

SAR Compliance Test Report

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Tested device:	RM-500		
FCC ID:	QTLRM-500	IC:	661AB-RM500
Supplement reports:	Salo_SAR_0833_12		
Testing has been carried out in accordance with:	47CFR §2.1093 Radiofrequency Radiation Exposure Evaluation: Portable Devices FCC OET Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01) Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields RSS-102 Evaluation Procedure for Mobile and Portable Radio Transmitters with Respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields IEEE 1528 - 2003 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Technique		
Documentation:	The documentation of the testing performed on the tested devices is archived for 15 years at TCC Nokia.		
Test results:	The tested device complies with the requirements in respect of all parameters subject to the test. The test results and statements relate only to the items tested. The test report shall not be reproduced except in full, without written approval of the laboratory.		
Date and signatures:			
For the contents:			

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1. SUMMARY OF SAR TEST REPORT

1.1 Test Details

Period of test	2008-07-22 to 2008-08-13
SN, HW and SW numbers of tested device	SN: 001004/00/295565/7, HW: 0404, SW: jat07w41_08w27.2, DUT: 50897
Batteries used in testing	BL-4S, DUT: 50903, 50896
Headsets used in testing	HS-105, DUT: 50902
Other accessories used in testing	-
State of sample	Prototype unit
Notes	-

1.2 Maximum Results

The maximum measured SAR values for Head configuration and Body Worn configuration are given in section 1.2.1 and 1.2.2 respectively. The device conforms to the requirements of the standard(s) when the maximum measured SAR value is less than or equal to the limit.

Mode	Ch / f (MHz)	Radiated power	Position	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
GSM850	128 / 824.2	33.3 dBm ERP	Right, Cheek	0.615 W/kg	0.69 W/kg	1.6 W/kg	PASSED
GSM1900	661 / 1880.0	28.9 dBm EIRP	Left, Cheek	1.14 W/kg	1.28 W/kg	1.6 W/kg	PASSED

1.2.1 Body Worn Configuration

Mode	Ch / f (MHz)	Radiated power	Separation distance	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
2-slot GPRS850	128 / 824.2	32.8 dBm ERP	2.2 cm	0.417 W/kg	0.47 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900	661 / 1880.0	28.6 dBm EIRP	2.2 cm	0.217 W/kg	0.24 W/kg	1.6 W/kg	PASSED

*SAR values are scaled up by 12% to cover measurement drift.

1.2.2 Maximum Drift

Maximum drift covered by 12% scaling up of the SAR values	Maximum drift during measurements
0.5dB	0.37dB

1.2.3 Measurement Uncertainty

Expanded Uncertainty (k=2) 95%	± 25.8%
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2. DESCRIPTION OF THE DEVICE UNDER TEST

Device category	Portable
Exposure environment	General population / uncontrolled

Modes of Operation	Bands	Modulation Mode	Duty Cycle	Transmitter Frequency Range (MHz)
GSM	850 1900	GMSK	1/8	824 – 849 1850 – 1910
GPRS	850 1900	GMSK	1/8 to 2/8	824 – 849 1850 – 1910
EGPRS	850 1900	GMSK / 8PSK	1/8 to 2/8	824 – 849 1850 – 1910
BT	2450	GFSK	1	2402 – 2480

2.1 Description of the Antenna

The device has internal antennas.

3. TEST CONDITIONS

3.1 Temperature and Humidity

Ambient temperature (°C):	20.2 to 22.6
Ambient humidity (RH %):	50 to 65

3.2 Test Signal, Frequencies and Output Power

The device was put into operation by using a call tester. Communication between the device and the call tester was established by air link.

The device output power was set to maximum power level for all tests; a fully charged battery was used for every test sequence.

In all operating bands the measurements were performed on lowest, middle and highest channels.

The radiated output power of the device was measured by a separate test laboratory on the same unit(s) as used for SAR testing.

4. DESCRIPTION OF THE TEST EQUIPMENT

4.1 Measurement System and Components

The measurements were performed using an automated near-field scanning system, DASY4, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland. The SAR extrapolation algorithm used in all measurements was the 'advanced extrapolation' algorithm.

The following table lists calibration dates of SPEAG components:

Test Equipment	Serial Number	Calibration interval	Calibration expiry
DAE 3	481	12 months	2009-03
DAE 3	480	12 months	2008-09
E-field Probe ET3DV6	1650	12 months	2009-03
E-field Probe ET3DV6	1652	12 months	2008-09
Dipole Validation Kit, D835V2	4d005	24 months	2010-03
Dipole Validation Kit, D1900V2	547	24 months	2009-09
DASY4 software	Version 4.6	-	-

Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration interval	Calibration expiry
Signal Generator	8648C	3847M00258	12 months	2009-05
Call Tester	CMU200	835352/008	-	-
BT Tester	CBT	100469	-	-
Amplifier	AR 5SIG4M3	302339	12 months	2009-05
RF Network Analyzer	8753ES	My40002096	12 months	2009-05
Dielectric Probe Kit	85070C	01033717	-	-
Power Meter	Aligent E4419B	My41291520	12 months	2009-05
Power Sensor	Agilent 8482A	US37295411	12 months	2009-05

4.1.1 Isotropic E-field Probe Type ET3DV6

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., butyl diglycol)
Calibration	Calibration certificate in Appendix C
Frequency	10 MHz to 3 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 3 GHz)
Optical Surface Detection	± 0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic Range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm Distance from probe tip to dipole centers: 2.7 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

4.2 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin-headed "SAM Phantom", manufactured by SPEAG. The phantom conforms to the requirements of IEEE 1528 - 2003.

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.

The SPEAG device holder (see Section 5.1) was used to position the device in all tests whilst a tripod was used to position the validation dipoles against the flat section of phantom.

4.3 Tissue Simulants

Recommended values for the dielectric parameters of the tissue simulants are given in IEEE 1528 - 2003 and FCC Supplement C to OET Bulletin 65. All tests were carried out using simulants whose dielectric parameters were within $\pm 5\%$ of the recommended values. All tests were carried out within 24 hours of measuring the dielectric parameters.

The depth of the tissue simulant was 15.0 ± 0.5 cm measured from the ear reference point during system checking and device measurements.

4.3.1 Tissue Simulant Recipes

The following recipe(s) were used for Head and Body tissue simulant(s):

800MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	39.74	55.97
HEC	0.25	1.21
Sugar	58.31	41.76
Preservative	0.15	0.27
Salt	1.55	0.79

1900MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	54.88	69.02
Butyl Diglycol	44.91	30.76
Salt	0.21	0.22

4.3.2 System Checking

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyser. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom. The system checking results (dielectric parameters and SAR values) are given in the table below.

System checking, head tissue simulant

f [MHz]	Description	SAR [W/kg], 1g	Dielectric Parameters		Temp [°C]
			ϵ_r	σ [S/m]	
835	Reference result	2.26	41.5	0.90	
	$\pm 10\%$ window	2.03 – 2.49			
	2008-07-22	2.43	42.7	0.91	20.9
	2008-08-13	2.43	41.6	0.89	21.3
1900	Reference result	9.47	39.3	1.46	
	$\pm 10\%$ window	8.52 – 10.42			
	2008-07-28	10.2	38.3	1.43	21.5
	2008-08-12	9.88	38.9	1.45	20.7

Plots of the system checking scans are given in Appendix A.

4.3.3 Tissue Simulants used in the Measurements

Head tissue simulant measurements

f [MHz]	Description	Dielectric Parameters		Temp [°C]
		ϵ_r	σ [S/m]	
836	Recommended value	41.5	0.90	
	$\pm 5\%$ window	39.4 – 43.6	0.86 – 0.95	
	2008-08-13	41.5	0.89	20.9
1880	Recommended value	40.0	1.40	
	$\pm 5\%$ window	38.0 – 42.0	1.33 – 1.47	
	2008-08-12	39.0	1.43	21.5

Body tissue simulant measurements

f [MHz]	Description	Dielectric Parameters		Temp [°C]
		ϵ_r	σ [S/m]	
836	Recommended value	55.2	0.97	
	$\pm 5\%$ window	52.4 – 58.0	0.92 – 1.02	
	2008-07-22	54.5	1.01	21.5
1880	Recommended value	53.3	1.52	
	$\pm 5\%$ window	50.6 – 56.0	1.44 – 1.60	
	2008-07-28	52.2	1.56	22.4

5. DESCRIPTION OF THE TEST PROCEDURE

5.1 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the Dasy system.



Device holder supplied by SPEAG

A Nokia designed spacer (illustrated below) was used to position the device within the SPEAG holder. The spacer positions the device so that the holder has minimal effect on the test results but still holds the device securely. The spacer was removed before the tests.



Nokia spacer

5.2 Test Positions

5.2.1 Against Phantom Head

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 - 2003 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".

5.2.2 Body Worn Configuration

The device was placed in the SPEAG holder using the Nokia spacer and placed below the flat section of the phantom. The distance between the device and the phantom was kept at the separation distance indicated in Section 1.2.2 using a separate flat spacer that was removed before the start of the measurements. The device was oriented with both sides facing the phantom to find the highest results.

5.3 Scan Procedures

First, area scans were used for determination of the field distribution. Next, a zoom scan, a minimum of 5x5x7 points covering a volume of at least 30x30x30mm, was performed around the highest E-field value to determine the averaged SAR value. Drift was determined by measuring the same point at the start of the area scan and again at the end of the zoom scan.

5.4 SAR Averaging Methods

The maximum SAR value was averaged over a cube of tissue using interpolation and extrapolation.

The interpolation, extrapolation and maximum search routines within Dasy4 are all based on the modified Quadratic Shepard's method (Robert J. Renka, "Multivariate Interpolation Of Large Sets Of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148).

The interpolation scheme combines a least-square fitted function method with a weighted average method. A trivariate 3-D / bivariate 2-D quadratic function is computed for each measurement point and fitted to neighbouring points by a least-square method. For the zoom scan, inverse distance weighting is incorporated to fit distant points more accurately. The interpolating function is finally calculated as a weighted average of the quadratics.

In the zoom scan, the interpolation function is used to extrapolate the Peak SAR from the deepest measurement points to the inner surface of the phantom.

6. MEASUREMENT UNCERTAINTY

Table 6.1 – Measurement uncertainty evaluation

Uncertainty Component	Section in IEEE 1528	Tol. (%)	Prob Dist	Div	C_i	$C_i \cdot U_i$ (%)	V_i
Measurement System							
Probe Calibration	E2.1	±5.9	N	1	1	±5.9	∞
Axial Isotropy	E2.2	±4.7	R	√3	$(1-c_p)^{1/2}$	±1.9	∞
Hemispherical Isotropy	E2.2	±9.6	R	√3	$(c_p)^{1/2}$	±3.9	∞
Boundary Effect	E2.3	±1.0	R	√3	1	±0.6	∞
Linearity	E2.4	±4.7	R	√3	1	±2.7	∞
System Detection Limits	E2.5	±1.0	R	√3	1	±0.6	∞
Readout Electronics	E2.6	±1.0	N	1	1	±1.0	∞
Response Time	E2.7	±0.8	R	√3	1	±0.5	∞
Integration Time	E2.8	±2.6	R	√3	1	±1.5	∞
RF Ambient Conditions - Noise	E6.1	±3.0	R	√3	1	±1.7	∞
RF Ambient Conditions - Reflections	E6.1	±3.0	R	√3	1	±1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	±0.4	R	√3	1	±0.2	∞
Probe Positioning with respect to Phantom Shell	E6.3	±2.9	R	√3	1	±1.7	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E5	±3.9	R	√3	1	±2.3	∞
Test sample Related							
Test Sample Positioning	E4.2	±6.0	N	1	1	±6.0	11
Device Holder Uncertainty	E4.1	±5.0	N	1	1	±5.0	7
Output Power Variation - SAR drift measurement	6.6.3	±0.0	R	√3	1	±0.0	∞
Phantom and Tissue Parameters							
Phantom Uncertainty (shape and thickness tolerances)	E3.1	±4.0	R	√3	1	±2.3	∞
Conductivity Target - tolerance	E3.2	±5.0	R	√3	0.64	±1.8	∞
Conductivity - measurement uncertainty	E3.3	±5.5	N	1	0.64	±3.5	5
Permittivity Target - tolerance	E3.2	±5.0	R	√3	0.6	±1.7	∞
Permittivity - measurement uncertainty	E3.3	±2.9	N	1	0.6	±1.7	5
Combined Standard Uncertainty			RSS			±12.9	116
Coverage Factor for 95%			k=2				
Expanded Uncertainty						±25.8	

7. RESULTS

The measured Head SAR values for the test device are tabulated below:

850MHz Head SAR results

Option used	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz
GSM	Power		32.8 dBm	32.7 dBm	30.1 dBm
Slide closed	Left	Cheek	-	0.477	-
		Tilt	-	0.254	-
	Right	Cheek	-	0.497	-
		Tilt	-	0.248	-
GSM	Power		33.3 dBm	33.1 dBm	30.8 dBm
Slide open	Left	Cheek	-	0.512	-
		Tilt	-	0.305	-
	Right	Cheek	0.615	0.592	0.552
		Tilt	-	0.281	-
GSM, Slide open	Right Cheek, BT active		0.575	-	-

1900MHz Head SAR results

Option used	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz
GSM	Power		28.5 dBm	28.9 dBm	29.3 dBm
Slide closed	Left	Cheek	1.12	1.13	1.12
		Tilt	-	0.313	-
	Right	Cheek	-	0.782	-
		Tilt	-	0.303	-
GSM	Power		31.5 dBm	32.9 dBm	30.6 dBm
Slide open	Left	Cheek	-	0.347	-
		Tilt	-	0.283	-
	Right	Cheek	-	0.494	-
		Tilt	-	0.160	-
GSM, Slide closed	Left Cheek, BT active		-	1.14	-

The measured Body SAR values for the test device are tabulated below:

850MHz Body SAR results

Option used	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz
GSM		Power	32.8 dBm	32.7 dBm	30.1 dBm
Slide closed	Back facing phantom	Without headset	-	-	-
		Headset HS-105	-	-	-
	Display facing phantom	Without headset	-	0.158	-
		Headset HS-105	-	-	-
2-slot GPRS		Power	32.8 dBm	32.3 dBm	30.7 dBm
Slide closed	Back facing phantom	Without headset	0.417	0.373	0.349
		Headset HS-105	-	0.340	-
	Display facing phantom	Without headset	-	0.298	-
		Headset HS-105	-	0.264	-
2-slot GPRS, Slide closed	Back facing phantom	Without headset, BT active	0.416	-	-

1900MHz Body SAR results

Option used	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz
GSM		Power	28.5 dBm	28.9 dBm	29.3 dBm
Slide closed	Back facing phantom	Without headset	-	-	-
		Headset HS-105	-	-	-
	Display facing phantom	Without headset	-	0.113	-
		Headset HS-105	-	-	-
2-slot GPRS		Power	28.3 dBm	28.6 dBm	29.1 dBm
Slide closed	Back facing phantom	Without headset	-	0.214	-
		Headset HS-105	0.202	0.217	0.207
	Display facing phantom	Without headset	-	0.210	-
		Headset HS-105	-	0.208	-
2-slot GPRS, Slide closed	Back facing phantom	Headset HS-105, BT active	-	0.209	-

Plots of the Measurement scans are given in Appendix B.

APPENDIX A: SYSTEM CHECKING SCANS

Date/Time: 2008-07-22 9:37:14 AM

Test Laboratory: TCC Nokia
Type: D835V2; Serial: 4d005

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Head 850; Medium Notes: Medium Temperature: $t=20.9\text{ }^{\circ}\text{C}$

Medium parameters used: $f = 835\text{ MHz}$; $\sigma = 0.907\text{ mho/m}$; $\epsilon_r = 42.7$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(6.51, 6.51, 6.51); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM1; Type: SAM; Serial: TP-1097
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

d=15mm, Pin=250mW/Area Scan (61x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 2.63 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 55.3 V/m

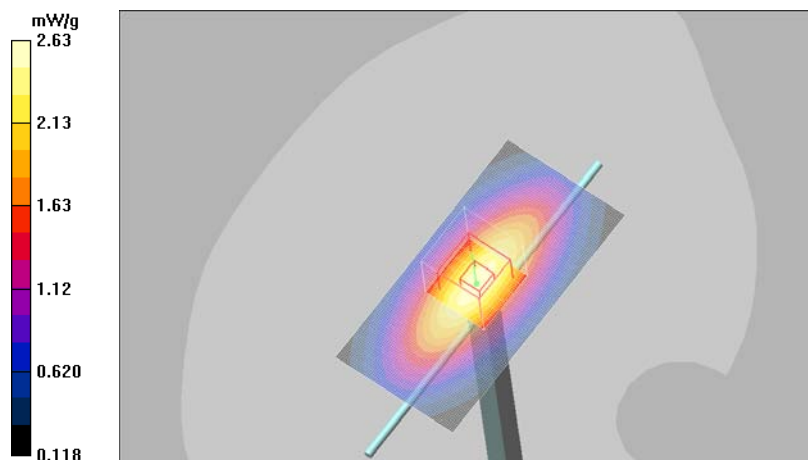
Peak SAR (extrapolated) = 3.64 W/kg

SAR(1 g) = 2.43 mW/g

SAR(10 g) = 1.59 mW/g

Power Drift = -0.027 dB

Maximum value of SAR (measured) = 2.61 mW/g



Date/Time: 2008-08-13 10:12:21

Test Laboratory: TCC Nokia
Type: D835V2; Serial: 4d005

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Head 850; Medium Notes: Medium Temperature: $t=21.3\text{ C}$

Medium parameters used: $f = 835\text{ MHz}$; $\sigma = 0.89\text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(6.56, 6.56, 6.56); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM1; Type: SAM; Serial: TP-1097
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

d=15mm, Pin=250mW/Area Scan (61x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 2.65 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 56.3 V/m

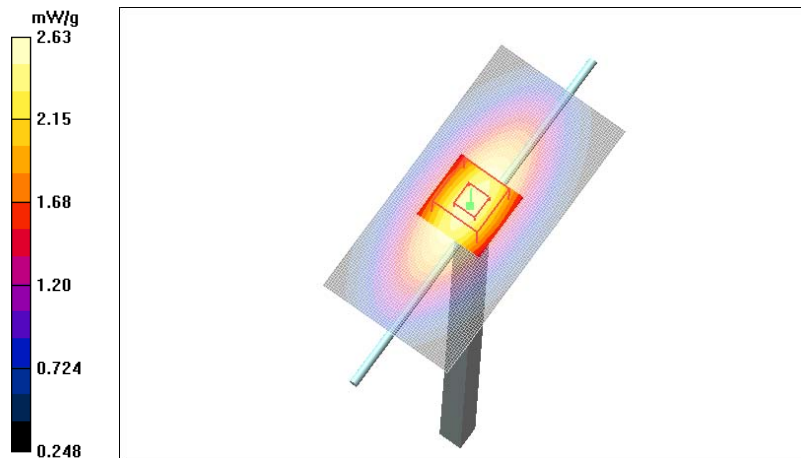
Peak SAR (extrapolated) = 3.54 W/kg

SAR(1 g) = 2.43 mW/g

SAR(10 g) = 1.6 mW/g

Power Drift = -0.036 dB

Maximum value of SAR (measured) = 2.63 mW/g



Date/Time: 2008-07-28 9:10:26 AM

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: SN:547

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: Head 1900; Medium Notes: Medium Temperature: $t=21.5\text{ C}$

Medium parameters used: $f = 1900\text{ MHz}$; $\sigma = 1.43\text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(4.94, 4.94, 4.94); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM2; Type: SAM; Serial: TP-1099
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

d=10mm, Pin=250mW/Area Scan (71x71x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 11.6 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 92.7 V/m

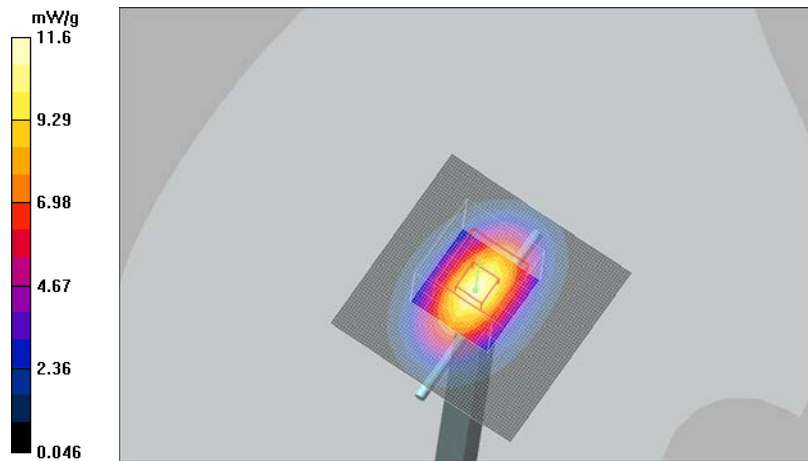
Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 10.2 mW/g

SAR(10 g) = 5.3 mW/g

Power Drift = -0.016 dB

Maximum value of SAR (measured) = 11.6 mW/g



Date/Time: 2008-08-12 10:16:25

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: SN:547

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: Head 1900; Medium Notes: Medium Temperature: $t=20.7\text{ C}$

Medium parameters used: $f = 1900\text{ MHz}$; $\sigma = 1.45\text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(5.46, 5.46, 5.46); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM2; Type: SAM; Serial: TP-1099
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW/Area Scan (71x71x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 11.3 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 92.4 V/m

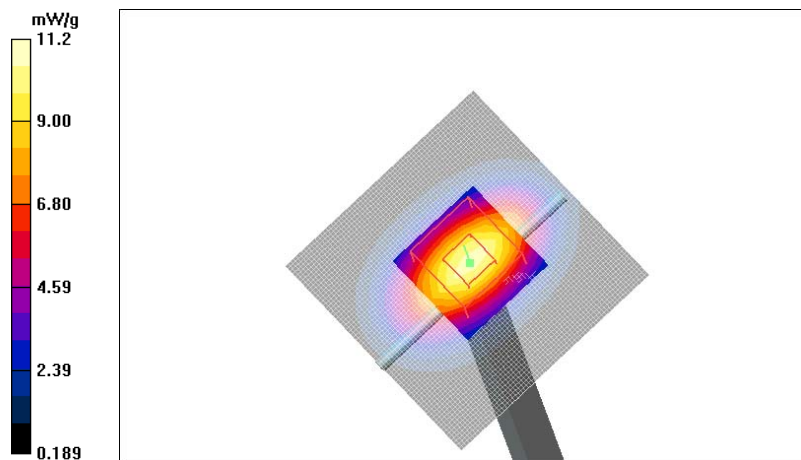
Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 9.88 mW/g

SAR(10 g) = 5.16 mW/g

Power Drift = -0.054 dB

Maximum value of SAR (measured) = 11.2 mW/g



APPENDIX B: MEASUREMENT SCANS

Date/Time: 2008-08-13 10:49:50

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM850

Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850; Medium Notes: Medium Temperature: $t=21.3$ C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(6.56, 6.56, 6.56); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM1; Type: SAM; Serial: TP-1097
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position - Middle - Slide closed/Area Scan (51x91x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.488 mW/g

Cheek position - Middle - Slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 8.54 V/m

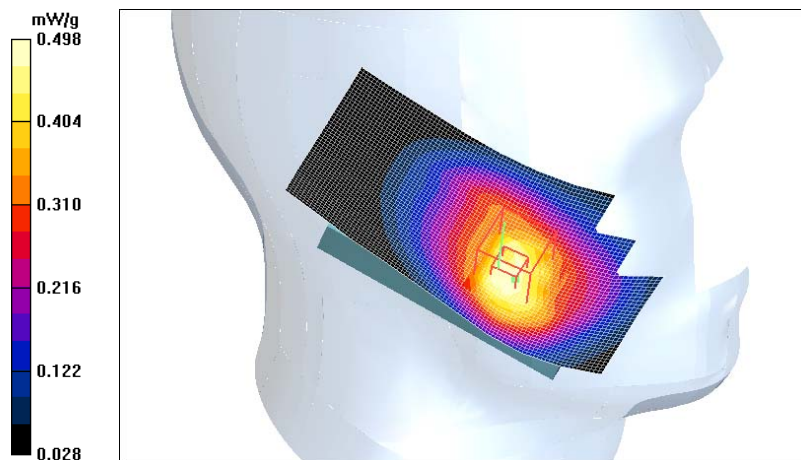
Peak SAR (extrapolated) = 0.691 W/kg

SAR(1 g) = 0.477 mW/g

SAR(10 g) = 0.317 mW/g

Power Drift = -0.199 dB

Maximum value of SAR (measured) = 0.498 mW/g



Date/Time: 2008-08-13 11:03:19

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM850

Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850; Medium Notes: Medium Temperature: $t=21.3$ C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(6.56, 6.56, 6.56); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM1; Type: SAM; Serial: TP-1097
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position - Middle - Slide closed/Area Scan (51x91x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

Tilt position - Middle - Slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 15.8 V/m

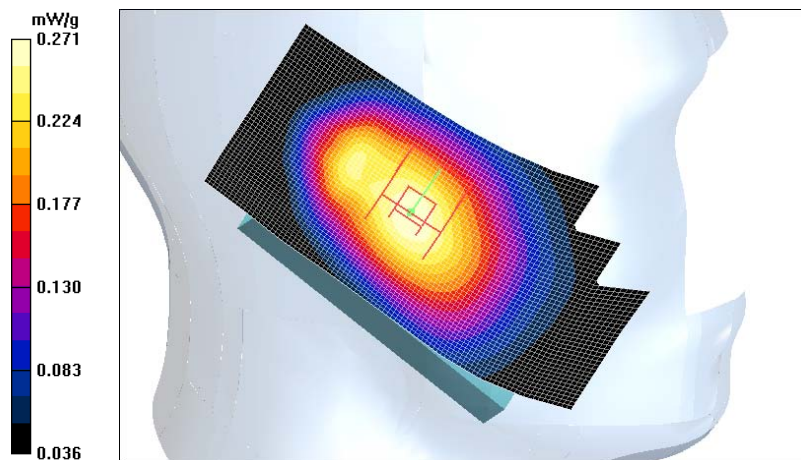
Peak SAR (extrapolated) = 0.321 W/kg

SAR(1 g) = 0.254 mW/g

SAR(10 g) = 0.186 mW/g

Power Drift = -0.019 dB

Maximum value of SAR (measured) = 0.271 mW/g



Date/Time: 2008-08-13 11:45:47

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM850

Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850; Medium Notes: Medium Temperature: $t=21.3$ C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(6.56, 6.56, 6.56); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM1; Type: SAM; Serial: TP-1097
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position - Middle - Slide closed/Area Scan (51x91x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.523 mW/g

Cheek position - Middle - Slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 8.15 V/m

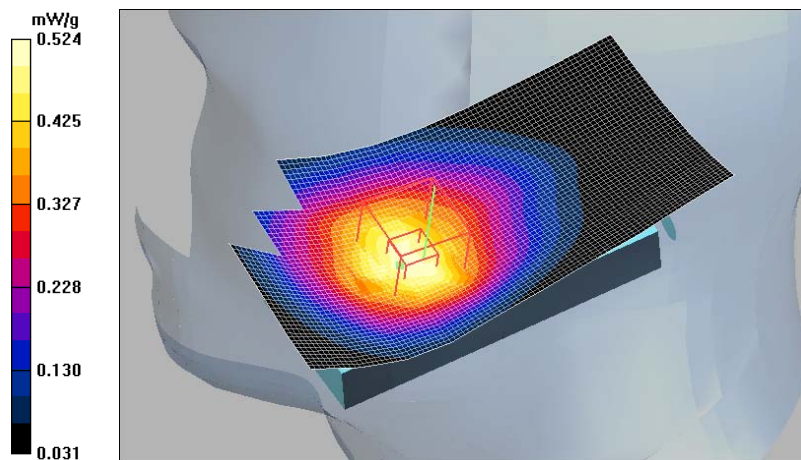
Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.497 mW/g

SAR(10 g) = 0.345 mW/g

Power Drift = -0.130 dB

Maximum value of SAR (measured) = 0.524 mW/g



Date/Time: 2008-08-13 12:51:58

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM850

Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850; Medium Notes: Medium Temperature: $t=21.3\text{ C}$

Medium parameters used: $f = 837\text{ MHz}$; $\sigma = 0.892\text{ mho/m}$; $\epsilon_r = 41.5$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(6.56, 6.56, 6.56); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM1; Type: SAM; Serial: TP-1097
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position - Middle- Slide closed/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.268 mW/g

Tilt position - Middle- Slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.8 V/m

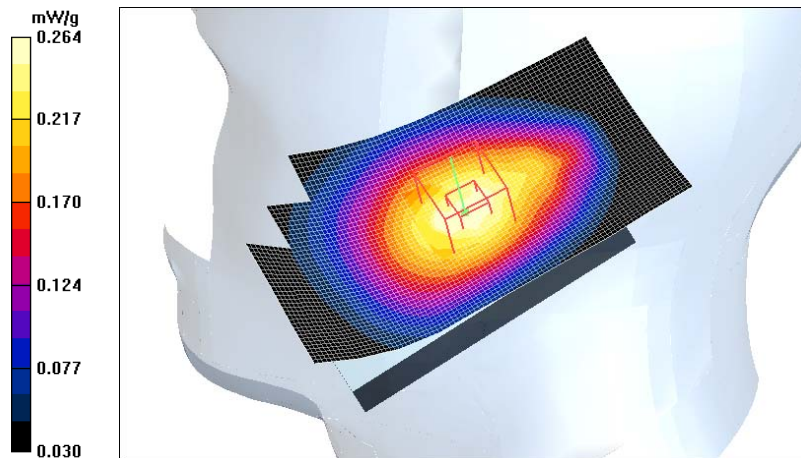
Peak SAR (extrapolated) = 0.311 W/kg

SAR(1 g) = 0.248 mW/g

SAR(10 g) = 0.183 mW/g

Power Drift = -0.075 dB

Maximum value of SAR (measured) = 0.264 mW/g



Date/Time: 2008-08-13 11:17:25

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM850

Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850; Medium Notes: Medium Temperature: $t=21.3\text{ C}$

Medium parameters used: $f = 837\text{ MHz}$; $\sigma = 0.892\text{ mho/m}$; $\epsilon_r = 41.5$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(6.56, 6.56, 6.56); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM1; Type: SAM; Serial: TP-1097
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position - Middle - Slide open/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.499 mW/g

Cheek position - Middle - Slide open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.70 V/m

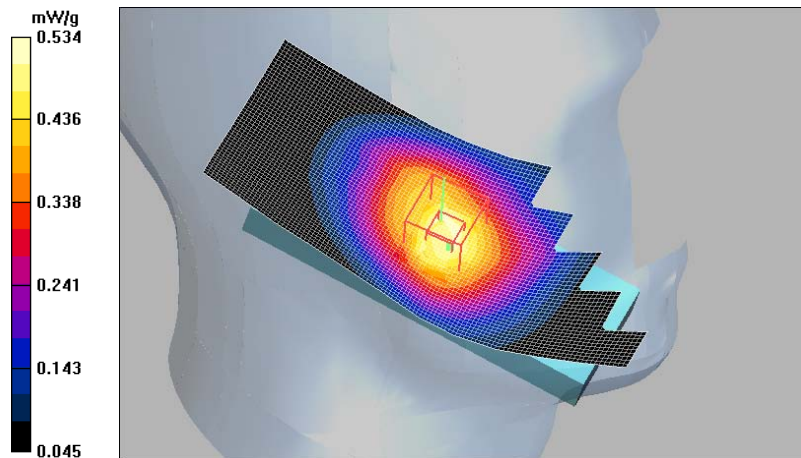
Peak SAR (extrapolated) = 0.681 W/kg

SAR(1 g) = 0.512 mW/g

SAR(10 g) = 0.354 mW/g

Power Drift = -0.368 dB

Maximum value of SAR (measured) = 0.534 mW/g



Date/Time: 2008-08-13 11:31:33

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM850

Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850; Medium Notes: Medium Temperature: $t=21.3$ C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(6.56, 6.56, 6.56); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM1; Type: SAM; Serial: TP-1097
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position - Middle - Slide open/Area Scan (51x91x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.322 mW/g

Tilt position - Middle - Slide open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 16.9 V/m

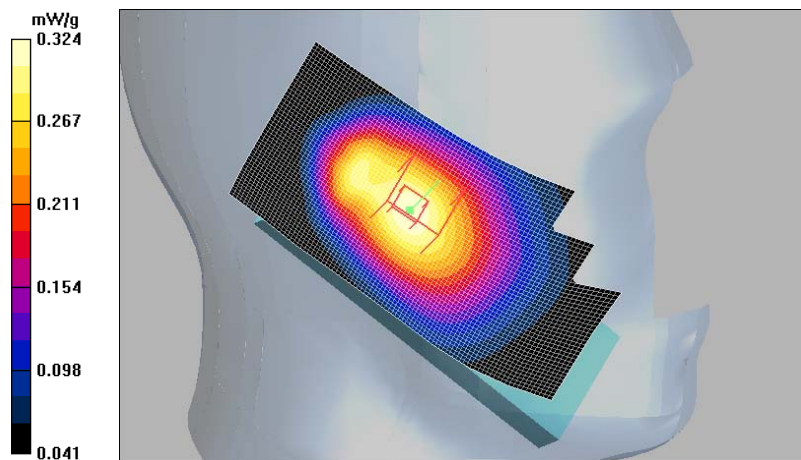
Peak SAR (extrapolated) = 0.394 W/kg

SAR(1 g) = 0.305 mW/g

SAR(10 g) = 0.222 mW/g

Power Drift = 0.051 dB

Maximum value of SAR (measured) = 0.324 mW/g



Date/Time: 2008-08-13 13:18:36

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM850

Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Head 850; Medium Notes: Medium Temperature: $t=21.3$ C

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.877$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(6.56, 6.56, 6.56); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM1; Type: SAM; Serial: TP-1097
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position - Low - Slide open/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.641 mW/g

Cheek position - Low - Slide open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.13 V/m

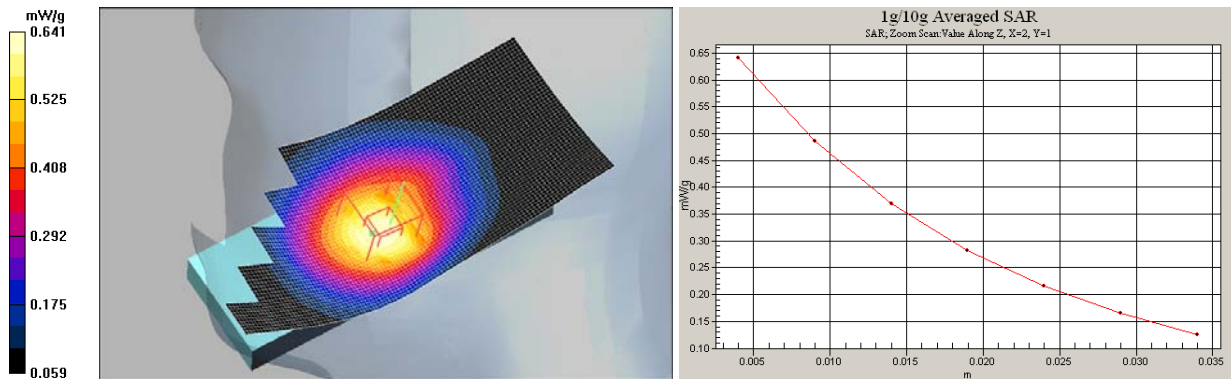
Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.615 mW/g

SAR(10 g) = 0.433 mW/g

Power Drift = -0.081 dB

Maximum value of SAR (measured) = 0.641 mW/g



Date/Time: 2008-08-13 13:56:18

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM850

Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 850; Medium Notes: Medium Temperature: $t=21.3$ C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(6.56, 6.56, 6.56); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM1; Type: SAM; Serial: TP-1097
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position - Middle- Slide open/Area Scan (51x111x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.280 mW/g

Tilt position - Middle- Slide open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 15.1 V/m

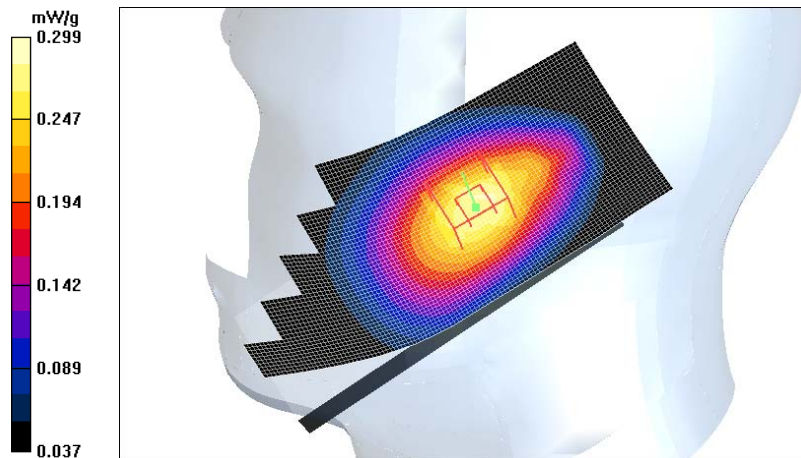
Peak SAR (extrapolated) = 0.359 W/kg

SAR(1 g) = 0.281 mW/g

SAR(10 g) = 0.206 mW/g

Power Drift = 0.110 dB

Maximum value of SAR (measured) = 0.299 mW/g



Date/Time: 2008-08-13 14:41:53

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM850

Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Head 850; Medium Notes: Medium Temperature: $t=21.3$ C

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.877$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(6.56, 6.56, 6.56); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM1; Type: SAM; Serial: TP-1097
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position - Low - Slide open - BT active/Area Scan (61x111x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.607 mW/g

Cheek position - Low - Slide open - BT active/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 8.92 V/m

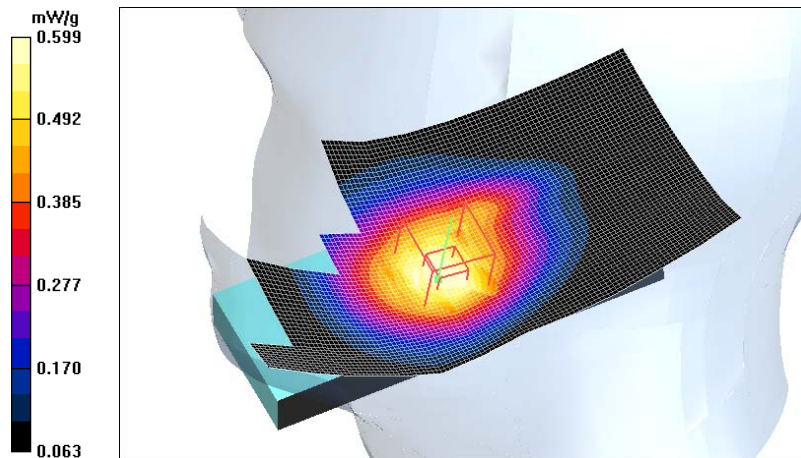
Peak SAR (extrapolated) = 0.765 W/kg

SAR(1 g) = 0.575 mW/g

SAR(10 g) = 0.407 mW/g

Power Drift = -0.204 dB

Maximum value of SAR (measured) = 0.599 mW/g



Date/Time: 2008-08-12 13:17:57

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900; Medium Notes: Medium Temperature: $t=20.7\text{ }^{\circ}\text{C}$

Medium parameters used: $f = 1880\text{ MHz}$; $\sigma = 1.43\text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(5.46, 5.46, 5.46); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM2; Type: SAM; Serial: TP-1099
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position - Middle - Slide closed/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.10 mW/g

Cheek position - Middle - Slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.48 V/m

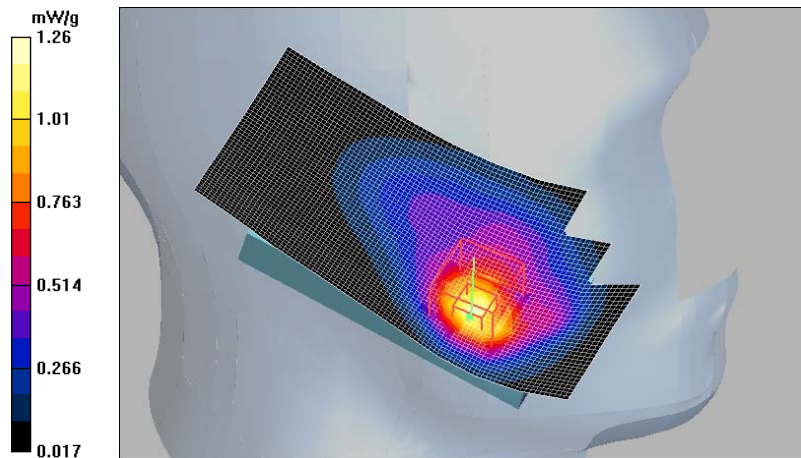
Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 1.13 mW/g

SAR(10 g) = 0.567 mW/g

Power Drift = -0.131 dB

Maximum value of SAR (measured) = 1.26 mW/g



Date/Time: 2008-08-12 11:47:13

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900; Medium Notes: Medium Temperature: $t=20.7\text{ C}$

Medium parameters used: $f = 1880\text{ MHz}$; $\sigma = 1.43\text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(5.46, 5.46, 5.46); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM2; Type: SAM; Serial: TP-1099
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position - Middle - Slide closed/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.374 mW/g

Tilt position - Middle - Slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.2 V/m

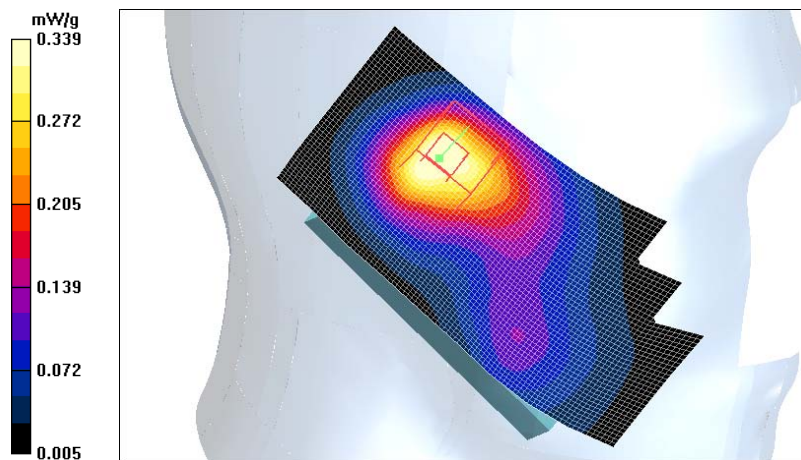
Peak SAR (extrapolated) = 0.459 W/kg

SAR(1 g) = 0.313 mW/g

SAR(10 g) = 0.195 mW/g

Power Drift = -0.082 dB

Maximum value of SAR (measured) = 0.339 mW/g



Date/Time: 2008-08-12 14:23:59

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900; Medium Notes: Medium Temperature: $t=20.7\text{ C}$

Medium parameters used: $f = 1880\text{ MHz}$; $\sigma = 1.43\text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(5.46, 5.46, 5.46); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM2; Type: SAM; Serial: TP-1099
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position - Middle - Slide closed/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.865 mW/g

Cheek position - Middle - Slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.74 V/m

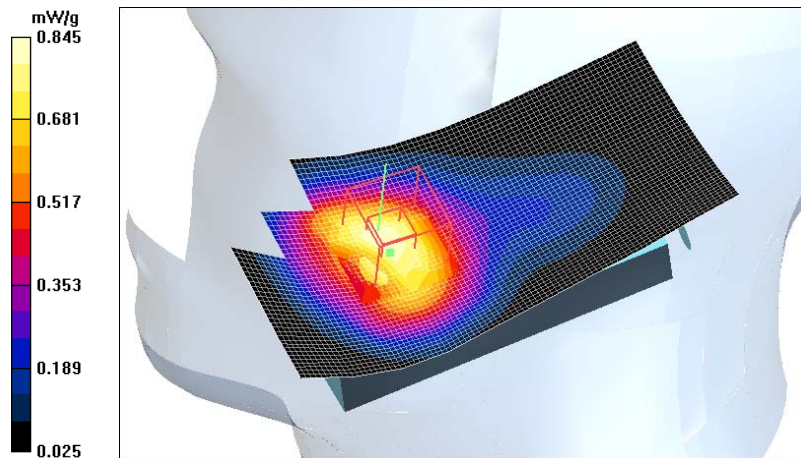
Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.782 mW/g

SAR(10 g) = 0.446 mW/g

Power Drift = -0.199 dB

Maximum value of SAR (measured) = 0.845 mW/g



Date/Time: 2008-08-12 14:38:37

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900; Medium Notes: Medium Temperature: $t=20.7\text{ C}$

Medium parameters used: $f = 1880\text{ MHz}$; $\sigma = 1.43\text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(5.46, 5.46, 5.46); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM2; Type: SAM; Serial: TP-1099
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position - Middle - Slide closed/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.341 mW/g

Tilt position - Middle - Slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.0 V/m

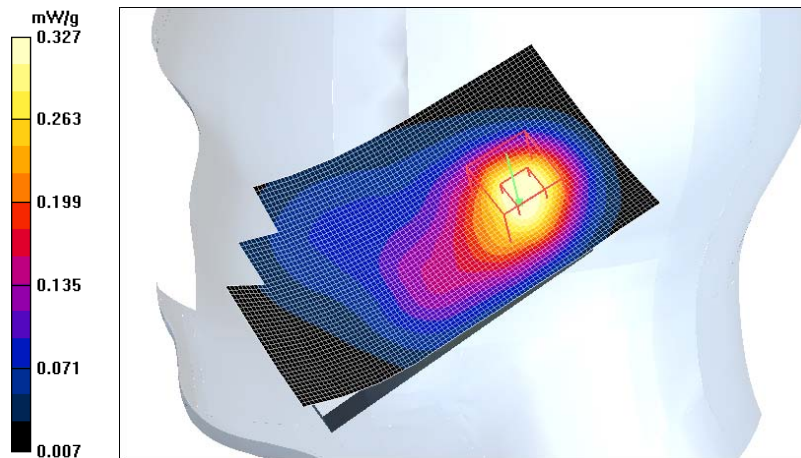
Peak SAR (extrapolated) = 0.431 W/kg

SAR(1 g) = 0.303 mW/g

SAR(10 g) = 0.184 mW/g

Power Drift = -0.052 dB

Maximum value of SAR (measured) = 0.327 mW/g



Date/Time: 2008-08-12 12:05:09

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900; Medium Notes: Medium Temperature: $t=20.7\text{ C}$

Medium parameters used: $f = 1880\text{ MHz}$; $\sigma = 1.43\text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(5.46, 5.46, 5.46); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM2; Type: SAM; Serial: TP-1099
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position - Middle - Slide open/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.356 mW/g

Cheek position - Middle - Slide open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.10 V/m

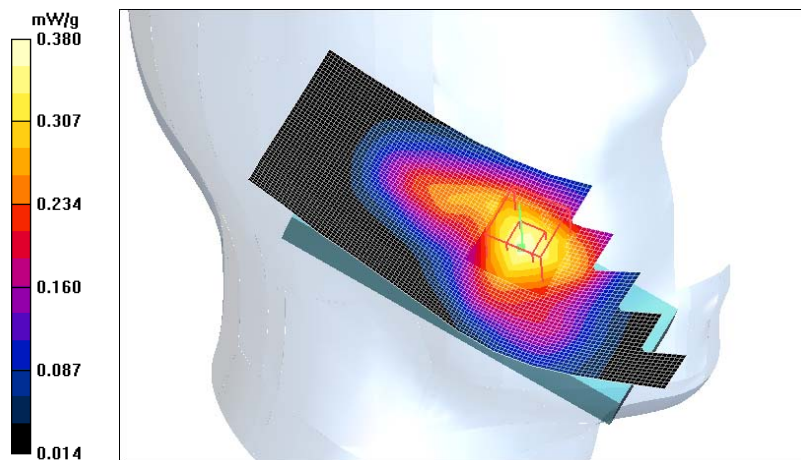
Peak SAR (extrapolated) = 0.480 W/kg

SAR(1 g) = 0.347 mW/g

SAR(10 g) = 0.221 mW/g

Power Drift = -0.074 dB

Maximum value of SAR (measured) = 0.380 mW/g



Date/Time: 2008-08-12 12:19:28

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900; Medium Notes: Medium Temperature: $t=20.7\text{ }^{\circ}\text{C}$

Medium parameters used: $f = 1880\text{ MHz}$; $\sigma = 1.43\text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(5.46, 5.46, 5.46); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM2; Type: SAM; Serial: TP-1099
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position - Middle - Slide open/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.353 mW/g

Tilt position - Middle - Slide open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.52 V/m

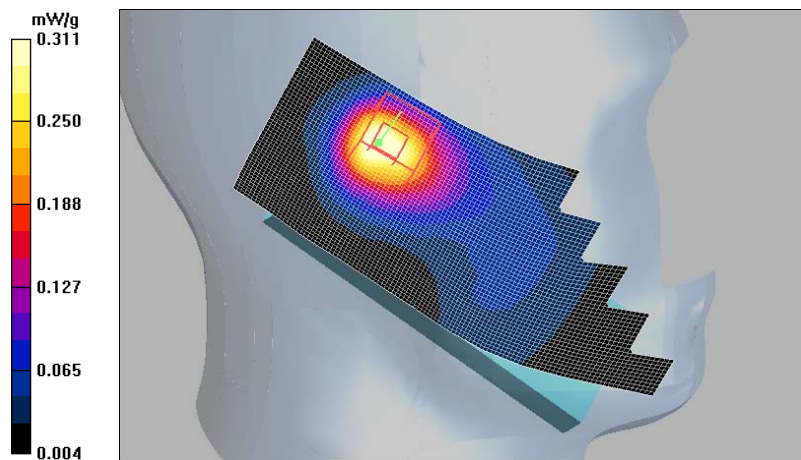
Peak SAR (extrapolated) = 0.435 W/kg

SAR(1 g) = 0.283 mW/g

SAR(10 g) = 0.165 mW/g

Power Drift = -0.047 dB

Maximum value of SAR (measured) = 0.311 mW/g



Date/Time: 2008-08-12 14:50:59

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900; Medium Notes: Medium Temperature: $t=20.7\text{ C}$

Medium parameters used: $f = 1880\text{ MHz}$; $\sigma = 1.43\text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(5.46, 5.46, 5.46); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM2; Type: SAM; Serial: TP-1099
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position - Middle - Slide open/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.557 mW/g

Cheek position - Middle - Slide open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.56 V/m

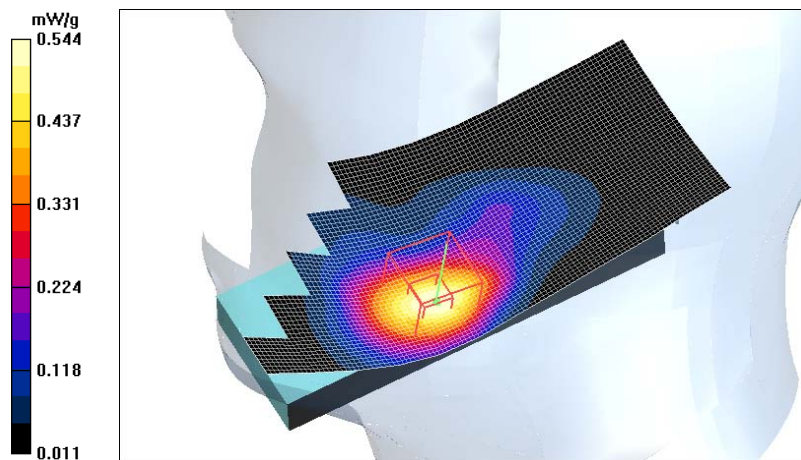
Peak SAR (extrapolated) = 0.724 W/kg

SAR(1 g) = 0.494 mW/g

SAR(10 g) = 0.295 mW/g

Power Drift = -0.132 dB

Maximum value of SAR (measured) = 0.544 mW/g



Date/Time: 2008-08-12 15:05:20

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900; Medium Notes: Medium Temperature: $t=20.7\text{ C}$

Medium parameters used: $f = 1880\text{ MHz}$; $\sigma = 1.43\text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(5.46, 5.46, 5.46); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM2; Type: SAM; Serial: TP-1099
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position - Middle - Slide open/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.180 mW/g

Tilt position - Middle - Slide open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.36 V/m

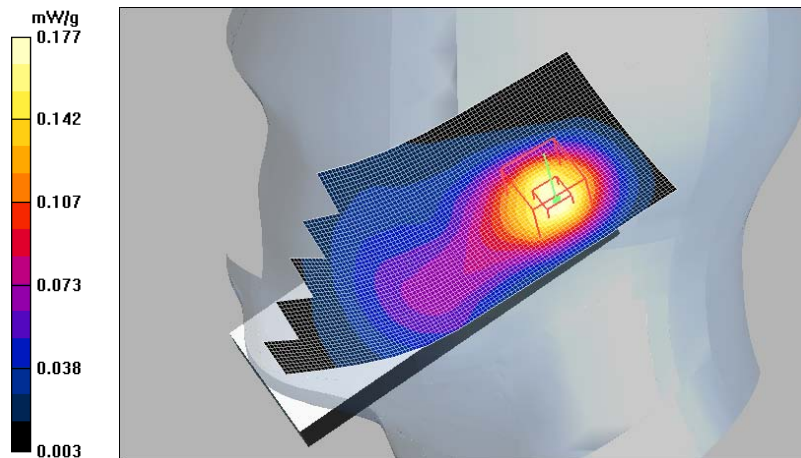
Peak SAR (extrapolated) = 0.233 W/kg

SAR(1 g) = 0.160 mW/g

SAR(10 g) = 0.099 mW/g

Power Drift = -0.013 dB

Maximum value of SAR (measured) = 0.177 mW/g



Date/Time: 2008-08-12 13:43:37

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900; Medium Notes: Medium Temperature: t=20.7 C

Medium parameters used: f = 1880 MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1650
- ConvF(5.46, 5.46, 5.46); Calibrated: 2008-03-17
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn481; Calibrated: 2008-03-07
- Phantom: SAM2; Type: SAM; Serial: TP-1099
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position - Middle - Slide closed - BT active/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.12 mW/g

Cheek position - Middle - Slide closed - BT active/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.58 V/m

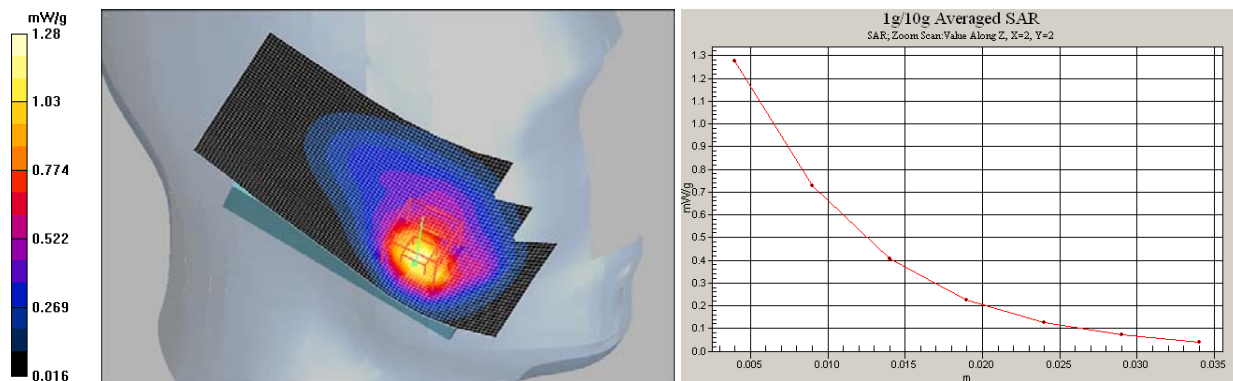
Peak SAR (extrapolated) = 2.19 W/kg

SAR(1 g) = 1.14 mW/g

SAR(10 g) = 0.569 mW/g

Power Drift = 0.016 dB

Maximum value of SAR (measured) = 1.28 mW/g



Date/Time: 2008-07-22 1:27:01 PM

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM850

Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Body 850; Medium Notes: Medium Temperature: $t = 21.5\text{ C}$

Medium parameters used: $f = 837\text{ MHz}$; $\sigma = 1.01\text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(6.17, 6.17, 6.17); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM3; Type: SAM; Serial: TP-1427
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body - Middle - No Accessory - Slide closed - Display Facing Phantom/Area Scan (51x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.169 mW/g

Body - Middle - No Accessory - Slide closed - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.68 V/m

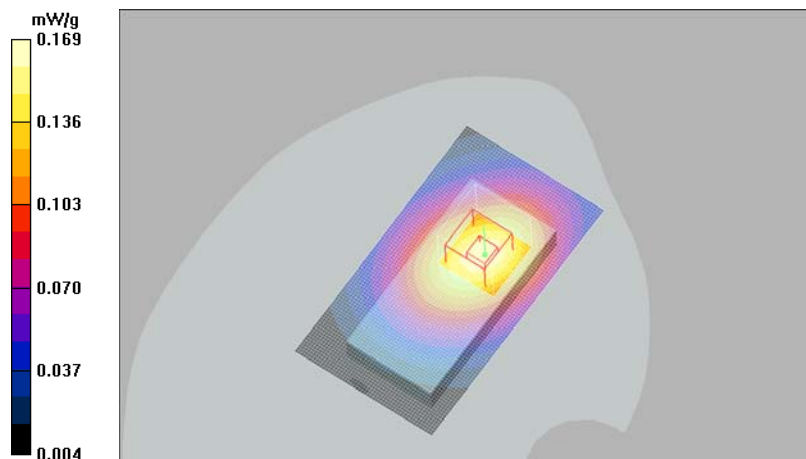
Peak SAR (extrapolated) = 0.206 W/kg

SAR(1 g) = 0.158 mW/g

SAR(10 g) = 0.114 mW/g

Power Drift = -0.130 dB

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



Date/Time: 2008-07-22 2:31:17 PM

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: 2-slot GPRS850

Frequency: 824.2 MHz; Duty Cycle: 1:4.2

Medium: Body 850; Medium Notes: Medium Temperature: $t = 21.5\text{ C}$

Medium parameters used (interpolated): $f = 824.2\text{ MHz}$; $\sigma = 0.991\text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(6.17, 6.17, 6.17); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM3; Type: SAM; Serial: TP-1427
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body - Low - No Accessory - Slide closed - Back Facing Phantom/Area Scan (51x91x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.437 mW/g

Body - Low - No Accessory - Slide closed - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.87 V/m

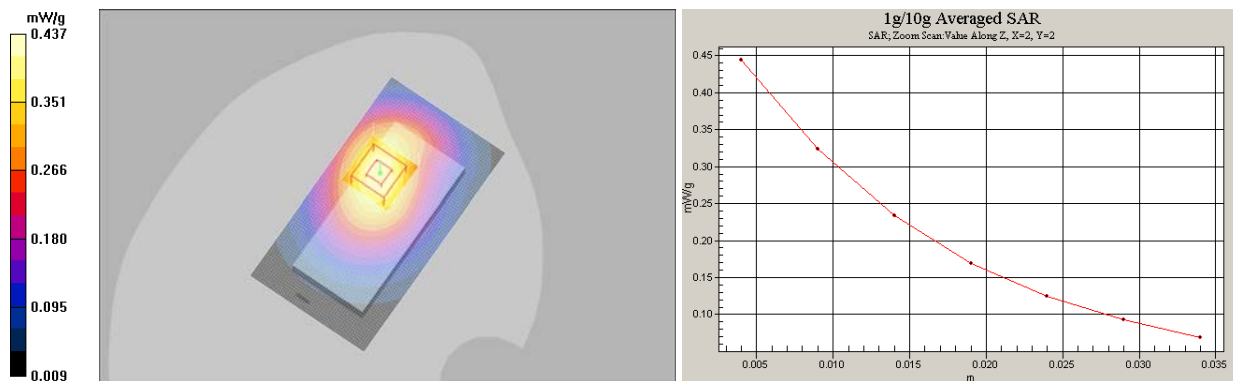
Peak SAR (extrapolated) = 0.566 W/kg

SAR(1 g) = 0.417 mW/g

SAR(10 g) = 0.293 mW/g

Power Drift = -0.022 dB

Maximum value of SAR (measured) = 0.444 mW/g



Date/Time: 2008-07-22 2:18:04 PM

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: Body 850; Medium Notes: Medium Temperature: $t = 21.5\text{ C}$

Medium parameters used: $f = 837\text{ MHz}$; $\sigma = 1.01\text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(6.17, 6.17, 6.17); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM3; Type: SAM; Serial: TP-1427
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body - Middle - HS-105 - Slide closed - Back Facing Phantom/Area Scan (51x91x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.360 mW/g

Body - Middle - HS-105 - Slide closed - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.18 V/m

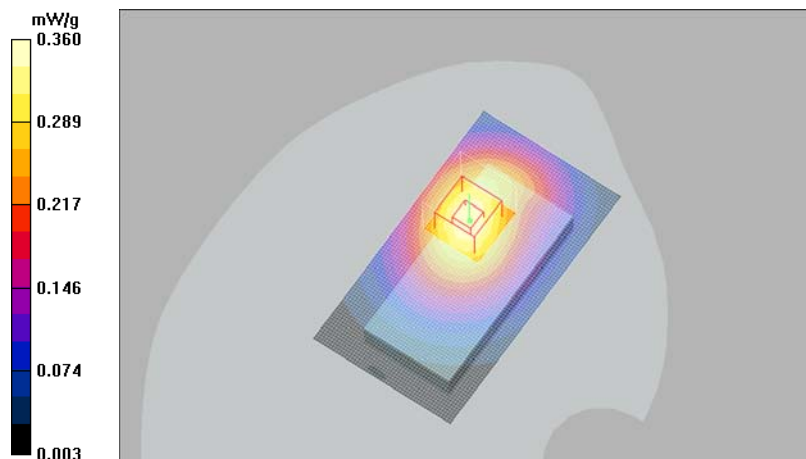
Peak SAR (extrapolated) = 0.464 W/kg

SAR(1 g) = 0.340 mW/g

SAR(10 g) = 0.237 mW/g

Power Drift = 0.015 dB

Maximum value of SAR (measured) = 0.364 mW/g



Date/Time: 2008-07-22 1:40:50 PM

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: Body 850; Medium Notes: Medium Temperature: $t = 21.5\text{ C}$

Medium parameters used: $f = 837\text{ MHz}$; $\sigma = 1.01\text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(6.17, 6.17, 6.17); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM3; Type: SAM; Serial: TP-1427
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body - Middle - No Accessory - Slide closed - Display Facing Phantom/Area Scan (51x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.320 mW/g

Body - Middle - No Accessory - Slide closed - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.74 V/m

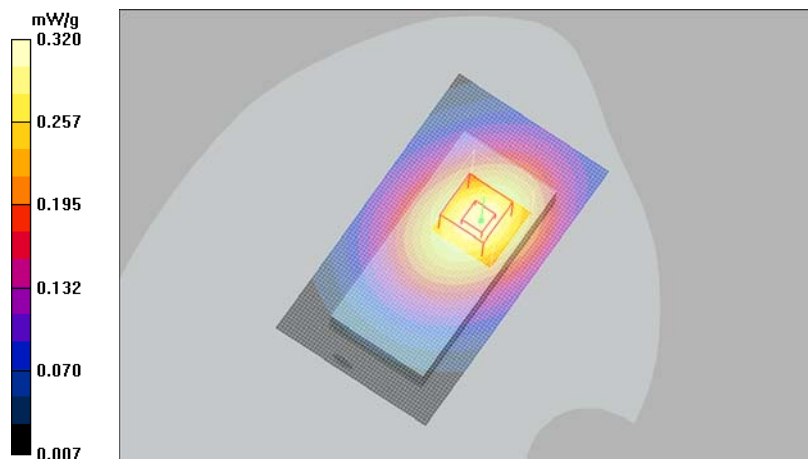
Peak SAR (extrapolated) = 0.390 W/kg

SAR(1 g) = 0.298 mW/g

SAR(10 g) = 0.215 mW/g

Power Drift = -0.124 dB

Maximum value of SAR (measured) = 0.316 mW/g



Date/Time: 2008-07-22 1:53:28 PM

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: Body 850; Medium Notes: Medium Temperature: $t = 21.5\text{ C}$

Medium parameters used: $f = 837\text{ MHz}$; $\sigma = 1.01\text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(6.17, 6.17, 6.17); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM3; Type: SAM; Serial: TP-1427
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body - Middle - HS-105 - Slide closed - Display Facing Phantom/Area Scan (51x91x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.284 mW/g

Body - Middle - HS-105 - Slide closed - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.69 V/m

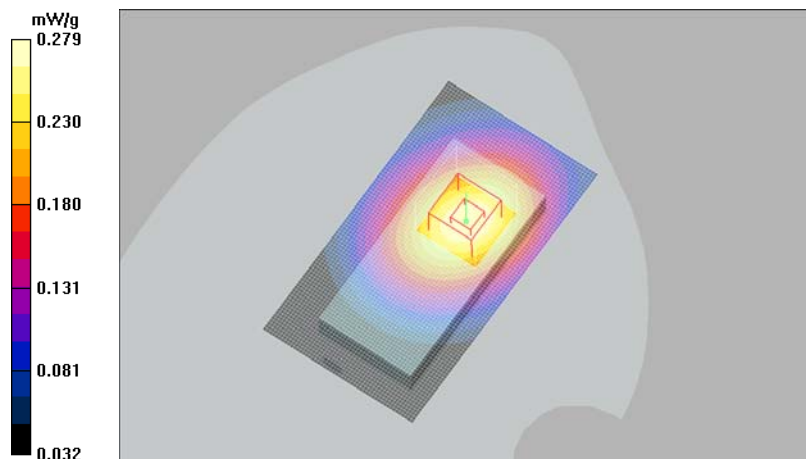
Peak SAR (extrapolated) = 0.345 W/kg

SAR(1 g) = 0.264 mW/g

SAR(10 g) = 0.192 mW/g

Power Drift = 0.023 dB

Maximum value of SAR (measured) = 0.279 mW/g



Date/Time: 2008-07-22 2:56:36 PM

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: 2-slot GPRS850

Frequency: 824.2 MHz; Duty Cycle: 1:4.2

Medium: Body 850; Medium Notes: Medium Temperature: $t = 21.5$ C

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.991$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(6.17, 6.17, 6.17); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM3; Type: SAM; Serial: TP-1427
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body - Low - No Accessory - Slide closed - Back Facing Phantom - BT active/Area Scan (51x91x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.435 mW/g

Body - Low - No Accessory - Slide closed - Back Facing Phantom - BT active/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 8.43 V/m

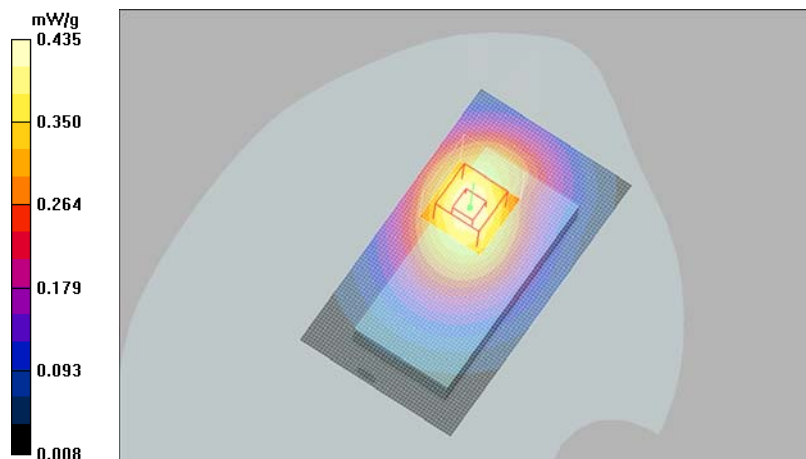
Peak SAR (extrapolated) = 0.569 W/kg

SAR(1 g) = 0.416 mW/g

SAR(10 g) = 0.291 mW/g

Power Drift = -0.078 dB

Maximum value of SAR (measured) = 0.445 mW/g



Date/Time: 2008-07-28 2:08:37 PM

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Body 1900; Medium Notes: Medium Temperature: t=22.4C

Medium parameters used: f = 1880 MHz; σ = 1.56 mho/m; ϵ_r = 52.2; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(4.46, 4.46, 4.46); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM3; Type: SAM; Serial: TP-1427
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body - Middle - No Accessory - Slide closed - Display Facing Phantom/Area Scan (51x91x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.122 mW/g

Body - Middle - No Accessory - Slide closed - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.85 V/m

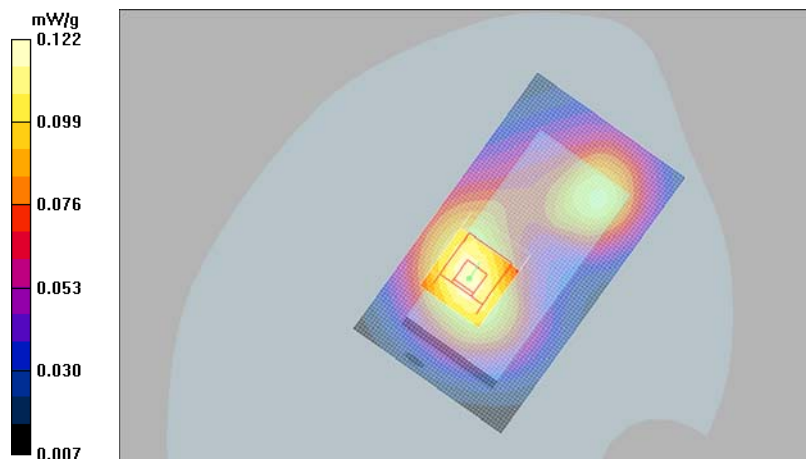
Peak SAR (extrapolated) = 0.164 W/kg

SAR(1 g) = 0.113 mW/g

SAR(10 g) = 0.076 mW/g

Power Drift = -0.055 dB

Maximum value of SAR (measured) = 0.122 mW/g



Date/Time: 2008-07-28 3:14:58 PM

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: Body 1900; Medium Notes: Medium Temperature: t=22.4C

Medium parameters used: f = 1880 MHz; σ = 1.56 mho/m; ϵ_r = 52.2; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(4.46, 4.46, 4.46); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM3; Type: SAM; Serial: TP-1427
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body - Middle - No Accessory - Slide closed - Back Facing Phantom/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

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

Body - Middle - No Accessory - Slide closed - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.94 V/m

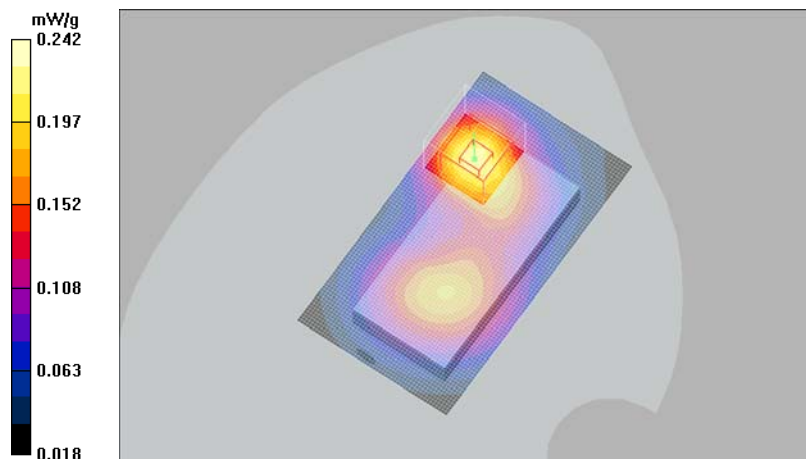
Peak SAR (extrapolated) = 0.331 W/kg

SAR(1 g) = 0.214 mW/g

SAR(10 g) = 0.133 mW/g

Power Drift = -0.177 dB

Maximum value of SAR (measured) = 0.232 mW/g



Date/Time: 2008-07-28 3:37:18 PM

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: Body 1900; Medium Notes: Medium Temperature: t=22.4C

Medium parameters used: f = 1880 MHz; σ = 1.56 mho/m; ϵ_r = 52.2; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(4.46, 4.46, 4.46); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM3; Type: SAM; Serial: TP-1427
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body - Middle - HS-105 - Slide closed - Back Facing Phantom/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

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

Body - Middle - HS-105 - Slide closed - Back Facing Phantom/Zoom Scan 2 (6x6x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.48 V/m

Peak SAR (extrapolated) = 0.336 W/kg

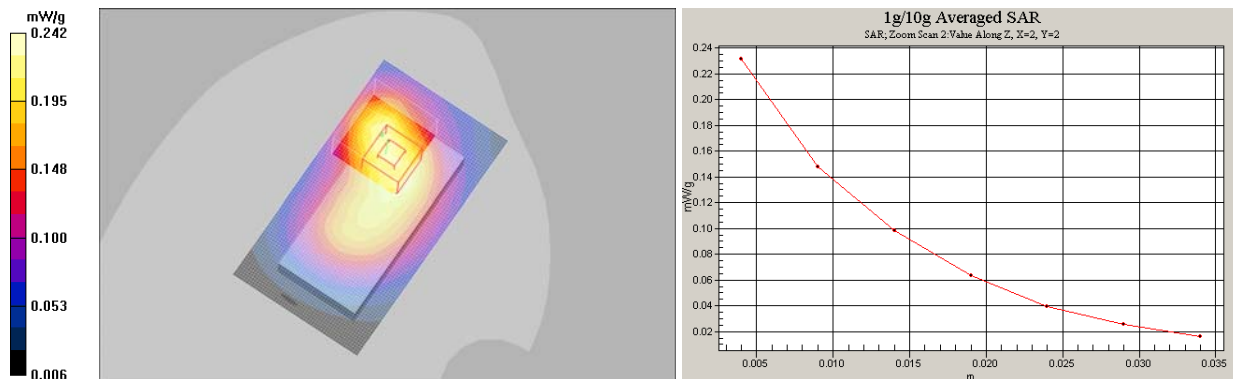
SAR(1 g) = 0.217 mW/g

SAR(10 g) = 0.142 mW/g

Power Drift = -0.196 dB

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (measured) = 0.231 mW/g



Date/Time: 2008-07-28 2:48:16 PM

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: Body 1900; Medium Notes: Medium Temperature: t=22.4C

Medium parameters used: f = 1880 MHz; σ = 1.56 mho/m; ϵ_r = 52.2; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(4.46, 4.46, 4.46); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM3; Type: SAM; Serial: TP-1427
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body - Middle - No Accessory - Slide closed - Display Facing Phantom/Area Scan (51x91x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.226 mW/g

Body - Middle - No Accessory - Slide closed - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.7 V/m

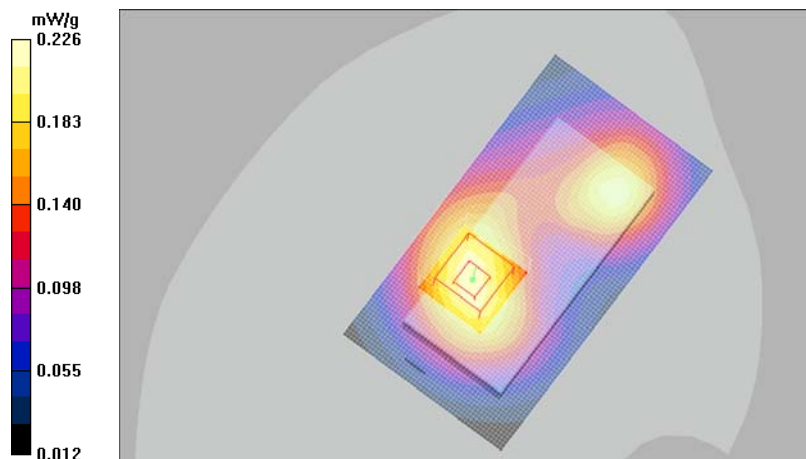
Peak SAR (extrapolated) = 0.302 W/kg

SAR(1 g) = 0.210 mW/g

SAR(10 g) = 0.141 mW/g

Power Drift = -0.059 dB

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



Date/Time: 2008-07-28 3:01:47 PM

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: Body 1900; Medium Notes: Medium Temperature: t=22.4C

Medium parameters used: f = 1880 MHz; σ = 1.56 mho/m; ϵ_r = 52.2; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(4.46, 4.46, 4.46); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM3; Type: SAM; Serial: TP-1427
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body - Middle - HS-105 - Slide closed - Display Facing Phantom/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.222 mW/g

Body - Middle - HS-105 - Slide closed - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.11 V/m

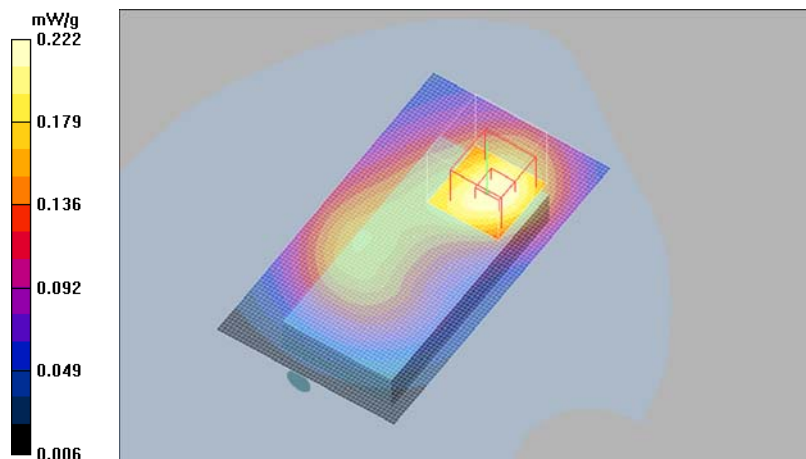
Peak SAR (extrapolated) = 0.336 W/kg

SAR(1 g) = 0.208 mW/g

SAR(10 g) = 0.131 mW/g

Power Drift = -0.232 dB

Maximum value of SAR (measured) = 0.220 mW/g



Date/Time: 2008-07-28 5:10:06 PM

Test Laboratory: TCC Nokia

Type: RM-500; Serial: 001004/00/295565/7

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: Body 1900; Medium Notes: Medium Temperature: t=22.4C

Medium parameters used: f = 1880 MHz; σ = 1.56 mho/m; ϵ_r = 52.2; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1652; Probe Notes:
- ConvF(4.46, 4.46, 4.46); Calibrated: 9/19/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn480; Calibrated: 9/13/2007
- Phantom: SAM3; Type: SAM; Serial: TP-1427
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body - Middle - HS-105 - Slide closed - Back Facing Phantom - BT active/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.235 mW/g

Body - Middle - HS-105 - Slide closed - Back Facing Phantom - BT active/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.94 V/m

Peak SAR (extrapolated) = 0.327 W/kg

SAR(1 g) = 0.209 mW/g

SAR(10 g) = 0.132 mW/g

Power Drift = -0.169 dB

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

