Sony Ericsson

Company Internal
REPORT

Prepared (also subject responsible if other)		No.		
BA/SEMC/CVVAU *Nathan Shaw*		*CVVA10:T095*		
Approved	Checked	Date	Rev	Reference
BA/SEMC/CVVAU *Jon Kenny*	JK	*100419*	B	File

Report issued by Accredited SAR Laboratory

for

FCC ID: PY7A3880068 (E10a)

Date of test: February 26th to March 29th 2010

Laboratory:
Sony Ericsson SAR Test Laboratory
Sony Ericsson Mobile Communications AB
Maplewood, Chineham Business Park
Basingstoke, RG24 8YB,
England

Testing Engineer:
Nathan Shaw
nathan.shaw@sonyericsson.com
+44 1252 55 1932

N. Shaw

Testing Approval:
Jon Kenny
Jon.kenny@sonyericsson.com
+44 1252 55 5711

Jon Kenny

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

Sony Ericsson Type AAD-3880068-BV; FCC ID PY7A3880068; IC 4170B-A3880068

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).

SWEDAC ACKREDITERING 1847 ISO/IEC 17025

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1 Introduction

In this test report, compliance of the Sony Ericsson FCC ID: PY7A3880068 (E10a) 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:	Nya Vattentornet Lund 221 88 Sweden
Contact Name:	Anders Petersson

3 Device Under Test

3.1 Antenna Description

Type	Internal antenna	
Location	Top of phone	
Main and BT antennas distance	53.4 mm	
Dimensions	Max length	27 mm
	Max width	43 mm
Configuration	Loop Antenna	

3.2 Device Description

Device model	AAD-3880068-BV					
Market name	E10a					
Serial number (EUT #)	CB511G3JHS (#17765) CB511GOU9C (#17769) – 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] **(#17765)**	33.0	33.0	33.0	30.6	30.8	31.0
Product Maximum power Level [dBm][1]	33.0	33.0	33.0	31.0	31.0	31.0
Data mode	GPRS			GPRS		
Crest factor	4.15 (2Tx)			4.15 (2Tx)		
Measured Power Level [dBm] [1] **(#17765)**	30.9	30.9	30.9	27.6	27.8	28.0
Product Maximum power Level [dBm][1]	31.0	31.0	31.0	28.0	28.0	28.0
Crest factor	3.1125 (3Tx)			3.1125 (3Tx)		
Measured Power Level [dBm] [1] **(#17765)**	29.0	29.0	28.9	26.0	26.2	26.4
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] **(##17765)**	28.0	27.9	27.9	24.5	24.7	24.9
Product Maximum power Level [dBm][1]	28.0	28.0	28.0	25.0	25.0	25.0
Data mode	EDGE			EDGE		
Crest factor	4.15 (2Tx)			4.15 (2Tx)		
Measured Power Level [dBm] [1] **(#17765)**	26.9	26.8	26.8	25.8	26.0	26.2
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] **(#17765)**	24.8	24.8	24.8	23.8	23.9	24.2
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] **(#17765)**	22.9	22.8	22.8	21.8	22.1	22.2
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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Mode	UMTS 2			UMTS 5		
Crest factor	1			1		
Multiple access scheme	WCDMA			WCDMA		
Channel No.	9262	9400	9538	4132	4183	4233
Measured Power Level [dBm] [1] (#17765)	22.2	22.5	22.3	23.4	23.3	23.3
Product Maximum power Level [dBm][1]	22.5	22.5	22.5	23.5	23.5	23.5
Data Mode	(See section 3.3)			(See section 3.3)		
Transmitting frequency range [MHz]	1852.4 – 1907.6			826.4 – 846.6		

GPRS Multislot class	12
EDGE class	12
GPRS Capability class	B
BT class and conducted power	Class 1, 10.0 dBm
Prototype or production unit	Preproduction
Hardware Version	AP1.1
Software version	1.0.A.1.3 (#17765) Delta_0_0_34 (#17769)
Device category	Portable
RF exposure environment	General population / uncontrolled

WLAN Output Power (average detector used for WLAN RF power)					
Mode	Max Output Power [1] (dBm)	Factory Tolerance [1] (dB)	EUT (#17769) Measured Power (dBm) [1]		
			Ch 1	Ch 6	Ch 11
802.11b 1Mbit/sec	15.0	1	14.5	15.1	15.2
802.11b 2Mbit/sec			14.8	15.2	15.3
802.11b 5.5Mbit/sec			14.8	15.1	15.2
802.11b 11Mbit/sec			14.8	15.1	15.1
802.11g 6Mbit/sec	15.0	1	14.1	14.6	14.8
802.11g 9Mbit/sec			14.2	14.6	14.6
802.11g 12Mbit/sec			14.1	14.6	14.8
802.11g 18Mbit/sec			14.2	14.7	14.8
802.11g 24Mbit/sec			14.1	14.6	14.7
802.11g 36Mbit/sec			14.2	14.7	14.8
802.11g 48Mbit/sec			12.9	13.2	13.1
802.11g 54Mbit/sec			12.8	13.2	13.2

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

[1] These values are supplied by the customer

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
△ACK= △NACK= △CQI=8

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

EUT #17765

					1852,4	1880	1907,6	826,4	836,4	846,6
					Band 2			Band 5		
	βC	βD	ΔHS	max->	22.5	22.5	22.5	23.5	23.5	23.5
CS - RMC	8	15	-		22.2	22.5	22.3	23.4	23.3	23.3
CS - voice	8	15	-		22.2	22.5	22.3	23.4	23.3	23.3
HSDPA - 1	2	15	8		21.77	22	21.99	23.23	22.96	23.11
HSDPA - 2	12	15	8		21.7	21.91	21.89	23.12	22.89	23.03
HSDPA - 3	15	8	8		21.32	21.5	21.53	22.68	22.56	22.6
HSDPA - 4	15	4	8		21.29	21.47	21.47	22.65	22.57	22.61

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, β_c=8, β_d=15

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

RMC=12.2, β_c=9, β_d=15, △ACK=5, △NACK=5, △CQI=2

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	$ß_c$	$ß_d$	$ß_d$ (SF)	$ß_c/ß_d$	$ß_{hs}$ (1)	$ß_{ec}$	$ß_{ed}$	$ß_{ec}$ (SF)	$ß_{ed}$ (code)	CM (dB) (2)	MPR (dB)	AG (4) Index	E-TFCI
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	$ß_{ed1}$:47/15 $ß_{ed2}$: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	1.0	0.0	21	81

Note 1: Δ_{ACK}, Δ_{NACK}, Δ_{CQI} = 8 <==> $A_{hs} = ß_{hs}/ß_c$ = 30/15 <==> $ß_{hs}$ = 30/15 * $ß_c$
Note 2: CM = 1 for $ß_c/ß_d$ = 12/15, $ß_{hs}/ß_c$ = 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 $ß_c/ß_d$ 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 $ß_c$ = 10/15 and $ß_d$ = 15/15
Note 4: For sub-test 5 the $ß_c/ß_d$ 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 $ß_c$ = 14/15 and $ß_d$ = 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: $ß_{ed}$ cannot be set directly; it is set by Absolute Grant Value

EUT #17769		1852,4	1880	1907,6	826,4	836,4	846,6
		Band 2			Band 5		
	max->	23	23	23	23.5	23.5	23.5
HSUPA - Sub-test 1		20.64	21.63	21.31	22.1	22.25	22.05
HSUPA - Sub-test 2		20.09	19.96	19.73	21.17	20.59	21.1
HSUPA - Sub-test 3		20.19	20.53	20.32	21.5	21.18	21.47
HSUPA - Sub-test 4		19.95	20.21	20.53	21.31	21.51	21.26
HSUPA - Sub-test 5		20.74	21.59	21.3	22.07	22.3	22.04

NOTE: None of the HSDPA/HSUPA settings leads to conducted power values exceeding the conducted power in RMC mode by more than 0.25 dB.
So no additional SAR measurements are required for those test modes.

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

NOTE: Reference PBA case number #703553

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	1610	2010-11
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	2010-04
Directional coupler HP778D	15.233	None
Power meter R&S NRVD	4.073	2010-04
Power sensor R&S NRV-Z5	4.074	2010-04
Power sensor R&S NRV-Z5	4.076	2010-04
Network analyzer Agilent 8719D	2.022	2010-04
Dielectric probe kit HP8507C	14.046	Self Cal
R&S CMU200	20010943	2010-04

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/cm³]
835	Head	Measured, 2010-03-08	41.13	0.88	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2010-03-16	52.53	0.96	1.00
		Recommended	55.20	0.97	1.00
1900	Head	Measured, 2010-03-09	38.01	1.45	1.00
		Recommended	40.00	1.40	1.00
1900	Body	Measured, 2010-03-12	50.69	1.58	1.00
		Recommended	53.30	1.52	1.00
1900	Head	Measured, 2010-03-10	38.06	1.45	1.00
		Recommended	40.00	1.40	1.00
1900	Body	Measured, 2010-03-15	50.72	1.56	1.00
		Recommended	53.30	1.52	1.00
835	Head	Measured, 2010-03-11	41.21	0.88	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2010-03-17	52.53	0.96	1.00
		Recommended	55.20	0.97	1.00
2450	Head	Measured, 2010-03-29	37.27	1.89	1.00
		Recommended	39.20	1.80	1.00
2450	Head	Measured, 2010-03-19	38.12	1.86	1.00
		Recommended	39.20	1.80	1.00
2450	Body	Measured, 2010-03-22	50.11	2.046	1.00
		Recommended	52.70	1.95	1.00

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/cm³]	
835	Head	Measured, 2010-03-08	9.28	41.13	0.88	1.00	21.9
		Recommended	9.34	41.50	0.90	1.00	22.0
835	Body	Measured, 2010-03-16	10.04	52.53	0.96	1.00	21.6
		Recommended	9.85	55.20	0.97	1.00	22.0
1900	Head	Measured, 2010-03-09	36.92	38.01	1.45	1.00	22.1
		Recommended	38.60	40.00	1.40	1.00	22.0
1900	Body	Measured, 2010-03-12	37.32	50.69	1.58	1.00	22.4
		Recommended	41.30	53.30	1.52	1.00	22.0
1900	Head	Measured, 2010-03-10	36.68	38.06	1.45	1.00	22.1
		Recommended	38.60	40.00	1.40	1.00	22.0
1900	Body	Measured, 2010-03-15	37.72	50.72	1.56	1.00	22.2
		Recommended	41.30	53.30	1.52	1.00	22.0
835	Head	Measured, 2010-03-11	9.28	41.21	0.88	1.00	22.2
		Recommended	9.34	41.50	0.90	1.00	22.0
835	Body	Measured, 2010-03-17	10.12	52.53	0.96	1.00	22.3
		Recommended	9.85	55.20	0.97	1.00	22.0
2450	Head	Measured, 2010-03-29	57.20	37.27	1.89	1.00	21.3
		Recommended	54.10	39.20	1.80	1.00	22.0
2450	Head	Measured, 2010-03-19	56.80	38.12	1.86	1.00	22.3
		Recommended	54.10	39.20	1.80	1.00	22.0
2450	Body	Measured, 2010-03-22	51.20	50.11	2.046	1.00	21.6
		Recommended	53.10	52.70	1.95	1.00	22.0

7 SAR measurement uncertainty

SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880068 (E10a) 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***

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 MH810 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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Date: *100419*

Rev: B

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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	33.0	Cheek	21.9	0.62	0.63
			Tilt	21.9	-	-
	190	33.0	Cheek	21.9	0.83	0.88
			Tilt	21.9	0.72	0.74
	251	33.0	Cheek	21.9	0.86	**0.90**
			Tilt	21.9	-	-
GSM1900	512	30.6	Cheek	22.1	0.80	0.81
			Tilt	22.1	-	-
	661	30.8	Cheek	22.1	0.77	0.82
			Tilt	22.1	0.54	0.61
	810	31.0	Cheek	22.1	0.79	**0.86**
			Tilt	22.1	-	-
UMTS2	9262	22.2	Cheek	22.1	0.82	0.89
			Tilt	22.1	-	-
	9400	22.5	Cheek	22.1	0.94	1.01
			Tilt	22.1	0.64	0.80
	9538	22.3	Cheek	22.1	1.05	**1.13**
			Tilt	22.1	-	-
UMTS5	4132	23.4	Cheek	22.2	0.65	0.65
			Tilt	22.2	-	-
	4183	23.3	Cheek	22.2	0.67	0.68
			Tilt	22.2	0.59	0.60
	4233	23.3	Cheek	22.2	0.77	**0.85**
			Tilt	22.2	-	-
WLAN	1	14.5	Cheek	21.3	0.22	**-**
			Tilt	21.3	-	-
	6	15.1	Cheek	21.3	0.24	-
			Tilt	21.3	0.07	-
	11	15.2	Cheek	21.3	0.16	-
			Tilt	21.3	-	-
WLAN	1	14.5	Cheek	22.3	-	**0.27**
			Tilt	22.3	-	-
	6	15.1	Cheek	22.3	-	0.26
			Tilt	22.3	-	0.08
	11	15.2	Cheek	22.3	-	0.22
			Tilt	22.3	-	-

Table 1: SAR measurement result for Sony Ericsson PY7A3880068 telephone at highest possible output power. Measured towards the head.

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

Band	Channel	Measured Peak Output Power[1] [dBm]	Position / Mode	Liquid T [°C]	Measured SAR [W/kg] 1g mass
GSM 850	128	30.9	Back / GPRS 2Tx	21.6	0.59
		33.0	Back / Speech	21.6	0.50
	190	30.9	Back / GPRS 2Tx	21.6	0.84
		29.0	Back / GPRS 3Tx	21.6	0.79
		27.9	Back / GPRS 4Tx	21.6	0.82
		33.0	Back / Speech	21.6	0.68
	251	30.9	Back / GPRS 2Tx	21.6	**1.08**
		33.0	Back / Speech	21.6	0.69
		33.0	Back / PHF	21.6	0.55
		30.9	Front / GPRS 2Tx	21.6	0.55
		26.8	Back / Edge 2Tx	21.6	0.35
GSM 1900	512	26.0	Back / GPRS 3Tx	22.4	**0.41**
		30.6	Back / Speech	22.4	0.37
		30.6	Back / PHF	22.4	0.36
		26.0	Front / GPRS 3Tx	22.4	0.27
		23.8	Back / EDGE 3Tx	22.4	0.14
	661	27.8	Back / GPRS 2Tx	22.4	0.26
		26.2	Back / GPRS 3Tx	22.4	0.27
		24.7	Back / GPRS 4Tx	22.4	0.19
		30.8	Back / Speech	22.4	0.23
	810	26.4	Back / GPRS 3TX	22.4	0.25
		31.0	Back / Speech	22.4	0.22
UMTS2	9262	22.2	Back / HSDPA	22.2	0.25
		22.2	Back / Speech	22.2	0.28
		22.2	Front / Speech	22.2	0.22
	9400	22.4	Back / HSDPA	22.2	0.21
		22.5	Back / Speech	22.2	0.23
		22.5	Front / Speech	22.2	0.26
	9538	22.3	Back / HSDPA	22.2	0.27
		22.3	Back / HSUPA	22.2	0.26
		22.3	Back / Speech	22.2	0.29
		22.3	Front / Speech	22.2	**0.32**
		22.3	Back / PHF	22.2	0.23
UMTS5	4132	23.3	Back / HSDPA	22.3	0.46
		23.4	Back / Speech	22.3	0.51
	4183	23.2	Back / HSDPA	22.3	0.50
		23.3	Back / Speech	22.3	0.57
	4233	23.3	Back / HSDPA	22.3	0.61
		23.3	Back / HSUPA	22.3	0.61
		23.3	Back / Speech	22.3	**0.66**
		23.3	Back / PHF	22.3	0.55
		23.3	Front / Speech	22.3	0.33
WLAN	1	14.5	Back	21.6	0.07
	6	15.1	Back	21.6	**0.08**
	11	15.2	Back	21.6	0.07
	6	15.1	Front	21.6	0.06

Table 2: SAR measurement result for Sony Ericsson PY7A3880068 telephone at highest possible output power. Measured towards the body.

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

Sony Ericsson

Company Internal
REPORT

Prepared (also subject responsible if other)		No.		
BA/SEMC/CVVAU *Nathan Shaw*		*CVVA10:T095*		
Approved	Checked	Date	Rev	Reference
BA/SEMC/CVVAU *Jon Kenny*	JK	*100419*	B	File

9 References

[1] R.Plicanic. “SAR Measurement Specification of Wireless Handsets”. Sony Ericsson SAR Test Laboratory internal document GUG/N 03:141

[2] FCC. “Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields: Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radio Frequency Emissions.” Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97- 01).

[3] IEEE. “Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques.” Std 1528-2003. June. 2003.

[4] IEC 62209-1. "Procedure to measure the Specific Absorption Rate (SAR) for hand-held mobile wireless devices in the frequency range of 300 MHz to 3 GHz". February 2005.

[5] FCC 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.

Sony Ericsson

Company Internal
REPORT

Prepared (also subject responsible if other)		No.		
BA/SEMC/CVVAU *Nathan Shaw*		*CVVA10:T095*		
Approved	Checked	Date	Rev	Reference
BA/SEMC/CVVAU *Jon Kenny*	JK	*100419*	B	File

Appendix

9.1 Photographs of the device under test

Front & Back Open

Sides

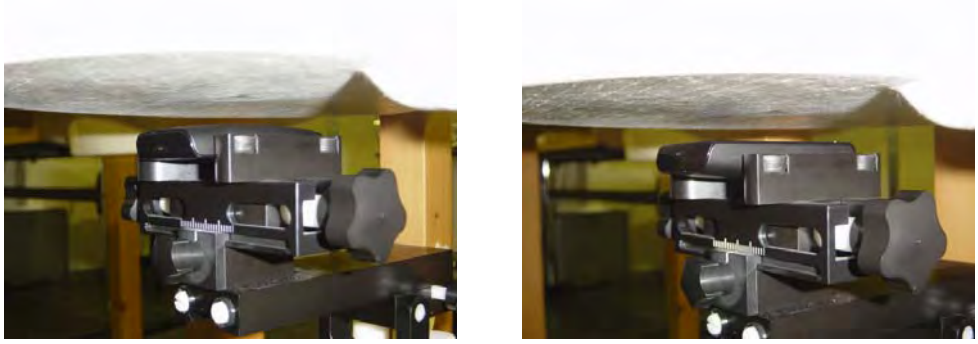
Top & Bottom

Back

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, rear and front, and 15 mm distance

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REPORT

Prepared (also subject responsible if other)		No.		
BA/SEMC/CVVAU *Nathan Shaw*		*CVVA10:T095*		
Approved	Checked	Date	Rev	Reference
BA/SEMC/CVVAU *Jon Kenny*	JK	*100419*	B	File

9.3 Attachments

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

Date/Time: 3/8/2010 9:51:08 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

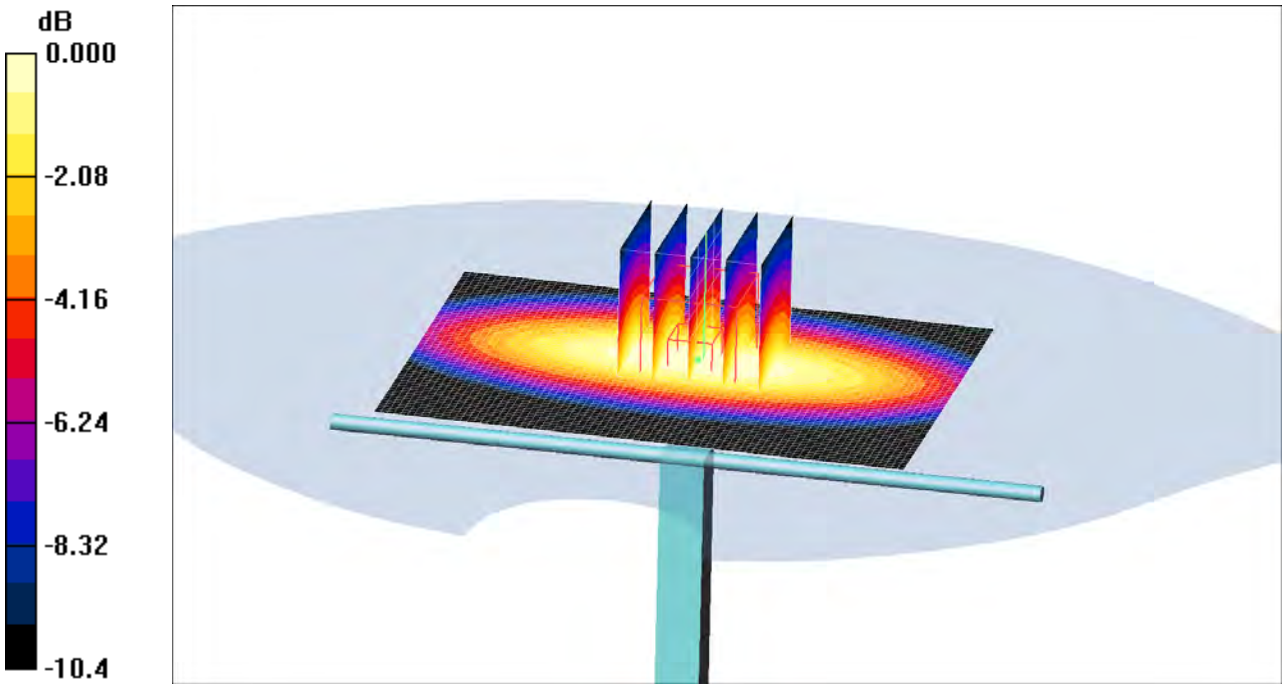
Validation-D850-08-03-10

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 MHz; σ = 0.88 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- 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) = 2.50 mW/g
  d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 56.5 V/m; Power Drift = -0.005 dB
  Peak SAR (extrapolated) = 3.12 W/kg
  SAR(1 g) = 2.32 mW/g; SAR(10 g) = 1.55 mW/g
  Maximum value of SAR (measured) = 2.51 mW/g



0 dB = 2.51mW/g

Date/Time: 3/16/2010 9:43:08 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

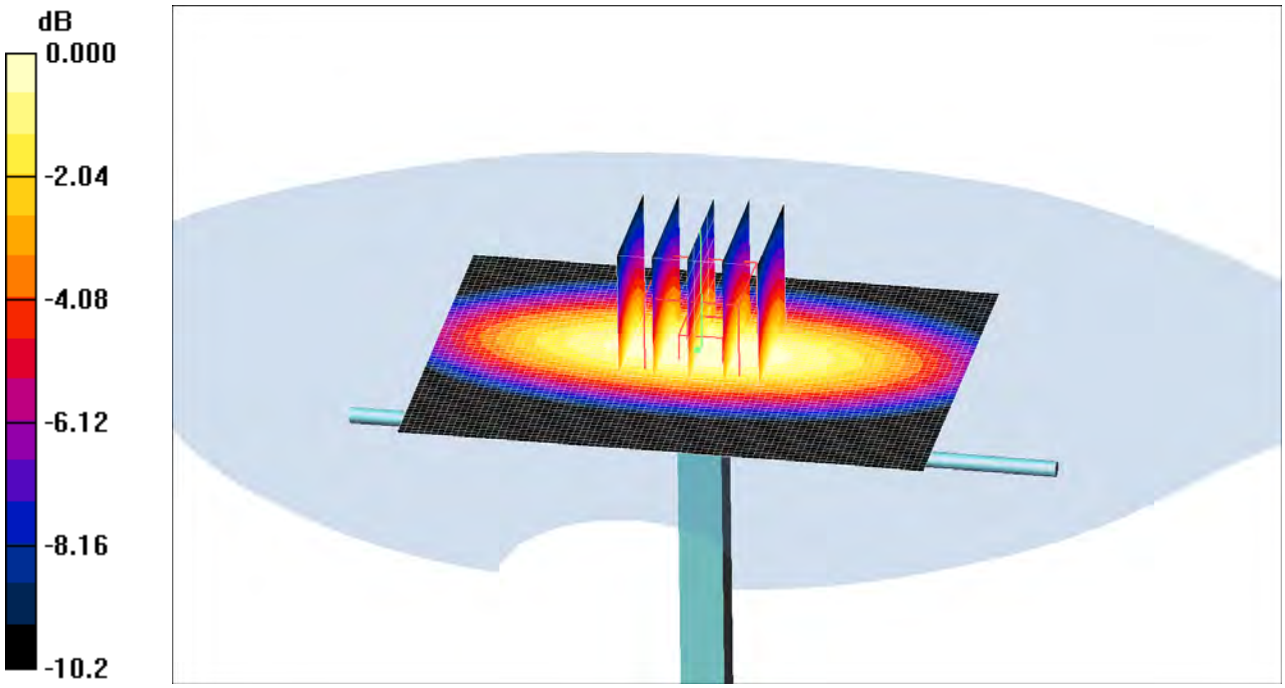
Validation-D850-16-03-10

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 MHz; σ = 0.96 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 2.72 mW/g
  d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 56.3 V/m; Power Drift = -0.039 dB
  Peak SAR (extrapolated) = 3.42 W/kg
  SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.67 mW/g
  Maximum value of SAR (measured) = 2.73 mW/g



0 dB = 2.73mW/g

Date/Time: 3/9/2010 8:23:16 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

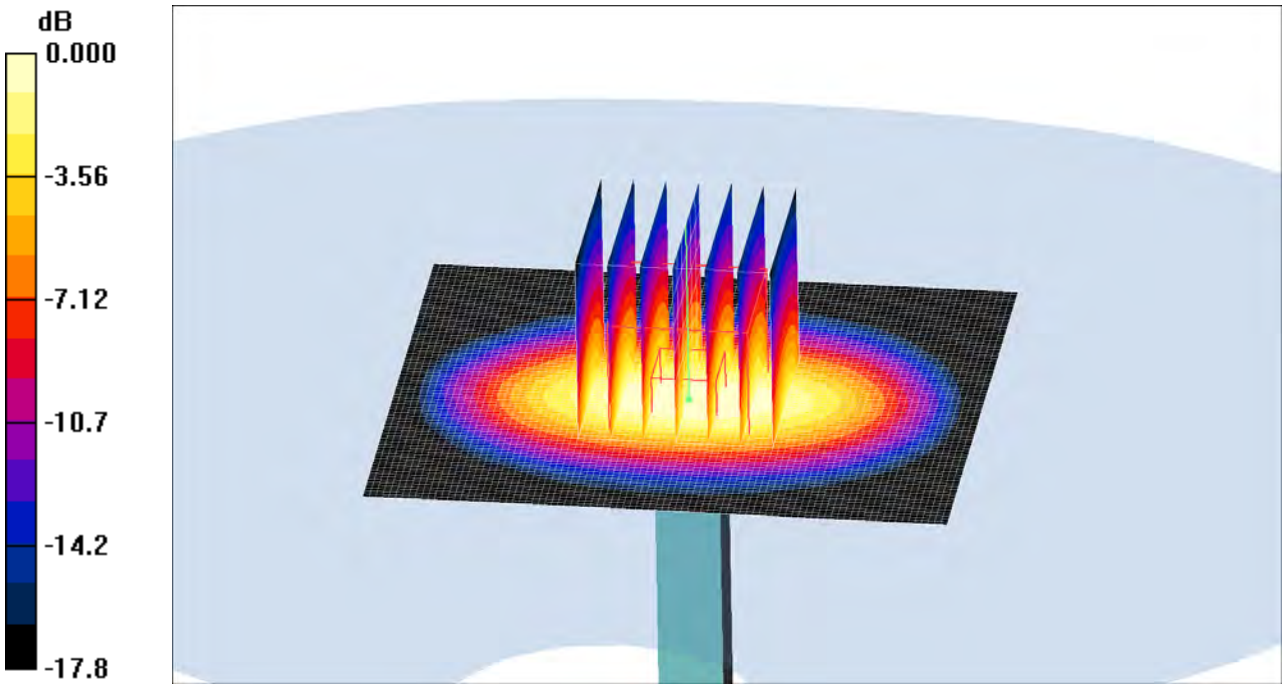
Validation-D1900-09-03-10

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 MHz; σ = 1.45 mho/m; ε_r = 38; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- 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) = 10.5 mW/g
  d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
  Reference Value = 90.7 V/m; Power Drift = -0.048 dB
  Peak SAR (extrapolated) = 15.7 W/kg
  SAR(1 g) = 9.23 mW/g; SAR(10 g) = 4.84 mW/g
  Maximum value of SAR (measured) = 10.5 mW/g



0 dB = 10.5mW/g

Date/Time: 3/12/2010 9:17:56 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

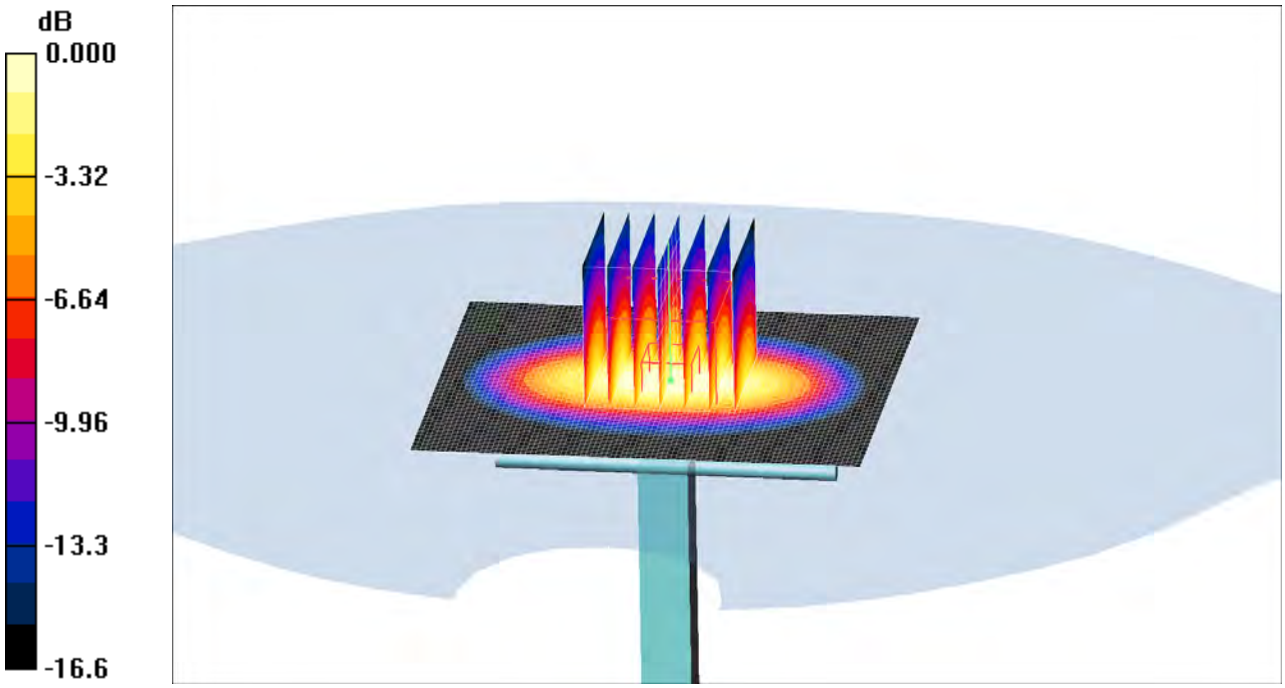
Validation-D1900-12-03-10

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 MHz; σ = 1.58 mho/m; ε_r = 50.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 10.8 mW/g
  d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
  Reference Value = 90.5 V/m; Power Drift = 0.011 dB
  Peak SAR (extrapolated) = 14.4 W/kg
  SAR(1 g) = 9.33 mW/g; SAR(10 g) = 5.03 mW/g
  Maximum value of SAR (measured) = 10.7 mW/g



0 dB = 10.7mW/g

Date/Time: 3/10/2010 8:38:47 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

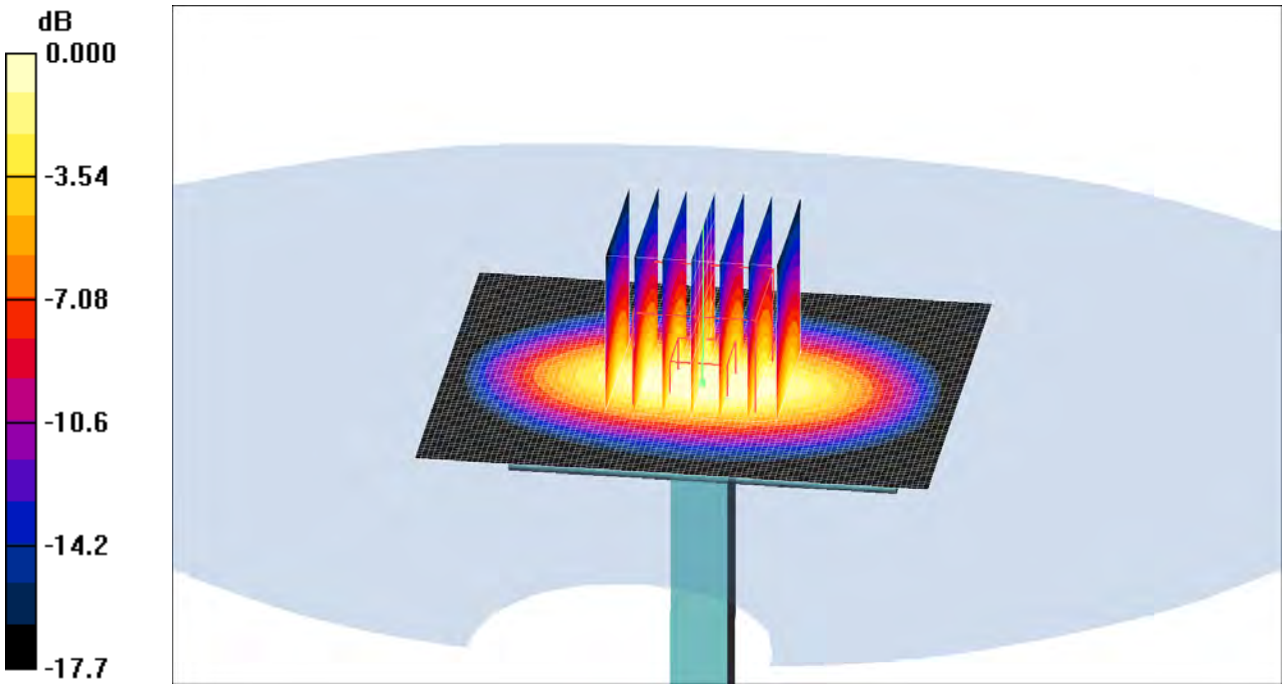
Validation-D1900-10-03-10

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 MHz; σ = 1.45 mho/m; ε_r = 38.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- 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) = 10.6 mW/g
  d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
  Reference Value = 91.6 V/m; Power Drift = -0.038 dB
  Peak SAR (extrapolated) = 15.5 W/kg
  SAR(1 g) = 9.17 mW/g; SAR(10 g) = 4.83 mW/g
  Maximum value of SAR (measured) = 10.4 mW/g



0 dB = 10.4mW/g

Date/Time: 3/15/2010 9:36:22 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

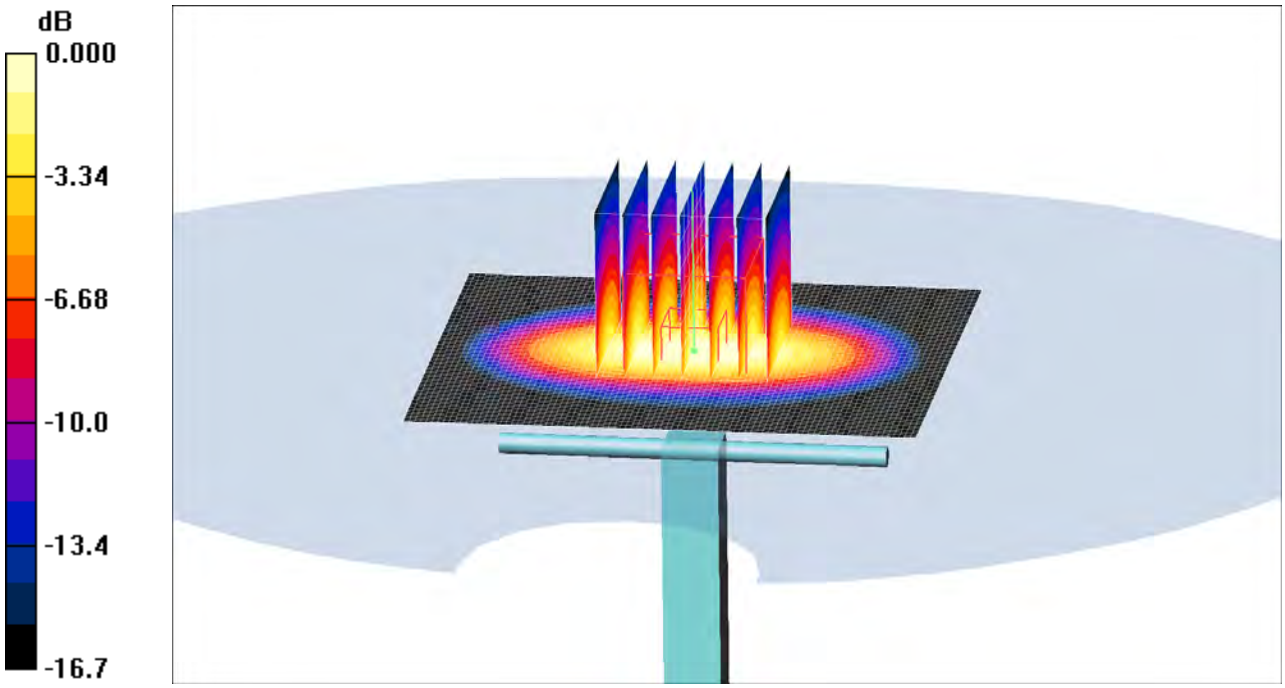
Validation-D1900-15-03-10

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 MHz; σ = 1.56 mho/m; ε_r = 50.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 10.7 mW/g
  d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
  Reference Value = 90.5 V/m; Power Drift = 0.016 dB
  Peak SAR (extrapolated) = 14.5 W/kg
  SAR(1 g) = 9.33 mW/g; SAR(10 g) = 5.04 mW/g
  Maximum value of SAR (measured) = 10.7 mW/g



0 dB = 10.7mW/g

Date/Time: 3/11/2010 8:24:24 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

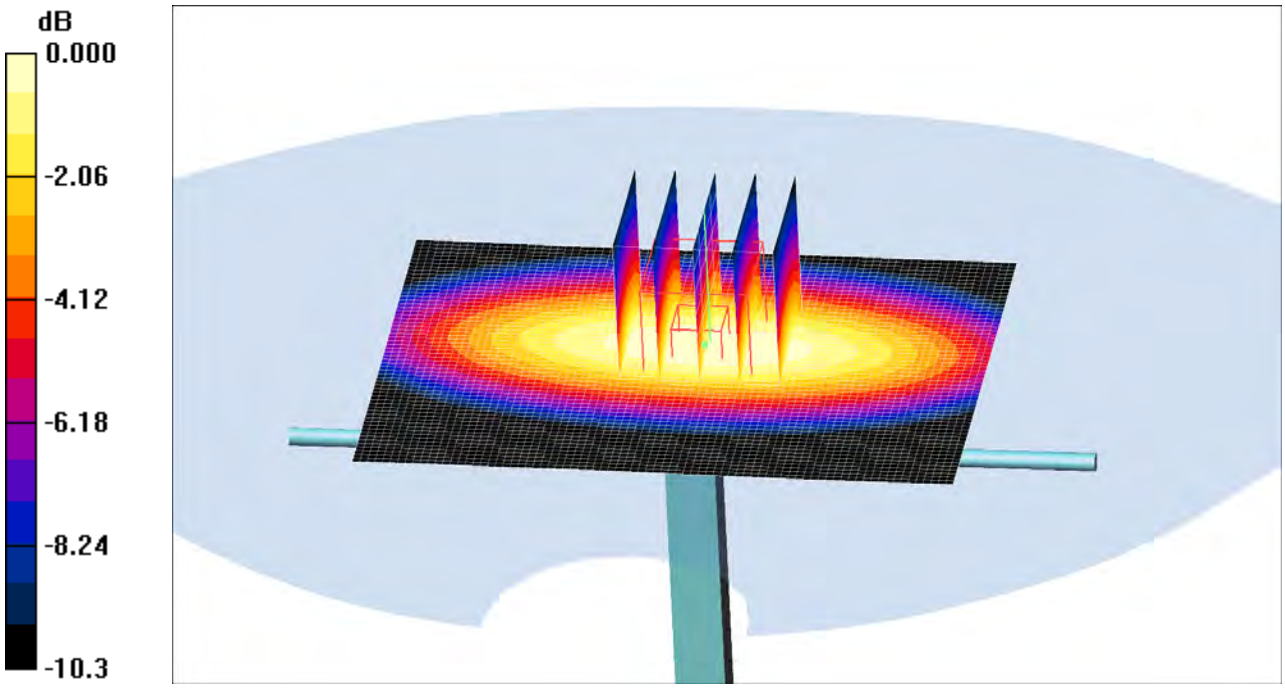
Validation-D850-11-03-10

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 MHz; σ = 0.88 mho/m; ε_r = 41.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- 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) = 2.51 mW/g
  d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 56.4 V/m; Power Drift = -0.009 dB
  Peak SAR (extrapolated) = 3.10 W/kg
  SAR(1 g) = 2.32 mW/g; SAR(10 g) = 1.55 mW/g
  Maximum value of SAR (measured) = 2.52 mW/g



0 dB = 2.52mW/g

Date/Time: 3/17/2010 8:34:58 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

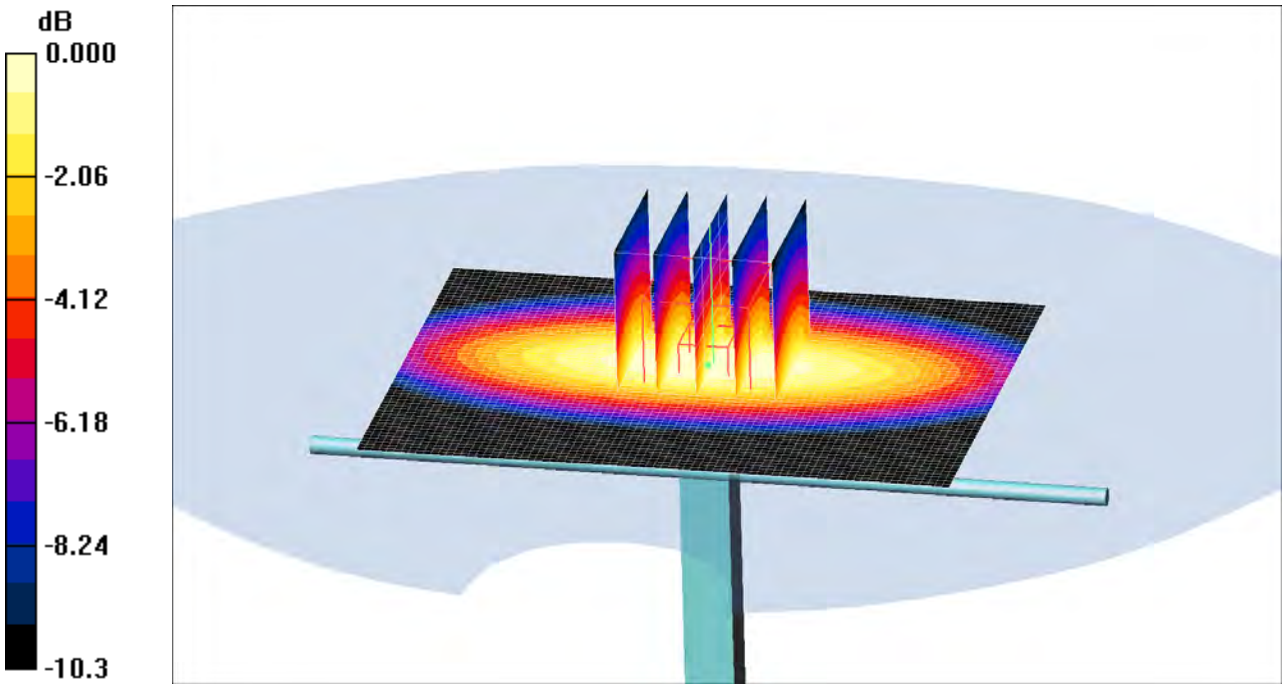
Validation-D850-17-03-10

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 MHz; σ = 0.96 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 2.74 mW/g
  d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 56.3 V/m; Power Drift = -0.042 dB
  Peak SAR (extrapolated) = 3.46 W/kg
  SAR(1 g) = 2.53 mW/g; SAR(10 g) = 1.68 mW/g
  Maximum value of SAR (measured) = 2.76 mW/g



0 dB = 2.76mW/g

Date/Time: 3/29/2010 8:56:11 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

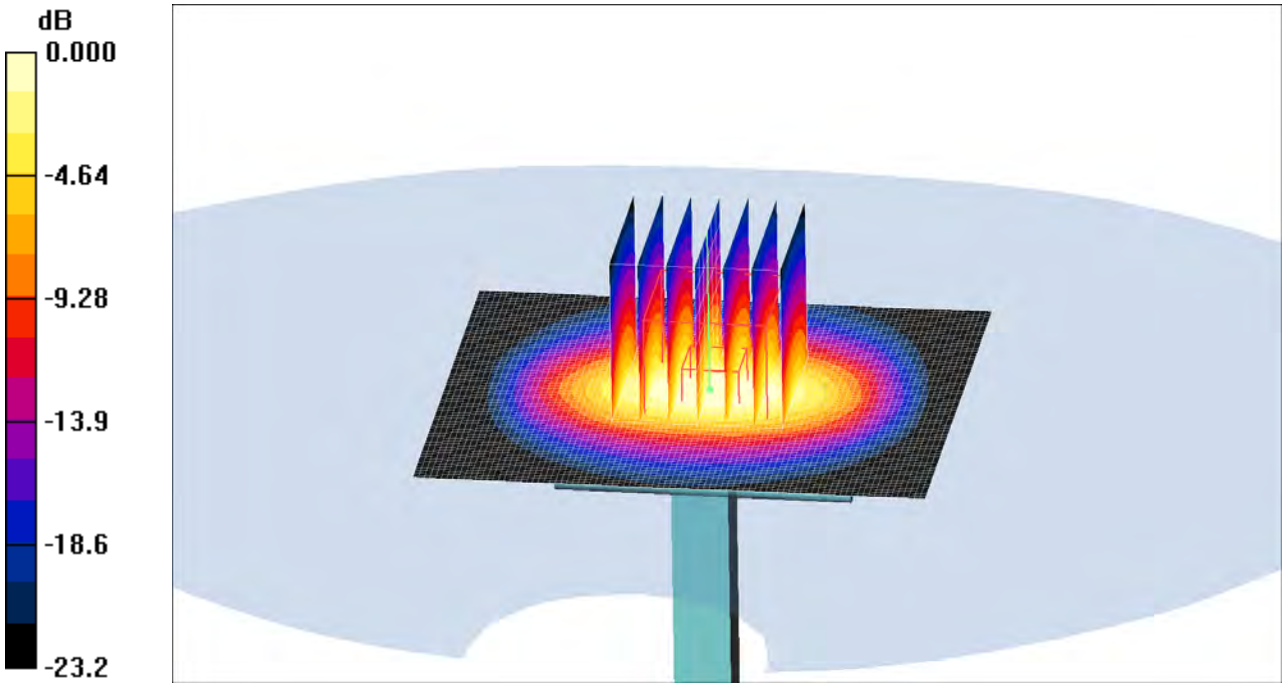
Validation-D2450-29-03-10

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; σ = 1.89 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/11/2009
- 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) = 16.5 mW/g
  d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
  Reference Value = 97.9 V/m; Power Drift = -0.028 dB
  Peak SAR (extrapolated) = 30.8 W/kg
  SAR(1 g) = 14.3 mW/g; SAR(10 g) = 6.54 mW/g
  Maximum value of SAR (measured) = 16.5 mW/g



0 dB = 16.5mW/g

Date/Time: 3/19/2010 8:11:06 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

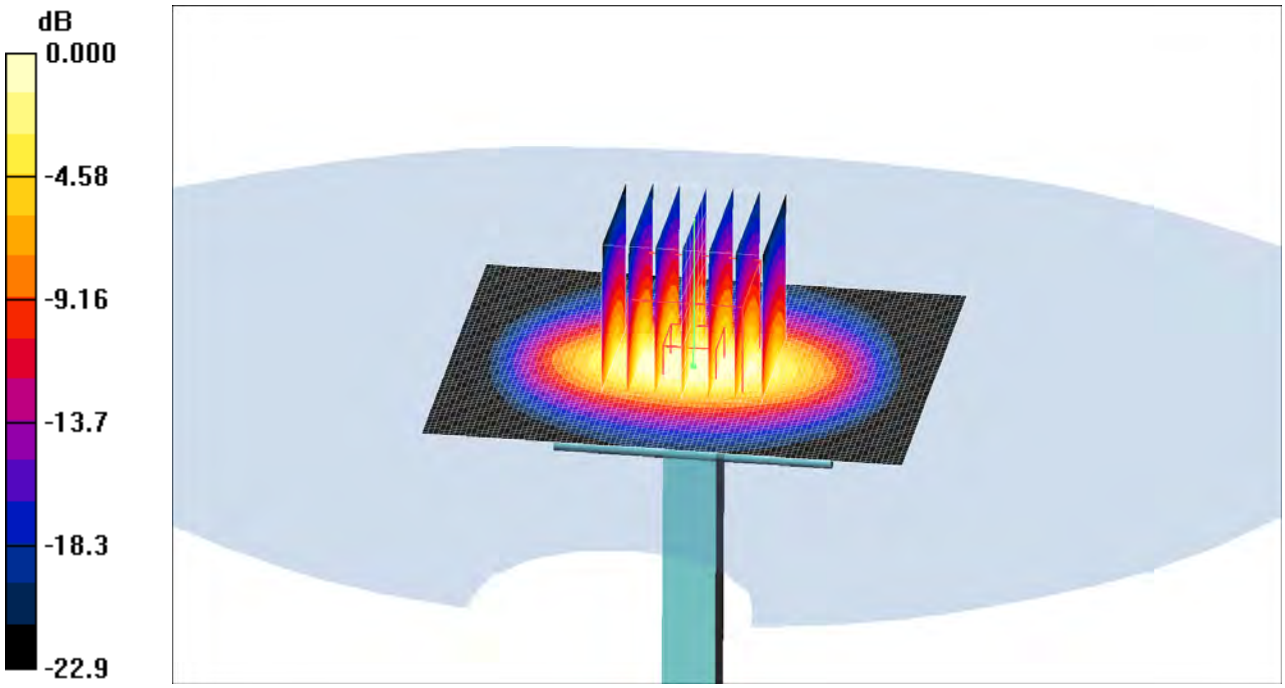
Validation-D2450-19-03-10

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; σ = 1.86 mho/m; ε_r = 38.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/11/2009
- 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) = 16.4 mW/g
  d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
  Reference Value = 99.2 V/m; Power Drift = -0.068 dB
  Peak SAR (extrapolated) = 30.0 W/kg
  SAR(1 g) = 14.2 mW/g; SAR(10 g) = 6.52 mW/g
  Maximum value of SAR (measured) = 16.1 mW/g



0 dB = 16.1mW/g

Date/Time: 3/22/2010 8:59:11 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

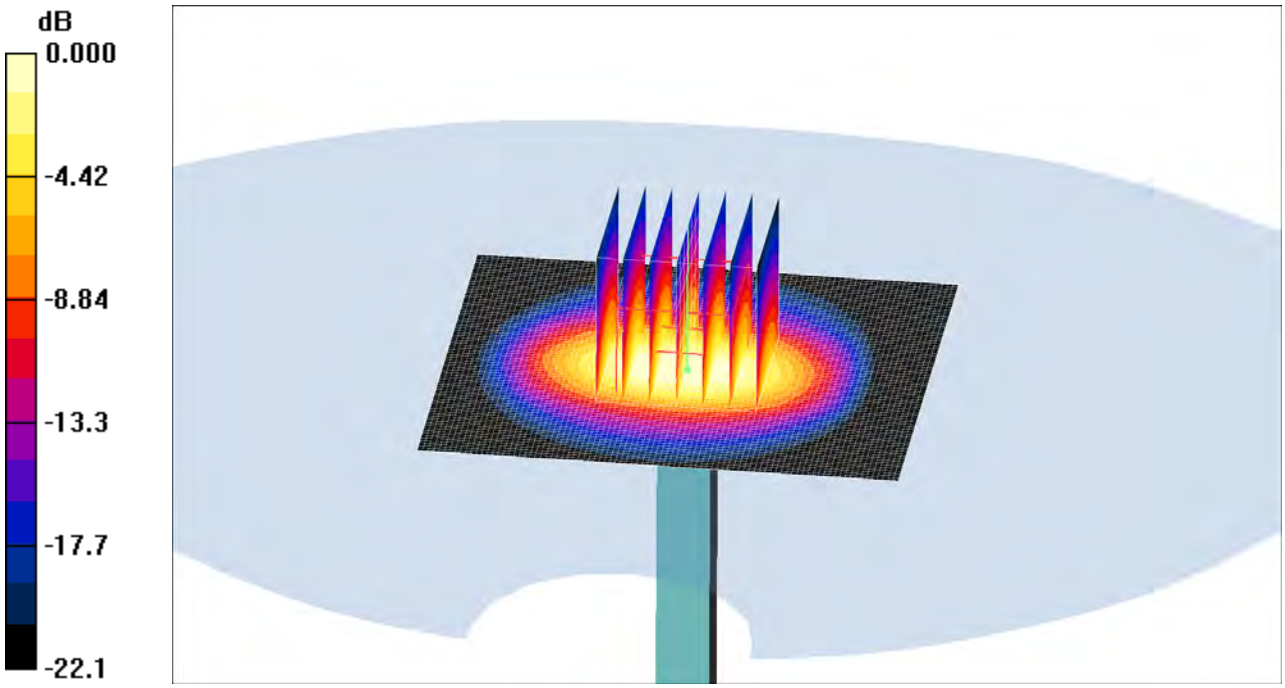
Validation-D2450-22-03-10

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; σ = 2.05 mho/m; ε_r = 50.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.16, 4.16, 4.16); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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 = 87.5 V/m; Power Drift = -0.015 dB
  Peak SAR (extrapolated) = 29.9 W/kg
  SAR(1 g) = 12.8 mW/g; SAR(10 g) = 5.84 mW/g
  Maximum value of SAR (measured) = 14.3 mW/g



0 dB = 14.3mW/g

Date/Time: 3/8/2010 12:09:56 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

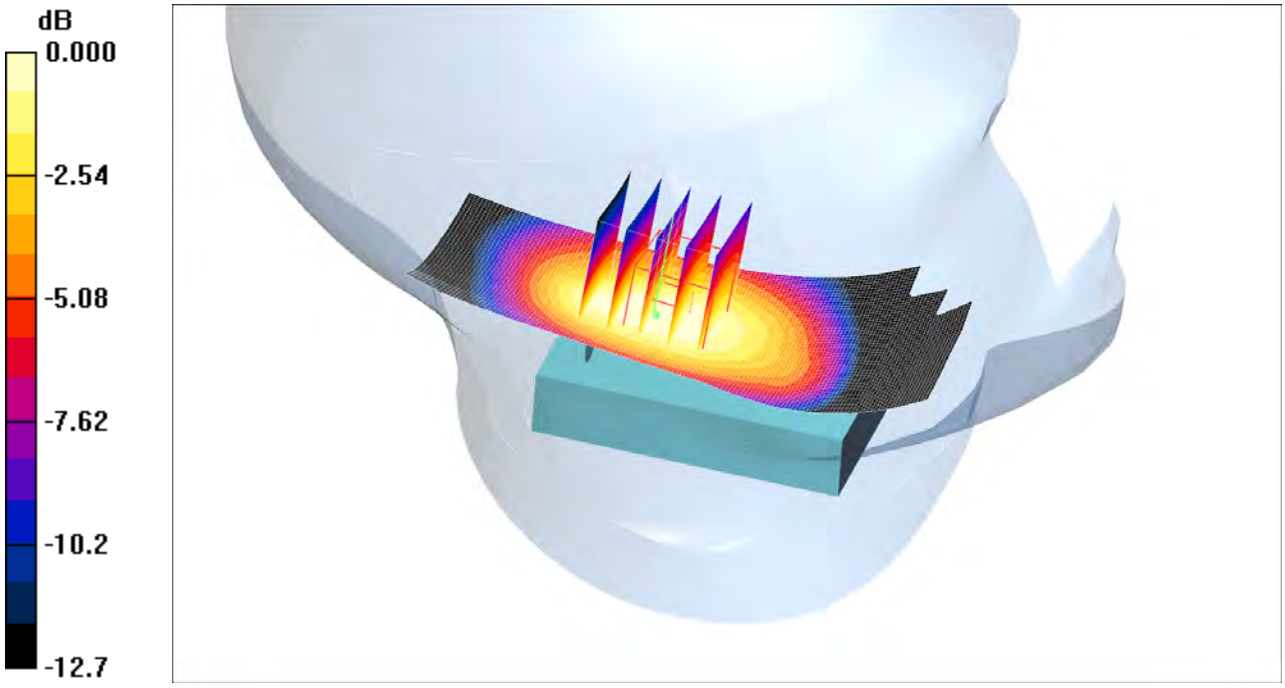
Robyn125-LeftHandSide-GSM850-Touch-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 848.8 MHz; σ = 0.89 mho/m; ε_r = 41; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.943 mW/g
  Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 30.6 V/m; Power Drift = 0.035 dB
  Peak SAR (extrapolated) = 1.19 W/kg
  SAR(1 g) = 0.861 mW/g; SAR(10 g) = 0.584 mW/g
  Maximum value of SAR (measured) = 0.922 mW/g



0 dB = 0.922mW/g

Date/Time: 3/8/2010 10:46:44 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

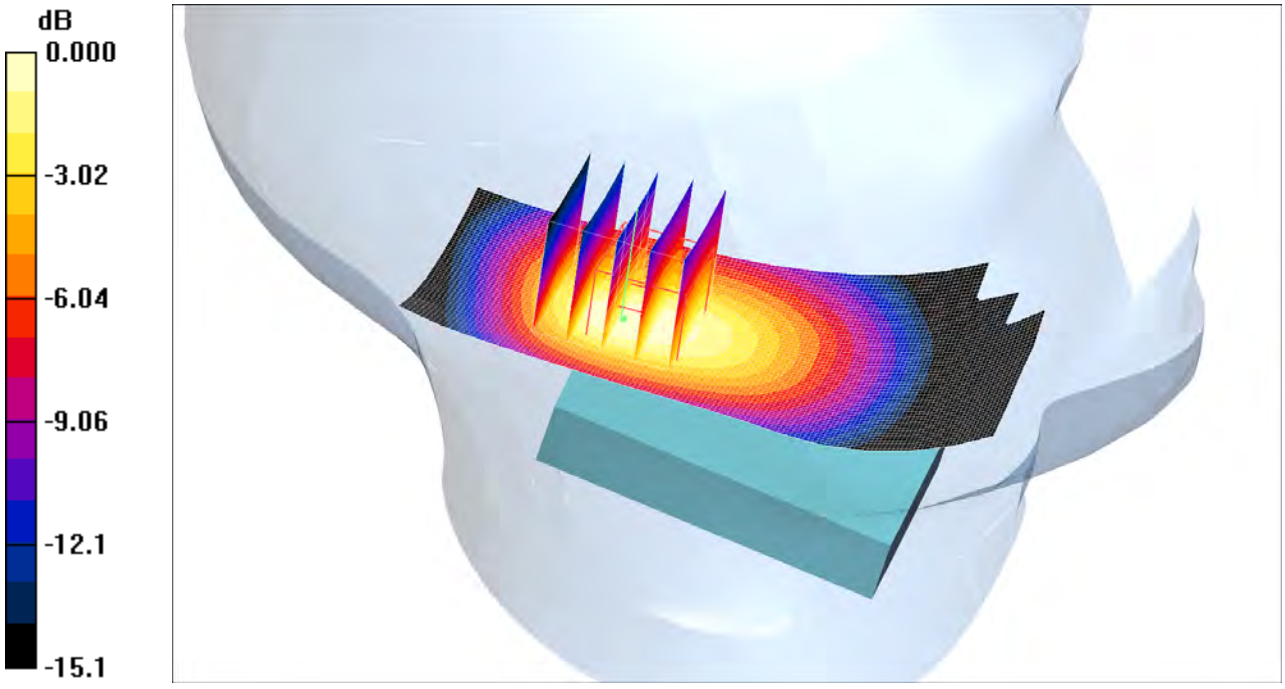
Robyn125-LeftHandSide-GSM850-Tilt-Mid

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 836.6 MHz; σ = 0.88 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.816 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 31.7 V/m; Power Drift = -0.108 dB
  Peak SAR (extrapolated) = 1.17 W/kg
  SAR(1 g) = 0.721 mW/g; SAR(10 g) = 0.430 mW/g
  Maximum value of SAR (measured) = 0.800 mW/g



0 dB = 0.800mW/g

Date/Time: 3/8/2010 4:05:48 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

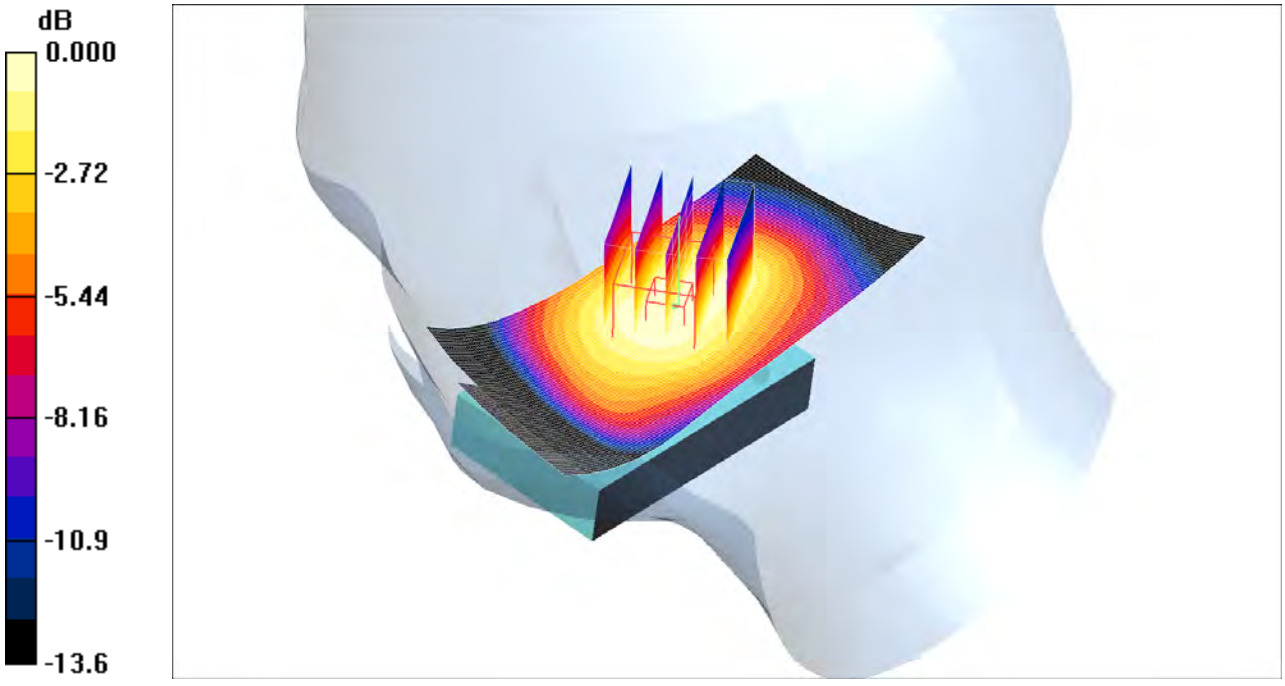
Robyn125-RightHandSide-GSM850-Touch-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 848.8 MHz; σ = 0.89 mho/m; ε_r = 41; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.966 mW/g
  Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 31.7 V/m; Power Drift = 0.059 dB
  Peak SAR (extrapolated) = 1.18 W/kg
  SAR(1 g) = 0.897 mW/g; SAR(10 g) = 0.615 mW/g
  Maximum value of SAR (measured) = 0.963 mW/g



0 dB = 0.963mW/g

Date/Time: 3/8/2010 2:34:52 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

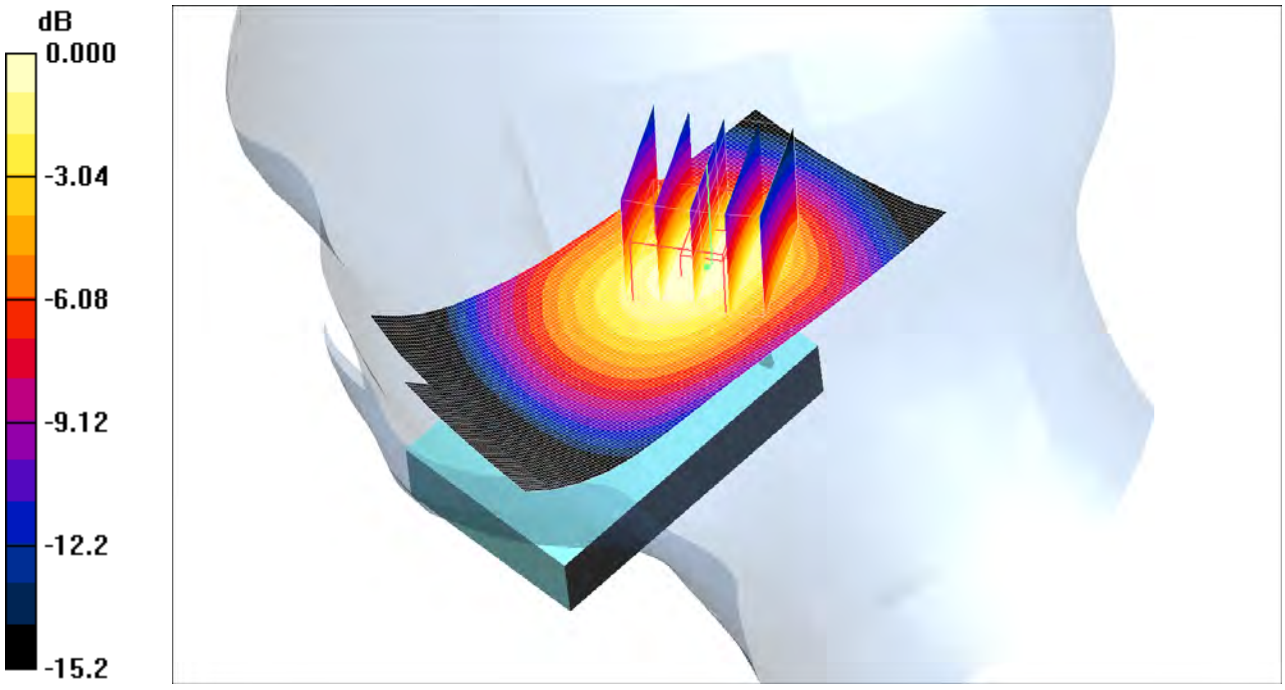
Robyn125-RightHandSide-GSM850-Tilt-Mid

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 836.6 MHz; σ = 0.88 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.834 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 31.8 V/m; Power Drift = -0.068 dB
  Peak SAR (extrapolated) = 1.16 W/kg
  SAR(1 g) = 0.735 mW/g; SAR(10 g) = 0.446 mW/g
  Maximum value of SAR (measured) = 0.818 mW/g



0 dB = 0.818mW/g

Date/Time: 3/9/2010 10:56:15 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

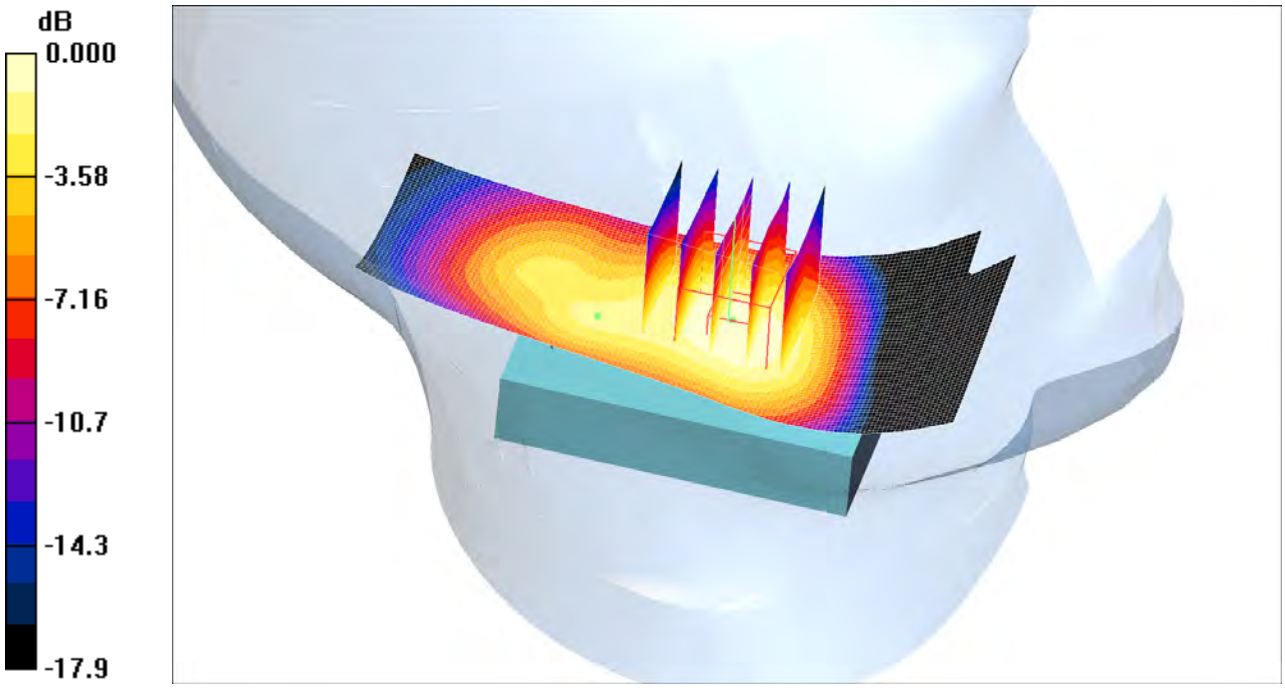
Robyn125-LeftHandSide-GSM1900-Touch-Low

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1850.2 MHz; σ = 1.4 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- 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 - low/Area Scan (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.864 mW/g
  Touch position - low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 19.3 V/m; Power Drift = -0.043 dB
  Peak SAR (extrapolated) = 0.999 W/kg
  SAR(1 g) = 0.796 mW/g; SAR(10 g) = 0.513 mW/g
  Maximum value of SAR (measured) = 0.862 mW/g



0 dB = 0.862mW/g

Date/Time: 3/9/2010 9:32:58 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

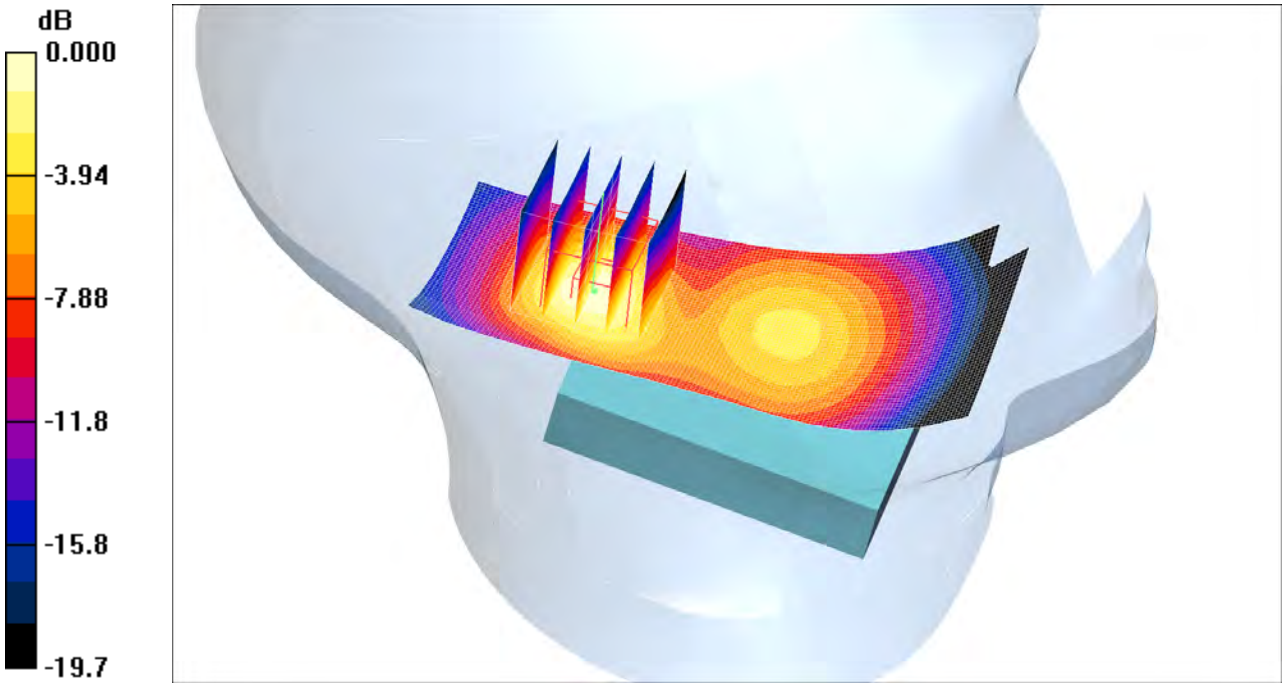
Robyn125-LeftHandSide-GSM1900-Tilt-Mid

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.43 mho/m; ε_r = 38.1; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.621 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 21.8 V/m; Power Drift = -0.053 dB
  Peak SAR (extrapolated) = 1.03 W/kg
  SAR(1 g) = 0.535 mW/g; SAR(10 g) = 0.264 mW/g
  Maximum value of SAR (measured) = 0.613 mW/g



0 dB = 0.613mW/g

Date/Time: 3/9/2010 3:31:00 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

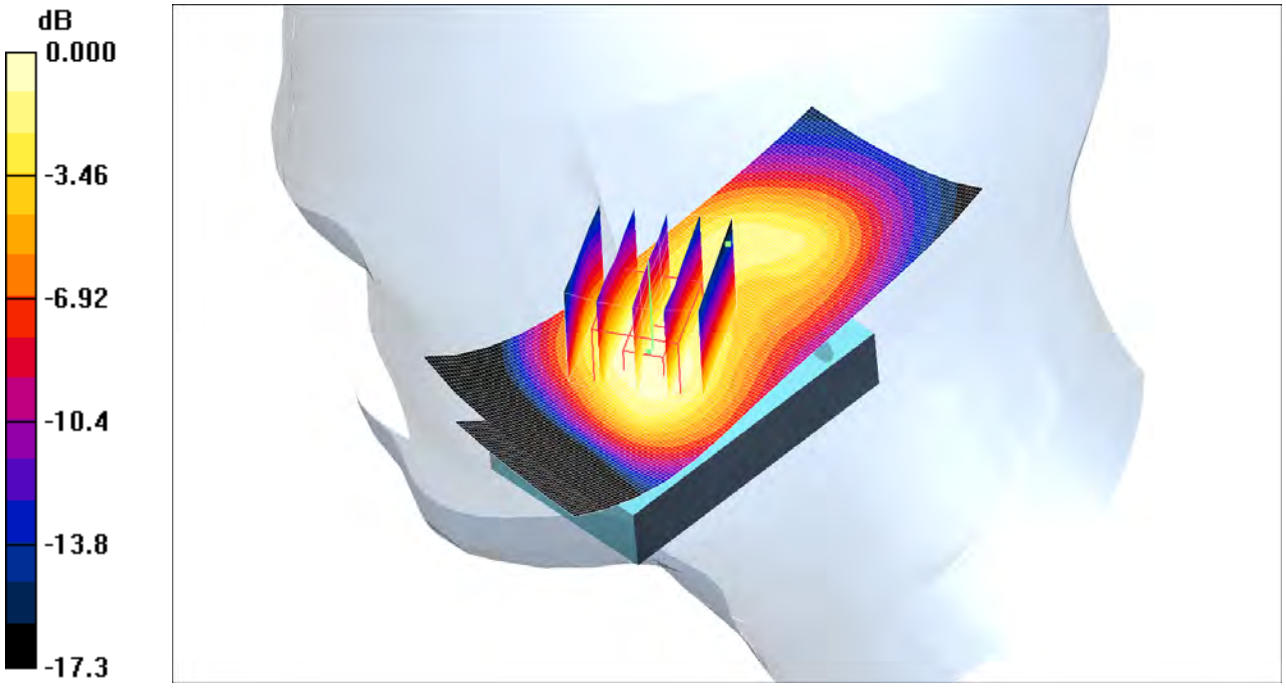
Robyn125-RightHandSide-GSM1900-Touch-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1909.8 MHz; σ = 1.46 mho/m; ε_r = 38; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.955 mW/g
  Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 20.0 V/m; Power Drift = -0.005 dB
  Peak SAR (extrapolated) = 1.09 W/kg
  SAR(1 g) = 0.859 mW/g; SAR(10 g) = 0.535 mW/g
  Maximum value of SAR (measured) = 0.925 mW/g



0 dB = 0.925mW/g

Date/Time: 3/9/2010 1:50:11 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

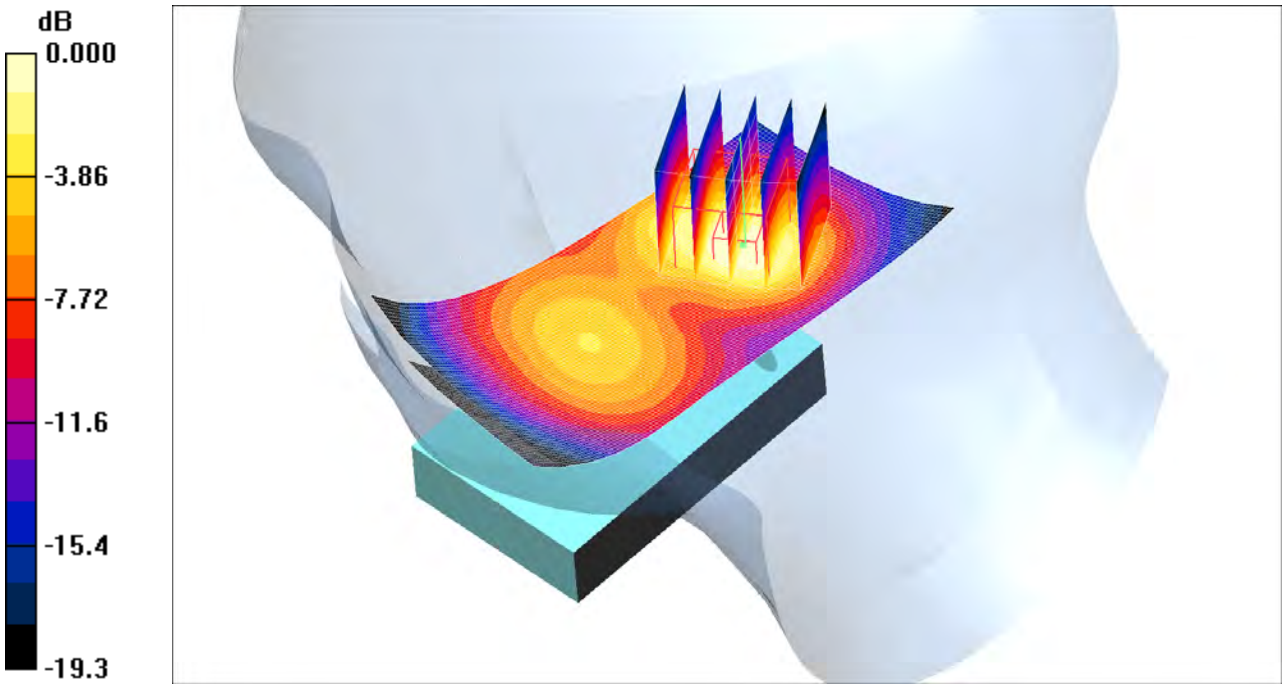
Robyn125-RightHandSide-GSM1900-Tilt-Mid

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.43 mho/m; ε_r = 38.1; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.717 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 21.3 V/m; Power Drift = -0.057 dB
  Peak SAR (extrapolated) = 1.18 W/kg
  SAR(1 g) = 0.613 mW/g; SAR(10 g) = 0.306 mW/g
  Maximum value of SAR (measured) = 0.701 mW/g



0 dB = 0.701mW/g

Date/Time: 3/10/2010 12:42:39 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

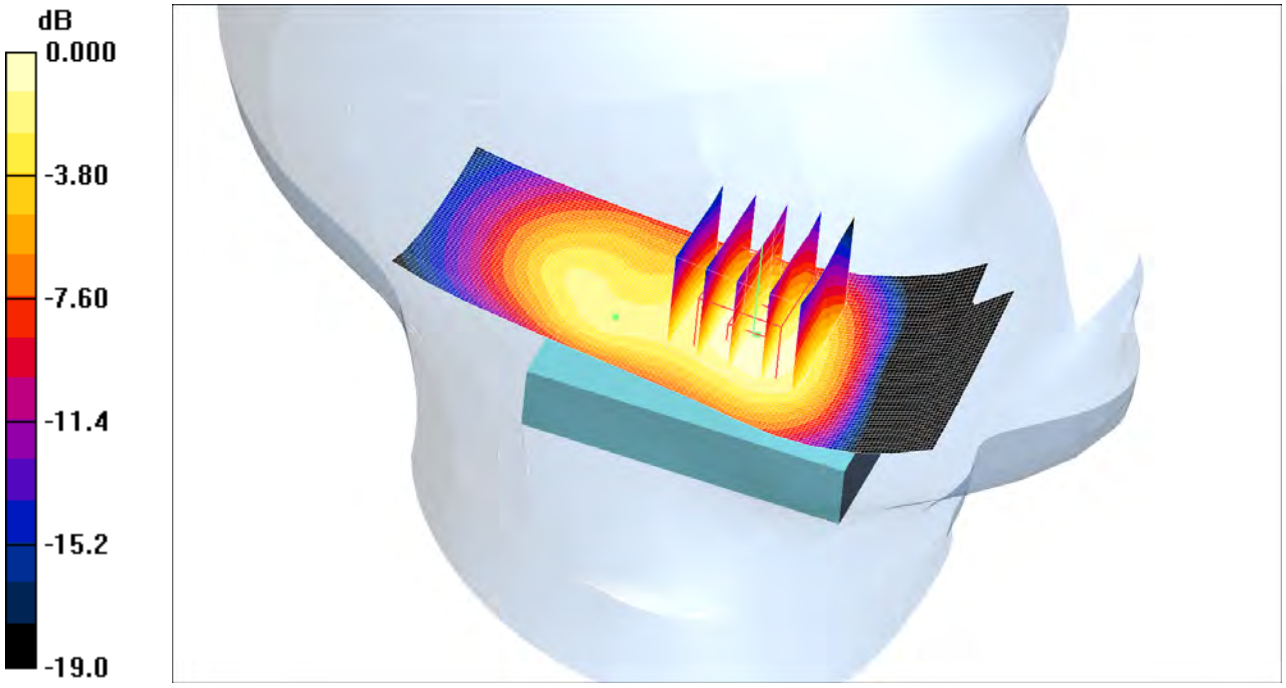
Robyn125-LeftHandSide-UMTS2-Touch-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.46 mho/m; ε_r = 38; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.13 mW/g
  Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 23.4 V/m; Power Drift = 0.123 dB
  Peak SAR (extrapolated) = 1.34 W/kg
  SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.668 mW/g
  Maximum value of SAR (measured) = 1.15 mW/g



0 dB = 1.15mW/g

Date/Time: 3/10/2010 10:22:10 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

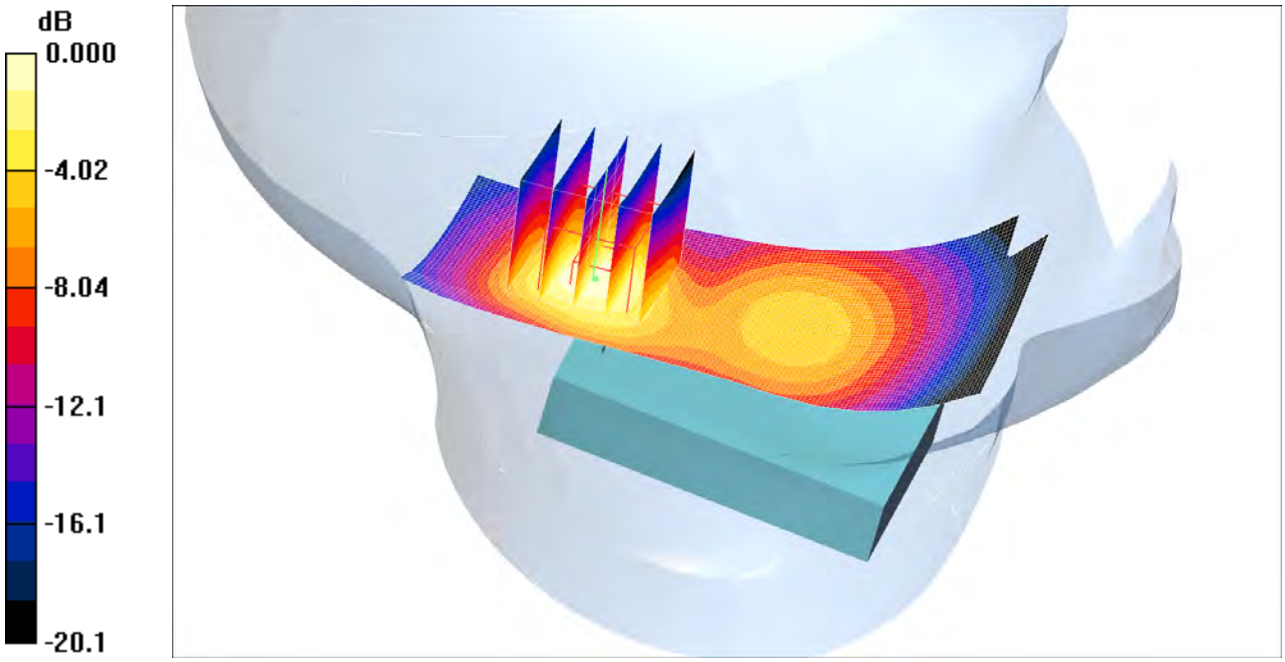
Robyn125-LeftHandSide-UMTS2-Tilt-Mid

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.43 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.734 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 23.4 V/m; Power Drift = 0.131 dB
  Peak SAR (extrapolated) = 1.23 W/kg
  SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.318 mW/g
  Maximum value of SAR (measured) = 0.739 mW/g



0 dB = 0.739mW/g

Date/Time: 3/10/2010 4:29:22 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

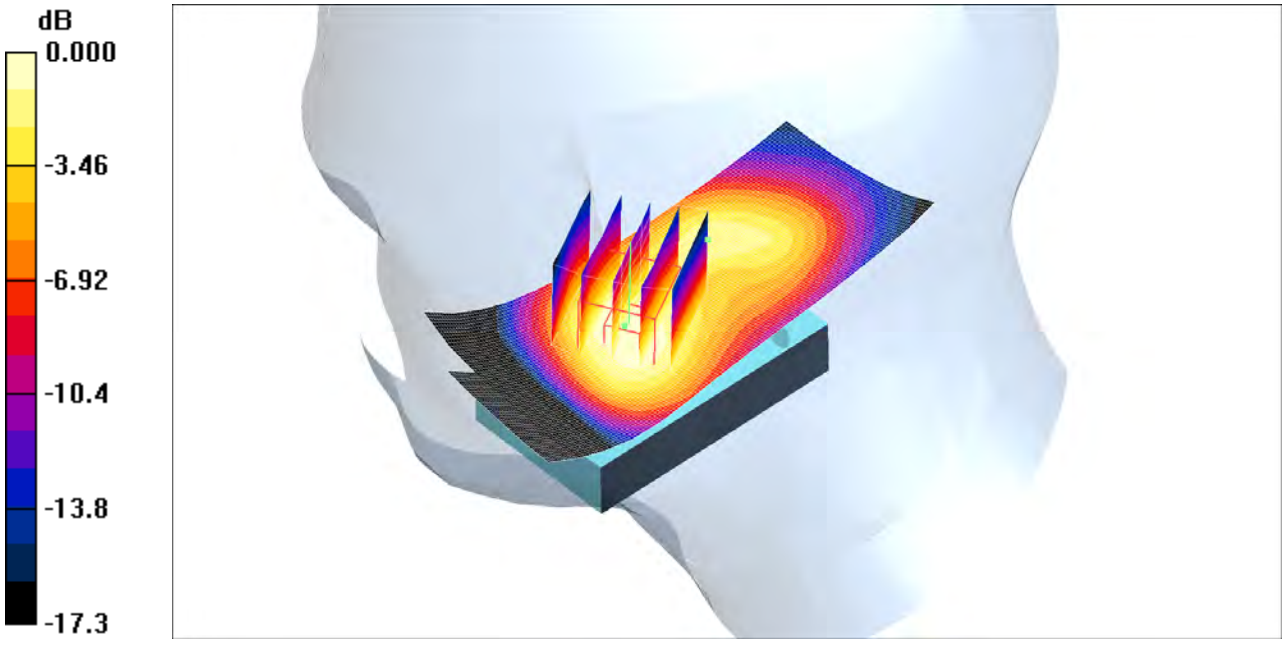
Robyn125-RightHandSide-UMTS2-Touch-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.46 mho/m; ε_r = 38; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.25 mW/g
  Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 23.1 V/m; Power Drift = 0.066 dB
  Peak SAR (extrapolated) = 1.44 W/kg
  SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.708 mW/g
  Maximum value of SAR (measured) = 1.23 mW/g



0 dB = 1.23mW/g

Date/Time: 3/10/2010 2:40:09 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

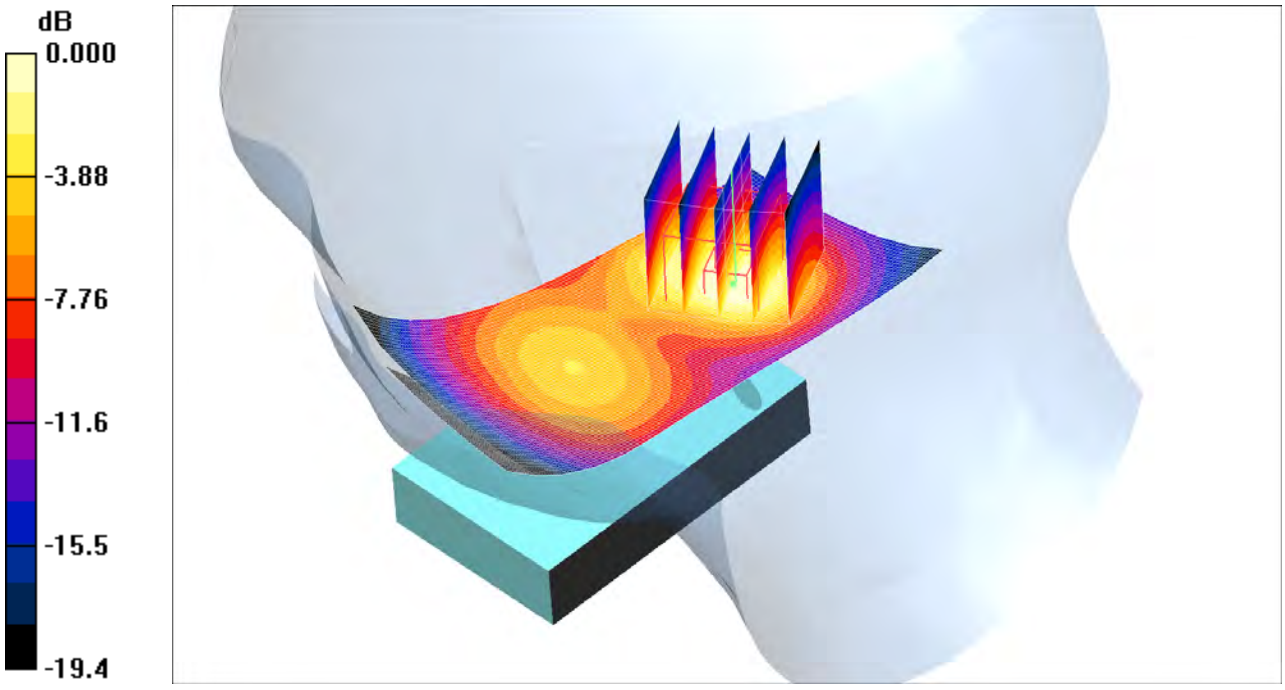
Robyn125-RightHandSide-UMTS2-Tilt-Mid

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.43 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.932 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 23.7 V/m; Power Drift = 0.068 dB
  Peak SAR (extrapolated) = 1.51 W/kg
  SAR(1 g) = 0.795 mW/g; SAR(10 g) = 0.400 mW/g
  Maximum value of SAR (measured) = 0.904 mW/g



0 dB = 0.904mW/g

Date/Time: 3/11/2010 11:33:22 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

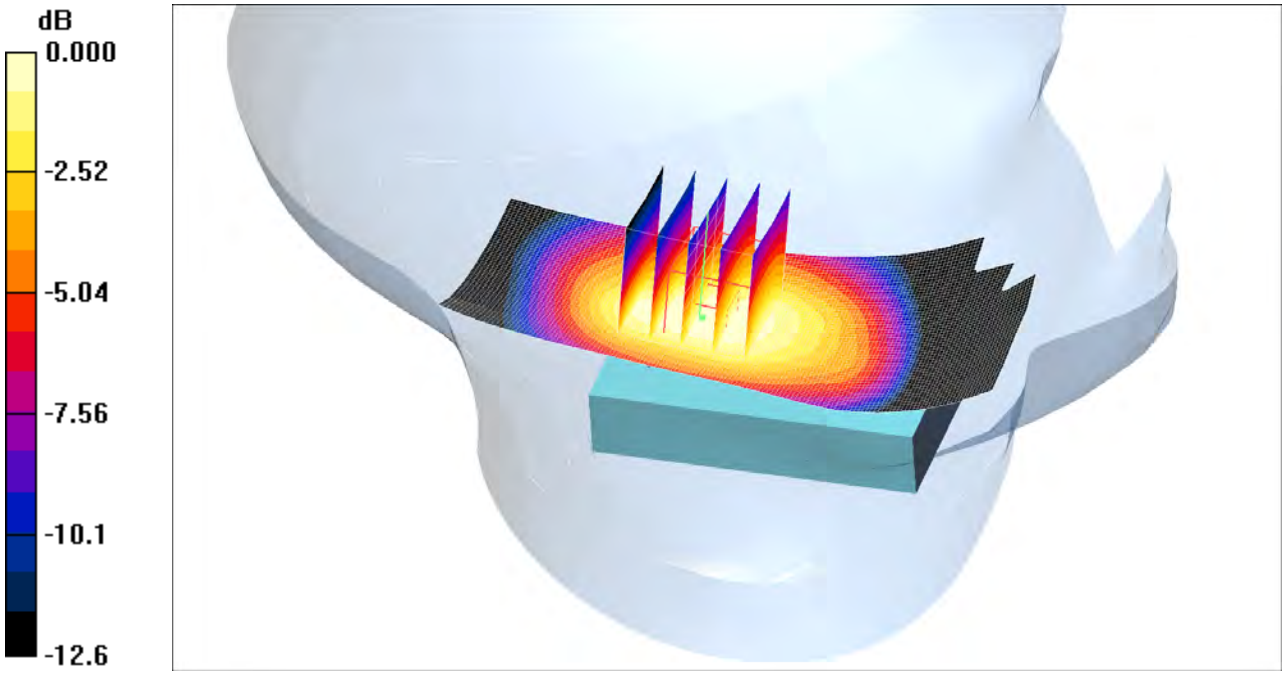
Robyn125-LeftHandSide-UMTS5-Touch-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band5; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 846.6 MHz; σ = 0.89 mho/m; ε_r = 41; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.832 mW/g
  Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 29.4 V/m; Power Drift = 0.032 dB
  Peak SAR (extrapolated) = 1.06 W/kg
  SAR(1 g) = 0.768 mW/g; SAR(10 g) = 0.521 mW/g
  Maximum value of SAR (measured) = 0.823 mW/g



0 dB = 0.823mW/g

Date/Time: 3/11/2010 9:34:55 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

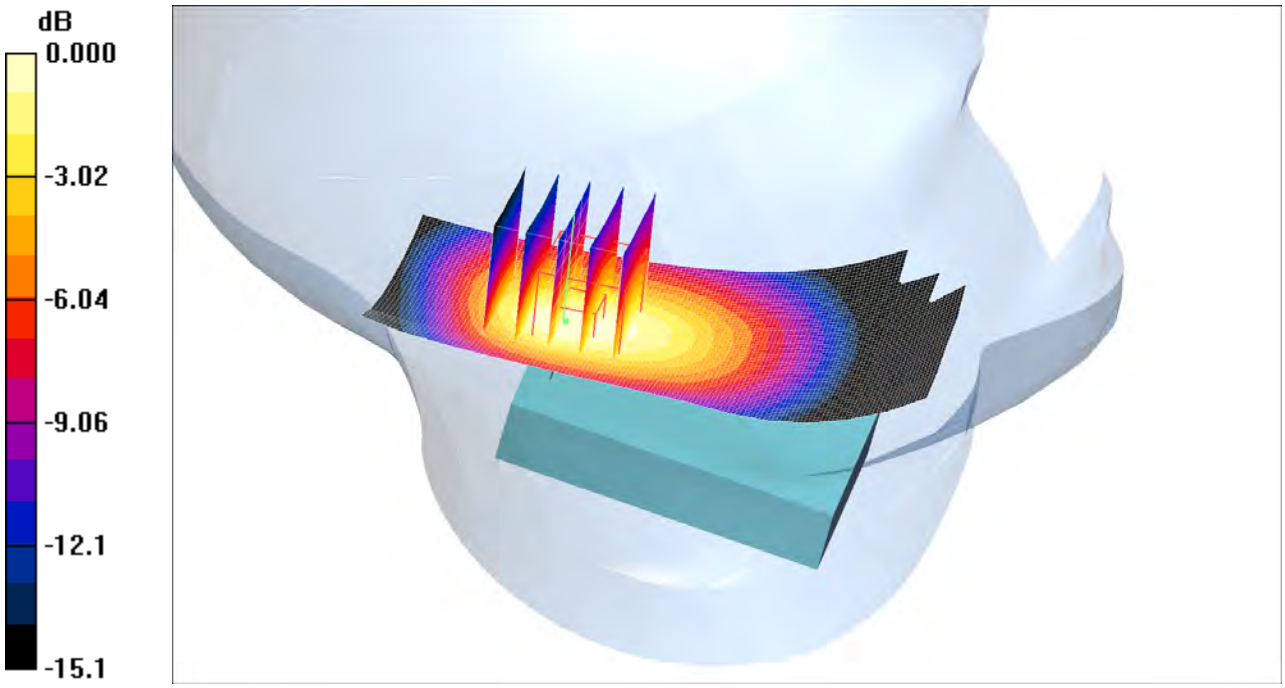
Robyn125-LeftHandSide-UMTS5-Tilt-Mid

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band5; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.88 mho/m; ε_r = 41.2; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.668 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 29.0 V/m; Power Drift = -0.215 dB
  Peak SAR (extrapolated) = 0.947 W/kg
  SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.351 mW/g
  Maximum value of SAR (measured) = 0.656 mW/g



0 dB = 0.656mW/g

Date/Time: 3/11/2010 3:47:44 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

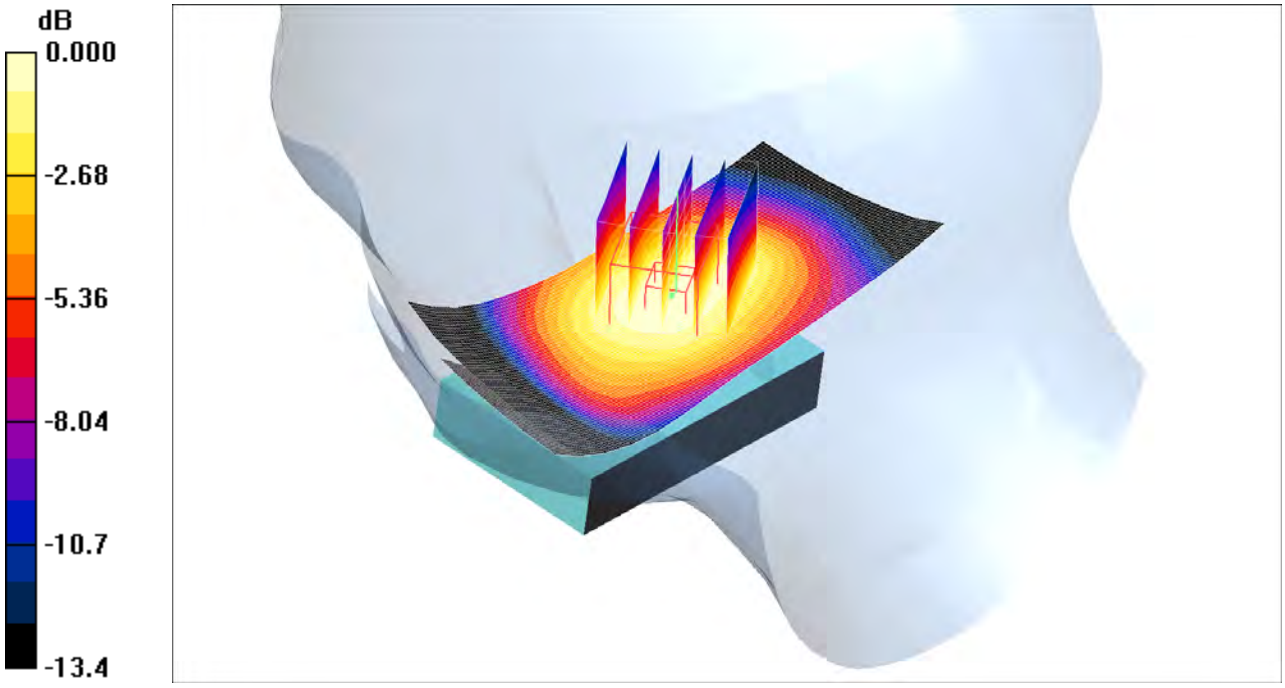
Robyn125-RightHandSide-UMTS5-Touch-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band5; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 846.6 MHz; σ = 0.89 mho/m; ε_r = 41; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.896 mW/g
  Touch position - High -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 30.5 V/m; Power Drift = -0.015 dB
  Peak SAR (extrapolated) = 1.12 W/kg
  SAR(1 g) = 0.845 mW/g; SAR(10 g) = 0.576 mW/g
  Maximum value of SAR (measured) = 0.908 mW/g



0 dB = 0.908mW/g

Date/Time: 3/11/2010 1:41:55 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

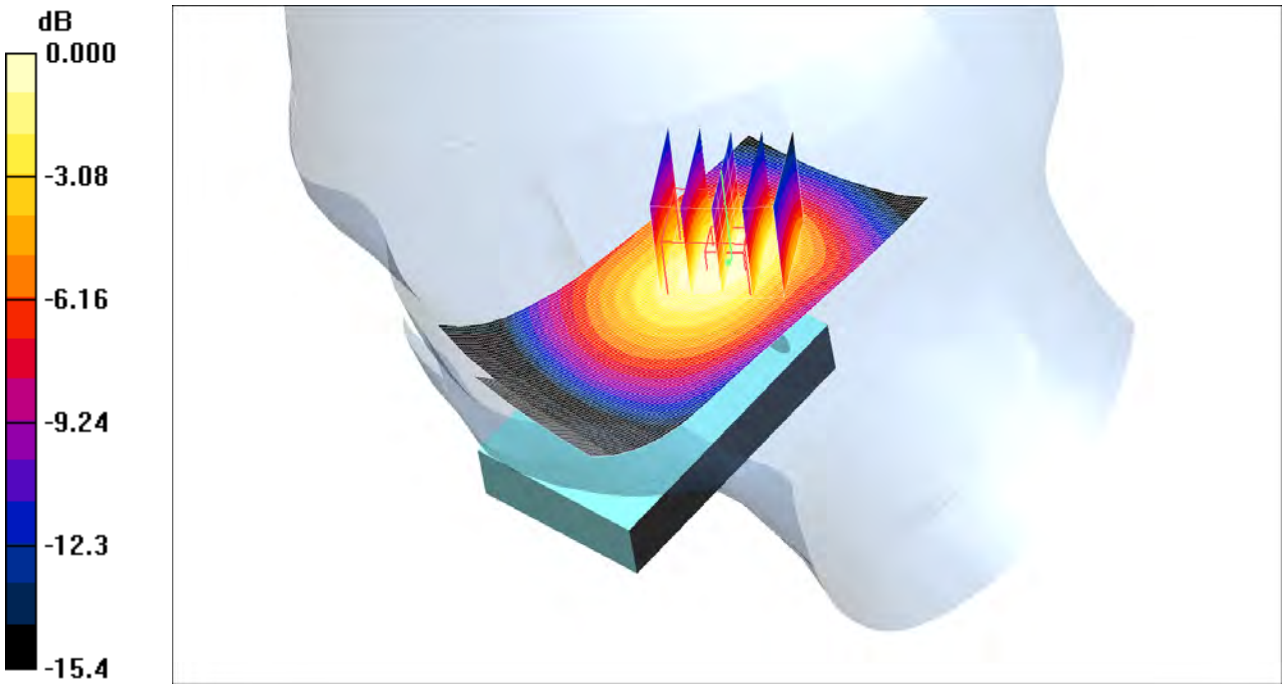
Robyn125-RightHandSide-UMTS5-Tilt-Mid

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band5; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.88 mho/m; ε_r = 41.2; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.665 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 28.9 V/m; Power Drift = -0.233 dB
  Peak SAR (extrapolated) = 0.969 W/kg
  SAR(1 g) = 0.602 mW/g; SAR(10 g) = 0.362 mW/g
  Maximum value of SAR (measured) = 0.669 mW/g



0 dB = 0.669mW/g

Date/Time: 3/29/2010 10:02:12 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

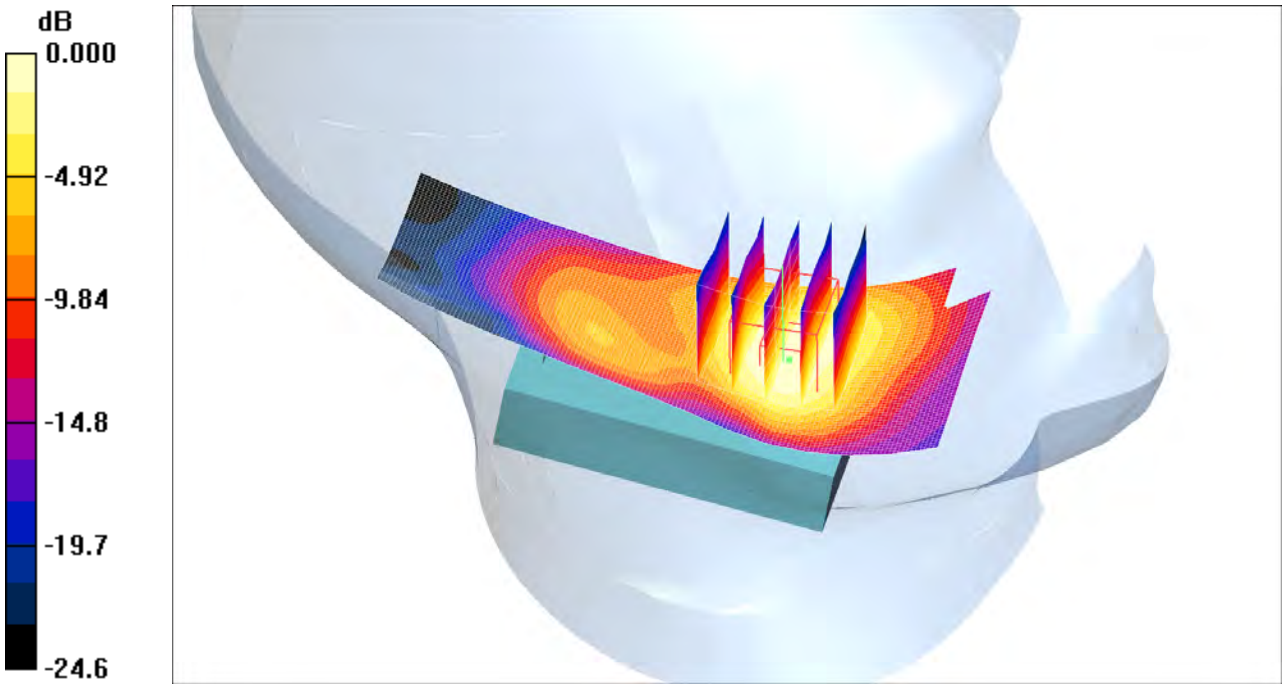
Robyn125-LeftHandSide-WLAN-Touch-Mid

DUT: Robyn; Type: DUT; Serial: #17769

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.87 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/11/2009
- 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/Area Scan (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.266 mW/g
  Touch position/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 4.84 V/m; Power Drift = -0.118 dB
  Peak SAR (extrapolated) = 0.413 W/kg
  SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.125 mW/g
  Maximum value of SAR (measured) = 0.262 mW/g



0 dB = 0.262mW/g

Date/Time: 3/29/2010 10:20:32 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

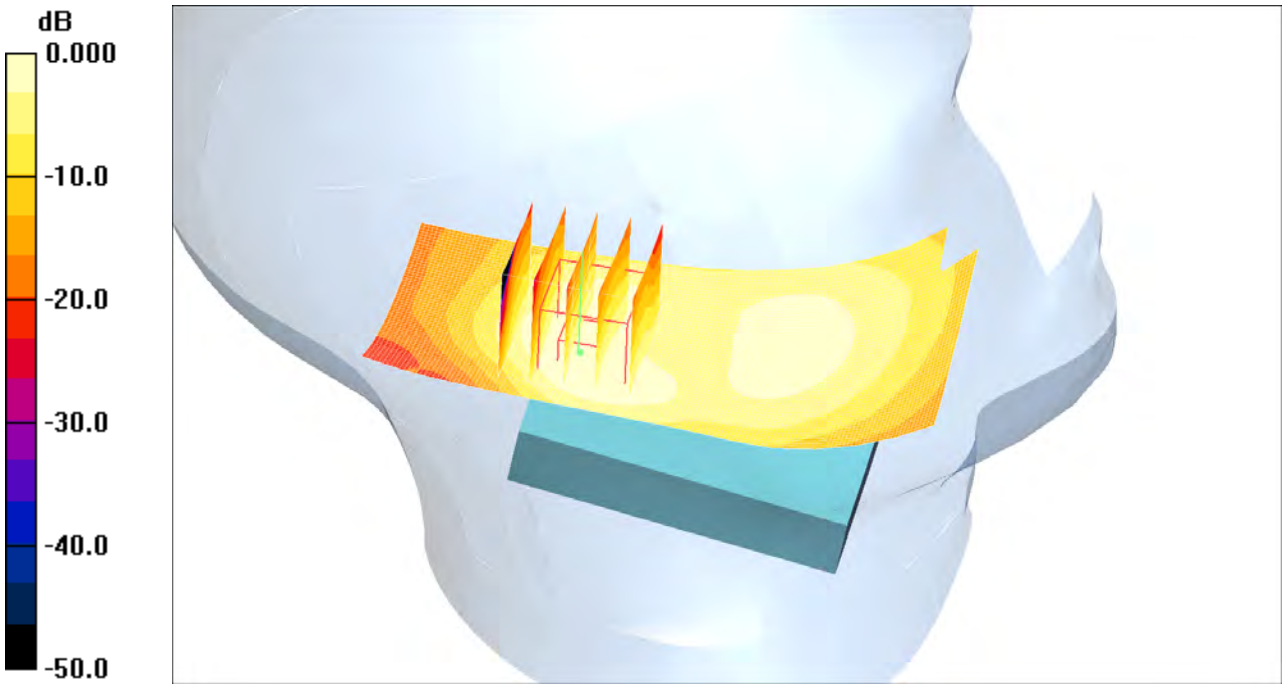
Robyn125-LeftHandSide-WLAN-Tilt-Mid

DUT: Robyn; Type: DUT; Serial: #17769

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.87 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.079 mW/g
  Tilt position/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 6.59 V/m; Power Drift = -0.210 dB
  Peak SAR (extrapolated) = 0.123 W/kg
  SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.037 mW/g
  Maximum value of SAR (measured) = 0.076 mW/g



0 dB = 0.076mW/g

Date/Time: 3/19/2010 10:24:41 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

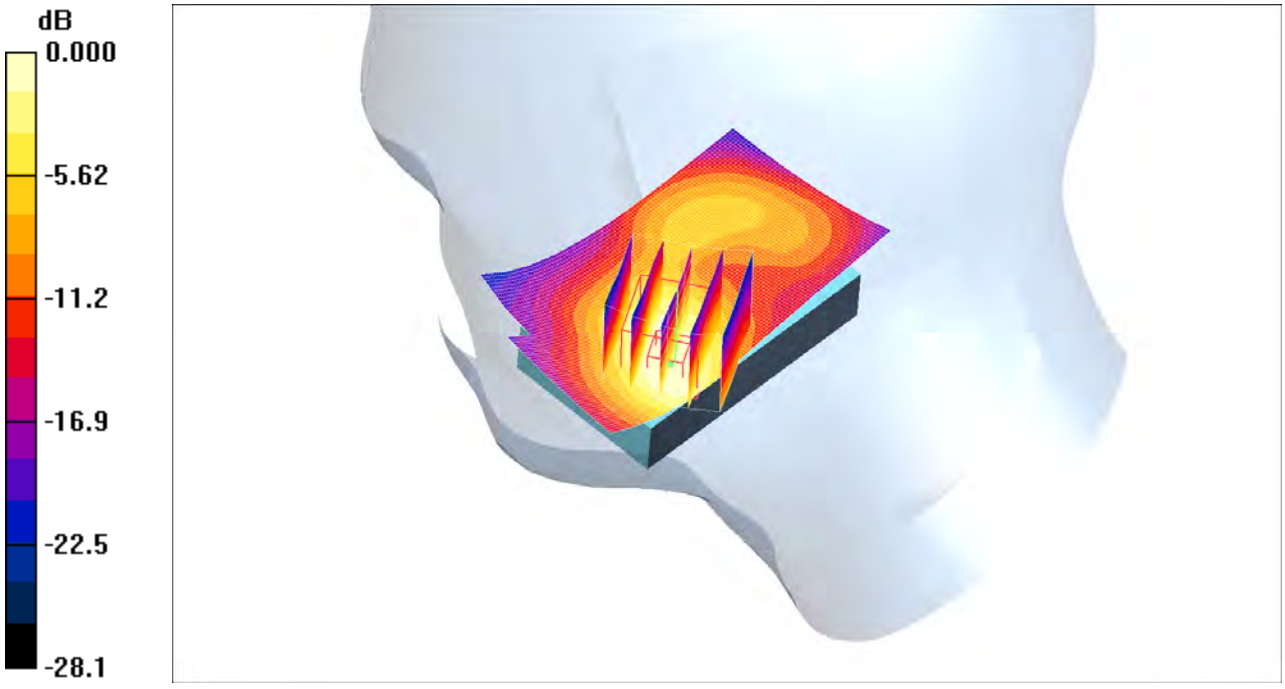
Robyn125-RightHandSide-WLAN-Touch-Low

DUT: Robyn; Type: DUT; Serial: #17769

Communication System: WLAN; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2412 MHz; σ = 1.81 mho/m; ε_r = 38.3; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/11/2009
- 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 2/Area Scan (61x111x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.315 mW/g
  Touch position 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 4.94 V/m; Power Drift = -0.202 dB
  Peak SAR (extrapolated) = 0.573 W/kg
  SAR(1 g) = 0.270 mW/g; SAR(10 g) = 0.128 mW/g
  Maximum value of SAR (measured) = 0.302 mW/g



0 dB = 0.302mW/g

Date/Time: 3/19/2010 9:19:04 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

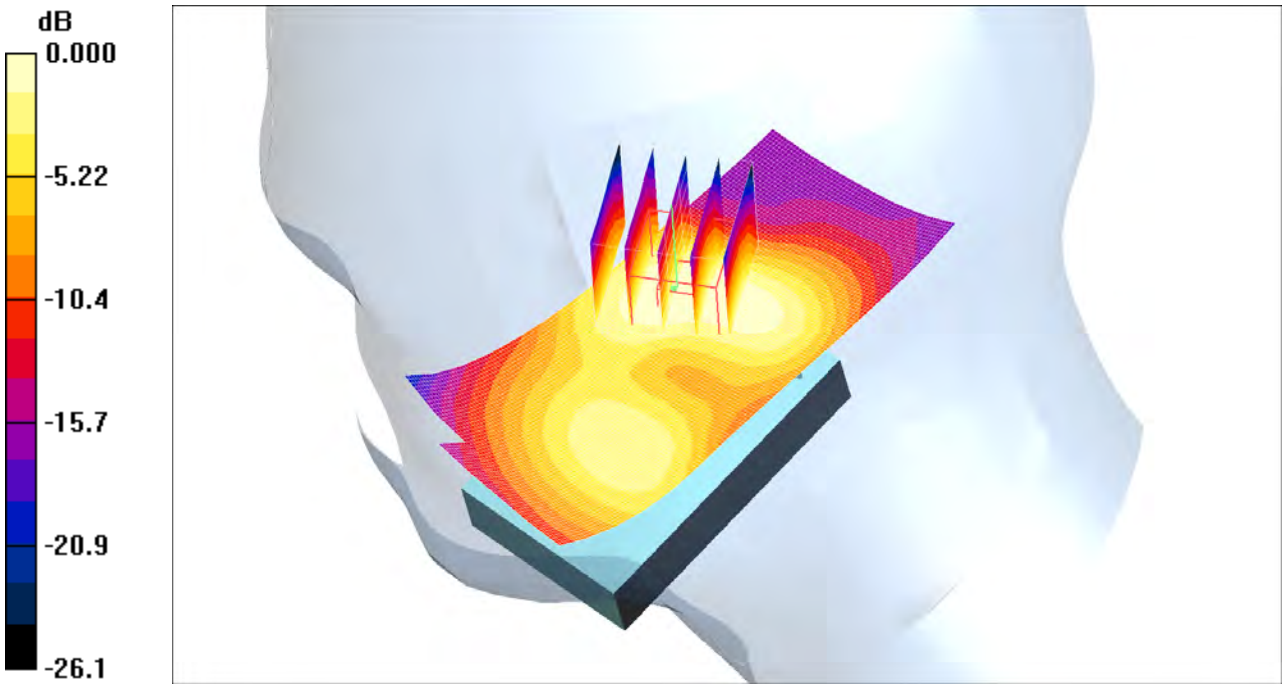
Robyn125-RightHandSide-WLAN-Tilt-Mid

DUT: Robyn; Type: DUT; Serial: #17769

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.84 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/11/2009
- 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 (61x141x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.093 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 6.60 V/m; Power Drift = -0.292 dB
  Peak SAR (extrapolated) = 0.151 W/kg
  SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.044 mW/g
  Maximum value of SAR (measured) = 0.089 mW/g



0 dB = 0.089mW/g

Date/Time: 3/16/2010 1:15:46 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

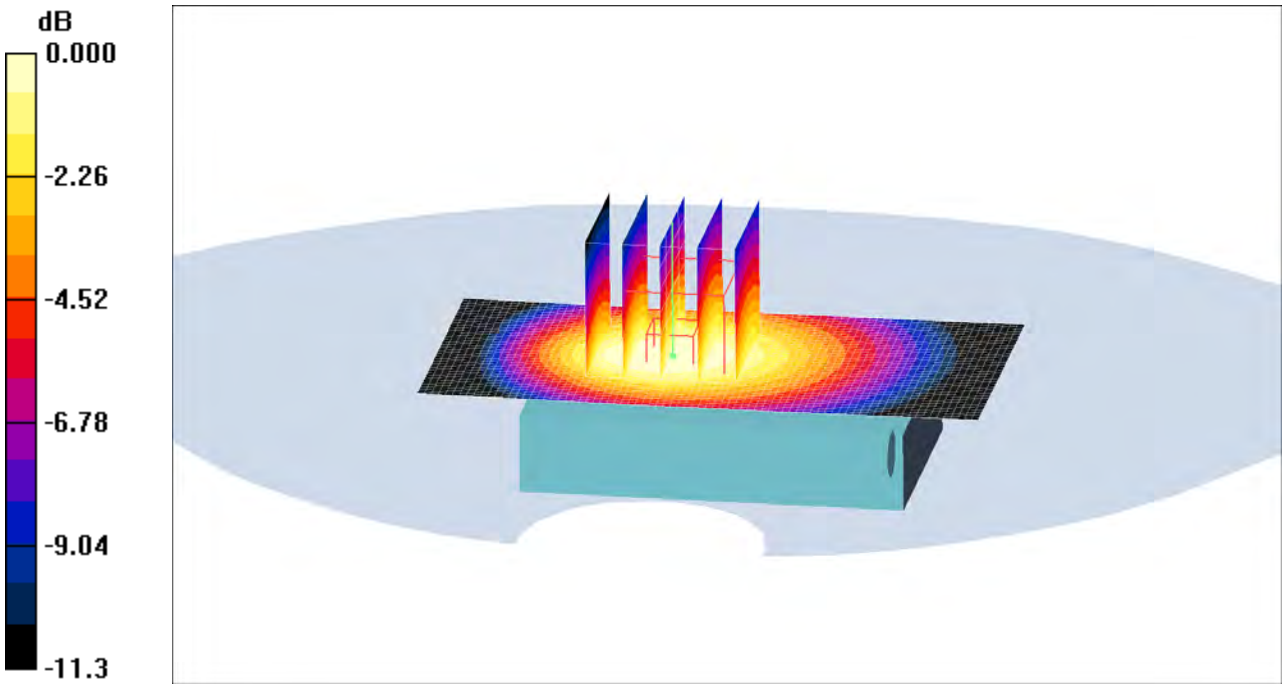
Body-Flat15mm-Robyn125-850-GPRS-2slot-Low

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 824.2 MHz; σ = 0.95 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  GPRS 2Slot 2/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.648 mW/g
  GPRS 2Slot 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 25.4 V/m; Power Drift = 0.050 dB
  Peak SAR (extrapolated) = 0.762 W/kg
  SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.407 mW/g
  Maximum value of SAR (measured) = 0.633 mW/g



0 dB = 0.633mW/g

Date/Time: 3/16/2010 12:04:47 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

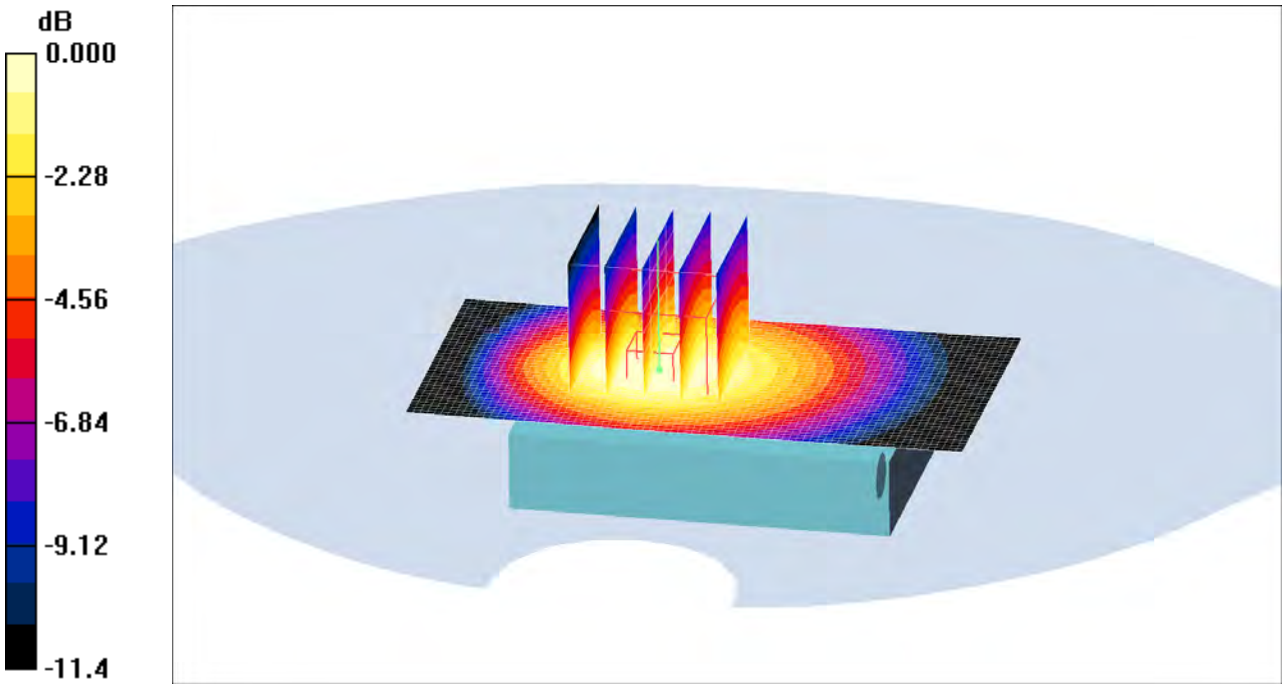
Body-Flat15mm-Robyn125-850-GPRS-2slot-Mid

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 836.6 MHz; σ = 0.96 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  GPRS 2Slot/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.918 mW/g
  GPRS 2Slot/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 30.1 V/m; Power Drift = -0.083 dB
  Peak SAR (extrapolated) = 1.10 W/kg
  SAR(1 g) = 0.839 mW/g; SAR(10 g) = 0.579 mW/g
  Maximum value of SAR (measured) = 0.903 mW/g



0 dB = 0.903mW/g

Date/Time: 3/16/2010 2:25:25 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

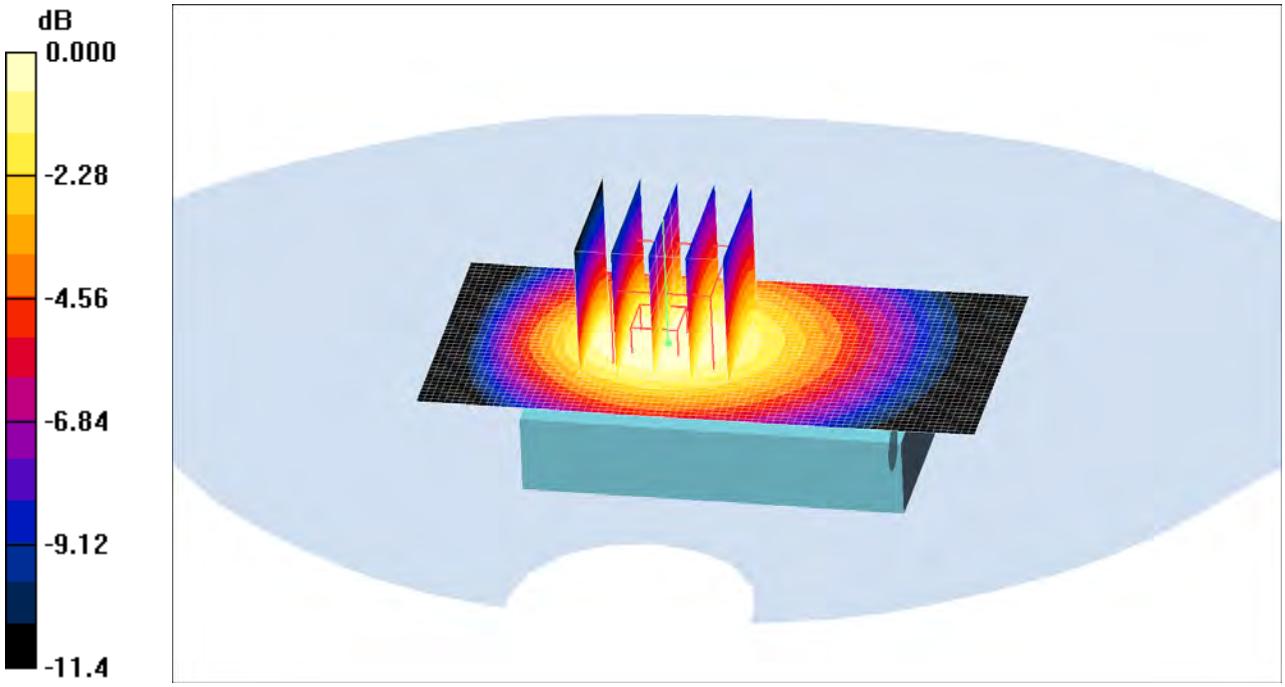
Body-Flat15mm-Robyn125-850-GPRS-2slot-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 848.8 MHz; σ = 0.97 mho/m; ε_r = 52.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  GPRS 2Slot 3/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 1.20 mW/g
  GPRS 2Slot 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 34.0 V/m; Power Drift = -0.140 dB
  Peak SAR (extrapolated) = 1.44 W/kg
  SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.739 mW/g
  Maximum value of SAR (measured) = 1.15 mW/g



0 dB = 1.15mW/g

Date/Time: 3/16/2010 10:55:03 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

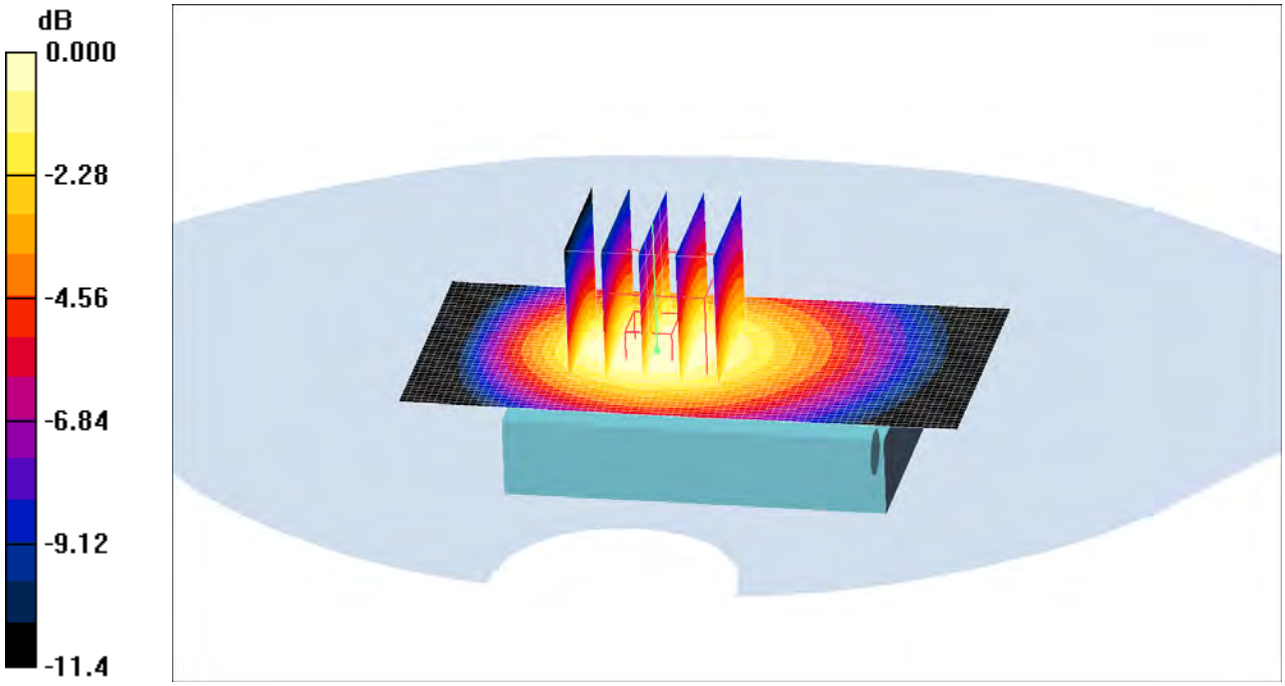
Body-Flat15mm-Robyn125-850-Speech-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 848.8 MHz; σ = 0.97 mho/m; ε_r = 52.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.754 mW/g
  Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 27.2 V/m; Power Drift = 0.030 dB
  Peak SAR (extrapolated) = 0.901 W/kg
  SAR(1 g) = 0.686 mW/g; SAR(10 g) = 0.472 mW/g
  Maximum value of SAR (measured) = 0.732 mW/g



0 dB = 0.732mW/g

Date/Time: 3/12/2010 12:51:16 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

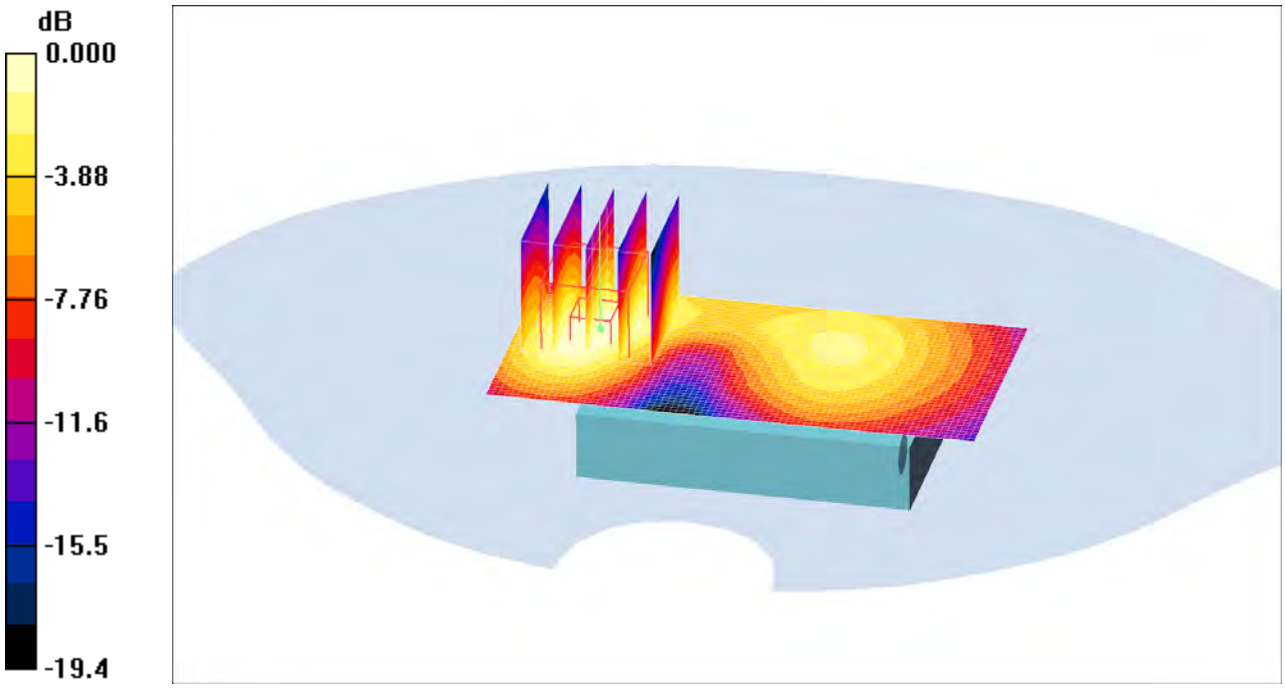
Body-Flat15mm-Robyn125-1900-GPRS-3slot-Low

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GPRS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:3.1125
Medium parameters used: f = 1850.2 MHz; σ = 1.53 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  GPRS 3Slot 2/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.459 mW/g
  GPRS 3Slot 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 9.82 V/m; Power Drift = -0.018 dB
  Peak SAR (extrapolated) = 0.574 W/kg
  SAR(1 g) = 0.405 mW/g; SAR(10 g) = 0.233 mW/g
  Maximum value of SAR (measured) = 0.454 mW/g



0 dB = 0.454mW/g

Date/Time: 3/12/2010 11:45:36 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

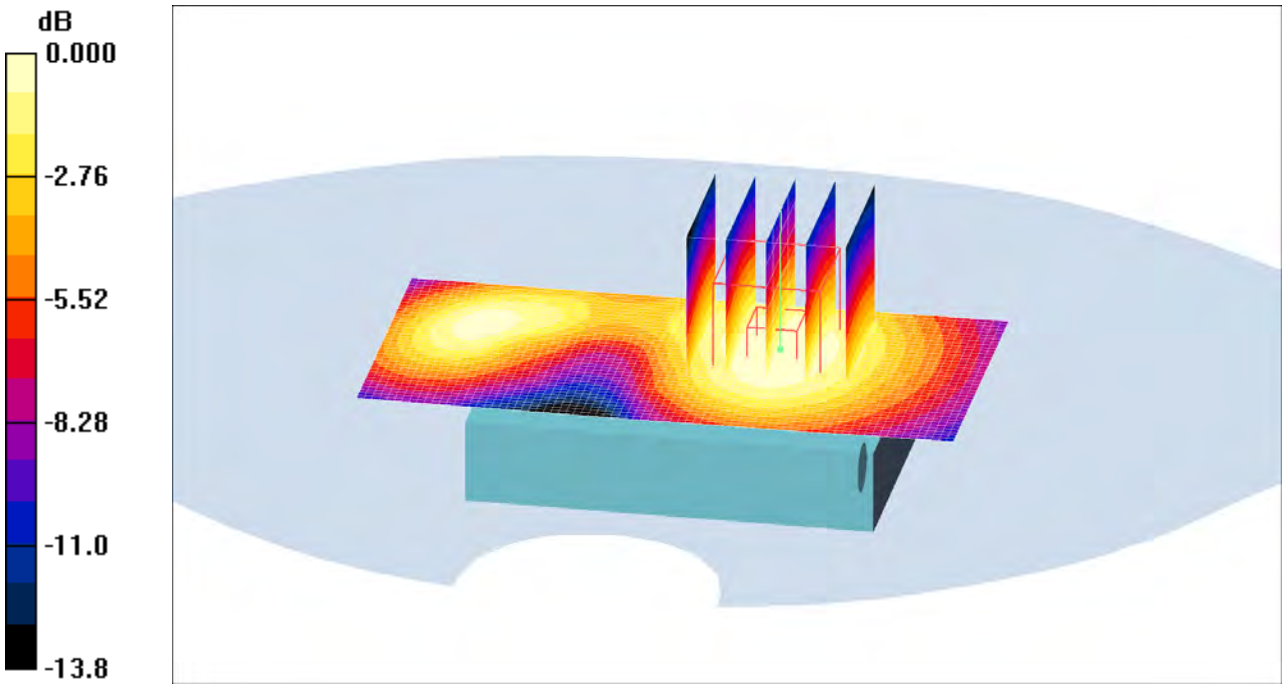
Body-Flat15mm-Robyn125-1900-GPRS-3slot-Mid

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:3.1125
Medium parameters used: f = 1880 MHz; σ = 1.56 mho/m; ε_r = 50.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  GPRS 3Slot/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.296 mW/g
  GPRS 3Slot/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 10.8 V/m; Power Drift = -0.105 dB
  Peak SAR (extrapolated) = 0.353 W/kg
  SAR(1 g) = 0.266 mW/g; SAR(10 g) = 0.175 mW/g
  Maximum value of SAR (measured) = 0.287 mW/g



0 dB = 0.287mW/g

Date/Time: 3/12/2010 1:30:39 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

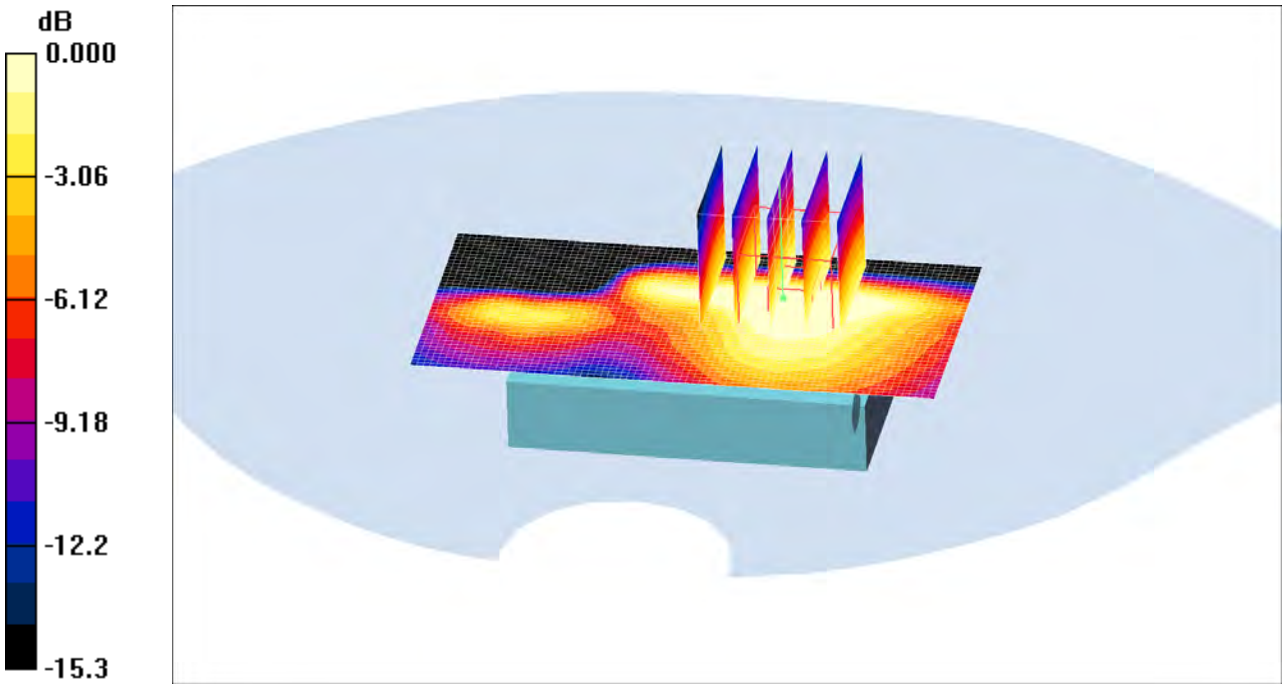
Body-Flat15mm-Robyn125-1900-GPRS-3slot-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GPRS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:3.1125
Medium parameters used: f = 1909.8 MHz; σ = 1.59 mho/m; ε_r = 50.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  GPRS 3Slot 3/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.500 mW/g
  GPRS 3Slot 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 8.99 V/m; Power Drift = 0.003 dB
  Peak SAR (extrapolated) = 0.330 W/kg
  SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.163 mW/g
  Maximum value of SAR (measured) = 0.262 mW/g



0 dB = 0.262mW/g

Date/Time: 3/12/2010 9:46:05 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

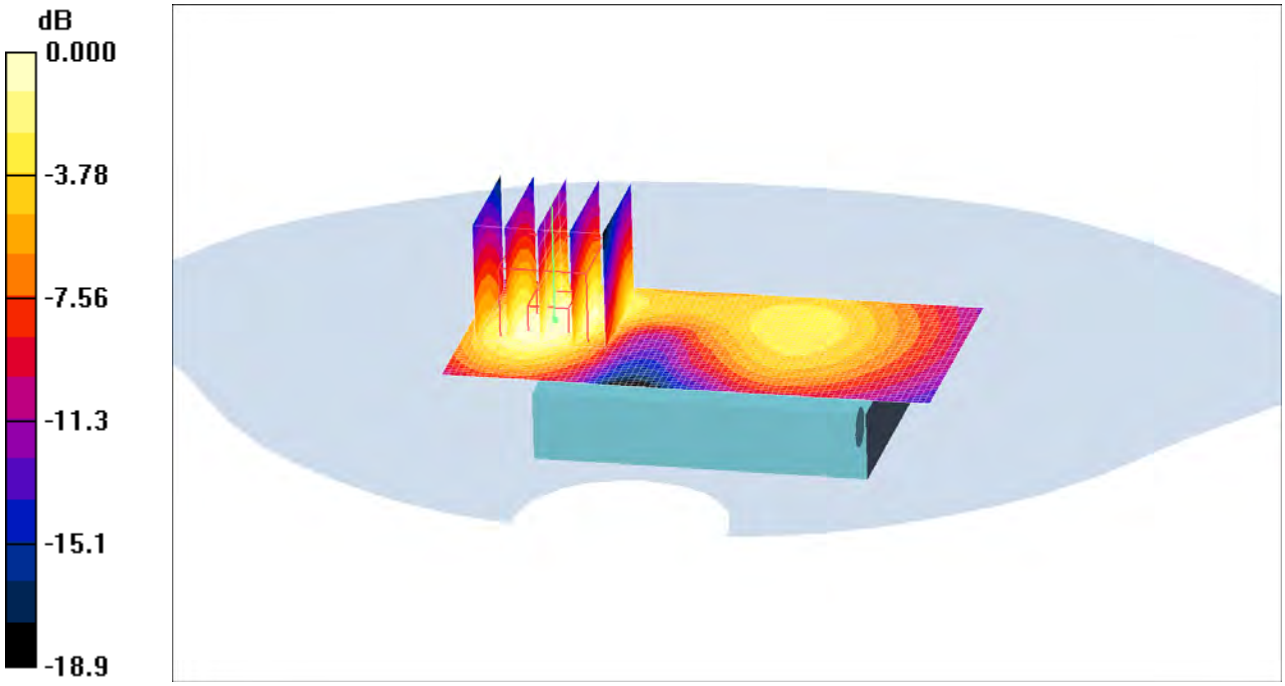
Body-Flat15mm-Robyn125-1900-Speech-Low

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1850.2 MHz; σ = 1.53 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.418 mW/g
  Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 8.53 V/m; Power Drift = -0.010 dB
  Peak SAR (extrapolated) = 0.533 W/kg
  SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.213 mW/g
  Maximum value of SAR (measured) = 0.416 mW/g



0 dB = 0.416mW/g

Date/Time: 3/15/2010 1:19:25 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

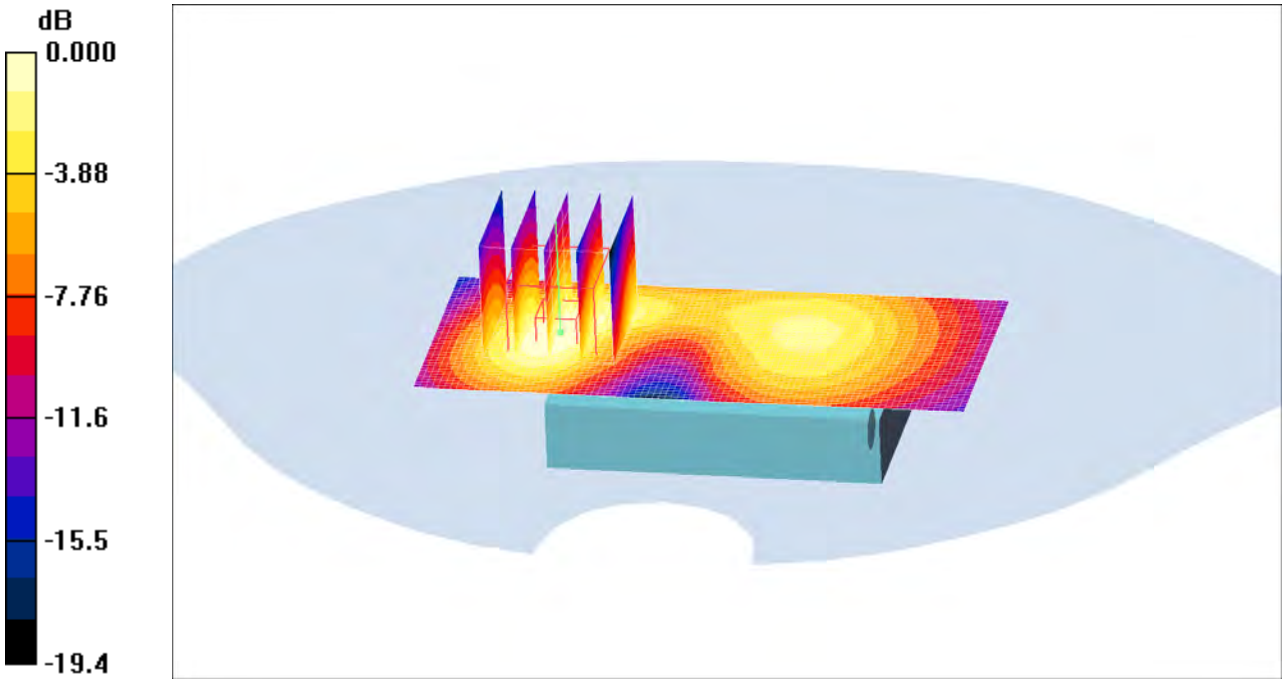
Body-Flat15mm-Robyn125-UMTS2-HSDPA-Low

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1852.4 MHz; σ = 1.51 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x91x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.284 mW/g
  Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 8.12 V/m; Power Drift = 0.172 dB
  Peak SAR (extrapolated) = 0.364 W/kg
  SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.145 mW/g
  Maximum value of SAR (measured) = 0.285 mW/g



0 dB = 0.285mW/g

Date/Time: 3/15/2010 2:00:05 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

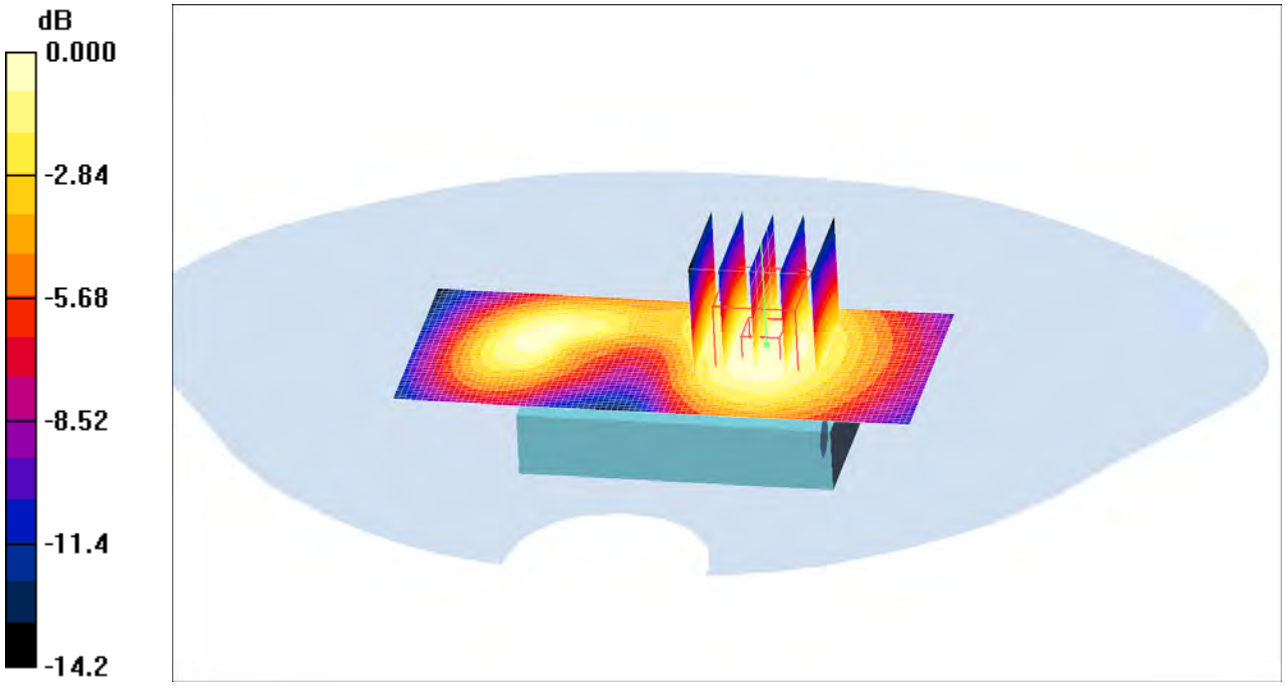
Body-Flat15mm-Robyn125-UMTS2-HSDPA-Mid

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.54 mho/m; ε_r = 50.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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 (41x91x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.223 mW/g
  Body 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 8.92 V/m; Power Drift = 0.137 dB
  Peak SAR (extrapolated) = 0.276 W/kg
  SAR(1 g) = 0.205 mW/g; SAR(10 g) = 0.134 mW/g
  Maximum value of SAR (measured) = 0.222 mW/g



0 dB = 0.222mW/g

Date/Time: 3/15/2010 2:52:52 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

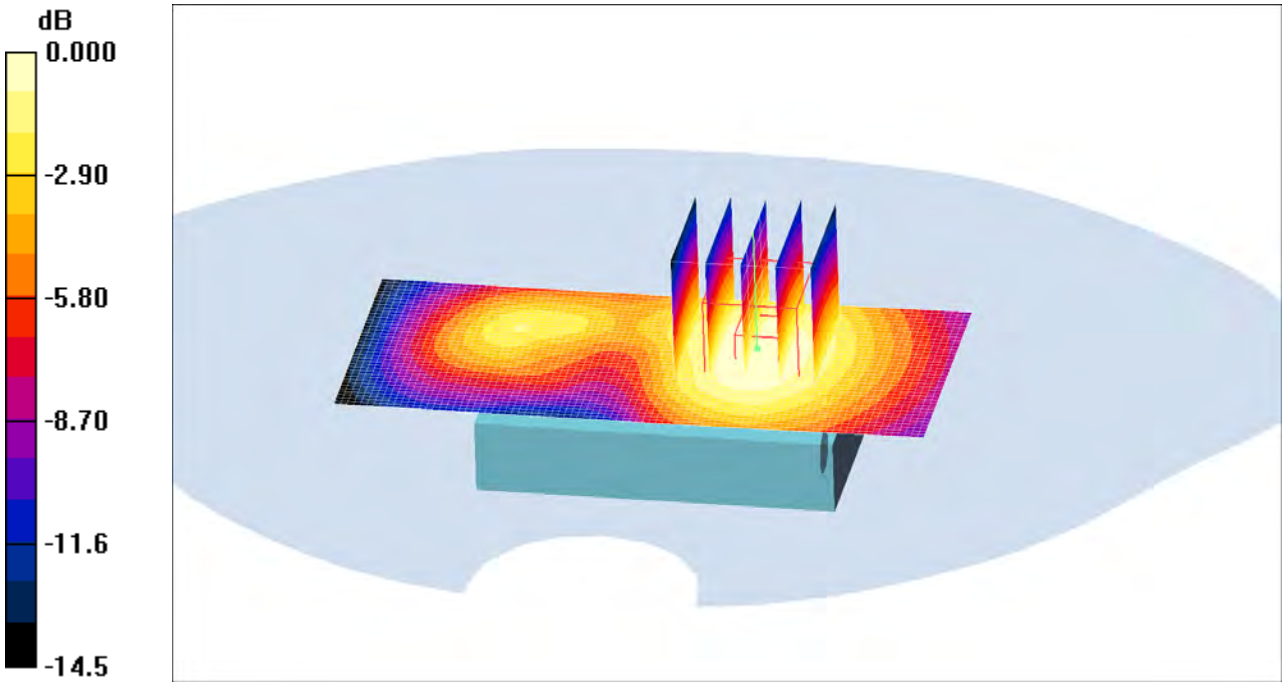
Body-Flat15mm-Robyn125-UMTS2-HSDPA-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.56 mho/m; ε_r = 50.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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 (41x91x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.286 mW/g
  Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 9.93 V/m; Power Drift = 0.049 dB
  Peak SAR (extrapolated) = 0.359 W/kg
  SAR(1 g) = 0.266 mW/g; SAR(10 g) = 0.173 mW/g
  Maximum value of SAR (measured) = 0.288 mW/g



0 dB = 0.288mW/g

Date/Time: 3/15/2010 3:54:03 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

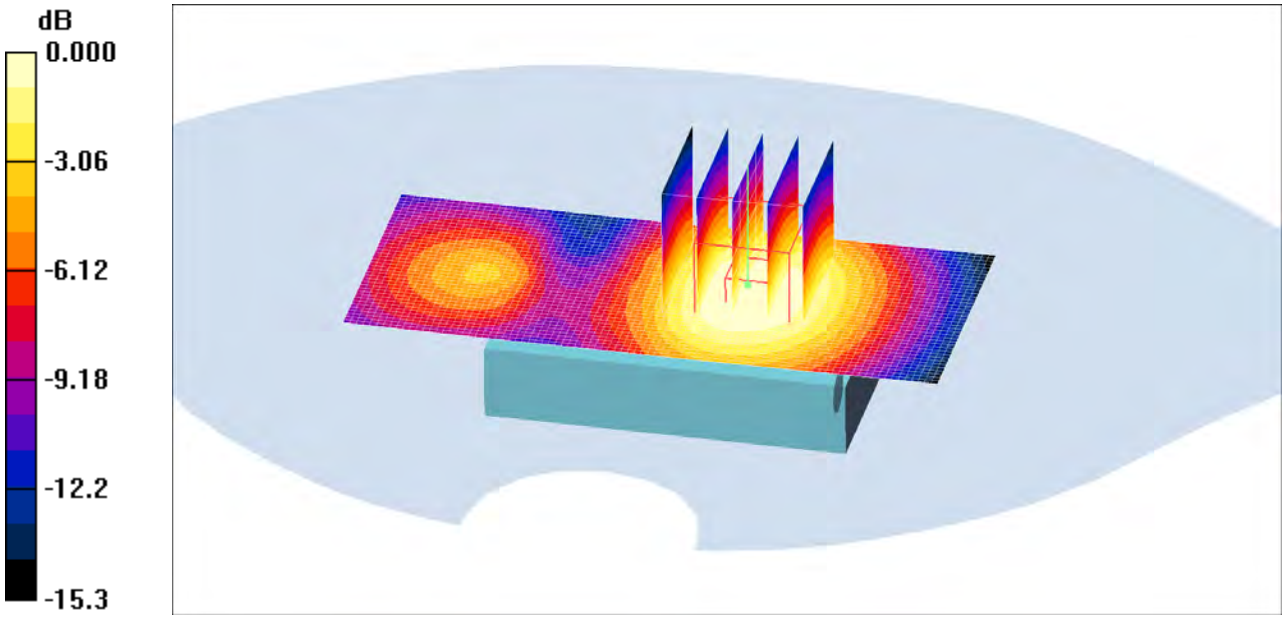
Body-Flat15mm-Robyn125-UMTS2-Speech-Front-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.56 mho/m; ε_r = 50.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Front/Area Scan (41x91x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.360 mW/g
  Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 13.1 V/m; Power Drift = 0.080 dB
  Peak SAR (extrapolated) = 0.437 W/kg
  SAR(1 g) = 0.323 mW/g; SAR(10 g) = 0.209 mW/g
  Maximum value of SAR (measured) = 0.346 mW/g



0 dB = 0.346mW/g

Date/Time: 3/17/2010 1:43:49 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

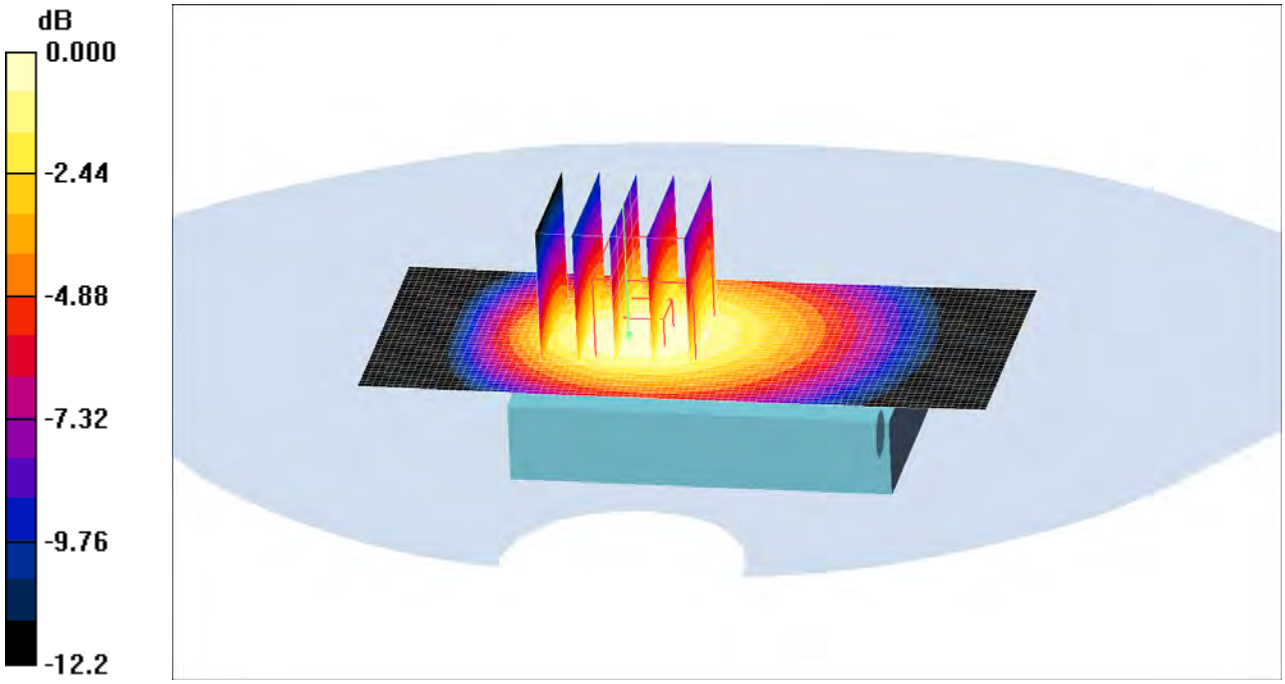
Body-Flat15mm-Robyn125-UMTS5-HSDPA-Low

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band5; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 826.4 MHz; σ = 0.95 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  HSDPA/Area Scan (41x91x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.500 mW/g
  HSDPA/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 21.7 V/m; Power Drift = 0.091 dB
  Peak SAR (extrapolated) = 0.615 W/kg
  SAR(1 g) = 0.464 mW/g; SAR(10 g) = 0.319 mW/g
  Maximum value of SAR (measured) = 0.496 mW/g



0 dB = 0.496mW/g

Date/Time: 3/17/2010 1:01:18 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

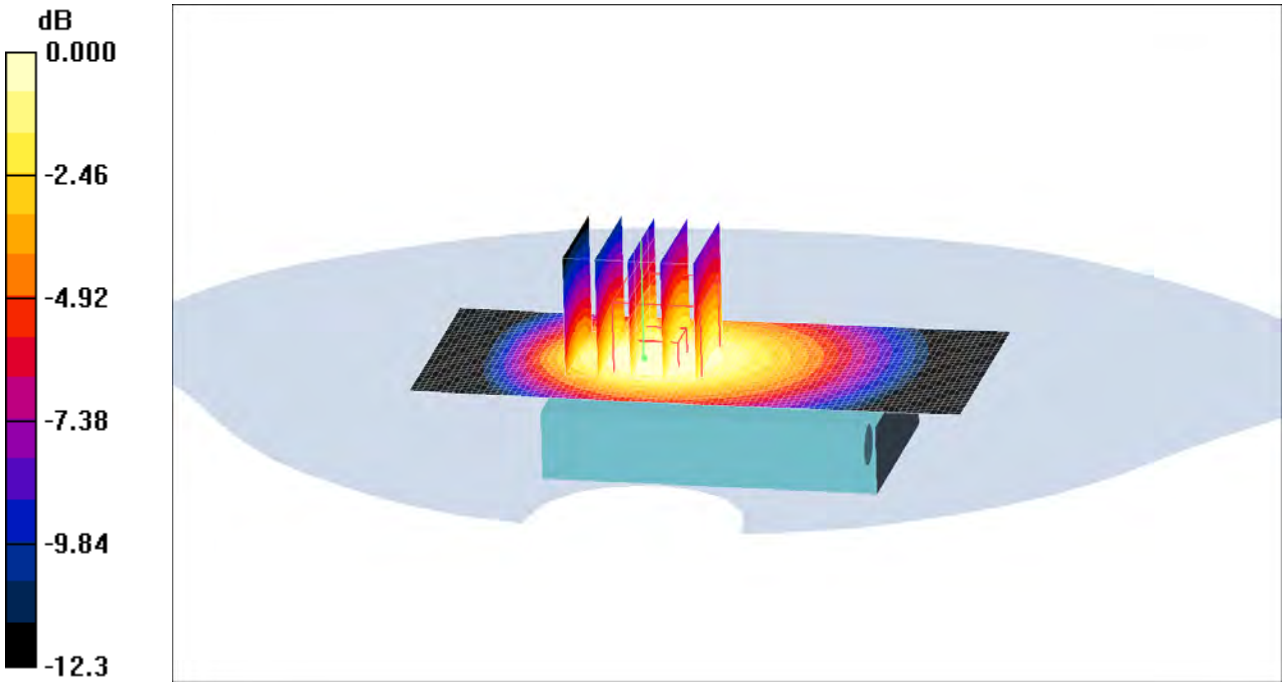
Body-Flat15mm-Robyn125-UMTS5-HSDPA-Mid

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band5; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.96 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  HSDPA 2/Area Scan (41x91x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.553 mW/g
  HSDPA 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 22.7 V/m; Power Drift = -0.120 dB
  Peak SAR (extrapolated) = 0.668 W/kg
  SAR(1 g) = 0.503 mW/g; SAR(10 g) = 0.345 mW/g
  Maximum value of SAR (measured) = 0.535 mW/g



0 dB = 0.535mW/g

Date/Time: 3/17/2010 12:18:57 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

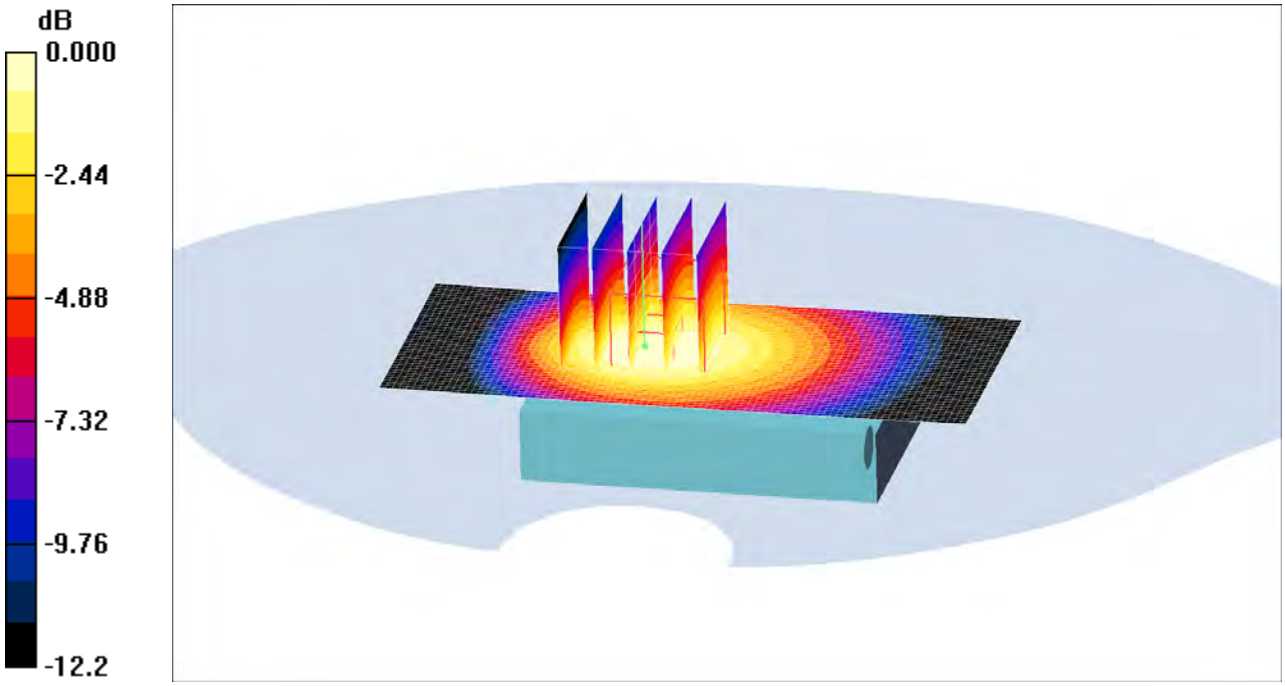
Body-Flat15mm-Robyn125-UMTS5-HSDPA-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band5; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 846.6 MHz; σ = 0.97 mho/m; ε_r = 52.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  HSDPA 3/Area Scan (41x91x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.647 mW/g
  HSDPA 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 25.1 V/m; Power Drift = 0.023 dB
  Peak SAR (extrapolated) = 0.801 W/kg
  SAR(1 g) = 0.605 mW/g; SAR(10 g) = 0.416 mW/g
  Maximum value of SAR (measured) = 0.647 mW/g



0 dB = 0.647mW/g

Date/Time: 3/17/2010 10:30:10 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

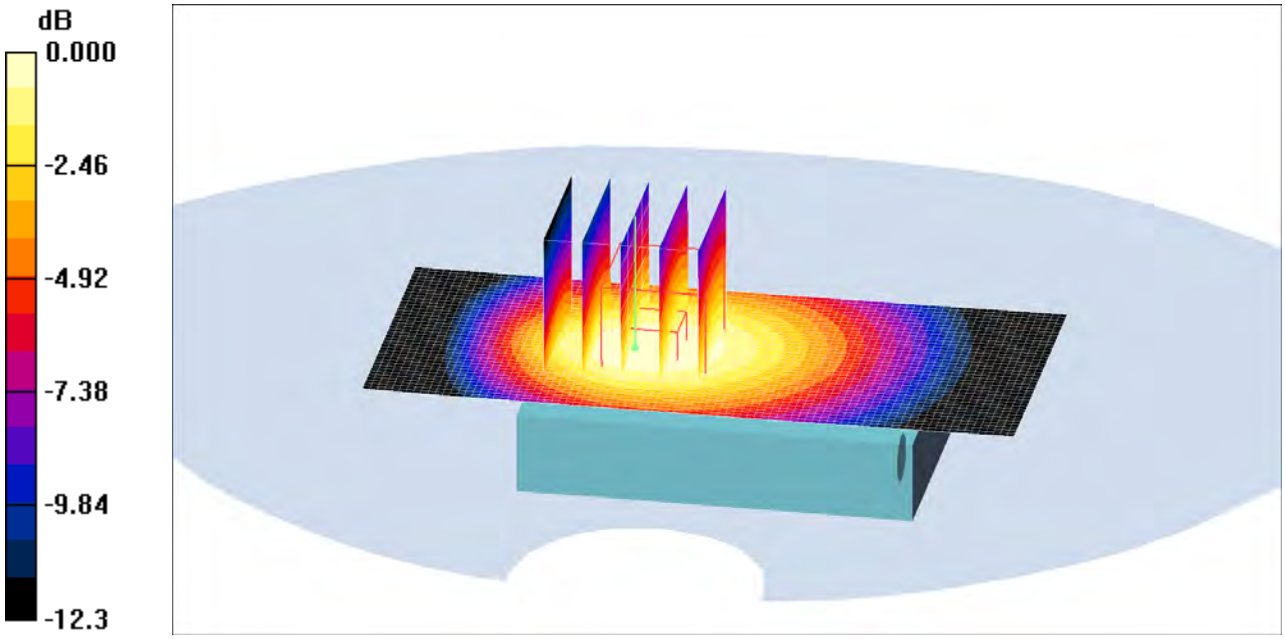
Body-Flat15mm-Robyn125-UMTS5-Speech-High

DUT: Robyn; Type: DUT; Serial: #17765

Communication System: WCDMA Band5; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 846.6 MHz; σ = 0.97 mho/m; ε_r = 52.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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 (41x91x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.717 mW/g
  Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 25.4 V/m; Power Drift = 0.040 dB
  Peak SAR (extrapolated) = 0.874 W/kg
  SAR(1 g) = 0.664 mW/g; SAR(10 g) = 0.457 mW/g
  Maximum value of SAR (measured) = 0.704 mW/g



0 dB = 0.704mW/g

Date/Time: 3/22/2010 9:47:33 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

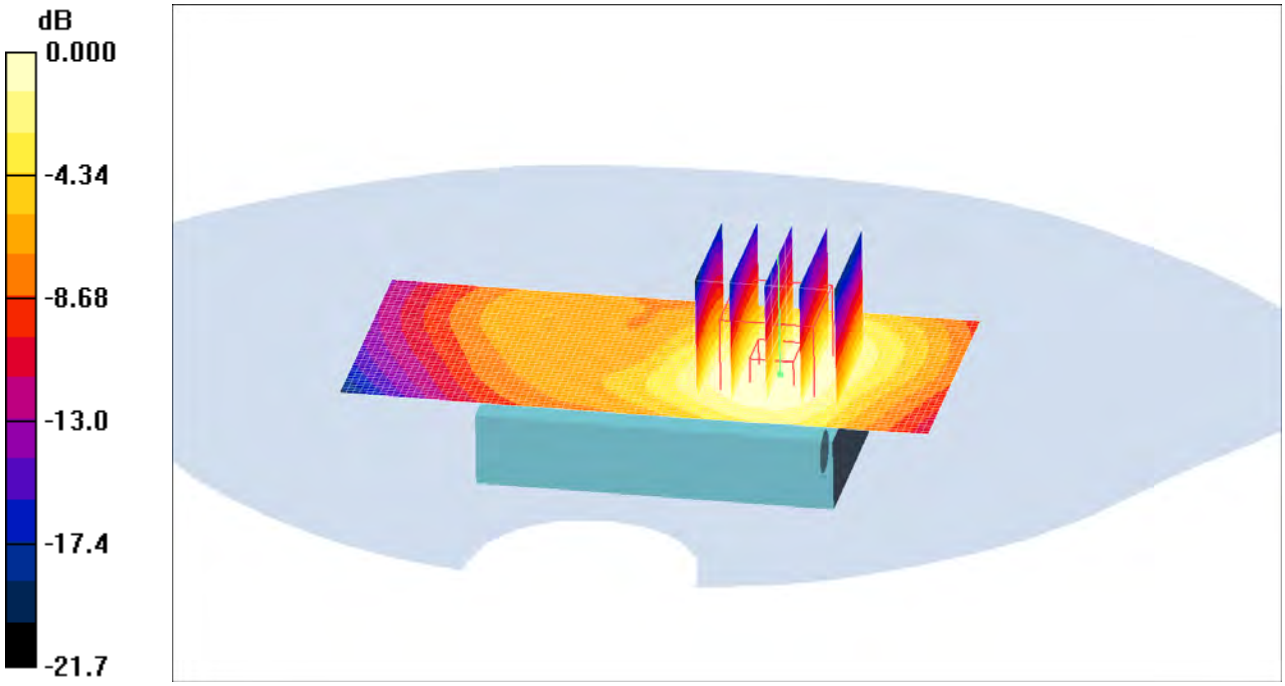
Body-Flat15mm-Robyn125-Body-WLAN-Low-CH1

DUT: Robyn; Type: DUT; Serial: #17769

Communication System: WLAN; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2412 MHz; σ = 1.99 mho/m; ε_r = 50.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.16, 4.16, 4.16); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x91x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.075 mW/g
  Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 3.91 V/m; Power Drift = -0.085 dB
  Peak SAR (extrapolated) = 0.144 W/kg
  SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.038 mW/g
  Maximum value of SAR (measured) = 0.071 mW/g



0 dB = 0.071mW/g

Date/Time: 3/22/2010 10:34:47 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

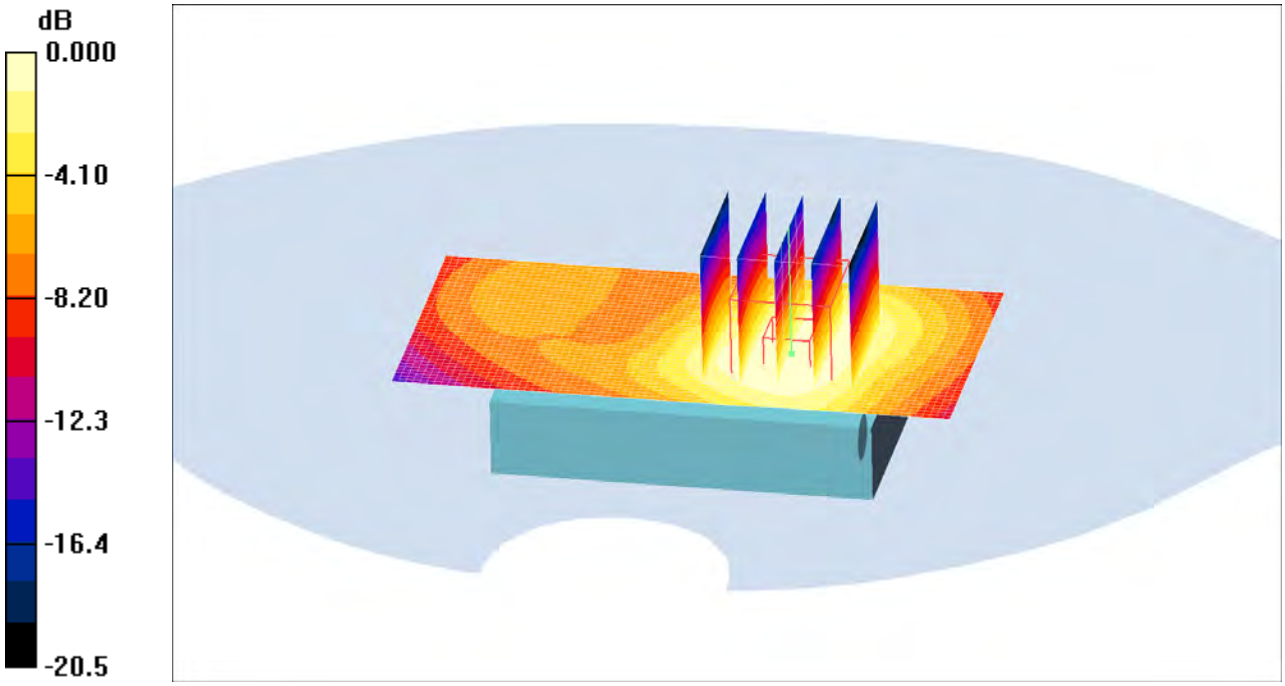
Body-Flat15mm-Robyn125-Body-WLAN-Mid-CH6

DUT: Robyn; Type: DUT; Serial: #17769

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 2.03 mho/m; ε_r = 50.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.16, 4.16, 4.16); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 0.090 mW/g
  Body 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 4.76 V/m; Power Drift = -0.230 dB
  Peak SAR (extrapolated) = 0.174 W/kg
  SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.044 mW/g
  Maximum value of SAR (measured) = 0.083 mW/g



0 dB = 0.083mW/g

Date/Time: 3/22/2010 11:26:16 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

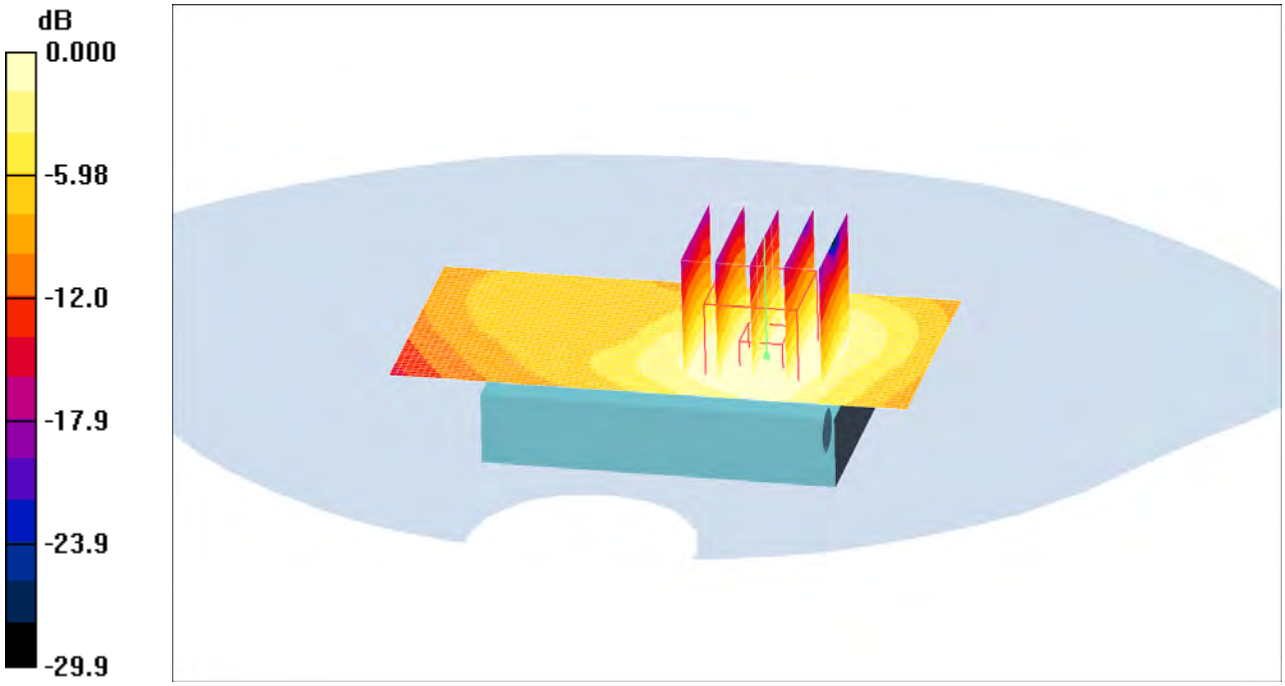
Body-Flat15mm-Robyn125-Body-WLAN-High-CH11

DUT: Robyn; Type: DUT; Serial: #17769

Communication System: WLAN; Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2462 MHz; σ = 2.06 mho/m; ε_r = 50; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.16, 4.16, 4.16); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.079 mW/g
  Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 4.41 V/m; Power Drift = -0.253 dB
  Peak SAR (extrapolated) = 0.150 W/kg
  SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.039 mW/g
  Maximum value of SAR (measured) = 0.074 mW/g



0 dB = 0.074mW/g