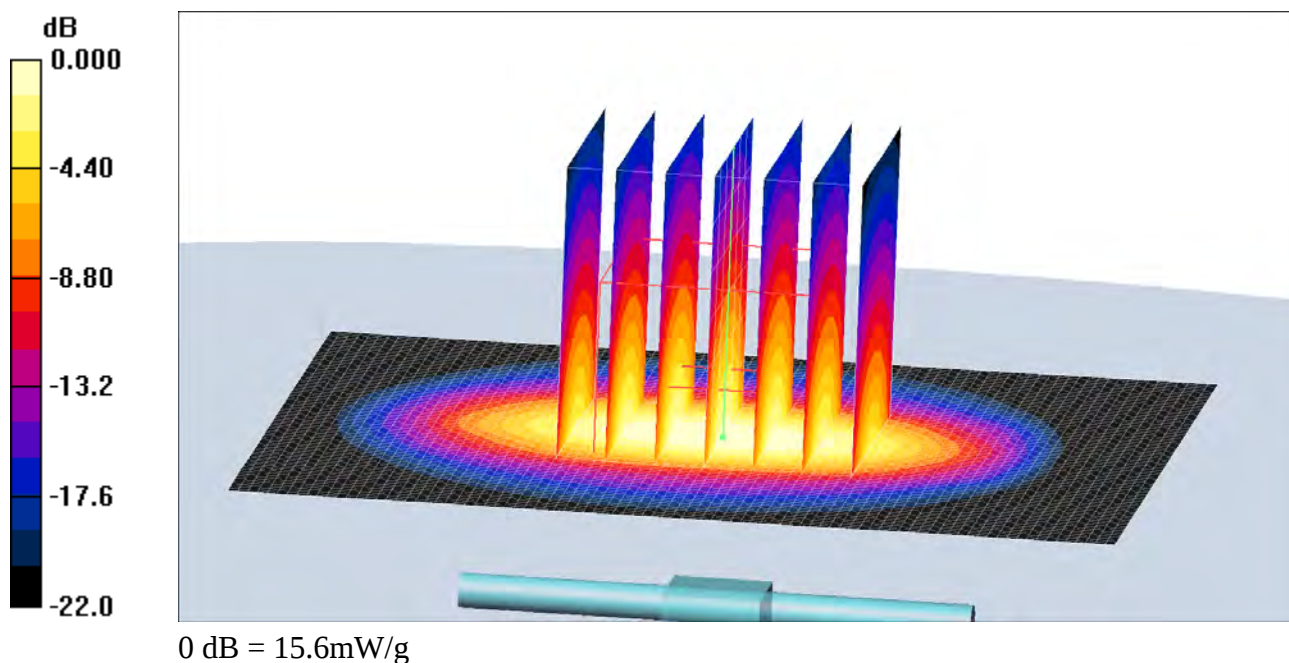
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(4.09, 4.09, 4.09); Calibrated: 3/11/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn798; Calibrated: 3/18/2008
 - 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) = 15.7 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 92.2 V/m; Power Drift = -0.058 dB
Peak SAR (extrapolated) = 27.8 W/kg
SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.16 mW/g
Maximum value of SAR (measured) = 15.6 mW/g



Date/Time: 12/1/2008 11:28:20 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-1-12-08**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:484**

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

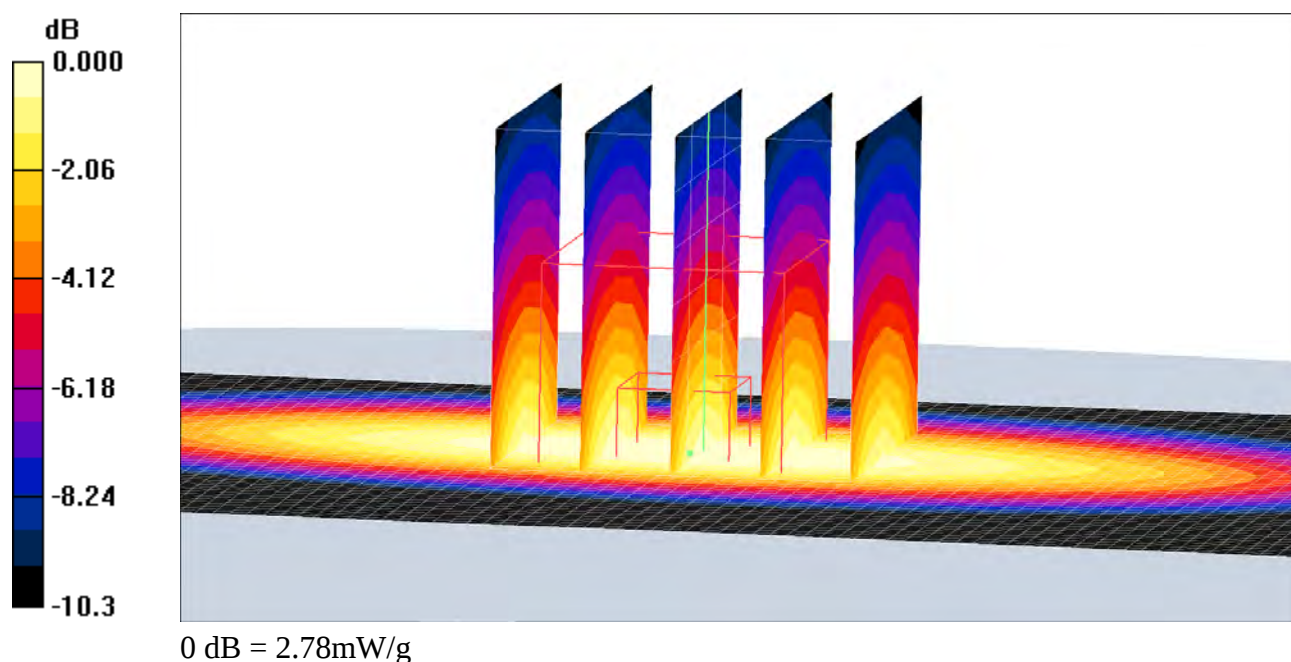
Medium parameters used: $f = 835$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

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: DAE4 Sn798; Calibrated: 3/18/2008
 - 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=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 = 0.026 dB
Peak SAR (extrapolated) = 3.50 W/kg
SAR(1 g) = 2.56 mW/g; SAR(10 g) = 1.7 mW/g
Maximum value of SAR (measured) = 2.78 mW/g



Date/Time: 11/26/2008 9:53:34 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-26-11-08**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

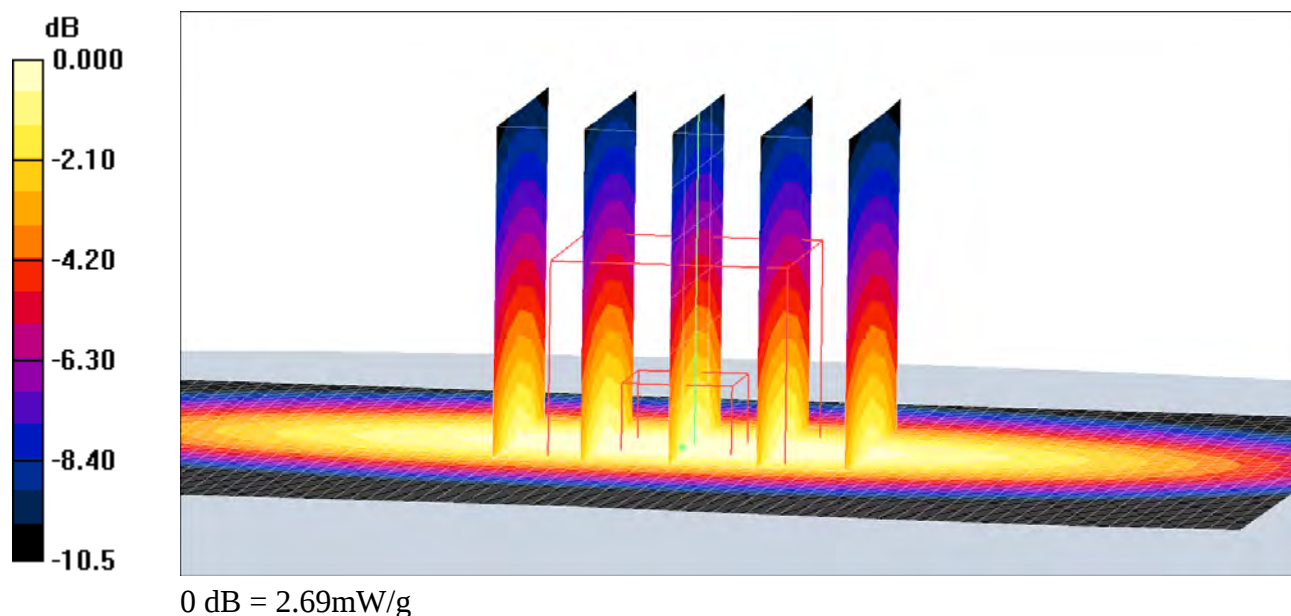
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(5.89, 5.89, 5.89); Calibrated: 3/11/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn798; Calibrated: 3/18/2008
 - Phantom: SAM-2; Type: SAM; Serial: 1025
 - 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) = 2.65 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.7 V/m; Power Drift = -0.041 dB
Peak SAR (extrapolated) = 3.66 W/kg
SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.63 mW/g
Maximum value of SAR (measured) = 2.69 mW/g



Date/Time: 11/27/2008 9:10:28 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-27-11-08**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

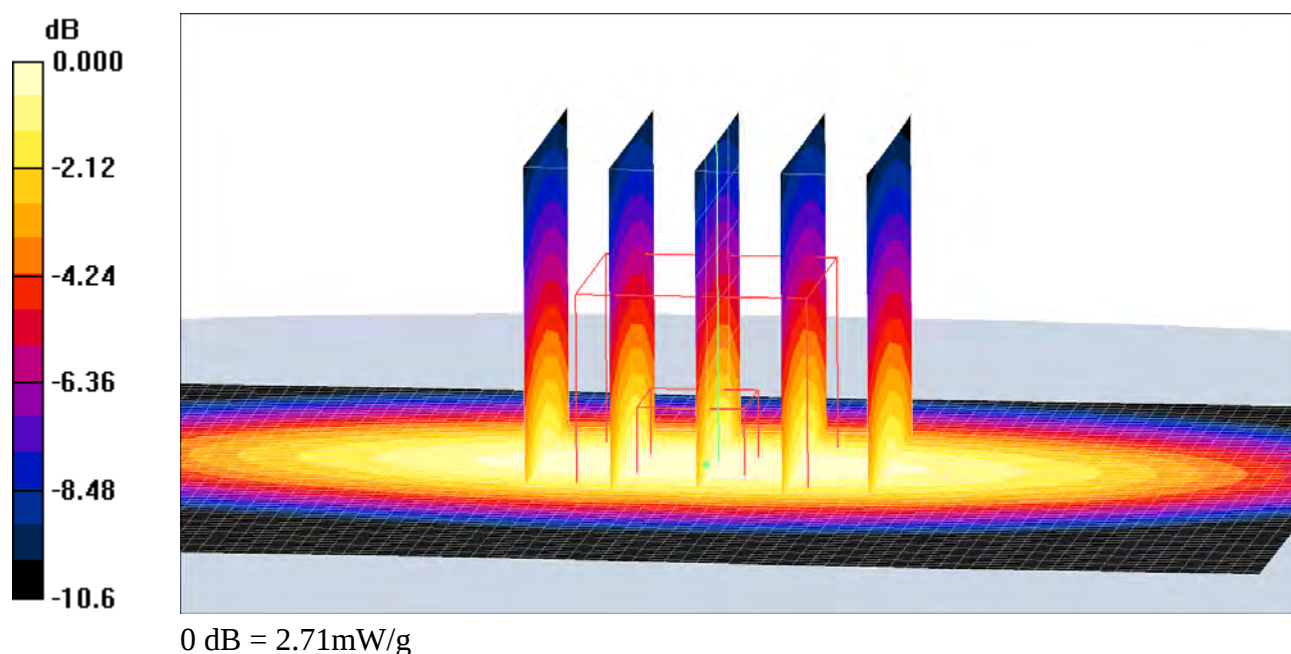
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 41.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3111; ConvF(5.89, 5.89, 5.89); Calibrated: 3/11/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn798; Calibrated: 3/18/2008
 - 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) = 2.69 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.1 V/m; Power Drift = 0.030 dB
Peak SAR (extrapolated) = 3.71 W/kg
SAR(1 g) = 2.52 mW/g; SAR(10 g) = 1.65 mW/g
Maximum value of SAR (measured) = 2.71 mW/g



Date/Time: 11/28/2008 10:24:47 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-Body-28-11-08**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn798; Calibrated: 3/18/2008
 - 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.73 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.1 V/m; Power Drift = 0.004 dB
Peak SAR (extrapolated) = 3.44 W/kg
SAR(1 g) = 2.52 mW/g; SAR(10 g) = 1.67 mW/g
Maximum value of SAR (measured) = 2.73 mW/g

