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BA/SEMC/CCVBAU Robert Carr

Approved

BA/SEMC/CCVBAU Jon Kenny

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Company Internal
REPORT

No.

CVVA10:318.

Date

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Report issued by Accredited SAR Laboratory

for

FCC ID: PY7A3880091 (E15i)

IC: 4170B-A3880091

Date of test: July 07th to July 21st 2010

Laboratory: Sony Ericsson SAR Test Laboratory
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Jon Kenny

Statement of Compliance

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

Sony Ericsson Type AAD-3880091-BV; FCC ID PY7A3880091; IC 4170B-A3880091

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 FCC ID: PY7A3880091 (E15i) 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 Mob Comm. AB
Address:	Nya vattentornet Greenland Lund Sweden
Contact Name:	Adam Al-Mosawi

3 Device Under Test

3.1 Antenna Description

Type	Internal antenna	
Location	Bottom of phone	
Main and BT antennas distance	50 mm	
Dimensions	Max length	18 mm
	Max width	50 mm
Configuration	PIFA	



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3.2 Device Description

Device model	AAD-3880091-BV					
Market name	E15i					
Serial number (EUT #)	CB511JVN88 (#18583) CB511JVMTS (#18693) – WLAN					
Mode	GSM 850			GSM 1900		
Crest factor	8.3			8.3		
Multiple access scheme	TDMA			TDMA		
Channel No.	128	190	251	512	661	885
Measured Power Level [dBm] ¹ (#18583)	33,9	33,9	33,8	31,0	31,0	31,0
Product Maximum power Level [dBm] ¹	34,0	34,0	34,0	31,0	31,0	31,0
Data mode	GPRS			GPRS		
Crest factor	4.15 (2Tx)			4.15 (2Tx)		
Measured Power Level [dBm] ¹ (#18583)	30,8	30,8	30,8	28,5	28,5	28,5
Product Maximum power Level [dBm] ¹	31,0	31,0	31,0	28,5	28,5	28,5
Crest factor	3.1125 (3Tx)			3.1125 (3Tx)		
Measured Power Level [dBm] ¹ (#18583)	28,8	28,8	28,8	26,4	26,4	26,5
Product Maximum power Level [dBm] ¹	29,0	29,0	29,0	26,5	26,5	26,5
Crest factor	2.075 (4Tx)			2.075 (4Tx)		
Measured Power Level [dBm] ¹ (#18583)	26,8	26,8	26,8	25,0	25,0	25,0
Product Maximum power Level [dBm] ¹	27,0	27,0	27,0	25,0	25,0	25,0
Data mode	EDGE			EDGE		
Crest factor	4.15 (2Tx)			4.15 (2Tx)		
Measured Power Level [dBm] ¹ (#18583)	27,5	27,5	27,5	26,9	26,9	27,0
Product Maximum power Level [dBm] ¹	28,0	28,0	28,0	27,0	27,0	27,0
Crest factor	3.1125 (3Tx)			3.1125 (3Tx)		
Measured Power Level [dBm] ¹ (#18583)	25,4	25,4	25,4	25,0	25,0	25,0
Product Maximum power Level [dBm] ¹	26,0	26,0	26,0	25,0	25,0	25,0
Crest factor	2.075 (4Tx)			2.075 (4Tx)		
Measured Power Level [dBm] ¹ (#18583)	23,3	23,3	23,3	23,0	23,0	23,0
Product Maximum power Level [dBm] ¹	24,0	24,0	24,0	23,0	23,0	23,0
Transmitting frequency range [MHz]	824.0 - 849.0			1850.0 - 1910.0		

¹ These values are supplied by the customer



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GPRS Multislot class	12
EDGE class	12
GPRS Capability class	B
BT class and conducted power	Class 1, 10 dBm
Prototype or production unit	Preproduction
Hardware Version	AP1
Software version	1.2.A.1.28 (#18583) S_ATP_Delta_0_0_45_7 (#18693) WLAN Sample
Device category	Portable
RF exposure environment	General population / uncontrolled

WLAN Output Power					
Mode	Max Output Power ¹ (dBm)	Factory Tolerance ¹ (dB)	EUT (#18693) Measured Ave Power (dBm) ¹		
			Ch 1	Ch 6	Ch 11
802.11b 1Mbit/sec	18.0	1	17.4	17.2	17.8
802.11b 2Mbit/sec			17.6	17.6	17.9
802.11b 5.5Mbit/sec			17.5	17.4	17.7
802.11b 11Mbit/sec			17.3	17.4	17.8
802.11g 6Mbit/sec	16.5	1	15.5	15.7	15.8
802.11g 9Mbit/sec			15.7	15.7	15.7
802.11g 12Mbit/sec			15.6	15.6	15.7
802.11g 18Mbit/sec			15.6	15.7	15.7
802.11g 24Mbit/sec			15.1	15.2	15.1
802.11g 36Mbit/sec			15.1	15.1	15.2
802.11g 48Mbit/sec	15.0	1	13.9	14.0	14.5
802.11g 54Mbit/sec			14.2	14.1	14.5

Mode	Factory Tolerance ¹ (dB)	EUT (#18693) Measured Peak Power (dBm) ¹		
		Ch 1	Ch 6	Ch 11
802.11b 1Mbit/sec	1	19.4	19.6	19.7
802.11b 2Mbit/sec		19.3	19.6	19.9
802.11b 5.5Mbit/sec		19.5	19.5	19.7
802.11b 11Mbit/sec		19.4	19.7	19.9
802.11g 6Mbit/sec		24.3	24.7	24.5
802.11g 9Mbit/sec		24.3	24.6	24.5
802.11g 12Mbit/sec		24.2	24.6	24.4
802.11g 18Mbit/sec		24.3	24.7	24.6
802.11g 24Mbit/sec		23.6	23.5	23.5
802.11g 36Mbit/sec		23.7	23.7	23.5
802.11g 48Mbit/sec		23.0	22.9	23.1
802.11g 54Mbit/sec		23.3	23.0	22.9

The WLAN power values in the SAR report are conducted values.

¹ These values are supplied 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	448	2010-11
E-field probe ET3DV6	1611	2010-12
Dipole Validation Kit, D835V2	442	2010-12
Dipole Validation Kit, D1900V2	539	2010-12
Dipole Validation Kit, D2450V2	721	2010-12

4.2 Additional equipment

Description	Inventory Number	Due Date
Signal generator HP E4433B	1.045	2011-04
Directional coupler HP778D	15.233	None
Power meter R&S NRVD	4.073	2011-04
Power sensor R&S NRV-Z5	4.074	2011-04
Power sensor R&S NRV-Z5	4.076	2011-04
Network analyzer Agilent 8719D	2.022	2011-04
Dielectric probe kit HP8507C	14.046	Self Cal
R&S CMU200	20010943	2011-04
Signal generator HP SMY02	3.110	2011-04
Directional coupler HP778D	FB000506	None
Power meter R&S NRVD	FB000511	2011-04
Power sensor R&S NRV-Z5	FB000512	2011-04
Power sensor R&S NRV-Z5	FB000513	2011-04
R&S CMU200	FB000540	2011-04
DASY4 DAE3	432	2011-05
E-field probe ET3DV6	1583	2010-11

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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, 2010-07-07	41.74	0.88	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2010-07-07	53.19	0.98	1.00
		Recommended	55.20	0.97	1.00
1900	Head	Measured, 2010-07-09	38.33	1.46	1.00
		Recommended	40.00	1.40	1.00
1900	Body	Measured, 2010-07-14	50.68	1.56	1.00
		Recommended	53.30	1.52	1.00
2450	Head	Measured, 2010-07-20	37.74	1.87	1.00
		Recommended	39.20	1.80	1.00
2450	Body	Measured, 2010-07-20	50.13	1.98	1.00
		Recommended	52.70	1.95	1.00

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6 System accuracy verification

A system accuracy verification of the DASY4 was performed using the dipole validation kit listed in section 4.1. The system verification test was conducted on the same day as the measurement of the DUT. The ambient humidity and temperature of test facility were kept between the range 30-70% and 20.0-25.0 °C respectively. RF noise 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, 2010-07-07	9.92	41.74	0.88	1.00	21.9
		Recommended	9.34	41.50	0.90	1.00	22.0
835	Body	Measured, 2010-07-07	10.32	53.19	0.98	1.00	20.0
		Recommended	9.85	55.20	0.97	1.00	22.0
1900	Head	Measured, 2010-07-09	38.48	38.33	1.46	1.00	22.6
		Recommended	38.60	40.00	1.40	1.00	22.0
1900	Body	Measured, 2010-07-14	37.48	50.68	1.56	1.00	22.3
		Recommended	41.30	53.30	1.52	1.00	22.0
2450	Head	Measured, 2010-07-20	54.80	37.74	1.87	1.00	23.3
		Recommended	54.10	39.20	1.80	1.00	22.0
2450	Body	Measured, 2010-07-19	54.00	50.13	1.98	1.00	23.3
		Recommended	53.10	52.70	1.95	1.00	22.0

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7 SAR measurement uncertainty**SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880091 (E15i) phone
According to IEEE 1528**

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



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8 Test results

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

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

For body measurement the DUT was tested with the back (antenna) and front(display) towards the phantom flat section with 15 mm distance in both speech and data mode. For all modes, the device was tested at the lowest, middle and highest frequencies in the transmission band. For portable hands free (PHF) usage the Sony Ericsson head set HPM-75 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 Peak Output Power ¹ [dBm]	Position	Liquid T [°C]	Measured SAR [W/Kg]	
					Left-hand 1g mass	Right-hand 1g mass
GSM 850	128	33.9	Cheek	21.9	0.17	0.18
			Tilt	21.9	-	-
	190	33.9	Cheek	21.9	0.21	0.21
			Tilt	21.9	0.15	0.15
	251	33.8	Cheek	21.9	0.28	0.26
			Tilt	21.9	-	-
GSM1900	512	31.0	Cheek	22.6	0.43	0.52
			Tilt	22.6	-	-
	661	31.0	Cheek	22.6	0.53	0.69
			Tilt	22.6	0.29	0.32
	810	31.0	Cheek	22.6	0.57	0.76
			Tilt	22.6	-	-
WLAN (1Mbps)	1	17.4	Cheek	23.3	0.12	-
			Tilt	23.3	-	0.11
	6	17.2	Cheek	23.3	0.10	0.09
			Tilt	23.3	0.08	0.11
	11	17.8	Cheek	23.3	0.12	-
			Tilt	23.3	-	0.10

Table 1: SAR measurement result for Sony Ericsson PY7A3880091 telephone at highest possible output power. Measured towards the head.

¹ The measured output power values were provided by the customer.



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Band	Channel	Measured Peak Output Power ¹ [dBm]	Position / Mode	Liquid T [°C]	Measured SAR [W/kg] 1g mass
GSM 850	128	30.8	Back / GPRS x2	20.0	0.33
		33.9	Back / Speech	20.0	0.36
	190	30.8	Back / GPRS x2	20.0	0.44
		28.8	Back / GPRS x3	20.0	0.42
		26.8	Back / GPRS x4	20.0	0.36
		33.9	Back / Speech	20.0	0.49
	251	30.8	Back / GPRS x2	20.0	0.60
		33.8	Back / Speech	20.0	0.65
		33.8	Back / PHF	20.0	0.43
		33.8	Front / Speech	20.0	0.18
		27.5	Back / Edge x2	20.0	0.26
GSM 1900	512	28.5	Back / GPRS x2	22.3	0.36
		31.0	Back / Speech	22.3	0.36
	661	28.5	Back / GPRS x2	22.3	0.43
		26.4	Back / GPRS x3	22.3	0.37
		25.0	Back / GPRS x4	22.3	0.37
		31.0	Back / Speech	22.3	0.42
	810	28.5	Back / GPRS x2	22.3	0.50
		31.0	Back / Speech	22.3	0.47
		31.0	Back / PHF	22.3	0.45
		28.5	Front / GPRS x2	22.3	0.24
		27.0	Back / Edge x2	22.3	0.35
WLAN (1Mbps)	1	17.4	Back	23.3	0.08
	6	17.2	Back	23.3	0.06
	11	17.8	Back	23.3	0.05
	1	17.4	Front	23.3	0.03

Table 2: SAR measurement result for Sony Ericsson PY7A3880091 telephone at highest possible output power. Measured towards the body.

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¹ The measured output power values were provided by the customer.

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 KDB648474. "SAR Evaluation Consideration for HANDSETS with Multiple Transmitters and Antenna", April 2008.
- [6] FCC KDB248227. "SAR Measurement procedure for 802.11a/b/g Transmitters", May 2007.

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Appendix

9.1 Photographs of the device under test



Front & Back Open



Sides



Top & Bottom



Back

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9.2 Device position at SAM Twin Phantom



DUT position towards the head: Cheek (touch) position.



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



DUT position towards the body, 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: 7/6/2010 4:03:59 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-06-07-10**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:`442**

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

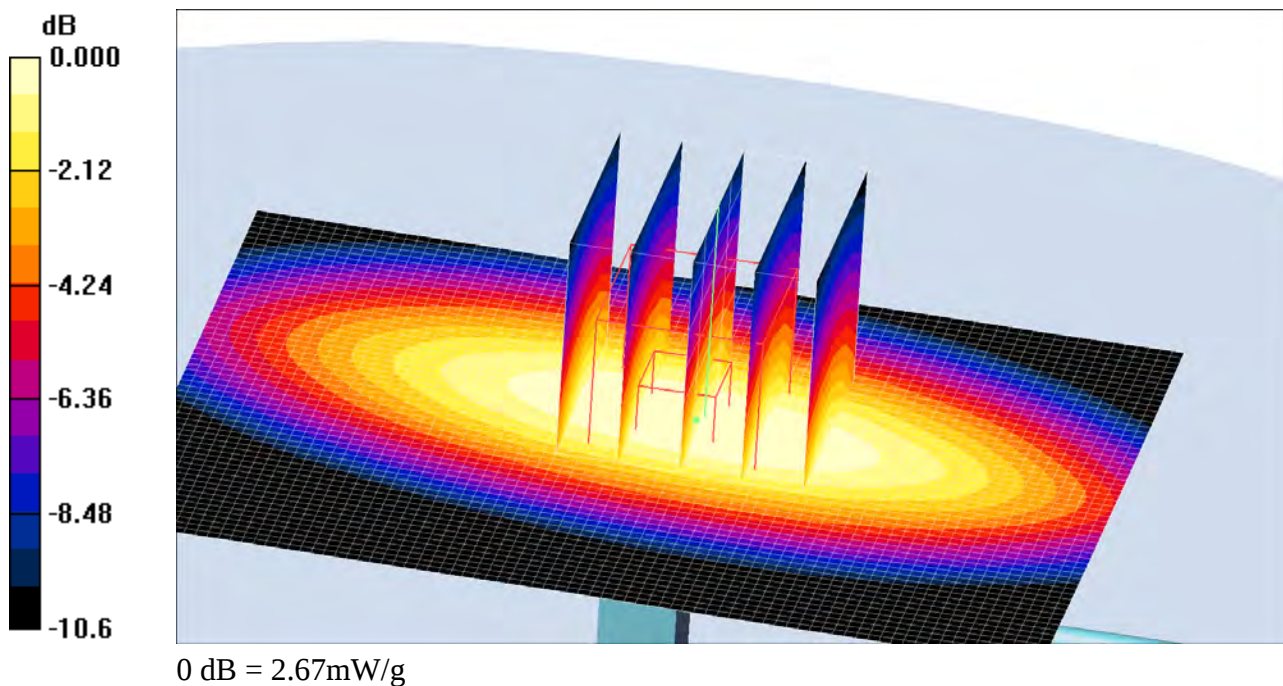
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(6.58, 6.58, 6.58); Calibrated: 12/8/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - 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) = 2.78 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 56.7 V/m; Power Drift = 0.062 dB
Peak SAR (extrapolated) = 3.58 W/kg
SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.63 mW/g
Maximum value of SAR (measured) = 2.67 mW/g



Date/Time: 7/7/2010 11:36:46 AM

Test Laboratory: Sony Ericsson Mobile Communications

Validation 835 Body 7-7-2010**DUT: D835V2 - SN442; Type: D835V2; Serial: D835V2 - SN:442**

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

Medium parameters used: $f = 835.053$ MHz; $\sigma = 0.985$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(6.16, 6.16, 6.16); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Area Scan (101x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.88 mW/g

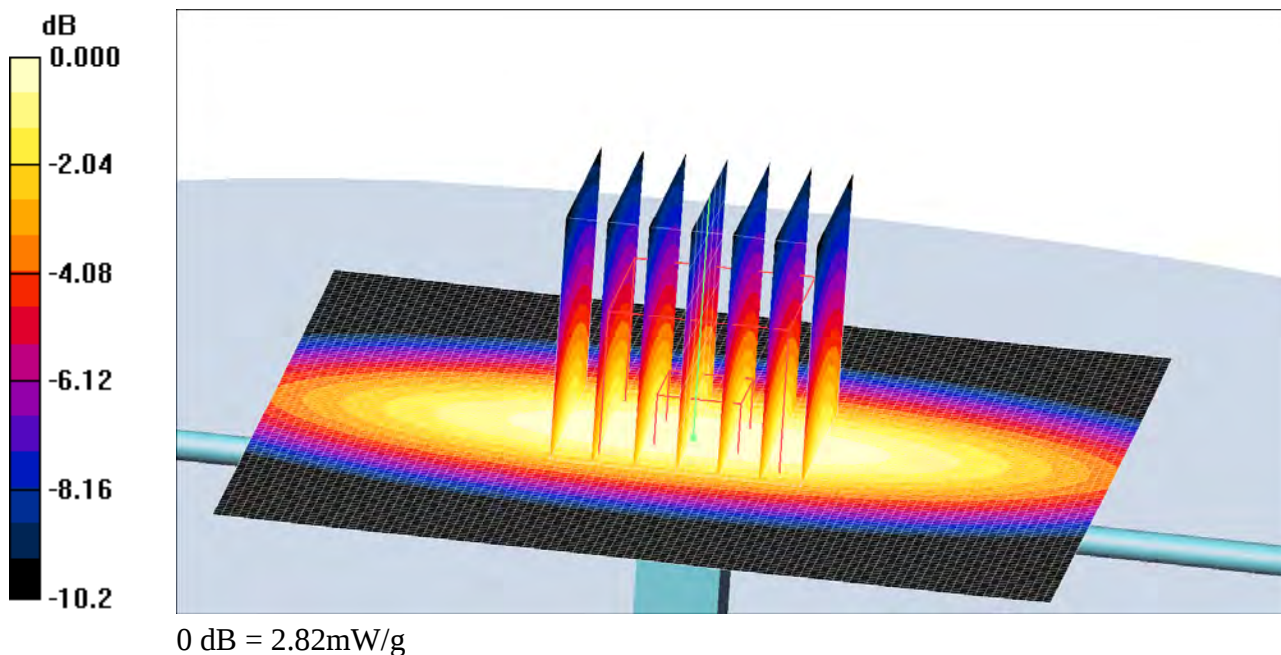
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.8 V/m; Power Drift = -0.160 dB

Peak SAR (extrapolated) = 3.70 W/kg

SAR(1 g) = 2.58 mW/g; SAR(10 g) = 1.7 mW/g

Maximum value of SAR (measured) = 2.82 mW/g



Date/Time: 7/9/2010 8:22:44 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-09-07-10**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

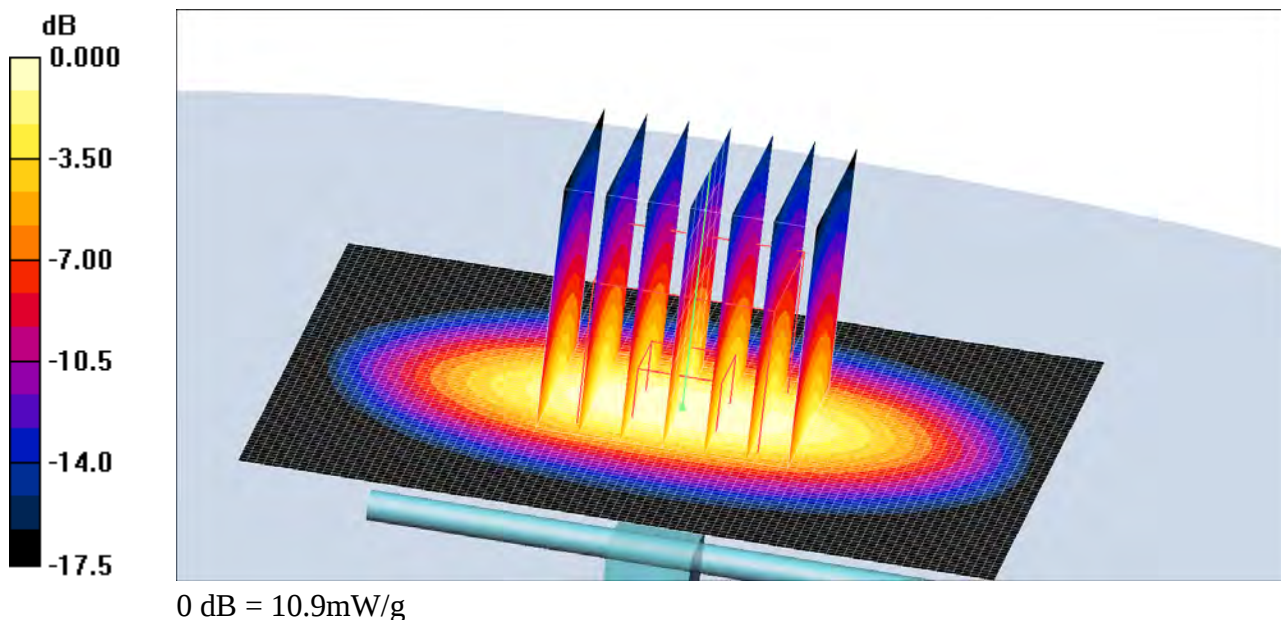
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.18, 5.18, 5.18); Calibrated: 12/8/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - 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 = 91.3 V/m; Power Drift = 0.037 dB
Peak SAR (extrapolated) = 16.7 W/kg
SAR(1 g) = 9.62 mW/g; SAR(10 g) = 5.05 mW/g
Maximum value of SAR (measured) = 10.9 mW/g



Date/Time: 7/14/2010 9:24:22 AM

Test Laboratory: Sony Ericsson Mobile Communications

Validation-D1900-14-07-10**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

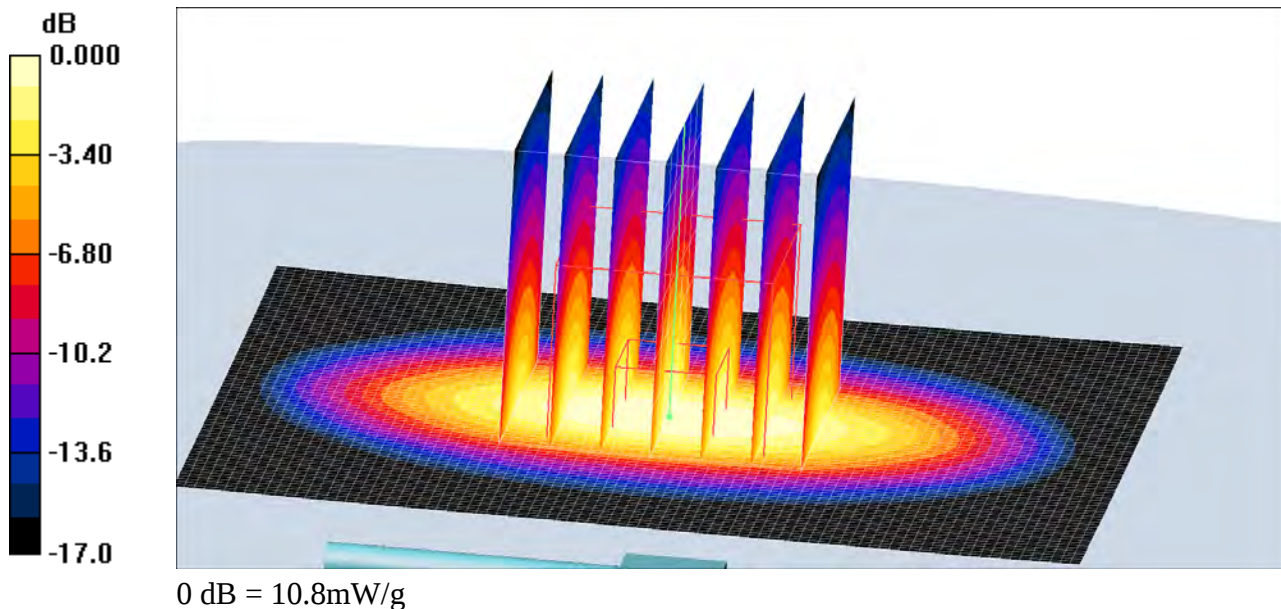
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.66, 4.66, 4.66); Calibrated: 12/8/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
 - Measurement SW: DASY4, V4.7 Build 80; 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) = 10.8 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 89.8 V/m; Power Drift = 0.075 dB
Peak SAR (extrapolated) = 15.2 W/kg
SAR(1 g) = 9.37 mW/g; SAR(10 g) = 4.99 mW/g
Maximum value of SAR (measured) = 10.8 mW/g



Date/Time: 7/20/2010 1:14:00 PM

Test Laboratory: Sony Ericsson Mobile Communications

Validation-D2450-20-07-10**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

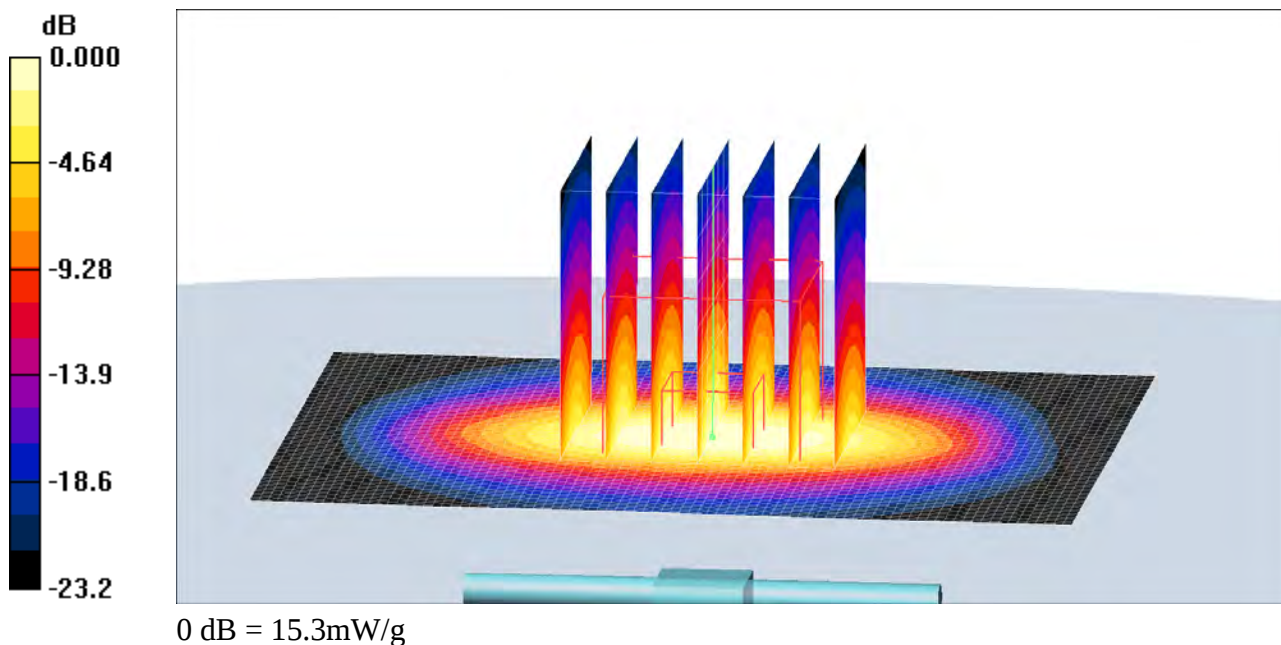
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.57, 4.57, 4.57); Calibrated: 12/8/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: WLAN (Head) SAM with CRP; Type: SAM; Serial:
 - Measurement SW: DASY4, V4.7 Build 80; 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) = 15.8 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.2 V/m; Power Drift = -0.048 dB
Peak SAR (extrapolated) = 29.9 W/kg
SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.22 mW/g
Maximum value of SAR (measured) = 15.3 mW/g



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Test Laboratory: Sony Ericsson Mobile Communications

Validation-D2450-19-07-10**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

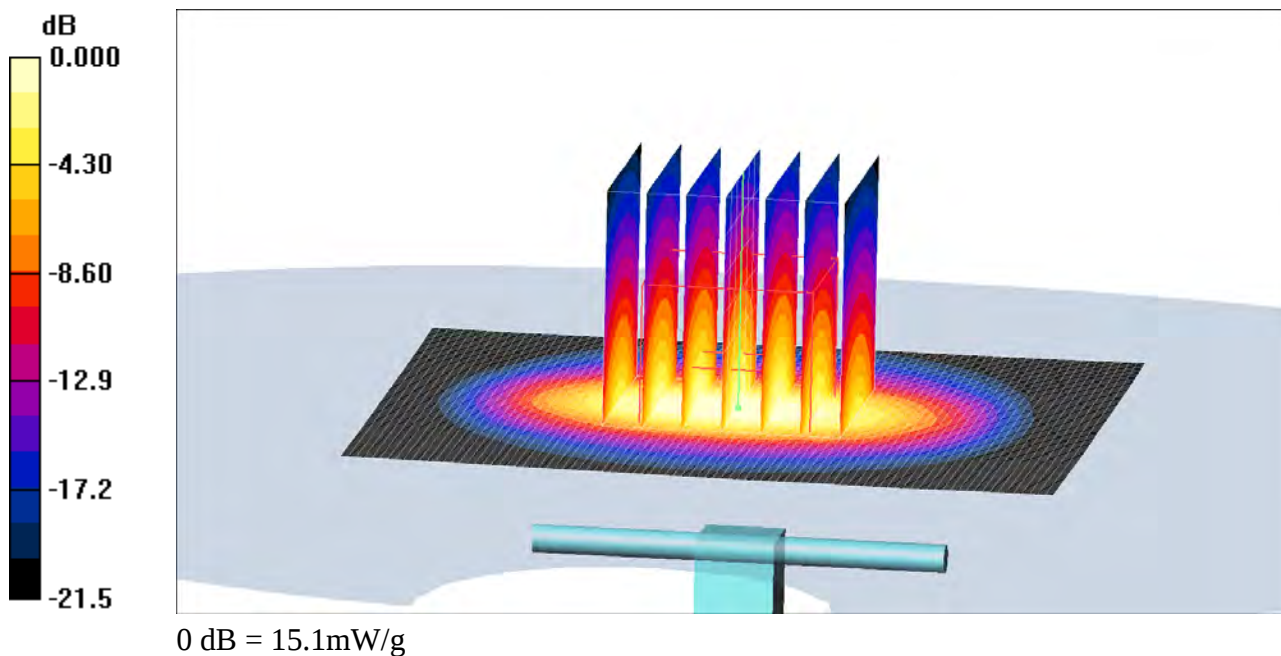
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.19, 4.19, 4.19); Calibrated: 12/8/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: WLAN Body SAM; Type: SAM; Serial:
 - Measurement SW: DASY4, V4.7 Build 80; 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) = 15.5 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 89.8 V/m; Power Drift = 0.044 dB
Peak SAR (extrapolated) = 30.2 W/kg
SAR(1 g) = 13.5 mW/g; SAR(10 g) = 6.23 mW/g
Maximum value of SAR (measured) = 15.1 mW/g



Date/Time: 7/14/2010 1:00:53 PM

Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-Body-Flat15mm-GSM1900-GPRS-2slot-High**DUT: Shakira; Type:DUT; Serial:#18583**

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

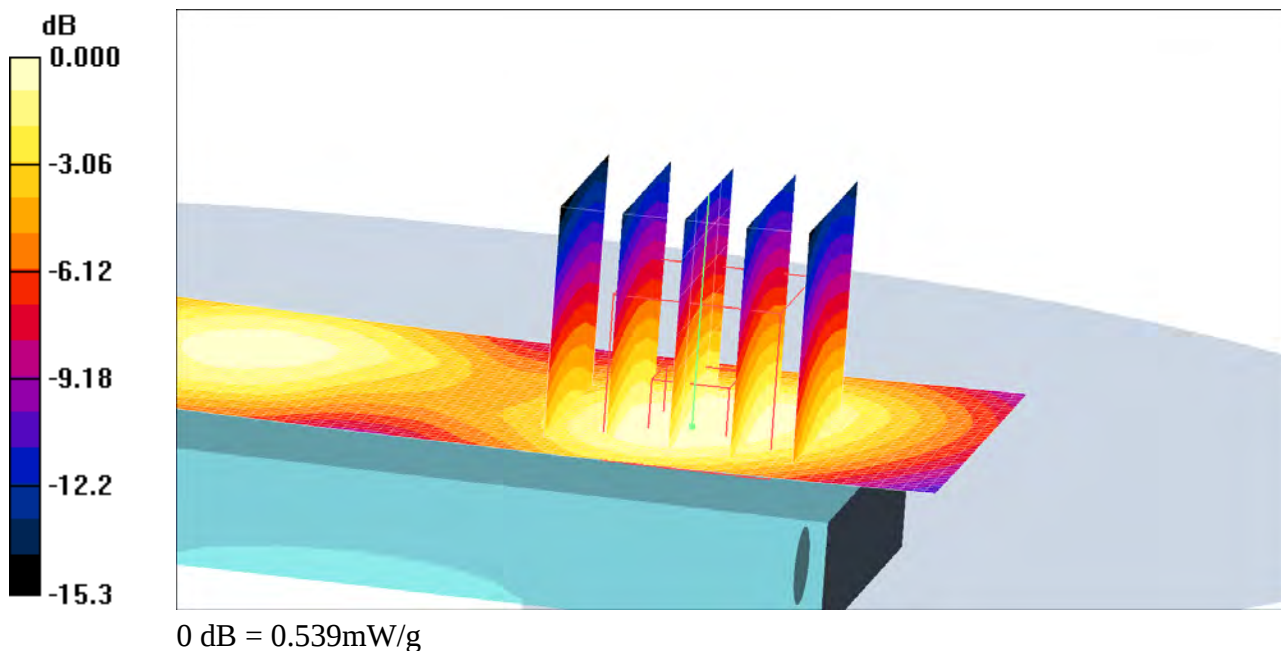
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.66, 4.66, 4.66); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS 2Slot 3/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.543 mW/g **GPRS 2Slot 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 11.7 V/m ; Power Drift = 0.011 dB Peak SAR (extrapolated) = 0.717 W/kg **SAR(1 g) = 0.496 mW/g ; SAR(10 g) = 0.310 mW/g** Maximum value of SAR (measured) = 0.539 mW/g 

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Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-Body-Flat15mm-GSM1900-GPRS-2slot-Low**DUT: Shakira; Type:DUT; Serial:#18583**

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

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.66, 4.66, 4.66); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS 2Slot/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.397 mW/g

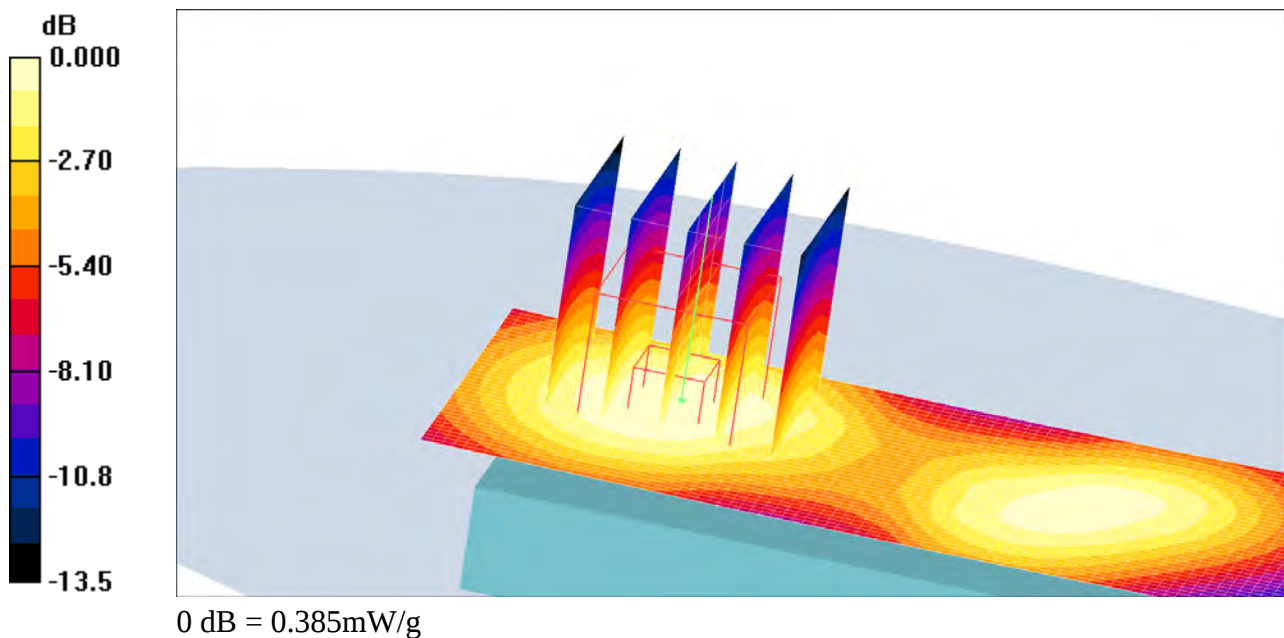
GPRS 2Slot/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 0.479 W/kg

SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.237 mW/g

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



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Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-Body-Flat15mm-GSM1900-GPRS-2slot-Middle**DUT: Shakira; Type:DUT; Serial:#18583**

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

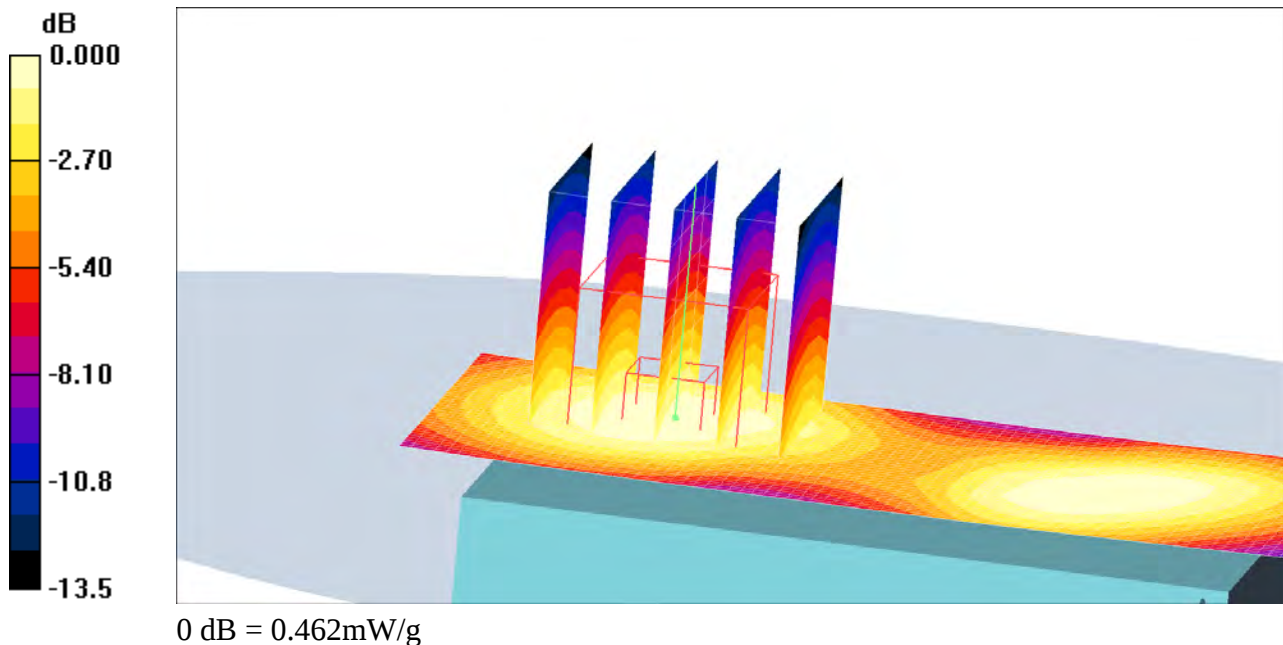
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.66, 4.66, 4.66); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS 2Slot 2/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.471 mW/g **GPRS 2Slot 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 12.0 V/m ; Power Drift = -0.045 dB Peak SAR (extrapolated) = 0.576 W/kg **SAR(1 g) = 0.425 mW/g ; SAR(10 g) = 0.279 mW/g** Maximum value of SAR (measured) = 0.462 mW/g 

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Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-Body-Flat15mm-GSM1900-Speech-High**DUT: Shakira; Type:DUT; Serial:#18583**

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

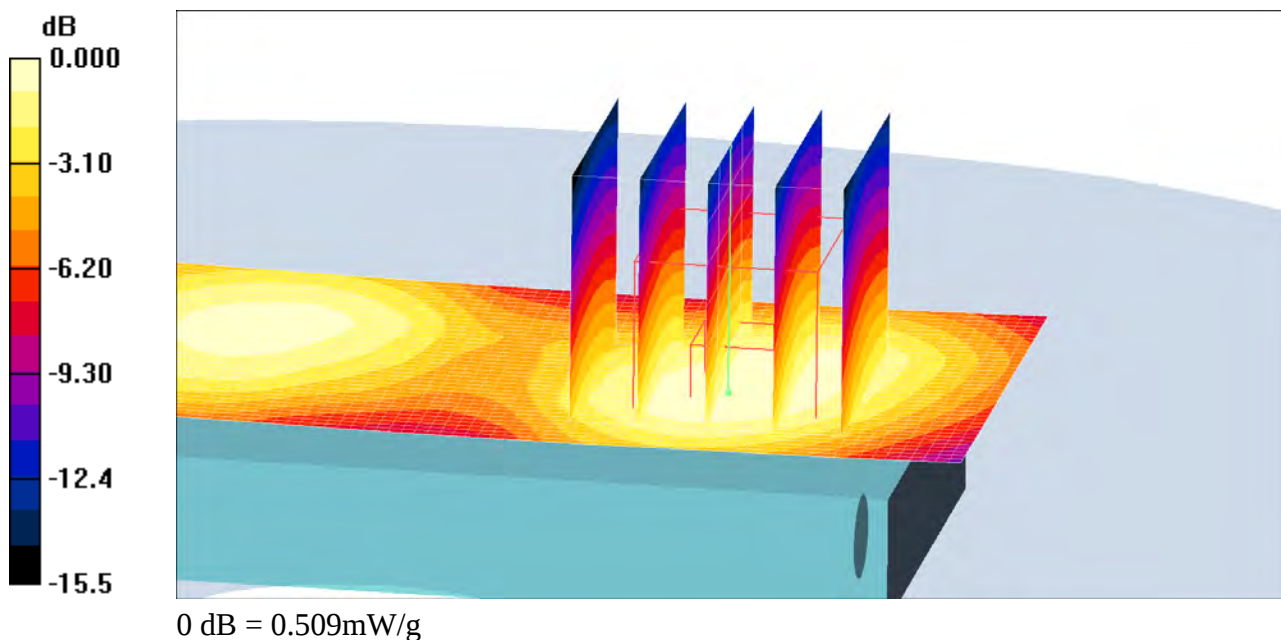
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.66, 4.66, 4.66); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.7 Build 80; 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) = 0.512 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 = 11.7 V/m ; Power Drift = -0.017 dB Peak SAR (extrapolated) = 0.682 W/kg **SAR(1 g) = 0.468 mW/g ; SAR(10 g) = 0.292 mW/g** Maximum value of SAR (measured) = 0.509 mW/g 

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Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-Body-Flat15mm-GSM850-GPRS-2slot-High**DUT: Shakira; Type:DUT; Serial:#18583**

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

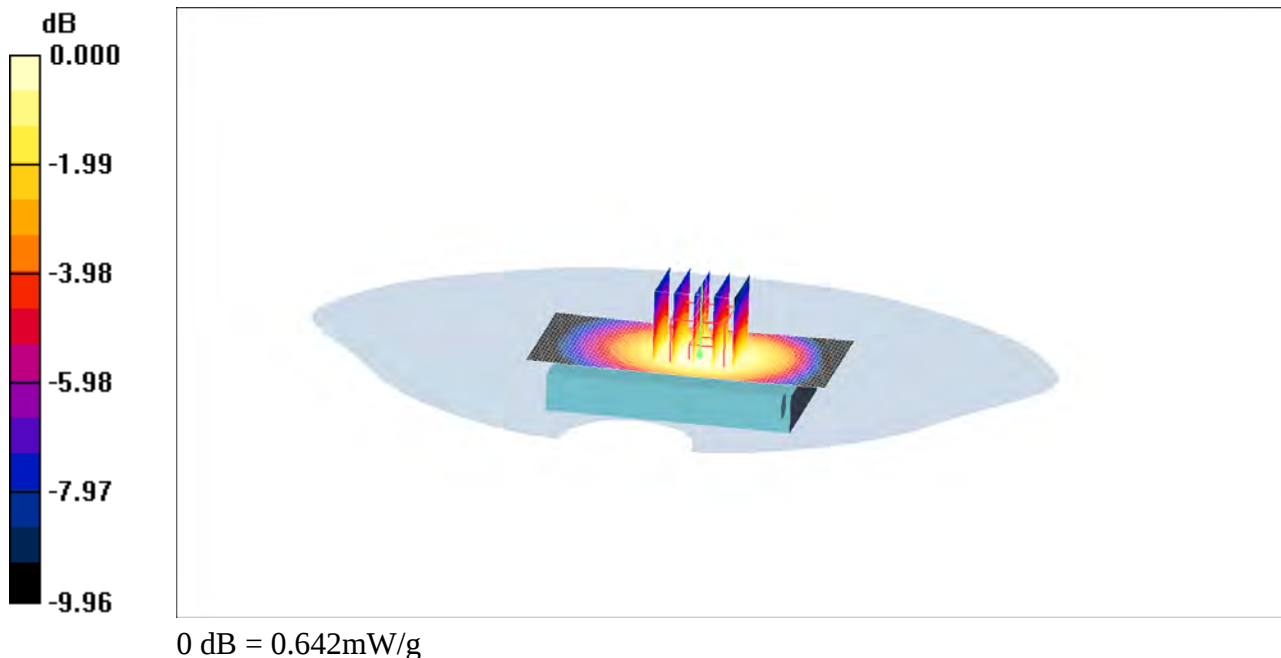
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.999 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(6.16, 6.16, 6.16); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS 2Slot 3/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.631 mW/g **GPRS 2Slot 3/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 = 0.051 dB Peak SAR (extrapolated) = 0.766 W/kg **SAR(1 g) = 0.602 mW/g ; SAR(10 g) = 0.430 mW/g** Maximum value of SAR (measured) = 0.642 mW/g 

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Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-Body-Flat15mm-GSM850-Speech-High**DUT: Shakira; Type:DUT; Serial:#18583**

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

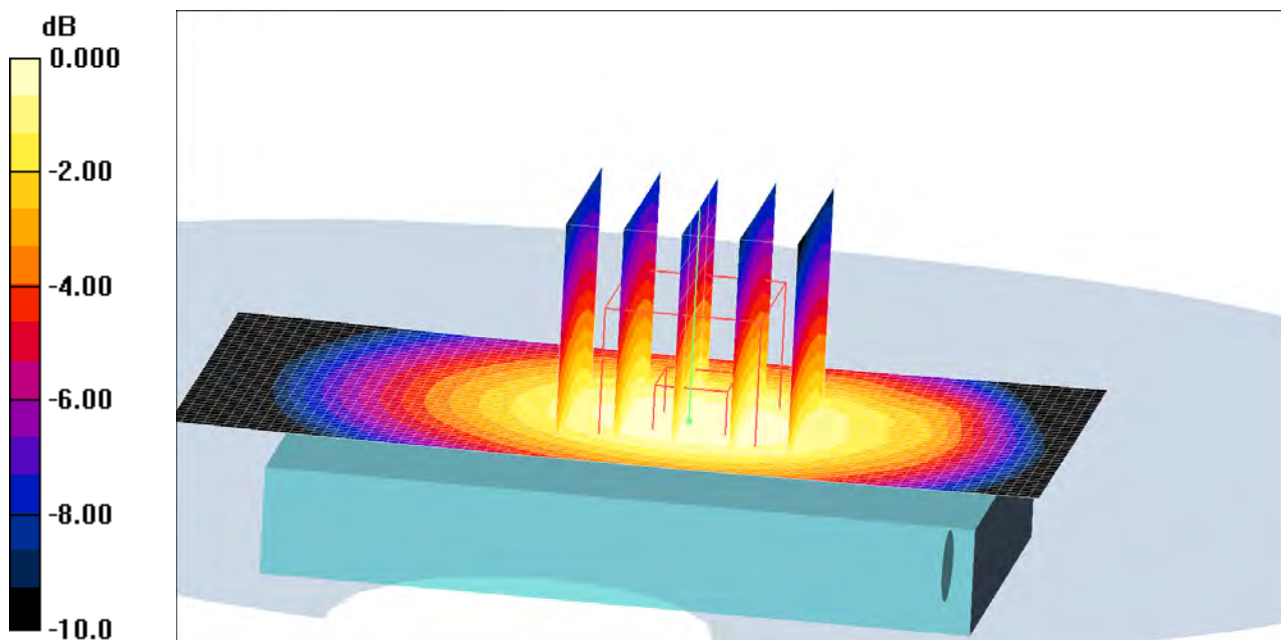
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.999 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(6.16, 6.16, 6.16); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.7 Build 80; 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) = 0.681 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 = 26.5 V/m ; Power Drift = -0.015 dB Peak SAR (extrapolated) = 0.838 W/kg **SAR(1 g) = 0.651 mW/g ; SAR(10 g) = 0.463 mW/g** Maximum value of SAR (measured) = 0.694 mW/g 0 dB = 0.694 mW/g

Date/Time: 7/7/2010 12:31:22 PM

Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-Body-Flat15mm-GSM850-Speech-Low**DUT: Shakira; Type:DUT; Serial:#18583**

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

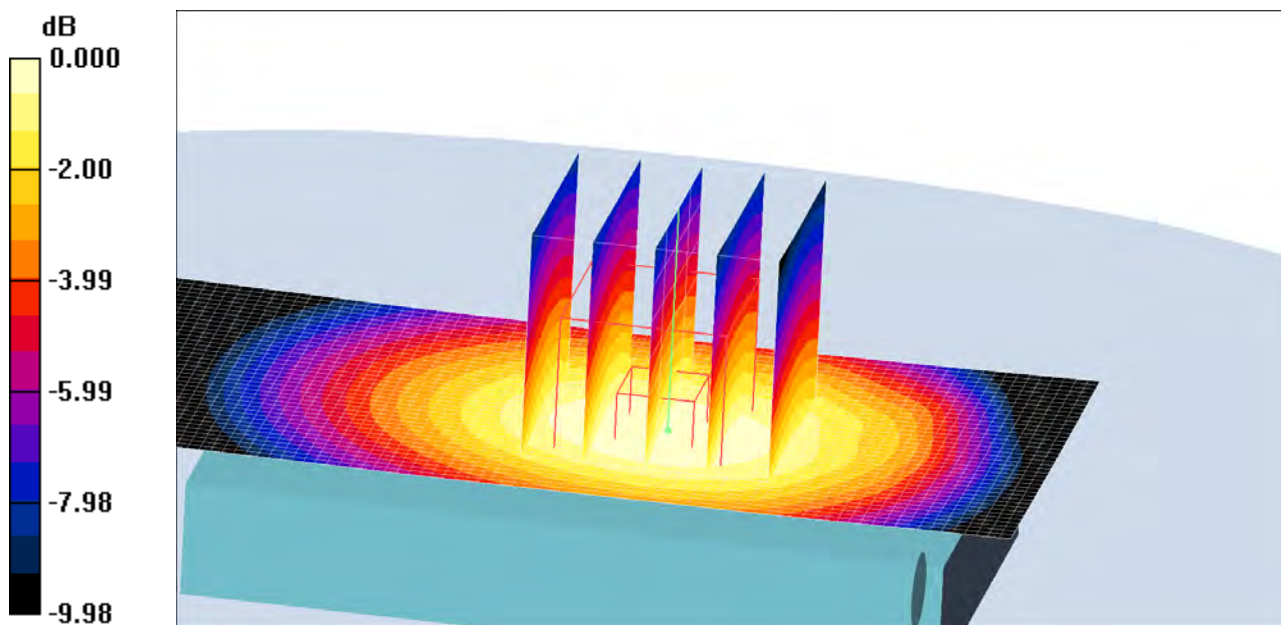
Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.974 \text{ mho/m}$; $\epsilon_r = 53.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(6.16, 6.16, 6.16); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.7 Build 80; 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) = 0.383 mW/g **Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 20.1 V/m ; Power Drift = -0.051 dB Peak SAR (extrapolated) = 0.472 W/kg **SAR(1 g) = 0.363 mW/g ; SAR(10 g) = 0.259 mW/g** Maximum value of SAR (measured) = 0.387 mW/g 0 dB = 0.387 mW/g

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Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-Body-Flat15mm-GSM850-Speech-Middle**DUT: Shakira; Type:DUT; Serial:#18583**

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.987$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(6.16, 6.16, 6.16); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172

Body 2/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.501 mW/g

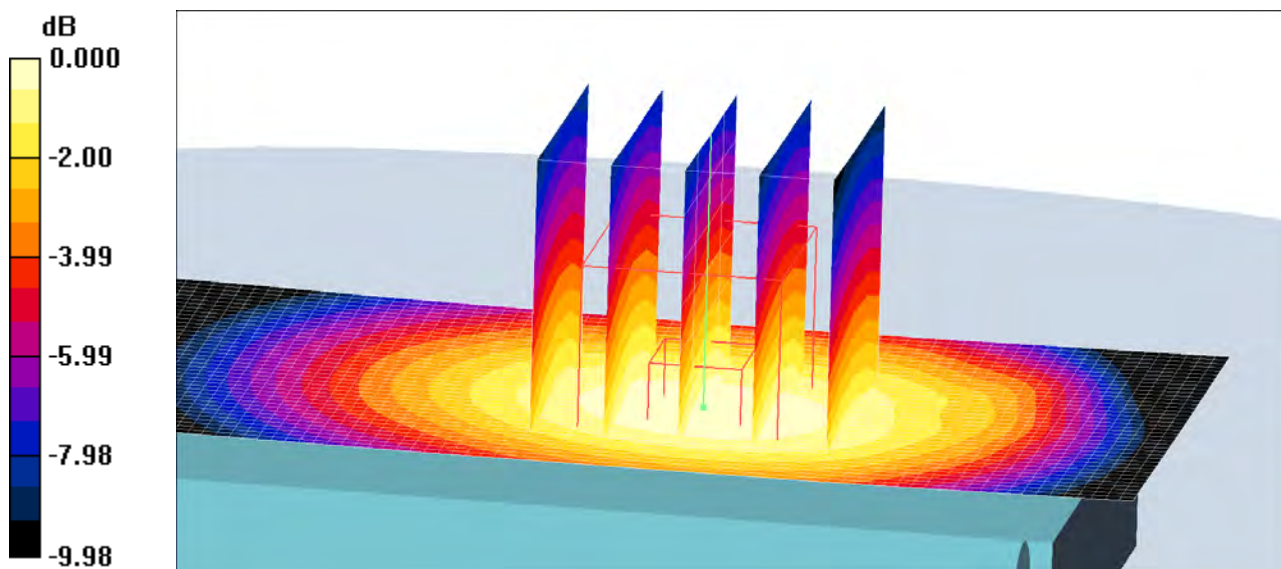
Body 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.8 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.623 W/kg

SAR(1 g) = 0.485 mW/g; SAR(10 g) = 0.346 mW/g

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



0 dB = 0.520mW/g

Date/Time: 7/20/2010 11:19:50 AM

Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-Body-Flat15mm-WLAN-Front-to-phantom-Low**DUT: Shakira; Type:DUT; Serial:#18693**

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

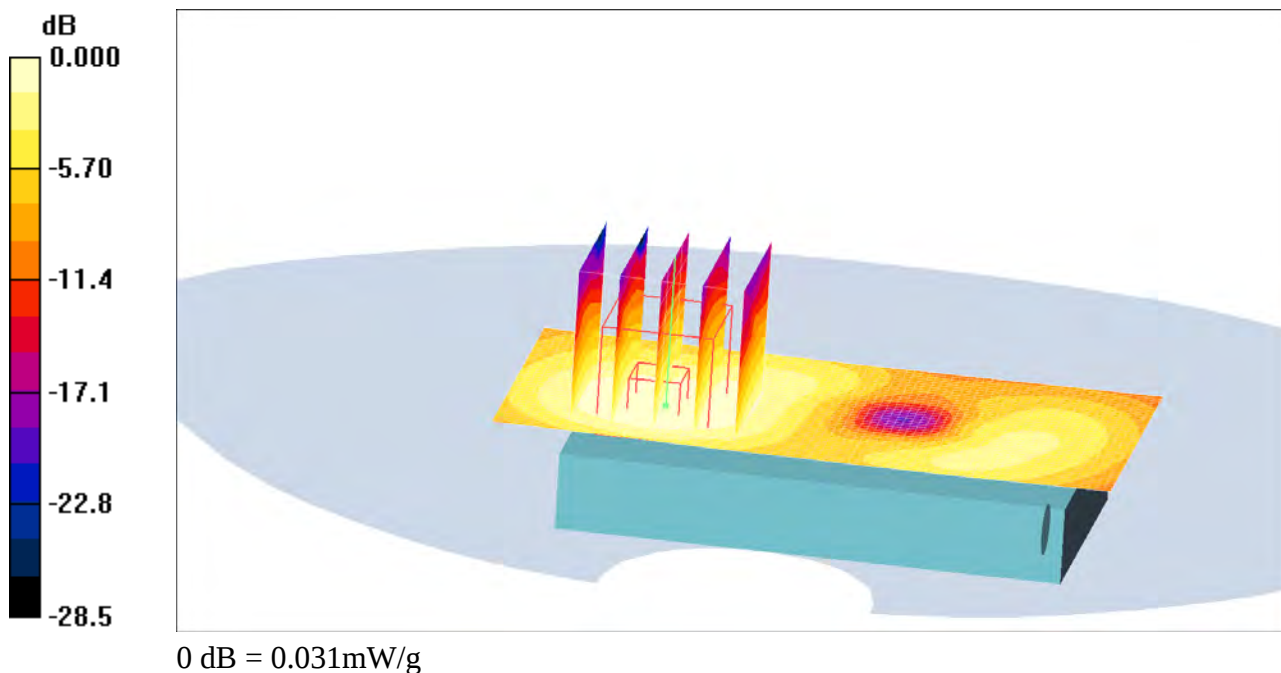
Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 50.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.19, 4.19, 4.19); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: WLAN Body SAM; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Front to Phantom/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.034 mW/g **Body Front to Phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 1.97 V/m ; Power Drift = 0.503 dB Peak SAR (extrapolated) = 0.058 W/kg **SAR(1 g) = 0.030 mW/g ; SAR(10 g) = 0.017 mW/g** Maximum value of SAR (measured) = 0.031 mW/g 

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Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-Body-Flat15mm-WLAN-High**DUT: Shakira; Type:DUT; Serial:#18693**

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

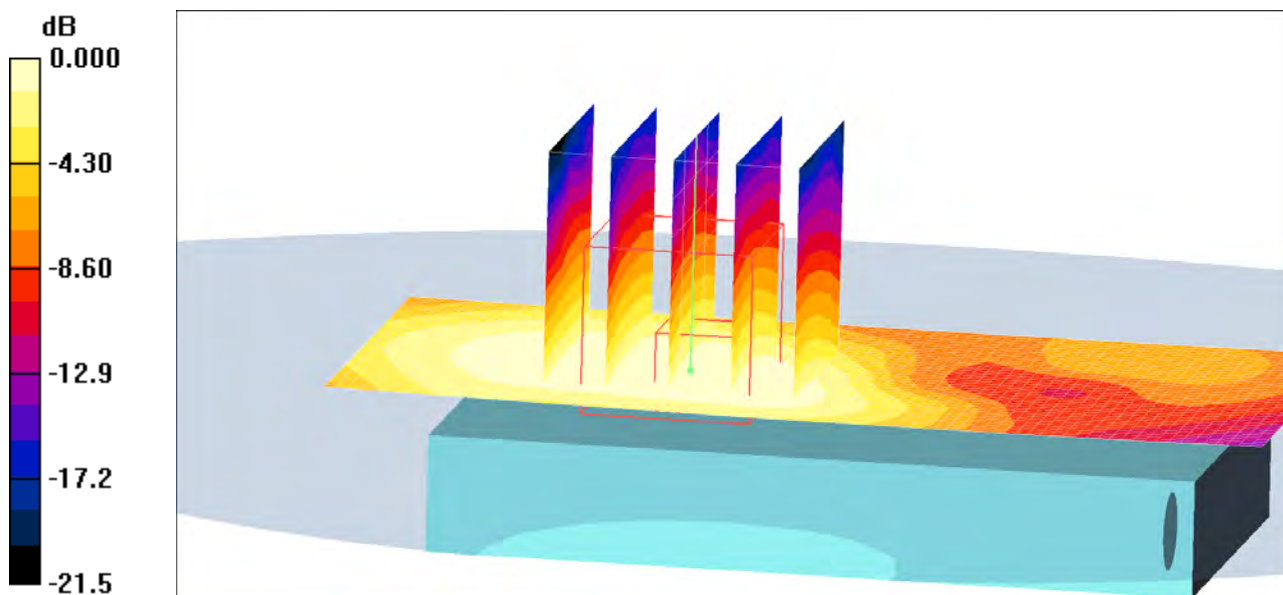
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.19, 4.19, 4.19); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: WLAN Body SAM; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; 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) = 0.059 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 = 4.37 V/m ; Power Drift = -0.122 dB Peak SAR (extrapolated) = 0.107 W/kg **SAR(1 g) = 0.054 mW/g ; SAR(10 g) = 0.031 mW/g** Maximum value of SAR (measured) = 0.057 mW/g 0 dB = 0.057 mW/g

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Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-Body-Flat15mm-WLAN-Low**DUT: Shakira; Type:DUT; Serial:#18693**

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

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.19, 4.19, 4.19); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: WLAN Body SAM; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172

Body 1/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.091 mW/g

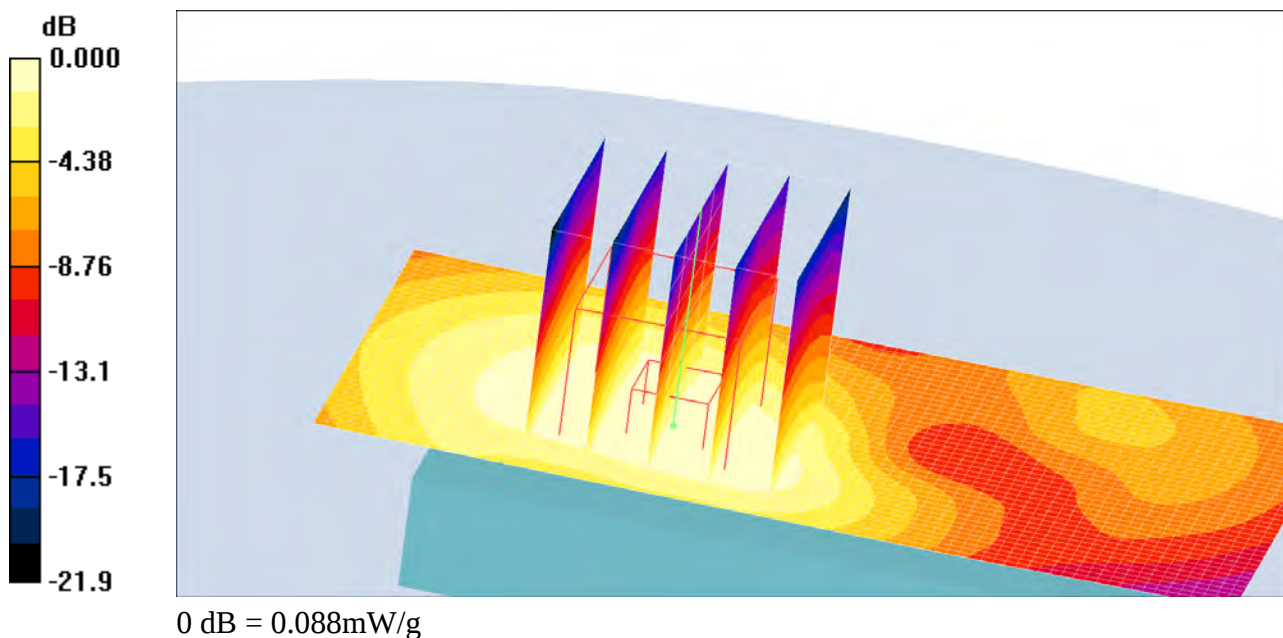
Body 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.01 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 0.165 W/kg

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.048 mW/g

Maximum value of SAR (measured) = 0.088 mW/g



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Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-Body-Flat15mm-WLAN-Middle**DUT: Shakira; Type:DUT; Serial:#8693**

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

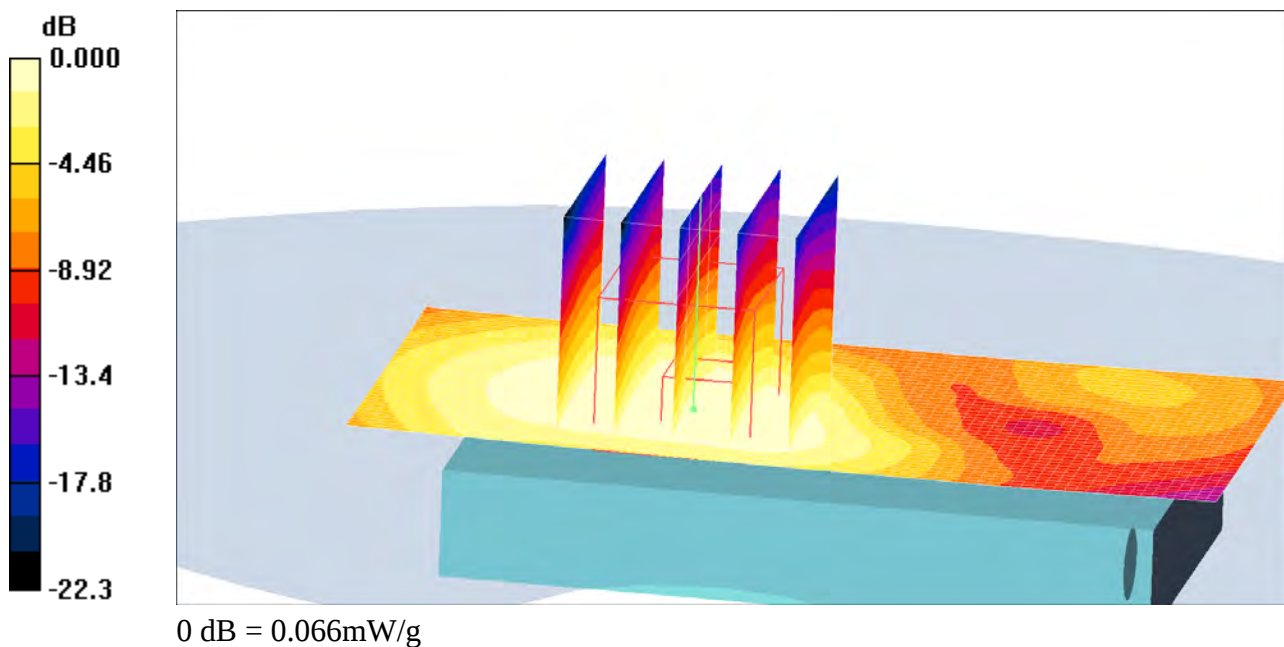
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.19, 4.19, 4.19); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: WLAN Body SAM; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172

Body 2/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.069 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 = 4.92 V/m ; Power Drift = -0.131 dB Peak SAR (extrapolated) = 0.126 W/kg **SAR(1 g) = 0.064 mW/g ; SAR(10 g) = 0.037 mW/g** Maximum value of SAR (measured) = 0.066 mW/g 

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Test Laboratory: Sony Ericsson Mobile Communications International AB

Shakira18-LeftHandSide-GSM1900-Tilt-Middle**DUT: Shakira; Type:DUT; Serial:#18583**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.18, 5.18, 5.18); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position/Area Scan (71x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.309 mW/g

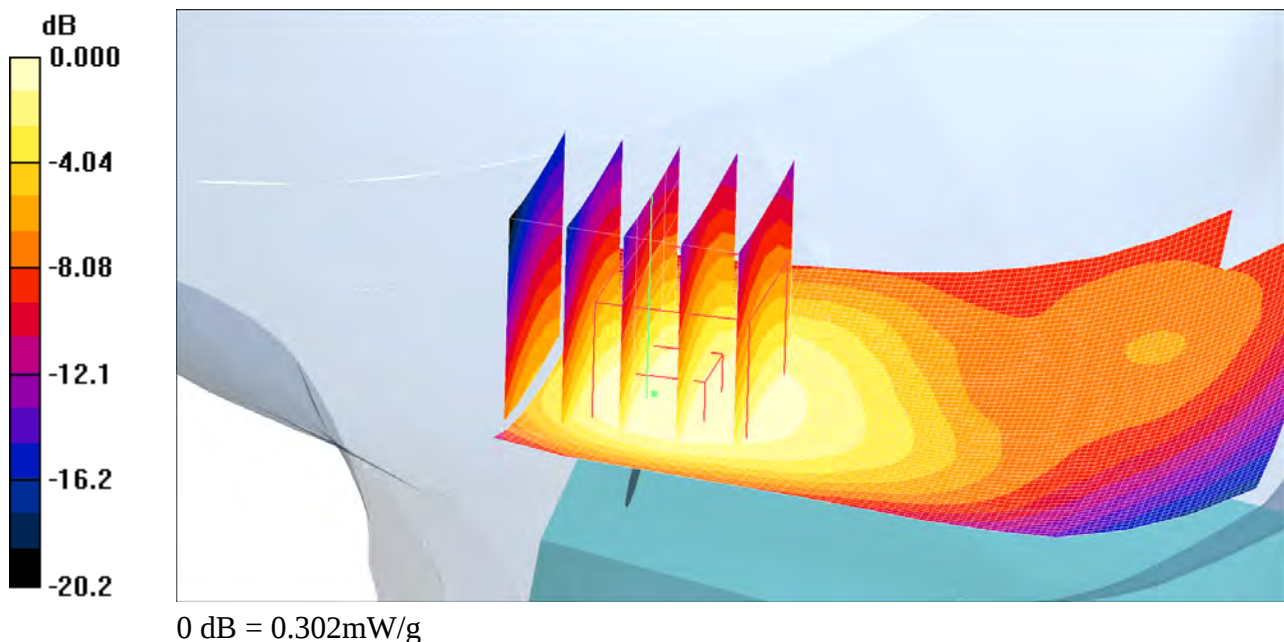
Tilt position/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = -0.058 dB

Peak SAR (extrapolated) = 0.424 W/kg

SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.182 mW/g

Maximum value of SAR (measured) = 0.302 mW/g



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Test Laboratory: Sony Ericsson Mobile Communications International AB

Shakira18-LeftHandSide-GSM1900-Touch-High**DUT: Shakira; Type:DUT; Serial:#18583**

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

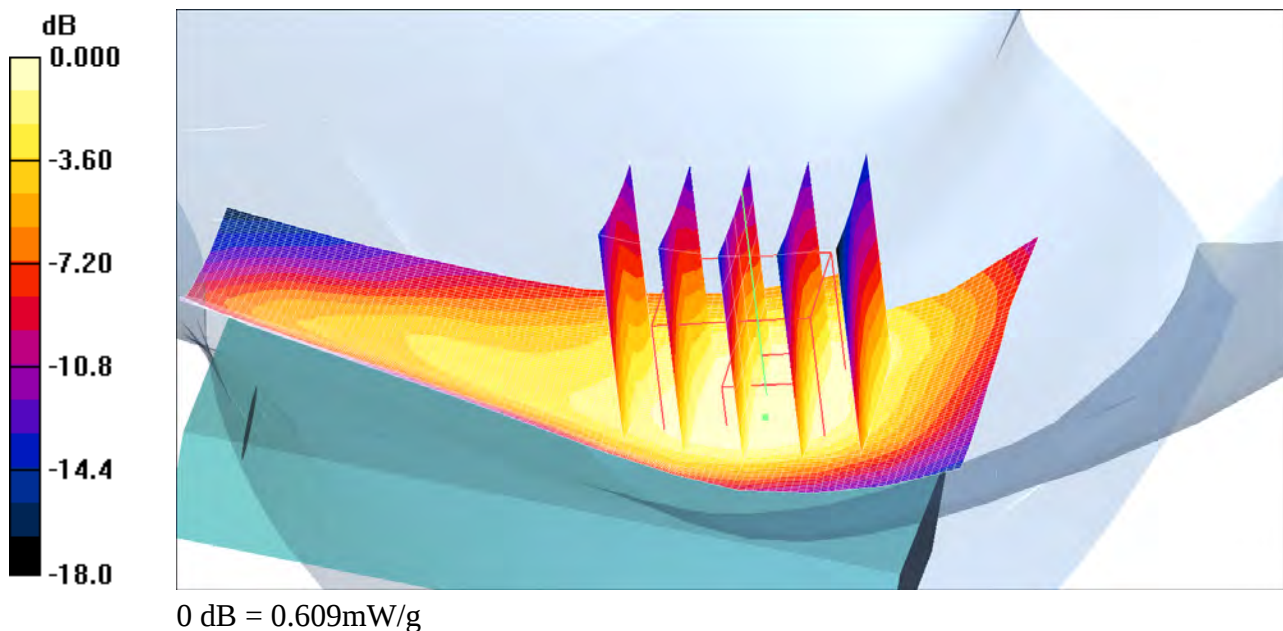
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.18, 5.18, 5.18); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position 3/Area Scan (71x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.616 mW/g **Touch position 3/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 10.6 V/m ; Power Drift = 0.026 dB Peak SAR (extrapolated) = 0.821 W/kg **SAR(1 g) = 0.567 mW/g ; SAR(10 g) = 0.366 mW/g** Maximum value of SAR (measured) = 0.609 mW/g 

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Test Laboratory: Sony Ericsson Mobile Communications International AB

Shakira18-LeftHandSide-GSM850-Tilt-Middle**DUT: Shakira; Type:DUT; Serial:#18583**

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

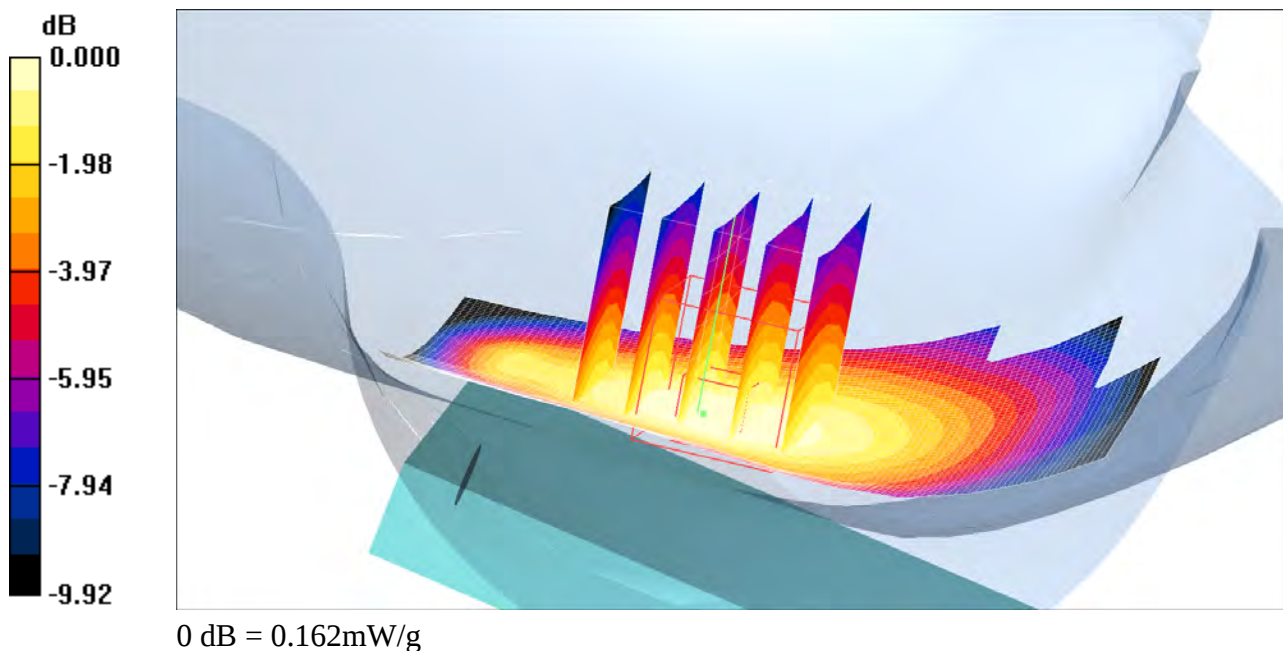
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(6.58, 6.58, 6.58); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position/Area Scan (71x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.163 mW/g **Tilt position/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.91 V/m ; Power Drift = 0.113 dB Peak SAR (extrapolated) = 0.192 W/kg **SAR(1 g) = 0.154 mW/g ; SAR(10 g) = 0.115 mW/g** Maximum value of SAR (measured) = 0.162 mW/g 

Date/Time: 7/7/2010 9:30:48 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Shakira18-LeftHandSide-GSM850-Touch-High**DUT: Shakira; Type:DUT; Serial:#18583**

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

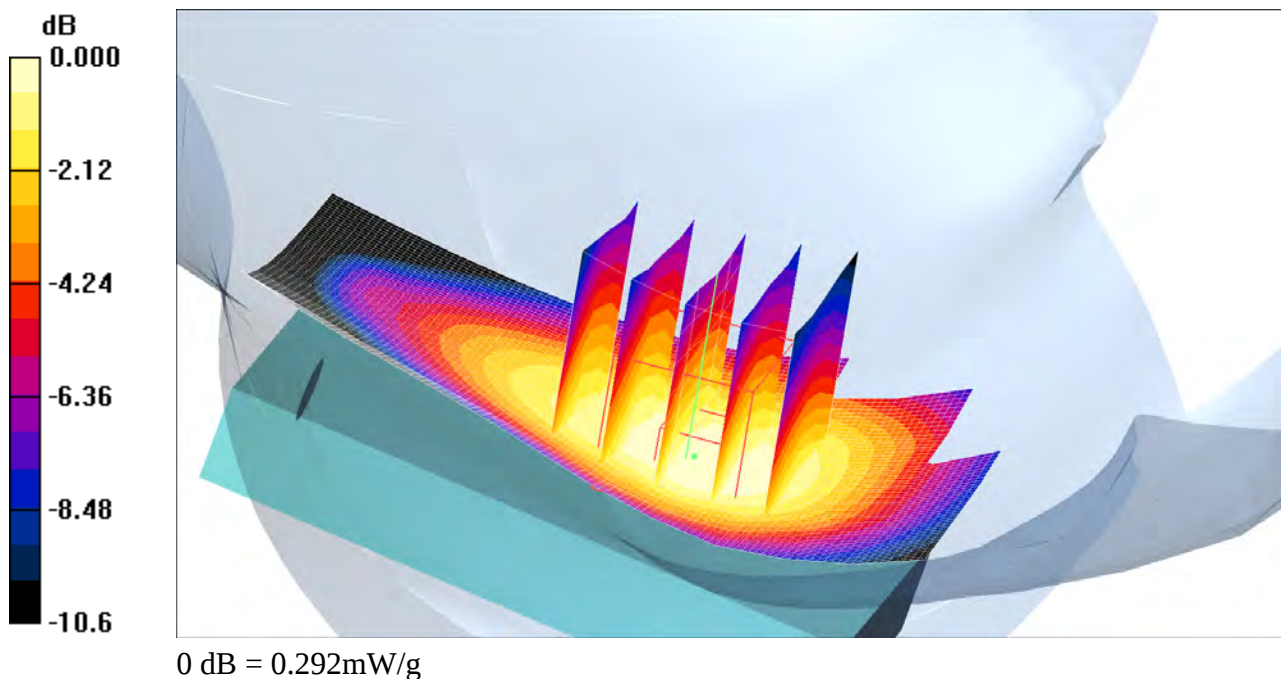
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(6.58, 6.58, 6.58); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position 3/Area Scan (71x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.295 mW/g **Touch position 3/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 7.49 V/m ; Power Drift = -0.098 dB Peak SAR (extrapolated) = 0.331 W/kg **SAR(1 g) = 0.276 mW/g ; SAR(10 g) = 0.204 mW/g** Maximum value of SAR (measured) = 0.292 mW/g 

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Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-LeftHandSide-WLAN-Tilt-Middle**DUT: Shakira; Type:DUT; Serial:#18693**

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

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 37.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.57, 4.57, 4.57); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: WLAN (Head) SAM with CRP; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.095 mW/g

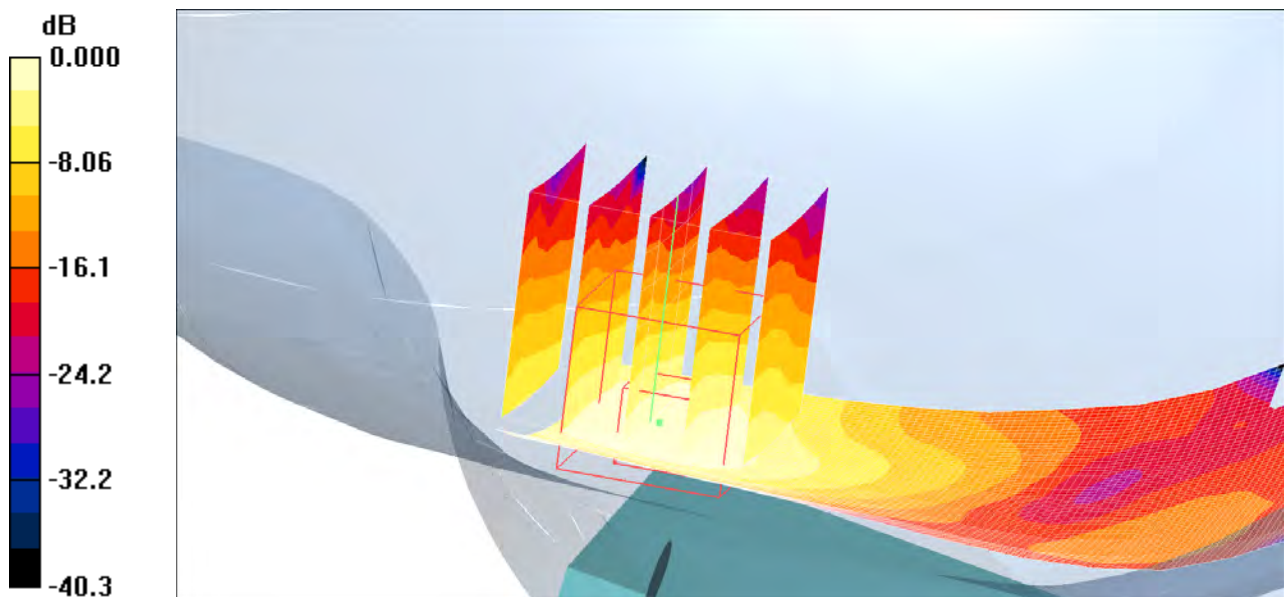
Tilt position/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.20 V/m; Power Drift = -0.138 dB

Peak SAR (extrapolated) = 0.181 W/kg

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.041 mW/g

Maximum value of SAR (measured) = 0.089 mW/g



0 dB = 0.089mW/g

Date/Time: 7/20/2010 2:56:44 PM

Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-LeftHandSide-WLAN-Touch-Low**DUT: Shakira; Type:DUT; Serial:#18693**

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

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 37.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.57, 4.57, 4.57); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: WLAN (Head) SAM with CRP; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position 2/Area Scan (71x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.140 mW/g

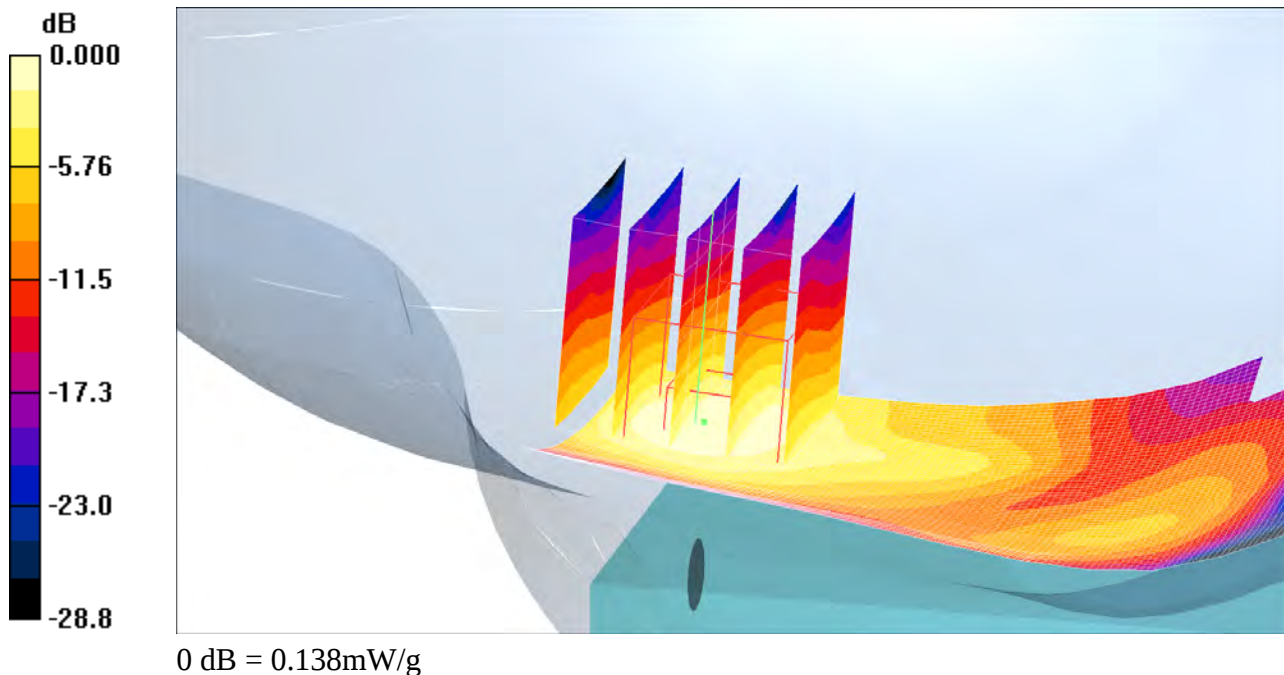
Touch position 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.51 V/m; Power Drift = -0.206 dB

Peak SAR (extrapolated) = 0.277 W/kg

SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.061 mW/g

Maximum value of SAR (measured) = 0.138 mW/g



Date/Time: 7/9/2010 10:51:43 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Shakira18-RightHandSide-GSM1900-Tilt-Middle**DUT: Shakira; Type:DUT; Serial:#18583**

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

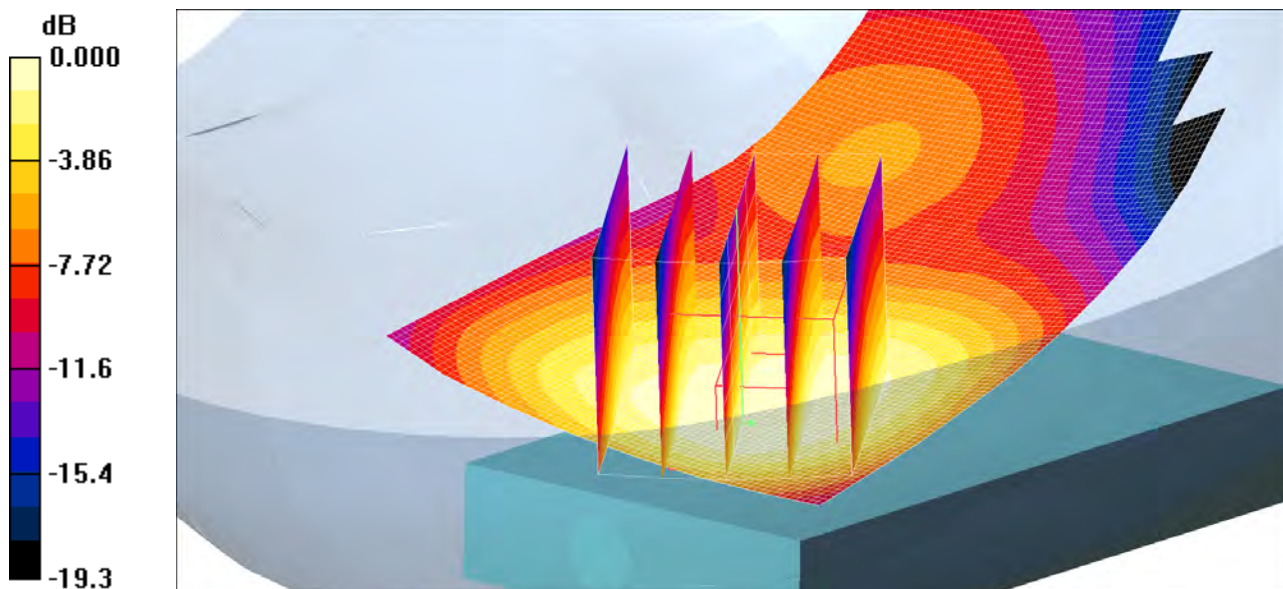
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.18, 5.18, 5.18); Calibrated: 12/8/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - 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 (71x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.353 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.6 V/m; Power Drift = -0.110 dB
Peak SAR (extrapolated) = 0.494 W/kg
SAR(1 g) = 0.323 mW/g; SAR(10 g) = 0.203 mW/g
Maximum value of SAR (measured) = 0.340 mW/g



0 dB = 0.340mW/g

Date/Time: 7/9/2010 11:25:36 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Shakira18-RightHandSide-GSM1900-Touch-High**DUT: Shakira; Type:DUT; Serial:#18583**

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

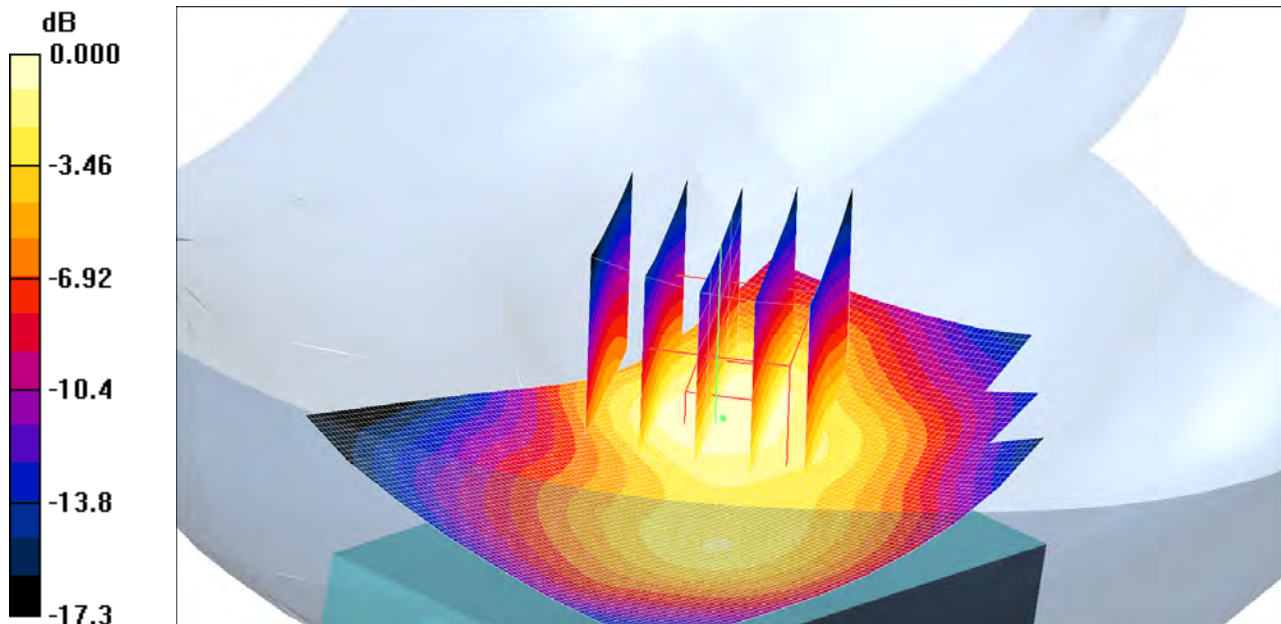
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.18, 5.18, 5.18); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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 (71x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.848 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 = 9.28 V/m ; Power Drift = -0.099 dB Peak SAR (extrapolated) = 1.32 W/kg **SAR(1 g) = 0.764 mW/g ; SAR(10 g) = 0.425 mW/g** Maximum value of SAR (measured) = 0.825 mW/g 0 dB = 0.825 mW/g

Date/Time: 7/7/2010 10:13:55 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Shakira18-RightHandSide-GSM850-Tilt-Middle**DUT: Shakira; Type:DUT; Serial:#18583**

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

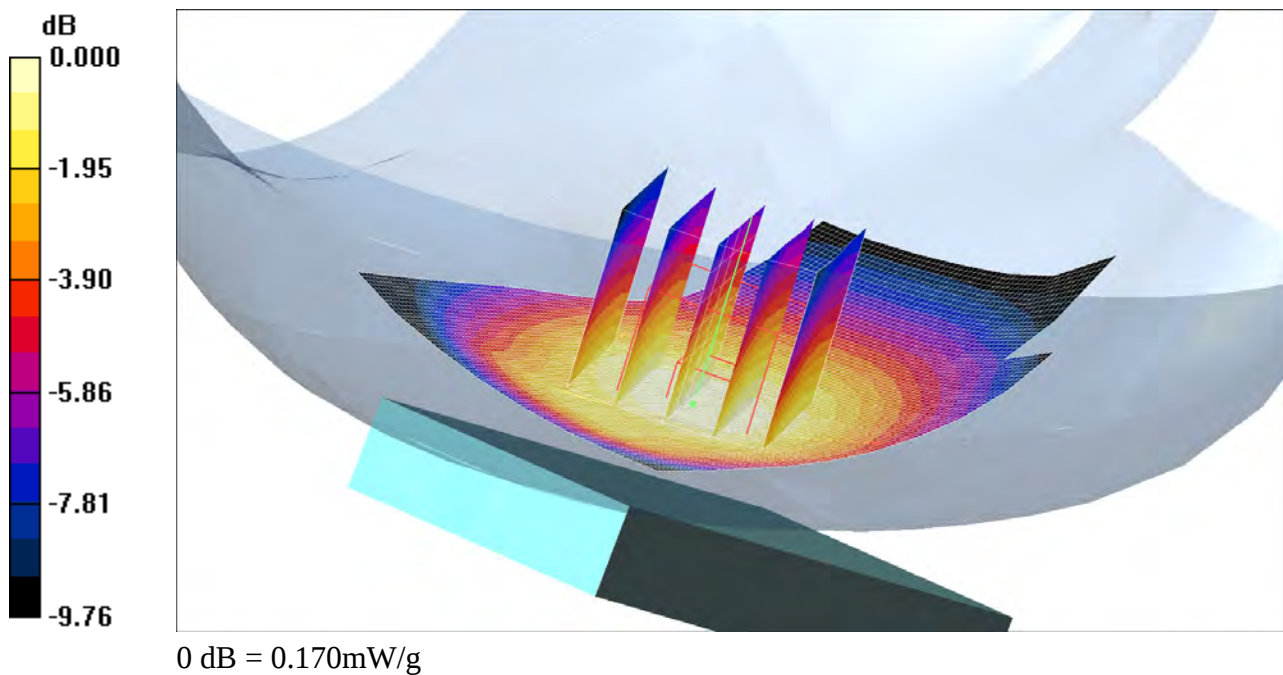
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(6.58, 6.58, 6.58); Calibrated: 12/8/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - 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 (71x111x1):** Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (interpolated) = 0.173 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 = 10.8 V/m ; Power Drift = -0.145 dB
Peak SAR (extrapolated) = 0.200 W/kg
SAR(1 g) = 0.161 mW/g ; SAR(10 g) = 0.118 mW/g
Maximum value of SAR (measured) = 0.170 mW/g



Date/Time: 7/7/2010 10:47:09 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Shakira18-RightHandSide-GSM850-Touch-High**DUT: Shakira; Type:DUT; Serial:#18583**

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

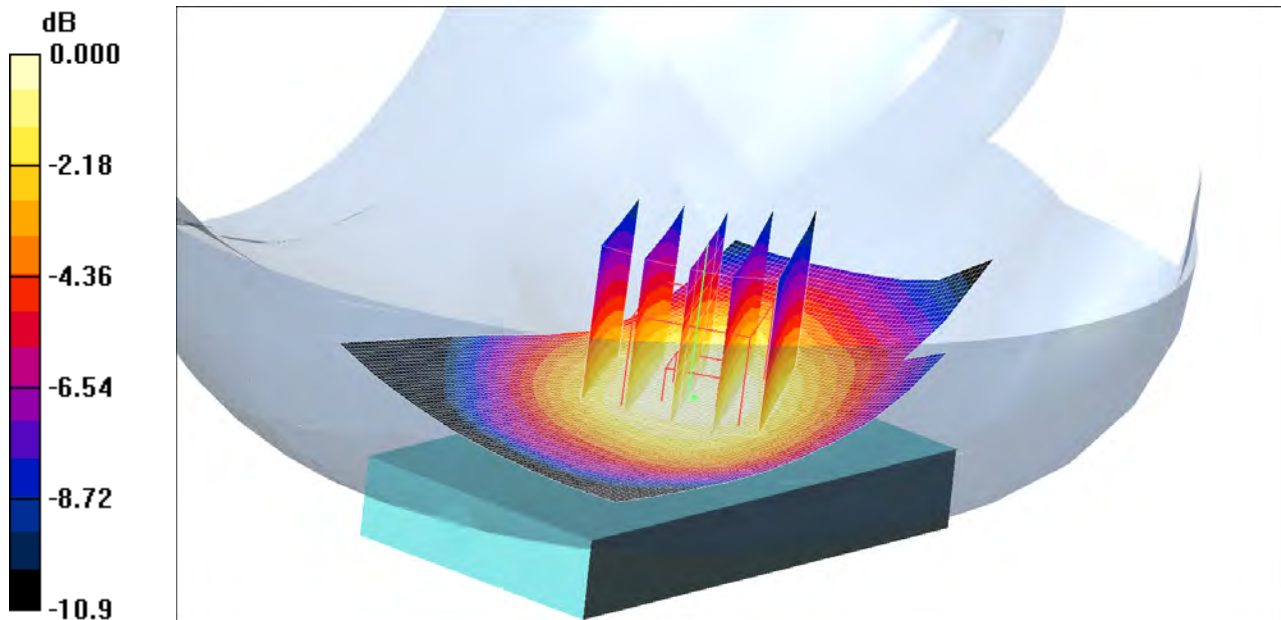
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(6.58, 6.58, 6.58); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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 (71x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.281 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 = 7.66 V/m ; Power Drift = 0.011 dB Peak SAR (extrapolated) = 0.353 W/kg **SAR(1 g) = 0.264 mW/g ; SAR(10 g) = 0.192 mW/g** Maximum value of SAR (measured) = 0.280 mW/g 0 dB = 0.280 mW/g

Date/Time: 7/21/2010 9:42:39 AM

Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-RightHandSide-WLAN-Tilt-Low**DUT: Shakira; Type:DUT; Serial:#18693**

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

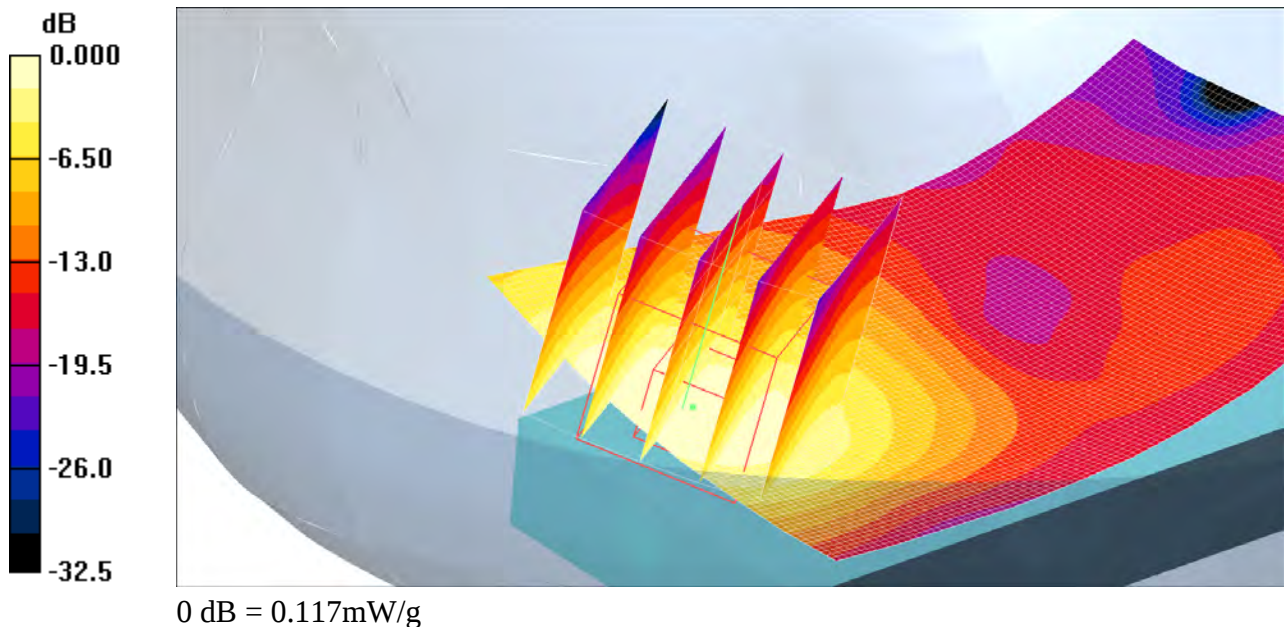
Medium parameters used: $f = 2412$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 37.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.57, 4.57, 4.57); Calibrated: 12/8/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: WLAN (Head) SAM with CRP; Type: SAM;
 - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172
- Tilt position - Bottom/Area Scan (71x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.120 mW/g
- Tilt position - Bottom/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.41 V/m; Power Drift = -0.156 dB
Peak SAR (extrapolated) = 0.211 W/kg
SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.054 mW/g
Maximum value of SAR (measured) = 0.117 mW/g



Date/Time: 7/21/2010 8:47:32 AM

Test Laboratory: Sony Ericsson Mobile Communications

Shakira18-RightHandSide-WLAN-Touch-Middle**DUT: Shakira; Type:DUT; Serial:#18693**

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

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 37.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.57, 4.57, 4.57); Calibrated: 12/8/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: WLAN (Head) SAM with CRP; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Middle/Area Scan (71x111x1): Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 7.91 V/m; Power Drift = -0.598 dB

Peak SAR (extrapolated) = 0.183 W/kg

SAR(1 g) = 0.094 mW/g; SAR(10 g) = 0.049 mW/g

Maximum value of SAR (measured) = 0.104 mW/g

