

SAR Compliance Test Report

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Tested device:	RM-208		
FCC ID:	PYARM-208	IC:	661V-RM208
Supplement reports:	Salo_SAR_0647_08		
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.		
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1. SUMMARY OF SAR TEST REPORT

1.1 Test Details

Period of test	2006-10-31 to 2006-11-08
SN, HW and SW numbers of tested device	SN: 004400941721308, HW: 0404, SW: 1.0633.06.00, DUT: 11528
Batteries used in testing	BL-5F, DUT: 11529, 11530, 11531, 11532
Headsets used in testing	HS-23, DUT: 10840
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.

1.2.1 Head Configuration

Mode	Ch / f (MHz)	Radiated power	Position	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
3-slot GPRS850	128/824.2	29.5 dBm ERP	Right, Cheek	0.859 W/kg	0.96 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900	661/1880.0	30.1 dBm EIRP	Right, Tilt	0.969 W/kg	1.09 W/kg	1.6 W/kg	PASSED
WLAN2450	11/2462.0	25.2 dBm EIRP	Left, Cheek	0.08 1W/kg	0.09 W/kg	1.6 W/kg	PASSED
3-slot GPRS850 + WLAN2450	-	-	Right, Cheek	0.940 W/kg	1.05 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900 + WLAN2450	-	-	Right, Tilt	1.010 W/kg	1.13 W/kg	1.6 W/kg	PASSED

1.2.2 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
3-slot GPRS850	128/824.2	29.5 dBm ERP	2.2cm	0.721 W/kg	0.81 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900	810/1909.8	30.6 dBm EIRP	2.2cm	0.327 W/kg	0.37 W/kg	1.6 W/kg	PASSED
WLAN2450	11/2462.0	25.2 dBm EIRP	2.2cm	0.042 W/kg	0.05 W/kg	1.6 W/kg	PASSED
3-slot GPRS850 + WLAN2450	-	-	2.2cm	0.763W/kg	0.85 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900 + WLAN2450	-	-	2.2cm	0.369 W/kg	0.41 W/kg	1.6 W/kg	PASSED

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

1.2.3 Maximum Drift

Maximum drift covered by 12% scaling up of the SAR values	Maximum drift during measurements
0.5dB	0.50dB

1.2.4 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 and Bands of Operation	GSM	GPRS	EGPRS	BT	WLAN2450
	850 / 1900	850 / 1900	850 / 1900		
Modulation Mode	GMSK	GMSK	GMSK / 8PSK	GFSK	
Duty Cycle	1/8	1/8 to 3/8	1/8 to 3/8		1
Transmitter Frequency Range (MHz)	824 - 849 1850 - 1910	824 - 849 1850 - 1910	824 - 849 1850 - 1910	2402-2480	2412-2472

Outside of USA and Canada, the transmitter of the device is capable of operating also in 900 / 1800 / 2100 MHz bands, which are not part of this filing.

This device has Push to Talk/Voice-over-IP/Dual Transfer Mode capability for use at the ear. Therefore, SAR for multi slot GPRS mode was evaluated against the head profile of the phantom.

2.1 Description of the Antenna

The device has an internal antenna.

3. TEST CONDITIONS

3.1 Temperature and Humidity

Ambient temperature (°C):	20.0 to 22.2
Ambient humidity (RH %):	30 to 40

3.2 Test Signal, Frequencies and Output Power

The device was put into operation by using a call tester except for testing WLAN2450 where control software was used. 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 4	555	12 months	2007-02
E-field Probe ET3DV6	1396	12 months	2007-07
Dipole Validation Kit, D835V2	462	24 months	2008-07
Dipole Validation Kit, D1900V2	5d013	24 months	2008-07
Dipole Validation Kit, D2450V2	729	24 months	2007-02
DASY4 software	Version 4.7	-	-

Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration interval	Calibration expiry
Signal Generator	SML03	101265	12 months	2007-07
Amplifier	ZHL-42 (SMA)	N072095-5	12 months	2007-07
Power Meter	NRVS	849305/028	12 months	2007-07
Power Sensor	NRV-Z32	839176/020	12 months	2007-07
Call Tester	CMU 200	101111	-	-
Call Tester	CMU 200	100084	-	-
Vector Network Analyzer	8753E	US38432928	12 months	2007-07
Dielectric Probe Kit	85070B	US33020420	-	-

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 stimulant(s):

800MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	51.50	69.25
Tween 20	47.35	30.00
Salt	1.15	0.75

1900MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	54.50	70.25
Tween 20	45.23	29.41
Salt	0.27	0.34

2450MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	56.0	70.2
Tween 20	44.0	29.62
Salt	-	0.18

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	41.0	0.88	
	± 10% window	2.03 – 2.49			
	2006-11-07	2.37	41.5	0.89	21.0
1900	Reference result	9.69	39.3	1.44	
	± 10% window	8.72 – 10.66			
	2006-11-02	9.53	39.2	1.43	21.0
	2006-11-03	9.51	39.5	1.44	21.0
2450	Reference result	14.2	39.9	1.78	
	± 10% window	12.8 – 15.6			
	2006-10-31	13.8	40.2	1.87	21.0
	2006-11-01	13.9	40.8	1.87	21.0
	2006-11-02	13.8	40.6	1.87	21.0

System checking, body tissue simulant

f [MHz]	Description	SAR [W/kg], 1g	Dielectric Parameters		Temp [°C]
			ϵ_r	σ [S/m]	
835	Reference result	2.42	54.9	1.00	
	± 10% window	2.18 – 2.66			
	2006-11-08	2.47	55.8	0.98	21.0
2450	Reference result	13.4	52.3	2.01	
	± 10% window	12.1 – 14.7			
	2006-11-01	13.7	53.0	1.97	21.0

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	
	2006-11-07	41.5	0.89	21.0
1880	Recommended value	40.0	1.40	
	$\pm 5\%$ window	38.0 – 42.0	1.33 – 1.47	
	2006-11-02	39.3	1.41	21.0
	2006-11-03	39.6	1.42	21.0
2442	Recommended value	39.2	1.79	
	$\pm 5\%$ window	37.3 – 41.2	1.70 – 1.88	
	2006-10-31	40.2	1.87	21.0
	2006-11-01	40.8	1.86	21.0
	2006-11-02	40.6	1.87	21.0

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	
	2006-11-08	55.9	0.99	21.0
1880	Recommended value	53.3	1.52	
	$\pm 5\%$ window	50.6 – 56.0	1.44 – 1.60	
	2006-11-03	54.5	1.50	21.0
2442	Recommended value	52.7	1.94	
	$\pm 5\%$ window	50.1 – 55.3	1.85 – 2.04	
	2006-11-01	53.0	1.96	21.0

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 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.

5.3 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	G_i	$G_i \cdot u_i$ (%)	ν_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

Slide option	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		31.7 dBm	30.7 dBm	29.7 dBm
Slide closed	Left	Cheek	-	0.296	-
2-slot GPRS	Power		31.3 dBm	29.9 dBm	29.0 dBm
Slide closed	Left	Cheek	-	0.526	-
3-slot GPRS	Power		29.5 dBm	28.1dBm	27.0 dBm
Slide closed	Left	Cheek	0.716	0.751	0.528
		Tilt	-	0.488	-
	Right	Cheek	0.859	0.747	0.512
		Tilt	-	0.525	-
3-slot GPRS	Power		27.1 dBm	24.9 dBm	23.5 dBm
Slide open	Left	Cheek	-	0.284	-
		Tilt	-	0.159	-
	Right	Cheek	0.336	0.290	0.253
		Tilt	-	0.129	-
3-slot EGPRS	Power		26.9dBm	25.6 dBm	24.3dBm
Slide closed	Left	Cheek	-	0.159	-
3-slot GPRS Slide closed	Right Cheek, BT active		0.839	-	-

1900MHz Head SAR results

Slide option	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		29.3 dBm	30.1 dBm	31.5 dBm
Slide closed	Left	Cheek	-	0.221	-
2-slot GPRS	Power		29.2 dBm	30.1 dBm	30.6 dBm
Slide closed	Left	Cheek	-	0.408	-
		Tilt	0.778	0.875	0.743
	Right	Cheek	-	0.658	-
		Tilt	0.671	0.969	0.886
2-slot GPRS	Power		28.8 dBm	28.2 dBm	30.1 dBm
Slide open	Left	Cheek	-	0.235	-
		Tilt	0.203	0.241	0.328
	Right	Cheek	-	0.201	-
		Tilt	-	0.227	-
3-slot GPRS	Power		27.2 dBm	25.4 dBm	25.9 dBm
Slide closed	Left	Cheek	-	0.352	-
2-slot EGPRS	Power		26.2 dBm	26.5 dBm	27.3 dBm
Slide closed	Left	Cheek	-	0.171	-
2-slot GPRS Slide closed	Right Tilt, BT active		-	0.813	-

2450MHz Head SAR results

Slide option	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 1 2412.0 MHz	Ch 7 2442.0 MHz	Ch 11 2462.0 MHz
WLAN	Power		20.2 dBm	19.3 dBm	25.2 dBm
Slide closed	Left	Cheek	0.068	0.064	0.081
		Tilt	-	0.032	-
	Right	Cheek	0.063	0.066	0.081
		Tilt	-	0.042	-
WLAN	Power		17.5 dBm	19.1 dBm	14.9 dBm
Slide open	Left	Cheek	0.037	0.036	0.050
		Tilt	-	0.032	-
	Right	Cheek	-	0.024	-
		Tilt	-	0.033	-

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

850MHz Body SAR results

Slide option	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz
3-slot GPRS	Power		29.5 dBm	28.1 dBm	27.0 dBm
Slide closed	Without headset		0.721	0.670	0.623
	Headset HS-23		0.523	0.421	0.395
Slide closed	Without headset, BT active		0.721	-	-

1900MHz Body SAR results

Slide option	Test configuration	SAR, averaged over 1g (W/kg)		
		Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz
2-slot GPRS	Power	29.2 dBm	30.1 dBm	30.6 dBm
Slide closed	Without headset	0.268	0.310	0.322
	Headset HS-23	0.270	0.289	0.295
Slide closed	Without headset, BT active	-	-	0.327

2450MHz Body SAR results

Slide option	Test configuration	SAR, averaged over 1g (W/kg)		
		Ch 1 2412.0 MHz	Ch 7 2442.0 MHz	Ch 11 2462.0 MHz
WLAN	Power	20.2 dBm	19.3 dBm	25.2 dBm
Slide closed	Without headset	0.030	0.032	0.042
	Headset HS-23	0.027	0.023	0.039

Simultaneous transmissions: Combined SAR results

Slide option	Test configuration	Max. 1g SAR results			Combined 1g SAR values	
		WLAN	850MHz	1900MHz	WLAN + 850MHz	WLAN + 1900MHz
Slide closed	Head: Left, Cheek	0.081	0.751	0.408	0.832	0.489
	Head: Left, Tilt	0.032	0.488	0.875	0.520	0.907
	Head: Right, Cheek	0.081	0.859	0.658	0.940	0.739
	Head: Right, Tilt	0.042	0.525	0.969	0.567	1.010
Slide open	Head: Left, Cheek	0.050	0.284	0.235	0.334	0.285
	Head: Left, Tilt	0.032	0.159	0.328	0.191	0.360
	Head: Right, Cheek	0.024	0.336	0.201	0.360	0.225
	Head: Right, Tilt	0.033	0.129	0.227	0.162	0.260
Slide closed	Body: Without Headset	0.042	0.721	0.327	0.763	0.369
	Body: Headset HS-23	0.039	0.523	0.295	0.562	0.334

Combining the maximum SAR values of WLAN2450 and the cellular bands tends to overestimate the SAR value since their maxima do not necessarily occur in the same location.

Plots of the Measurement scans are given in Appendix B.

APPENDIX A: SYSTEM CHECKING SCANS

Date/Time: 2006-11-07 08:41:00

Test Laboratory: TCC Nokia

Type: D835V2; Serial: D835V2 - SN:462

Communication System: CW

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL900; Medium Notes: 20.5 C

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.888 \text{ mho/m}$; $\epsilon_r = 41.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.79, 6.79, 6.79); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.55 mW/g

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

Reference Value = 54.4 V/m

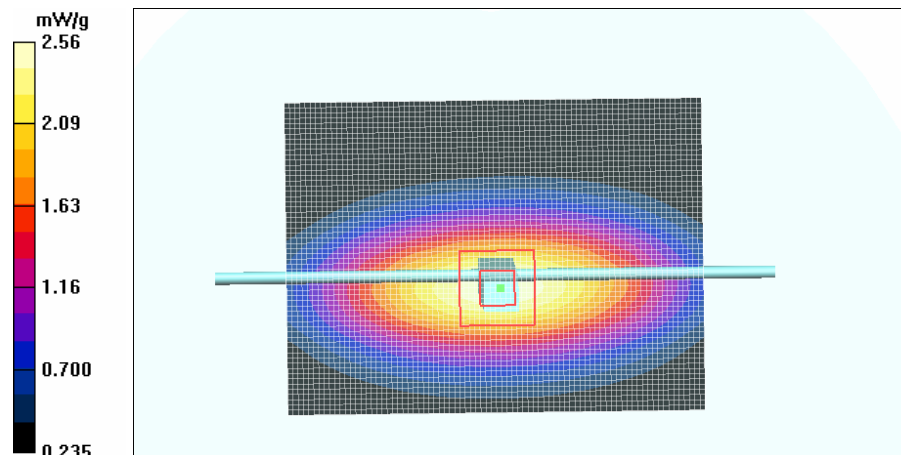
Peak SAR (extrapolated) = 3.55 W/kg

SAR(1 g) = 2.37 mW/g

SAR(10 g) = 1.55 mW/g

Power Drift = -0.036 dB

Maximum value of SAR (measured) = 2.56 mW/g



Date/Time: 2006-11-02 14:37:41

Test Laboratory: TCC Nokia
Type: D1900V2; Serial: D1900V2 - SN:5d013

Communication System: CW
Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: 20.8 C
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes:
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.6 mW/g

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

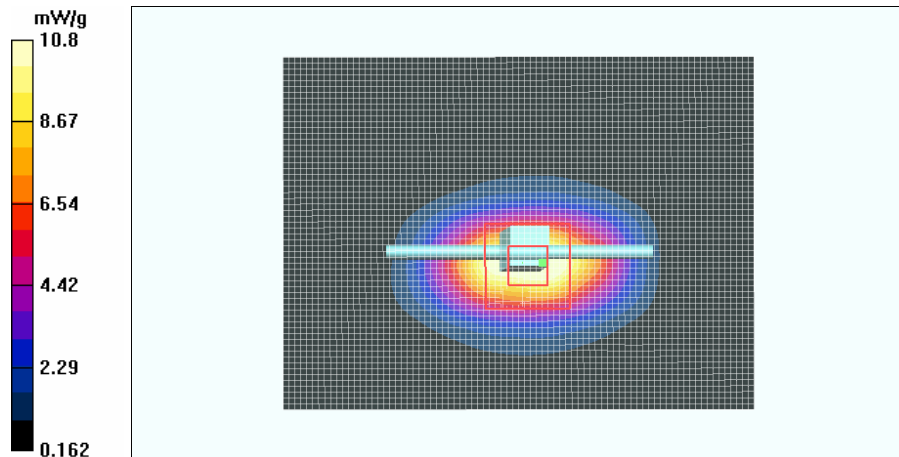
Reference Value = 88.5 V/m
Peak SAR (extrapolated) = 16.7 W/kg

SAR(1 g) = 9.53 mW/g

SAR(10 g) = 4.98 mW/g

Power Drift = 0.068 dB

Maximum value of SAR (measured) = 10.8 mW/g



Date/Time: 2006-11-03 08:13:31

Test Laboratory: TCC Nokia
Type: D1900V2; Serial: D1900V2 - SN:5d013

Communication System: CW
Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: 20.8 C
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.3 mW/g

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

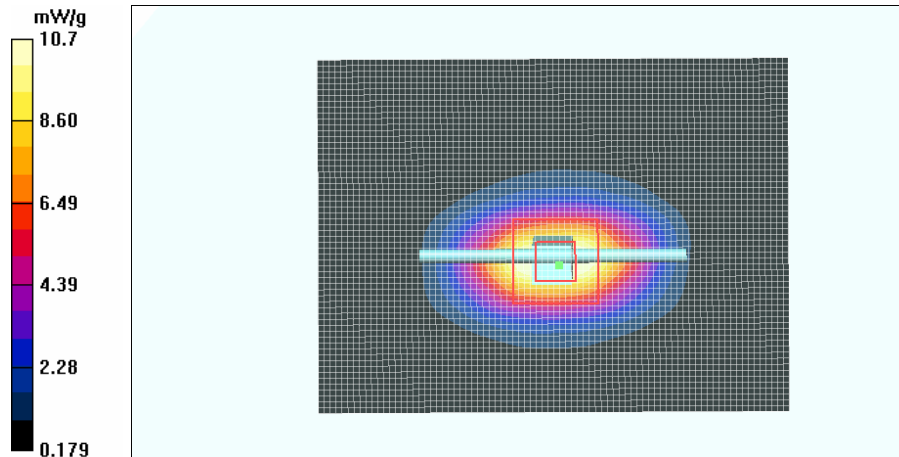
Reference Value = 91.1 V/m
Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 9.51 mW/g

SAR(10 g) = 4.96 mW/g

Power Drift = 0.076 dB

Maximum value of SAR (measured) = 10.7 mW/g



Date/Time: 2006-10-31 08:33:56

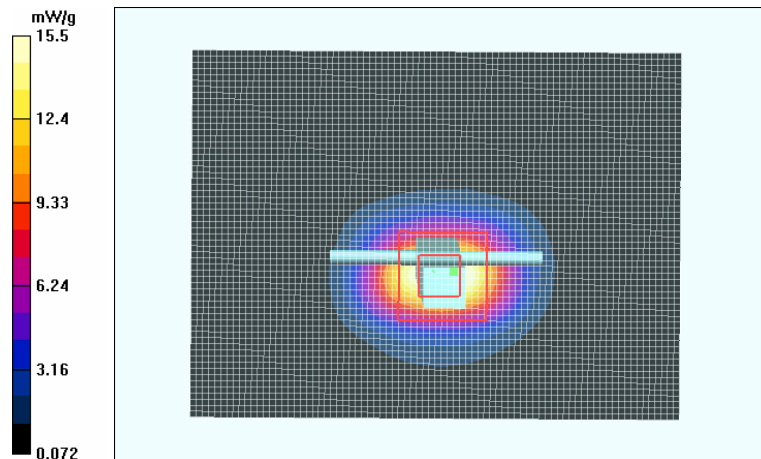
Test Laboratory: TCC Nokia
Type: D2450V2; Serial: D2450V2 - SN:729

Communication System: CW
Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 20.9 C
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 16.7 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 88.3 V/m
Peak SAR (extrapolated) = 29.7 W/kg
SAR(1 g) = 13.8 mW/g
SAR(10 g) = 6.33 mW/g
Power Drift = 0.040 dB
Maximum value of SAR (measured) = 15.5 mW/g



Date/Time: 2006-11-01 13:46:29

Test Laboratory: TCC Nokia
Type: D2450V2; Serial: D2450V2 - SN:729

Communication System: CW
Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 21.0 C
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 17.4 mW/g

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

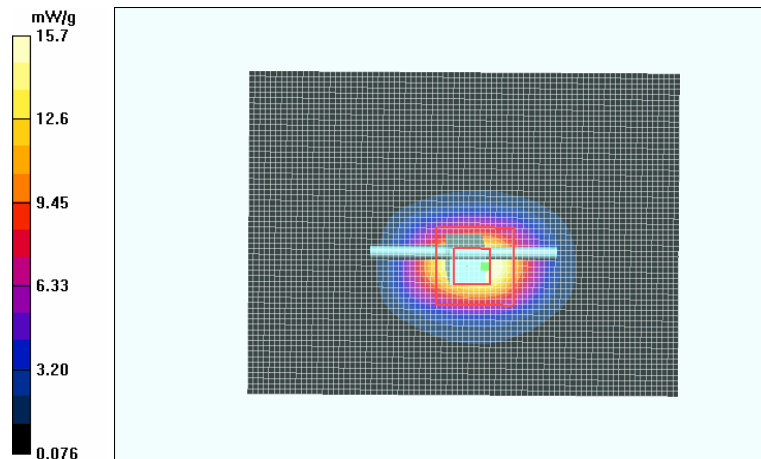
Reference Value = 90.1 V/m
Peak SAR (extrapolated) = 29.6 W/kg

SAR(1 g) = 13.9 mW/g

SAR(10 g) = 6.38 mW/g

Power Drift = 0.042 dB

Maximum value of SAR (measured) = 15.7 mW/g



Date/Time: 2006-11-02 08:20:58

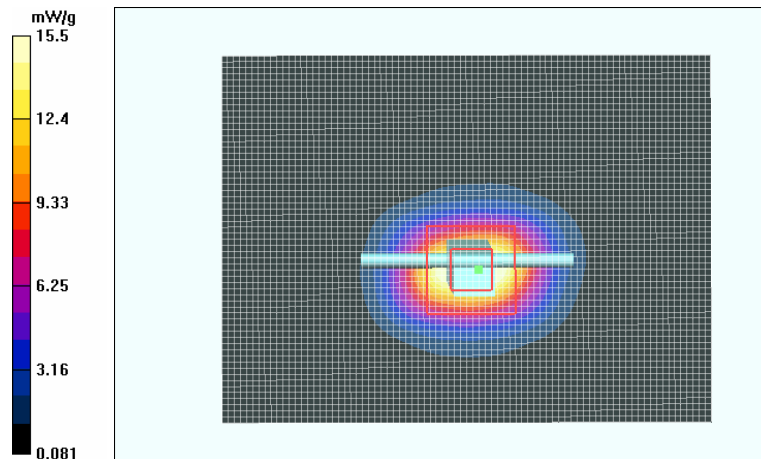
Test Laboratory: TCC Nokia
Type: D2450V2; Serial: D2450V2 - SN:729

Communication System: CW
Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 20.8 C
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 17.2 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.0 V/m
Peak SAR (extrapolated) = 29.6 W/kg
SAR(1 g) = 13.8 mW/g
SAR(10 g) = 6.32 mW/g
Power Drift = -0.016 dB
Maximum value of SAR (measured) = 15.5 mW/g



Date/Time: 2006-11-08 09:01:37

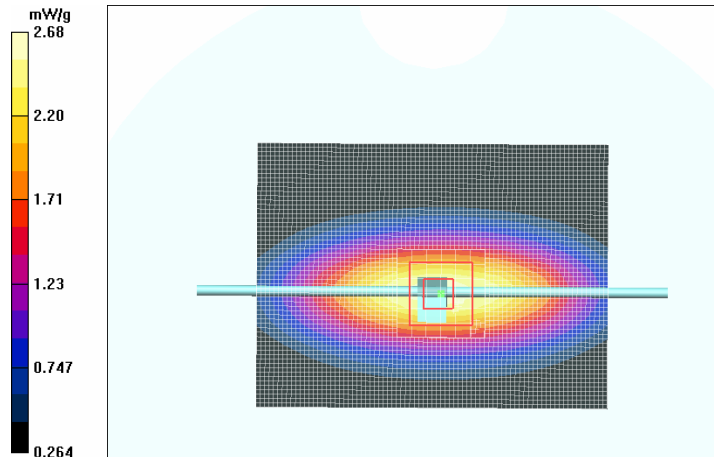
Test Laboratory: TCC Nokia
Type: D835V2; Serial: D835V2 - SN:462

Communication System: CW
Frequency: 835 MHz; Duty Cycle: 1:1
Medium: M800; Medium Notes: 21.0 C
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.984 \text{ mho/m}$; $\epsilon_r = 55.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.41, 6.41, 6.41); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.68 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.7 V/m
Peak SAR (extrapolated) = 3.60 W/kg
SAR(1 g) = 2.47 mW/g
SAR(10 g) = 1.63 mW/g
Power Drift = -0.001 dB
Maximum value of SAR (measured) = 2.68 mW/g



Date/Time: 2006-11-01 08:33:55

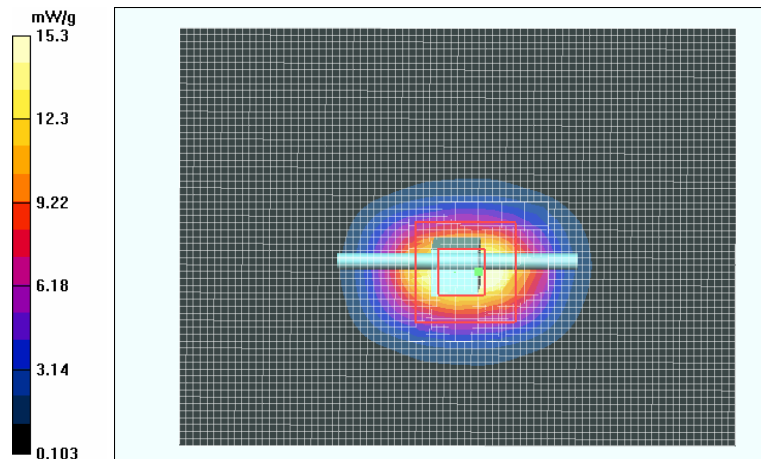
Test Laboratory: TCC Nokia
Type: D2450V2; Serial: D2450V2 - SN:729

Communication System: CW
Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: M2450; Medium Notes: 21.0 C
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.22, 4.22, 4.22); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 16.7 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 90.9 V/m
Peak SAR (extrapolated) = 29.5 W/kg
SAR(1 g) = 13.7 mW/g
SAR(10 g) = 6.41 mW/g
Power Drift = 0.046 dB
Maximum value of SAR (measured) = 15.3 mW/g



APPENDIX B: MEASUREMENT SCANS

Date/Time: 2006-11-07 09:17:02

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: GSM850

Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL850; Medium Notes: 20.2 C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.79, 6.79, 6.79); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Cheek position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 16.6 V/m

Peak SAR (extrapolated) = 0.411 W/kg

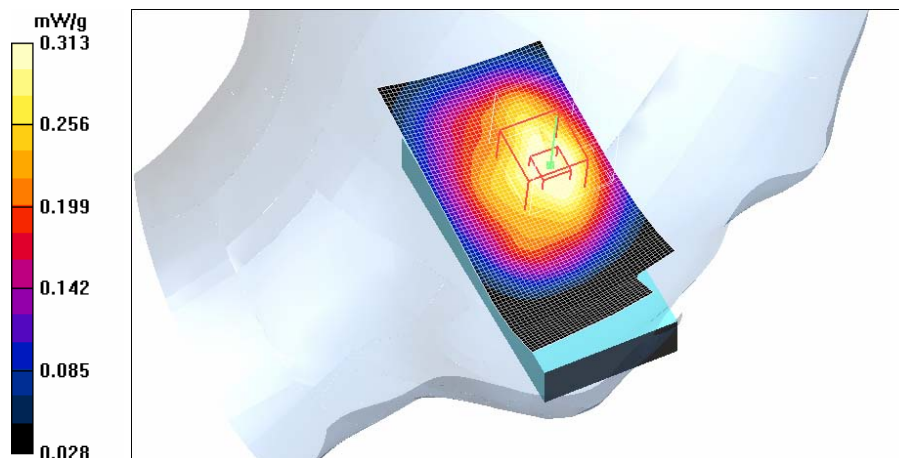
SAR(1 g) = 0.296 mW/g

SAR(10 g) = 0.212 mW/g

Power Drift = -0.397 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) = 0.313 mW/g



Date/Time: 2006-11-07 09:36:33

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: HSL850; Medium Notes: 20.2 C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.79, 6.79, 6.79); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Cheek position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.576 mW/g

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

Reference Value = 21.4 V/m

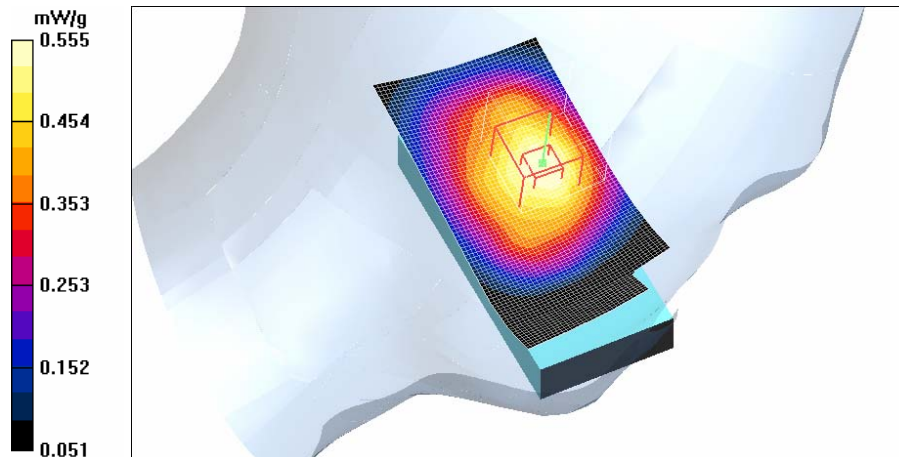
Peak SAR (extrapolated) = 0.722 W/kg

SAR(1 g) = 0.526 mW/g

SAR(10 g) = 0.379 mW/g

Power Drift = -0.011 dB

Maximum value of SAR (measured) = 0.555 mW/g



Date/Time: 2006-11-07 10:10:35

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 3-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.8

Medium: HSL850; Medium Notes: 20.2 C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.79, 6.79, 6.79); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.858 mW/g

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

Reference Value = 25.8 V/m

Peak SAR (extrapolated) = 1.04 W/kg

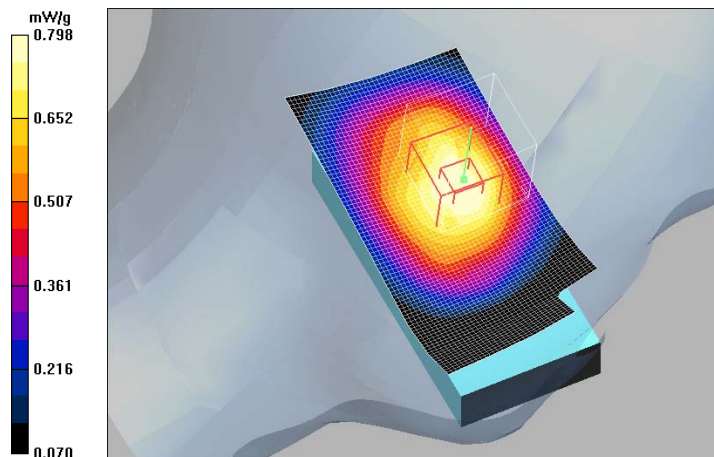
SAR(1 g) = 0.751 mW/g

SAR(10 g) = 0.534 mW/g

Power Drift = -0.280 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) = 0.798 mW/g



Date/Time: 2006-11-07 10:26:40

Test Laboratory: TCC Nokia
Type: RM-208; Serial: 004400941721308

Communication System: 3-slot GPRS850
Frequency: 836.6 MHz; Duty Cycle: 1:2.8
Medium: HSL850; Medium Notes: 20.2 C
Medium parameters used: $f = 837$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.79, 6.79, 6.79); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilt position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.556 mW/g

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

Reference Value = 24.8 V/m
Peak SAR (extrapolated) = 0.673 W/kg

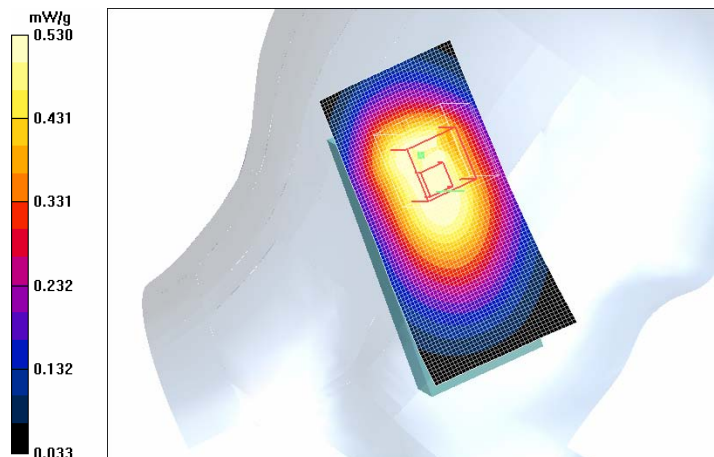
SAR(1 g) = 0.488 mW/g

SAR(10 g) = 0.349 mW/g

Power Drift = -0.175 dB

Warning: Maximum averaged SAR over 1 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) = 0.530 mW/g



Date/Time: 2006-11-07 11:52:01

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 3-slot GPRS850

Frequency: 824.2 MHz; Duty Cycle: 1:2.8

Medium: HSL850; Medium Notes: 20.2 C

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.881$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.79, 6.79, 6.79); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position, Low, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.919 mW/g

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

Reference Value = 28.6 V/m

Peak SAR (extrapolated) = 1.16 W/kg

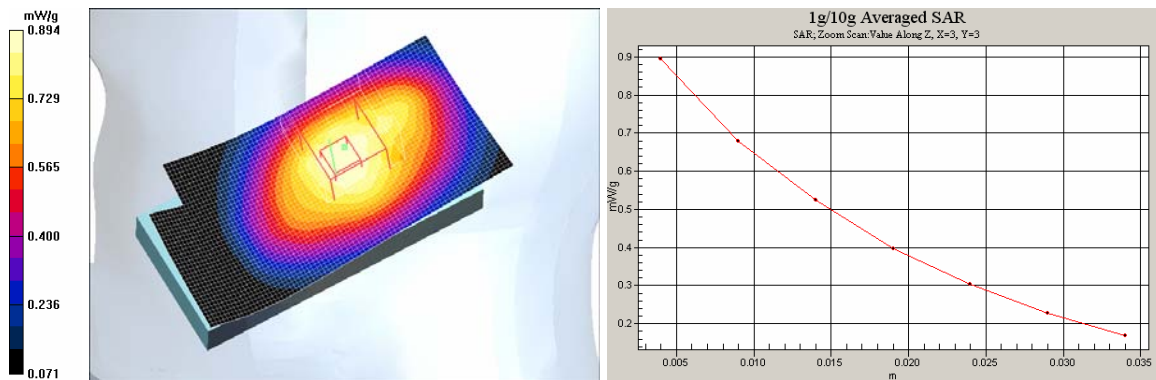
SAR(1 g) = 0.859 mW/g

SAR(10 g) = 0.618 mW/g

Power Drift = -0.217 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) = 0.894 mW/g



SAR Report

Salo_SAR_0644_11

Applicant: Nokia Corporation

Type: RM-208

Copyright © 2006 TCC Nokia

Date/Time: 2006-11-07 11:32:25

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 3-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.8

Medium: HSL850; Medium Notes: 20.2 C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.79, 6.79, 6.79); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilt position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.622 mW/g

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

Reference Value = 24.7 V/m

Peak SAR (extrapolated) = 0.884 W/kg

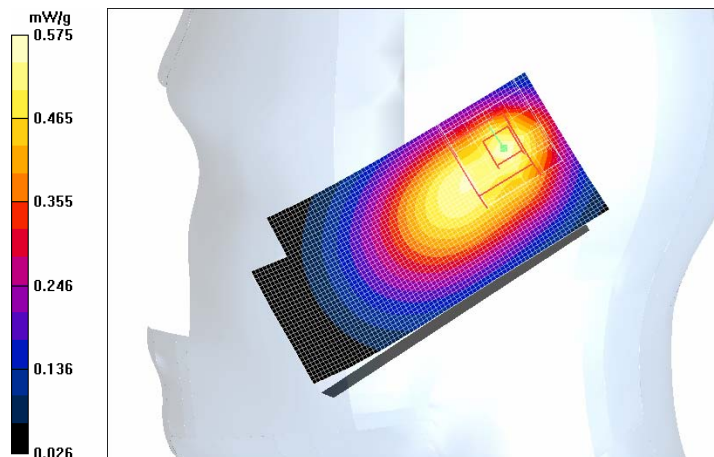
SAR(1 g) = 0.525 mW/g

SAR(10 g) = 0.349 mW/g

Power Drift = -0.160 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) = 0.575 mW/g



Date/Time: 2006-11-07 15:14:58

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 3-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.8

Medium: HSL850; Medium Notes: 20.2 C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.79, 6.79, 6.79); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position, Middle, open/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.319 mW/g

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

Reference Value = 11.0 V/m

Peak SAR (extrapolated) = 0.477 W/kg

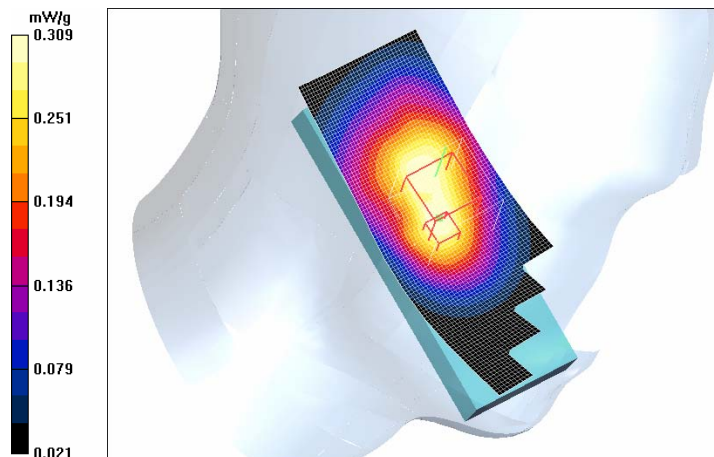
SAR(1 g) = 0.284 mW/g

SAR(10 g) = 0.201 mW/g

Power Drift = -0.102 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) = 0.309 mW/g



Date/Time: 2006-11-07 15:32:44

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 3-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.8

Medium: HSL850; Medium Notes: 20.2 C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.79, 6.79, 6.79); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilt position, Middle, open/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 10.7 V/m

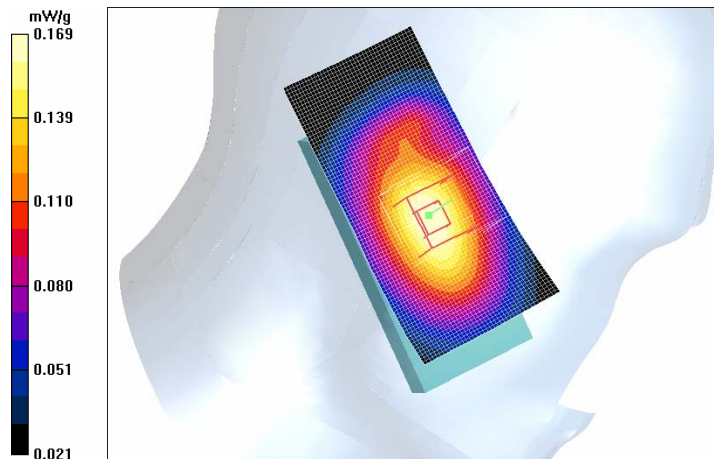
Peak SAR (extrapolated) = 0.212 W/kg

SAR(1 g) = 0.159 mW/g

SAR(10 g) = 0.112 mW/g

Power Drift = -0.334 dB

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



Date/Time: 2006-11-07 16:58:41

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 3-slot GPRS850

Frequency: 824.2 MHz; Duty Cycle: 1:2.8

Medium: HSL850; Medium Notes: 20.5 C

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.881$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.79, 6.79, 6.79); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position, Low, open/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.386 mW/g

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

Reference Value = 12.8 V/m

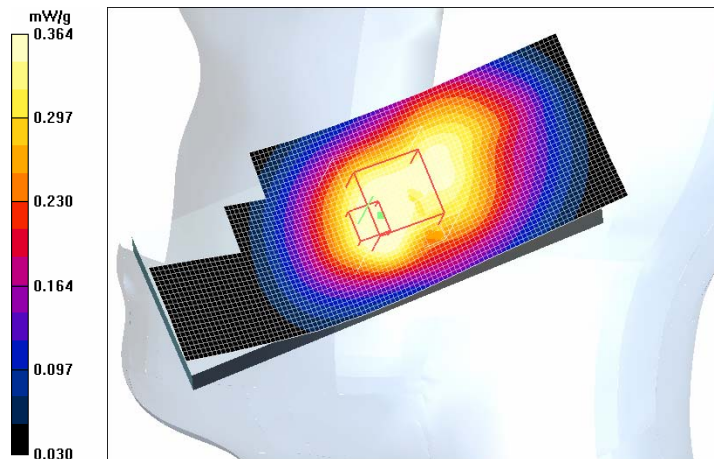
Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.336 mW/g

SAR(10 g) = 0.239 mW/g

Power Drift = -0.259 dB

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



Date/Time: 2006-11-07 16:16:54

Test Laboratory: TCC Nokia
Type: RM-208; Serial: 004400941721308

Communication System: 3-slot GPRS850
Frequency: 836.6 MHz; Duty Cycle: 1:2.8
Medium: HSL850; Medium Notes: 20.5 C
Medium parameters used: $f = 837$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.79, 6.79, 6.79); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilt position, Middle, open/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.141 mW/g

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

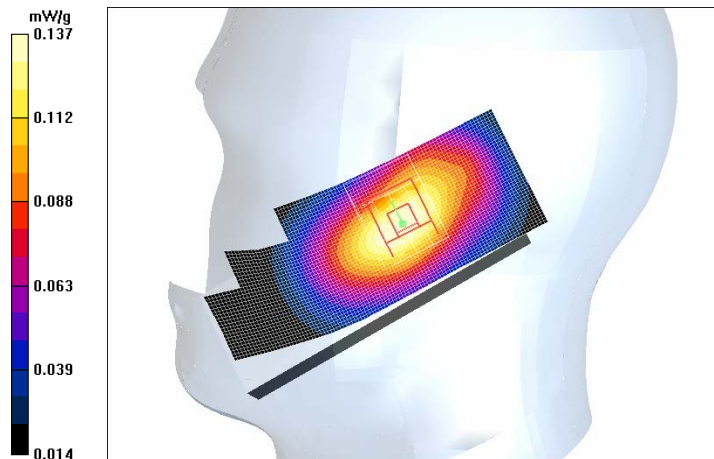
Reference Value = 9.65 V/m
Peak SAR (extrapolated) = 0.171 W/kg

SAR(1 g) = 0.129 mW/g

SAR(10 g) = 0.092 mW/g

Power Drift = -0.146 dB

Maximum value of SAR (measured) = 0.137 mW/g



Date/Time: 2006-11-07 10:48:51

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 3-slot EGPRS850

Frequency: 836 MHz; Duty Cycle: 1:2.8

Medium: HSL850; Medium Notes: 20.2 C

Medium parameters used: $f = 836 \text{ MHz}$; $\sigma = 0.888 \text{ mho/m}$; $\epsilon_r = 41.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.79, 6.79, 6.79); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position, Middle, closed/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.171 mW/g

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

Reference Value = 11.1 V/m

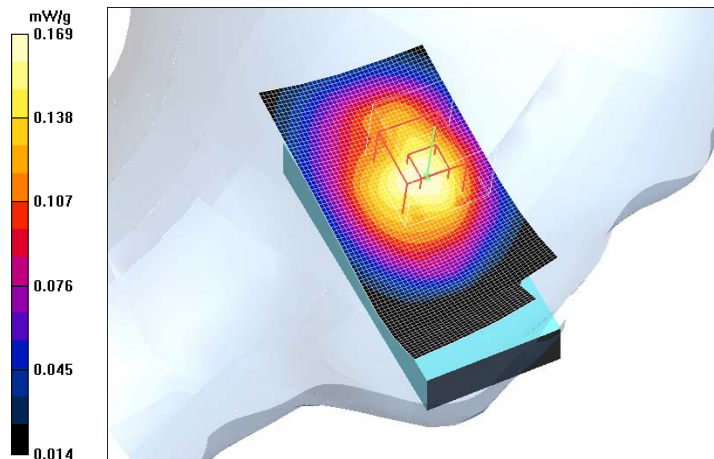
Peak SAR (extrapolated) = 0.305 W/kg

SAR(1 g) = 0.159 mW/g

SAR(10 g) = 0.109 mW/g

Power Drift = -0.107 dB

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



Date/Time: 2006-11-02 15:33:05

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium Notes: 20.2 C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Cheek position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.241 mW/g

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

Reference Value = 12.5 V/m

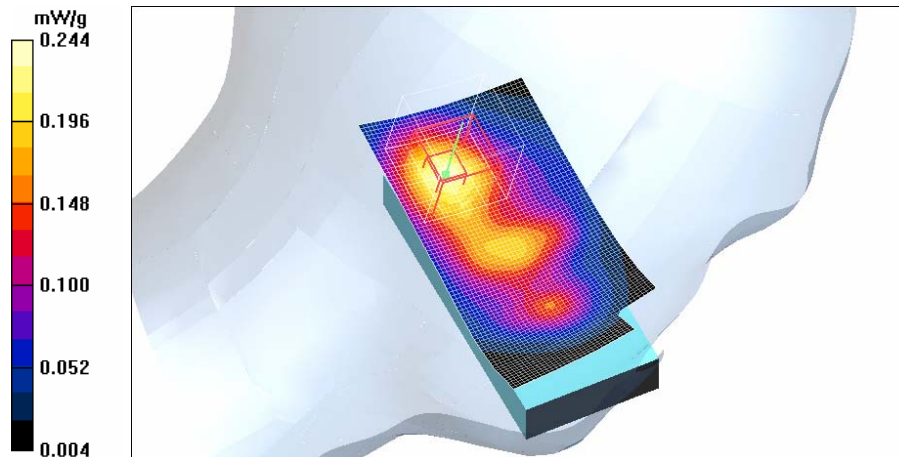
Peak SAR (extrapolated) = 0.330 W/kg

SAR(1 g) = 0.221 mW/g

SAR(10 g) = 0.131 mW/g

Power Drift = -0.048 dB

Maximum value of SAR (measured) = 0.244 mW/g



Date/Time: 2006-11-02 16:24:24

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: HSL1900; Medium Notes: 20.2 C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Cheek position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.450 mW/g

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

Reference Value = 17.6 V/m

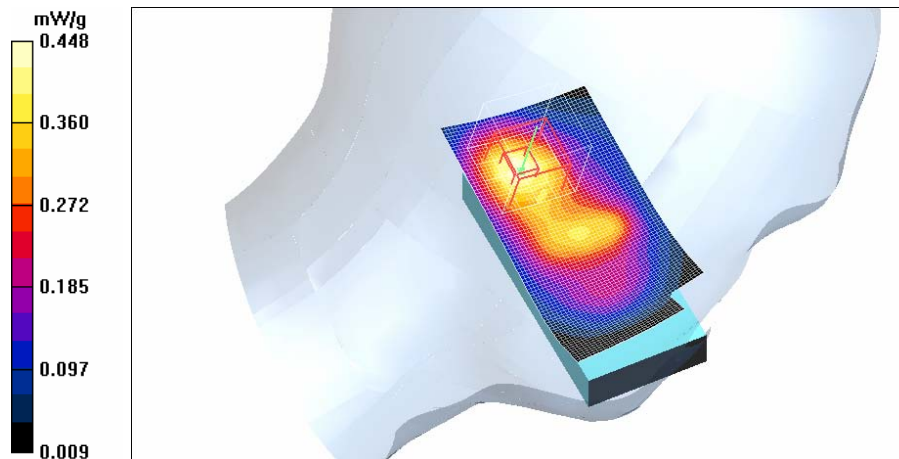
Peak SAR (extrapolated) = 0.607 W/kg

SAR(1 g) = 0.408 mW/g

SAR(10 g) = 0.246 mW/g

Power Drift = -0.309 dB

Maximum value of SAR (measured) = 0.448 mW/g



Date/Time: 2006-11-02 18:51:03

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: HSL1900; Medium Notes: 19.7C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Tilt position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.03 mW/g

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

Reference Value = 26.0 V/m

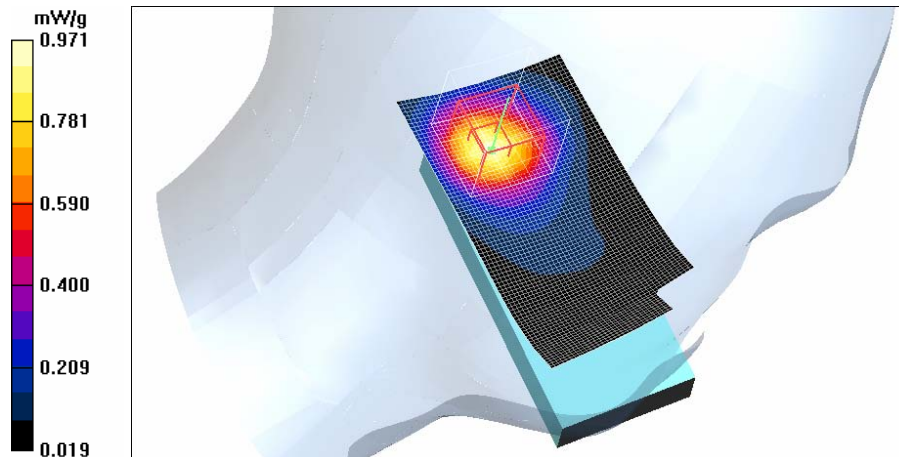
Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.875 mW/g

SAR(10 g) = 0.499 mW/g

Power Drift = -0.092 dB

Maximum value of SAR (measured) = 0.971 mW/g



Date/Time: 2006-11-02 19:31:06

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: HSL1900; Medium Notes: 19.7C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Cheek position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.768 mW/g

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

Reference Value = 20.0 V/m

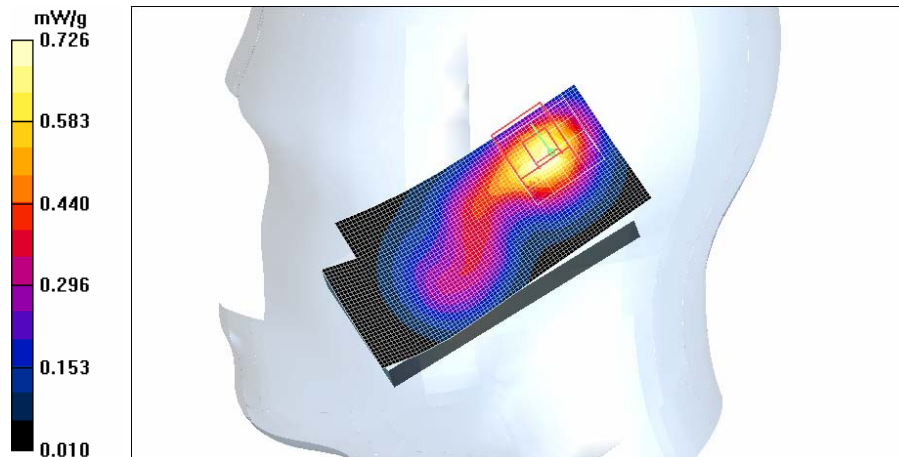
Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.658 mW/g

SAR(10 g) = 0.368 mW/g

Power Drift = -0.181 dB

Maximum value of SAR (measured) = 0.726 mW/g



Date/Time: 2006-11-02 19:56:46

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: HSL1900; Medium Notes: 19.8C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Tilt position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.17 mW/g

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

Reference Value = 28.0 V/m

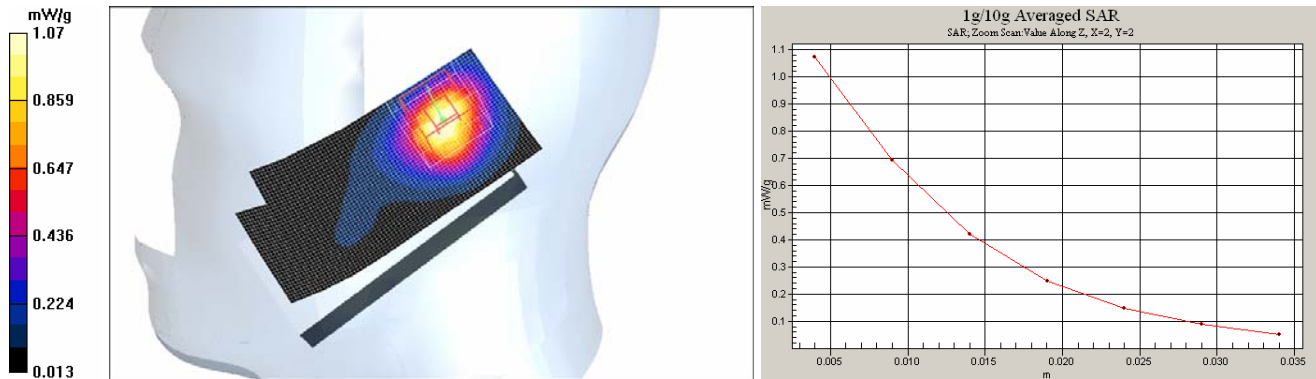
Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.969 mW/g

SAR(10 g) = 0.542 mW/g

Power Drift = -0.156 dB

Maximum value of SAR (measured) = 1.07 mW/g



Date/Time: 2006-11-03 10:59:33

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: HSL1900; Medium Notes: 20.0 C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Cheek position, Middle, open/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.255 mW/g

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

Reference Value = 10.7 V/m

Peak SAR (extrapolated) = 0.309 W/kg

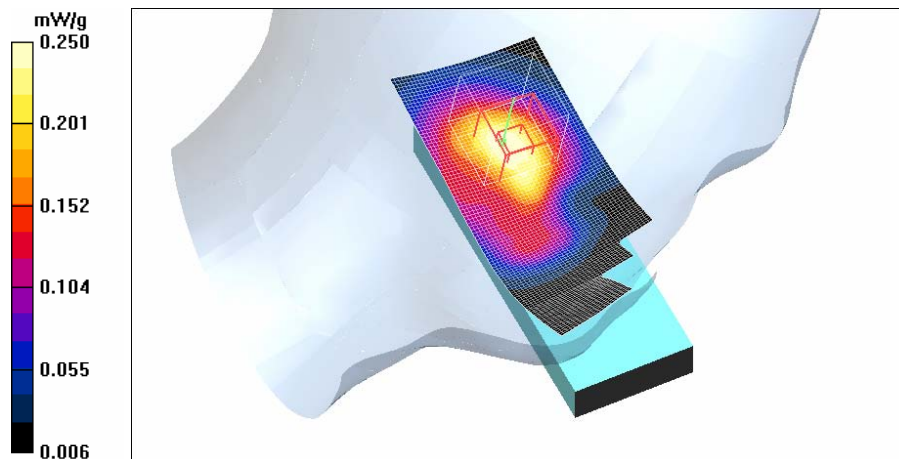
SAR(1 g) = 0.235 mW/g

SAR(10 g) = 0.151 mW/g

Power Drift = -0.149 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) = 0.250 mW/g



Date/Time: 2006-11-03 14:01:10

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot GPRS1900

Frequency: 1909.8 MHz; Duty Cycle: 1:4.2

Medium: HSL1900; Medium Notes: 20.0 C

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Tilt position, High, open/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 16.6 V/m

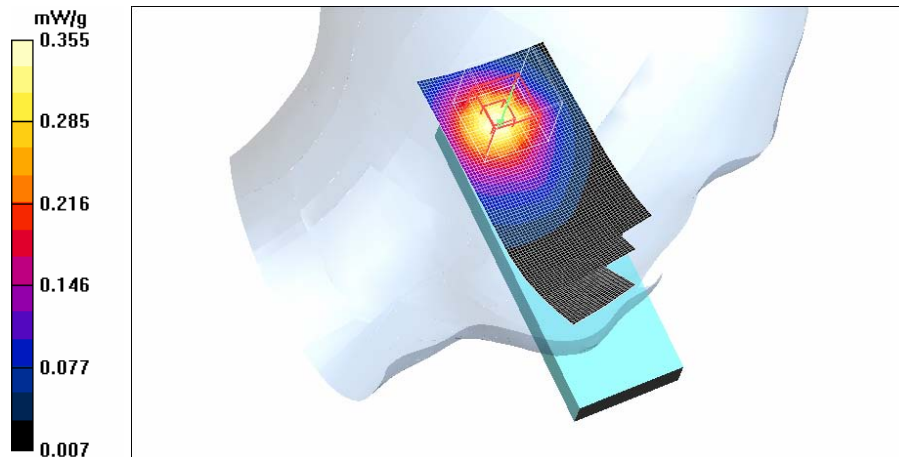
Peak SAR (extrapolated) = 0.511 W/kg

SAR(1 g) = 0.328 mW/g

SAR(10 g) = 0.192 mW/g

Power Drift = -0.214 dB

Maximum value of SAR (measured) = 0.355 mW/g



Date/Time: 2006-11-03 12:05:49

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: HSL1900; Medium Notes: 19.9 C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Cheek position, Middle, open/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 6.62 V/m

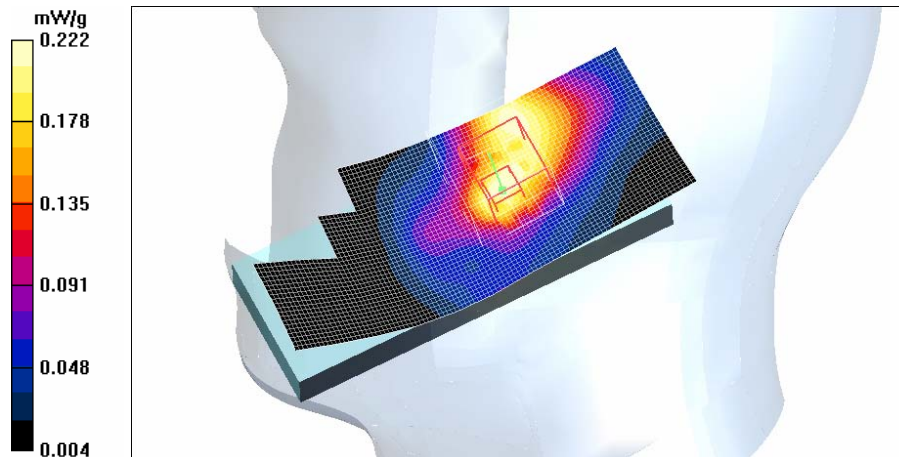
Peak SAR (extrapolated) = 0.293 W/kg

SAR(1 g) = 0.201 mW/g

SAR(10 g) = 0.123 mW/g

Power Drift = -0.069 dB

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



Date/Time: 2006-11-03 12:21:57

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: HSL1900; Medium Notes: 19.9 C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Tilt position, Middle, open/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.256 mW/g

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

Reference Value = 11.4 V/m

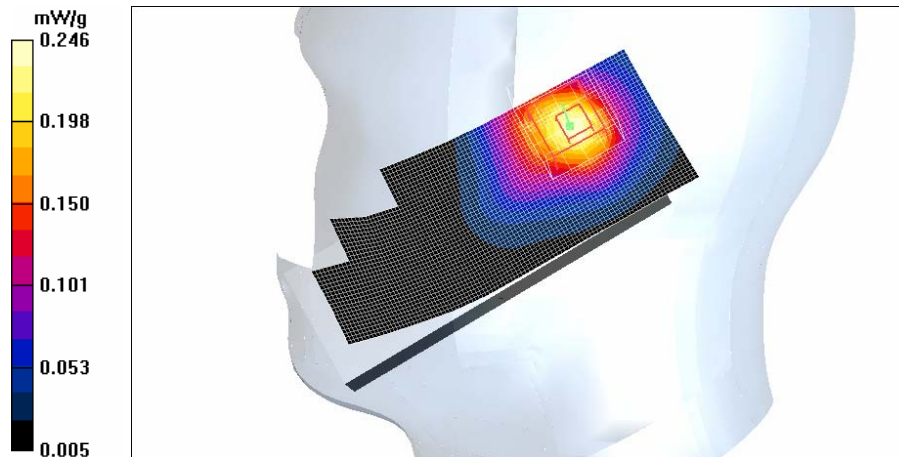
Peak SAR (extrapolated) = 0.372 W/kg

SAR(1 g) = 0.227 mW/g

SAR(10 g) = 0.132 mW/g

Power Drift = 0.004 dB

Maximum value of SAR (measured) = 0.246 mW/g



Date/Time: 2006-11-02 17:02:25

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 3-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:2.8

Medium: HSL1900; Medium Notes: 19.6 C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Cheek position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.402 mW/g

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

Reference Value = 16.4 V/m

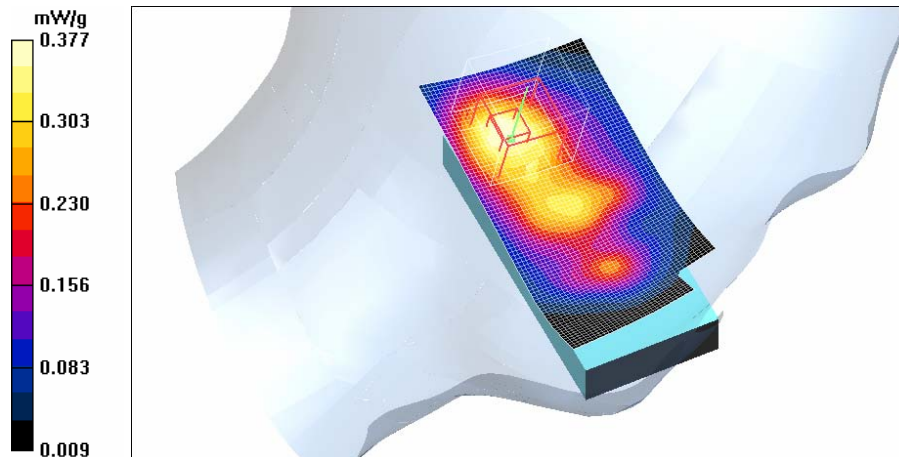
Peak SAR (extrapolated) = 0.526 W/kg

SAR(1 g) = 0.352 mW/g

SAR(10 g) = 0.215 mW/g

Power Drift = -0.444 dB

Maximum value of SAR (measured) = 0.377 mW/g



Date/Time: 2006-11-02 17:31:32

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot EGPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: HSL1900; Medium Notes: 19.6C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(5.37, 5.37, 5.37); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Cheek position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.174 mW/g

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

Reference Value = 11.3 V/m

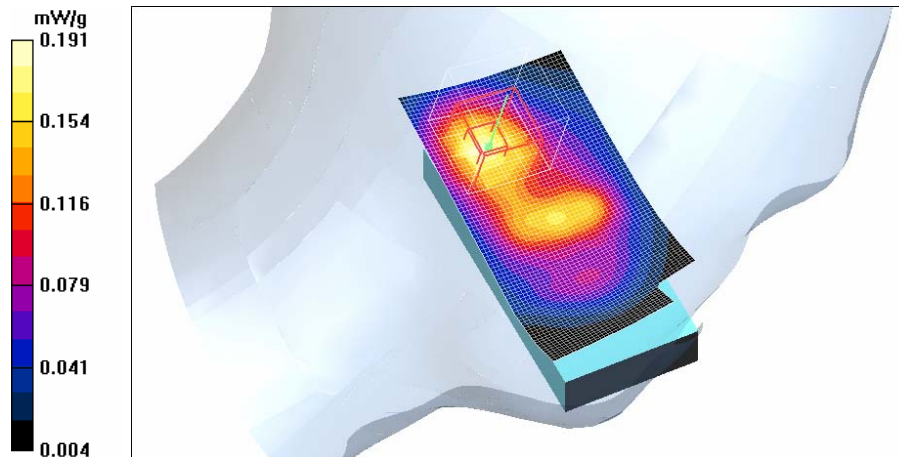
Peak SAR (extrapolated) = 0.250 W/kg

SAR(1 g) = 0.171 mW/g

SAR(10 g) = 0.101 mW/g

Power Drift = -0.210 dB

Maximum value of SAR (measured) = 0.191 mW/g



Date/Time: 2006-10-31 22:01:46

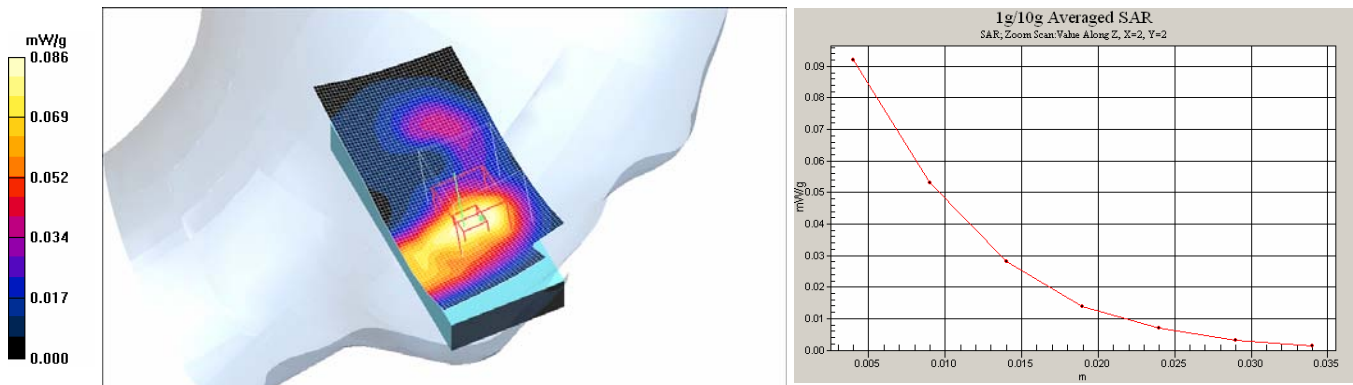
Test Laboratory: TCC Nokia
Type: RM-208; Serial: 004400941721308

Communication System: WLAN2450
Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 19.9 C
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position, High, closed/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.088 mW/g

Cheek position, High, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 3.59 V/m
Peak SAR (extrapolated) = 0.140 W/kg
SAR(1 g) = 0.081 mW/g
SAR(10 g) = 0.045 mW/g
Power Drift = -0.351 dB
Maximum value of SAR (measured) = 0.086 mW/g



Date/Time: 2006-10-31 17:23:53

Test Laboratory: TCC Nokia
Type: RM-208; Serial: 004400941721308

Communication System: WLAN2450
Frequency: 2442 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 20.4 C
Medium parameters used: $f = 2442$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilt position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.046 mW/g

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

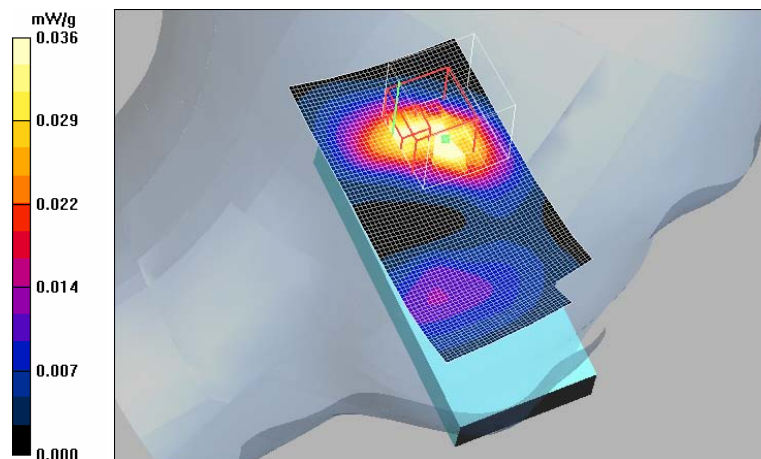
Reference Value = 4.53 V/m
Peak SAR (extrapolated) = 0.059 W/kg

SAR(1 g) = 0.032 mW/g

SAR(10 g) = 0.017 mW/g

Power Drift = 0.361 dB

Warning: Maximum averaged SAR over 1 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 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) = 0.036 mW/g



Date/Time: 2006-10-31 22:37:31

Test Laboratory: TCC Nokia
Type: RM-208; Serial: 004400941721308

Communication System: WLAN2450
Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 20.0C
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Cheek position, High, closed/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.098 mW/g

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

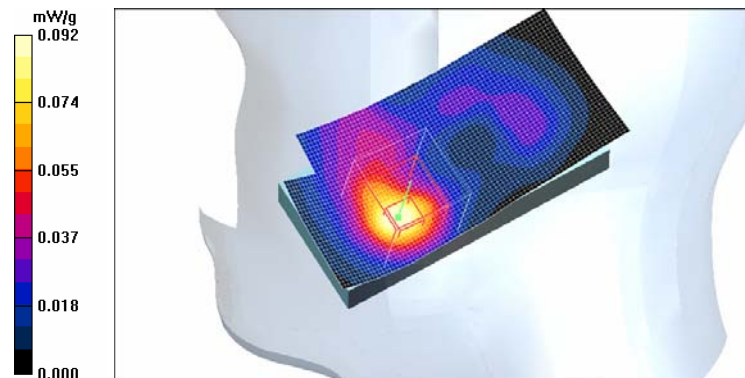
Reference Value = 3.64 V/m
Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.081 mW/g

SAR(10 g) = 0.039 mW/g

Power Drift = -0.171 dB

Maximum value of SAR (measured) = 0.092 mW/g



Date/Time: 2006-10-31 18:50:34

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.1C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Tilt position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.045 mW/g

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

Reference Value = 5.15 V/m

Peak SAR (extrapolated) = 0.077 W/kg

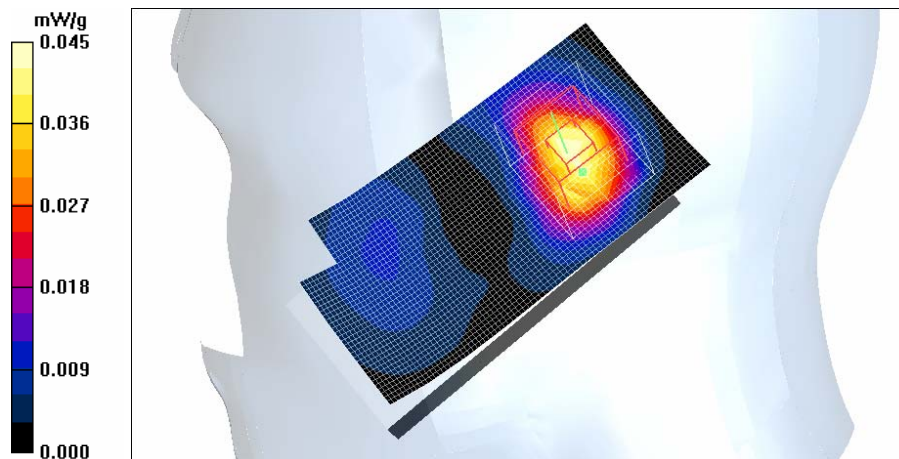
SAR(1 g) = 0.042 mW/g

SAR(10 g) = 0.021 mW/g

Power Drift = 0.238 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) = 0.045 mW/g



Date/Time: 2006-11-02 10:49:20

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: WLAN2450

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.3 C

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.9$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Cheek position, High, open/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.057 mW/g

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

Reference Value = 1.68 V/m

Peak SAR (extrapolated) = 0.094 W/kg

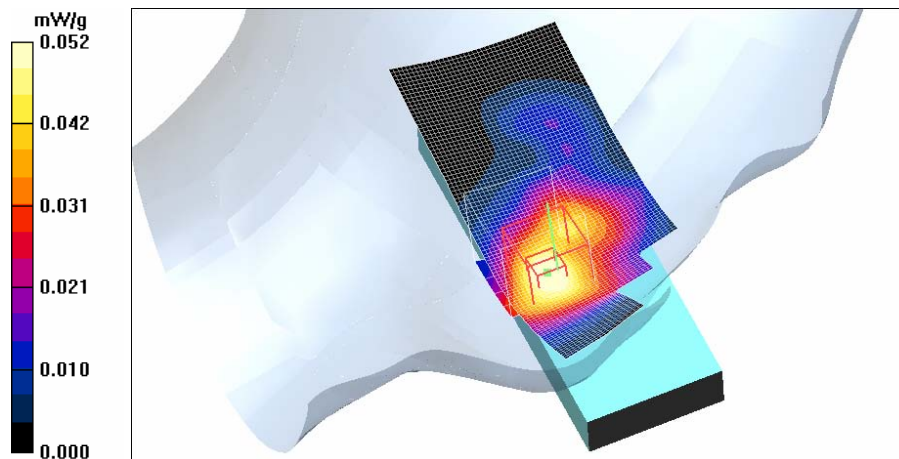
SAR(1 g) = 0.050 mW/g

SAR(10 g) = 0.027 mW/g

Power Drift = -0.466 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) = 0.052 mW/g



Date/Time: 2006-11-01 15:44:58

Test Laboratory: TCC Nokia
Type: RM-208; Serial: 004400941721308

Communication System: WLAN2450
Frequency: 2442 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 20.5 C
Medium parameters used: $f = 2442 \text{ MHz}$; $\sigma = 1.86 \text{ mho/m}$; $\epsilon_r = 40.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Tilt position, Middle, open/Area Scan (41x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.038 mW/g

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

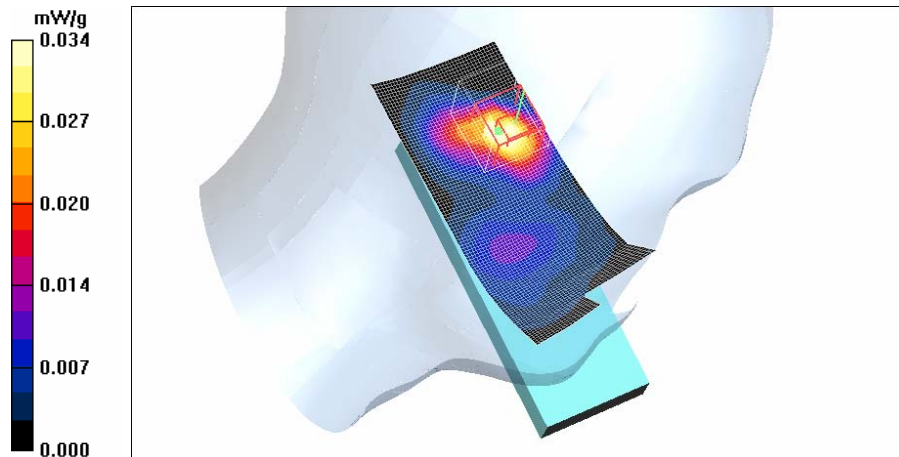
Reference Value = 3.79 V/m
Peak SAR (extrapolated) = 0.059 W/kg

SAR(1 g) = 0.032 mW/g

SAR(10 g) = 0.016 mW/g

Power Drift = -0.116 dB

Maximum value of SAR (measured) = 0.034 mW/g



Date/Time: 2006-11-01 17:40:20

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.5 C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Cheek position, Middle, open/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.036 mW/g

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

Reference Value = 1.52 V/m

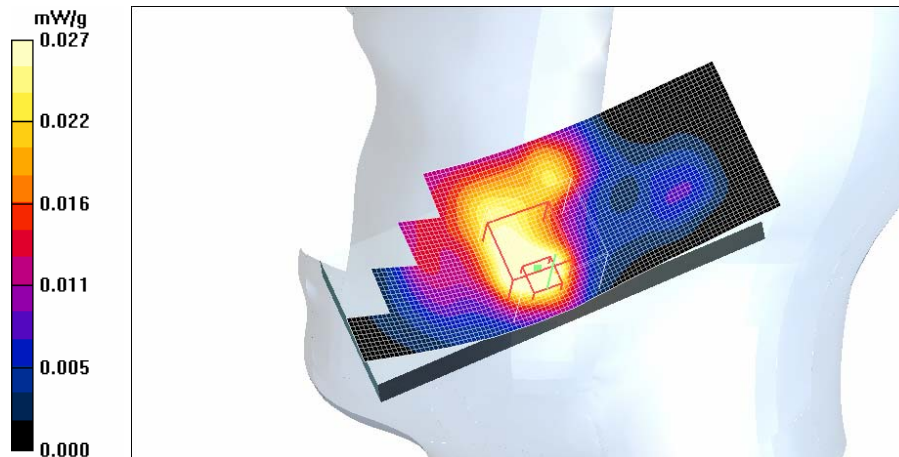
Peak SAR (extrapolated) = 0.040 W/kg

SAR(1 g) = 0.024 mW/g

SAR(10 g) = 0.014 mW/g

Power Drift = -0.328 dB

Maximum value of SAR (measured) = 0.027 mW/g



Date/Time: 2006-11-01 18:14:05

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.3 C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Tilt position, Middle, open/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.037 mW/g

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

Reference Value = 4.43 V/m

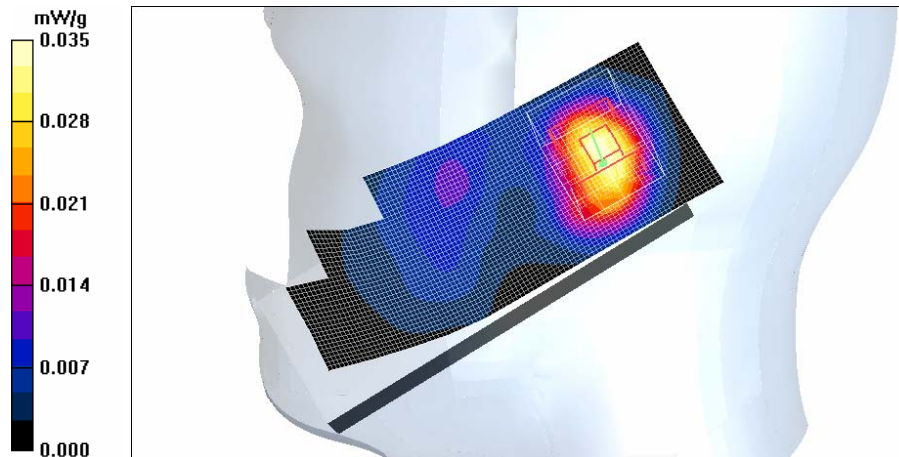
Peak SAR (extrapolated) = 0.061 W/kg

SAR(1 g) = 0.033 mW/g

SAR(10 g) = 0.017 mW/g

Power Drift = -0.057 dB

Maximum value of SAR (measured) = 0.035 mW/g



Date/Time: 2006-11-08 10:50:38

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 3-slot GPRS850

Frequency: 824.2 MHz; Duty Cycle: 1:2.8

Medium: M800; Medium Notes: 20.8 C

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 55.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.41, 6.41, 6.41); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Maximum value of SAR (interpolated) = 0.785 mW/g

Body Measurement, Low, Closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.1 V/m

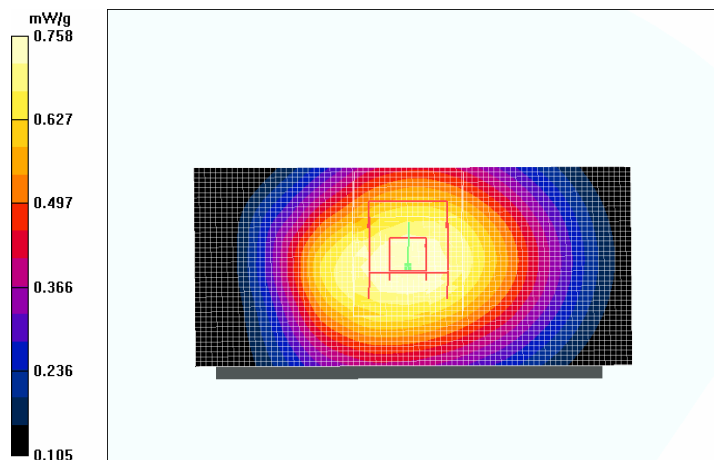
Peak SAR (extrapolated) = 0.922 W/kg

SAR(1 g) = 0.721 mW/g

SAR(10 g) = 0.533 mW/g

Power Drift = -0.169 dB

Maximum value of SAR (measured) = 0.758 mW/g



Date/Time: 2006-11-08 10:36:01

Test Laboratory: TCC Nokia
Type: RM-208; Serial: 004400941721308

Communication System: 3-slot GPRS850
Frequency: 824.2 MHz; Duty Cycle: 1:2.8
Medium: M800; Medium Notes: 20.8 C
Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 55.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.41, 6.41, 6.41); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Measurement, Low, Closed, HS-23/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.575 mW/g

Body Measurement, Low, Closed, HS-23/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.9 V/m
Peak SAR (extrapolated) = 0.669 W/kg

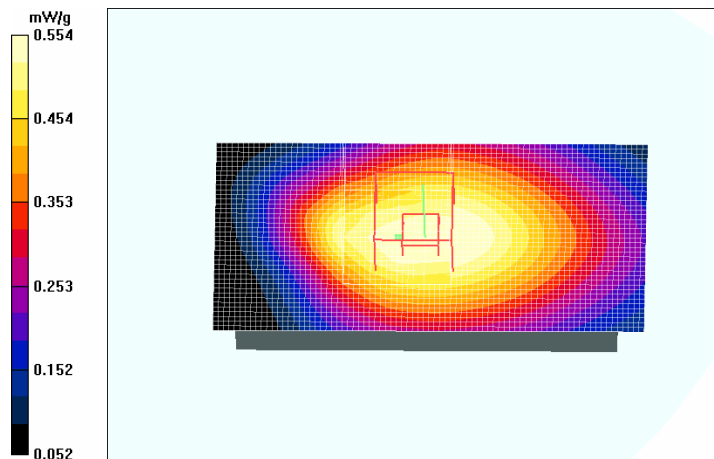
SAR(1 g) = 0.523 mW/g

SAR(10 g) = 0.384 mW/g

Power Drift = -0.219 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) = 0.554 mW/g



Date/Time: 2006-11-08 12:26:53

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 3-slot GPRS850

Frequency: 824.2 MHz; Duty Cycle: 1:2.8

Medium: M800; Medium Notes: 20.5 C

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 55.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(6.41, 6.41, 6.41); Calibrated: 24.01.2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 16.02.2006
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Maximum value of SAR (interpolated) = 0.810 mW/g

Body Measurement, Low, Closed, BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.8 V/m

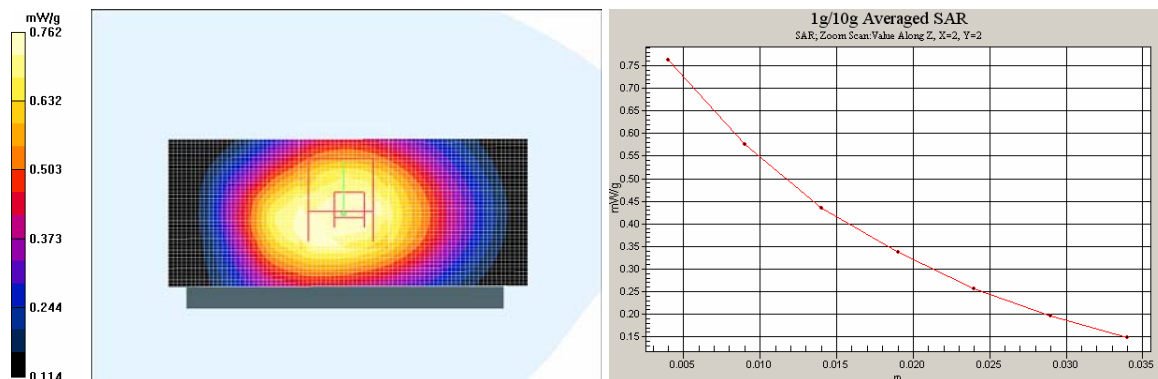
Peak SAR (extrapolated) = 0.926 W/kg

SAR(1 g) = 0.721 mW/g

SAR(10 g) = 0.534 mW/g

Power Drift = -0.338 dB

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



SAR Report

Salo_SAR_0644_11

Applicant: Nokia Corporation

Type: RM-208

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Date/Time: 2006-11-03 16:39:47

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot GPRS1900

Frequency: 1909.8 MHz; Duty Cycle: 1:4.2

Medium: M1900; Medium Notes: 21.1C

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

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

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

Body Measurement, High, Closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.8 V/m

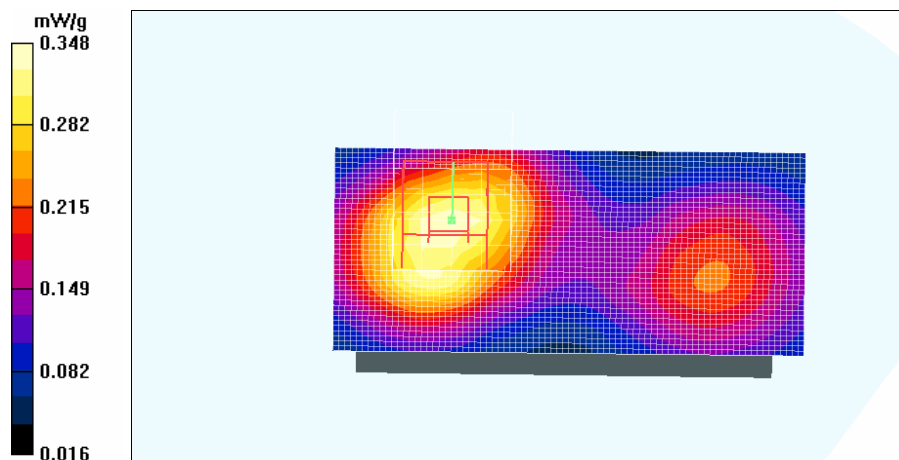
Peak SAR (extrapolated) = 0.479 W/kg

SAR(1 g) = 0.322 mW/g

SAR(10 g) = 0.208 mW/g

Power Drift = -0.111 dB

Maximum value of SAR (measured) = 0.348 mW/g



Date/Time: 2006-11-03 16:54:27

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot GPRS1900

Frequency: 1909.8 MHz; Duty Cycle: 1:4.2

Medium: M1900; Medium Notes: 21.1C

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Body Measurement, High, Closed, HS-23/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.319 mW/g

Body Measurement, High, Closed, HS-23/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.2 V/m

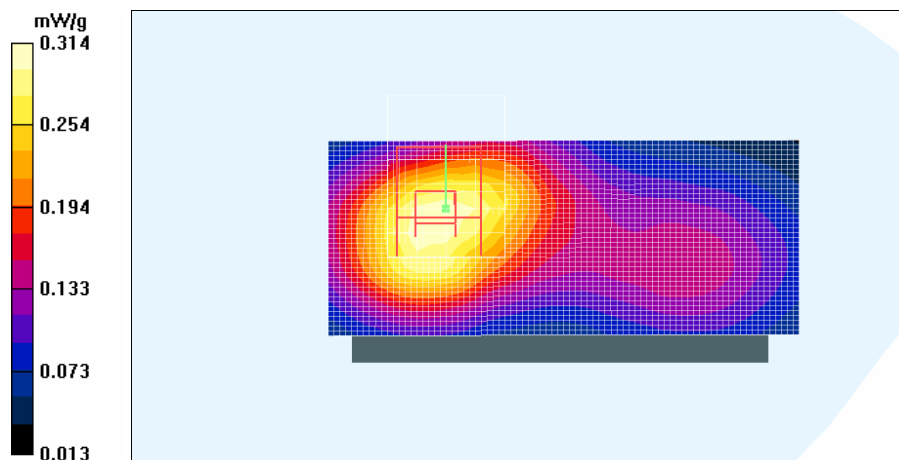
Peak SAR (extrapolated) = 0.440 W/kg

SAR(1 g) = 0.295 mW/g

SAR(10 g) = 0.191 mW/g

Power Drift = -0.093 dB

Maximum value of SAR (measured) = 0.314 mW/g



Date/Time: 2006-11-03 17:13:01

Test Laboratory: TCC Nokia

Type: RM-208; Serial: 004400941721308

Communication System: 2-slot GPRS1900

Frequency: 1909.8 MHz; Duty Cycle: 1:4.2

Medium: M1900; Medium Notes: 21.1C

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.58, 4.58, 4.58); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

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

Maximum value of SAR (interpolated) = 0.362 mW/g

Body Measurement, High, Closed, BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.6 V/m

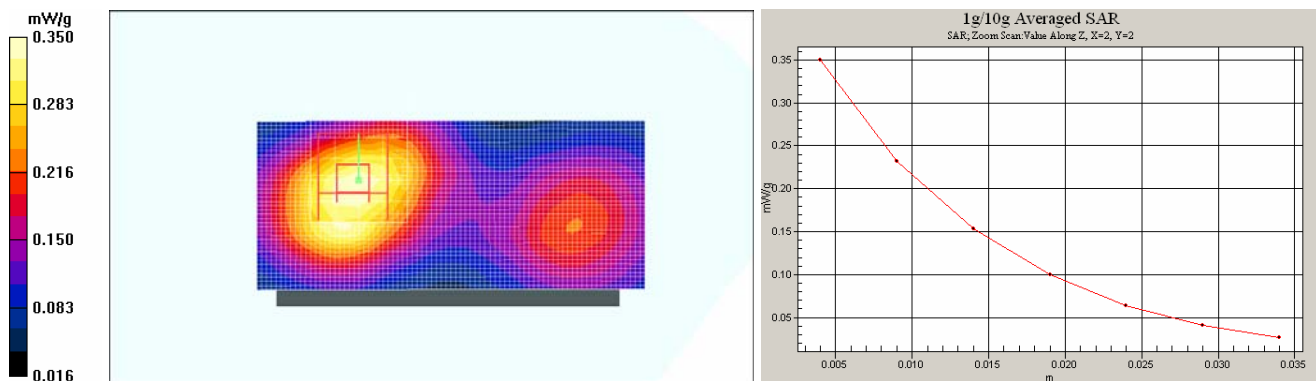
Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.327 mW/g

SAR(10 g) = 0.210 mW/g

Power Drift = -0.088 dB

Maximum value of SAR (measured) = 0.350 mW/g



Date/Time: 2006-11-01 12:11:43

Test Laboratory: TCC Nokia
Type: RM-208; Serial: 004400941721308

Communication System: WLAN2450
Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: M2450; Medium Notes: 20.3 C
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.22, 4.22, 4.22); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Body Measurement, High, Closed/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.046 mW/g

Body Measurement, High, Closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

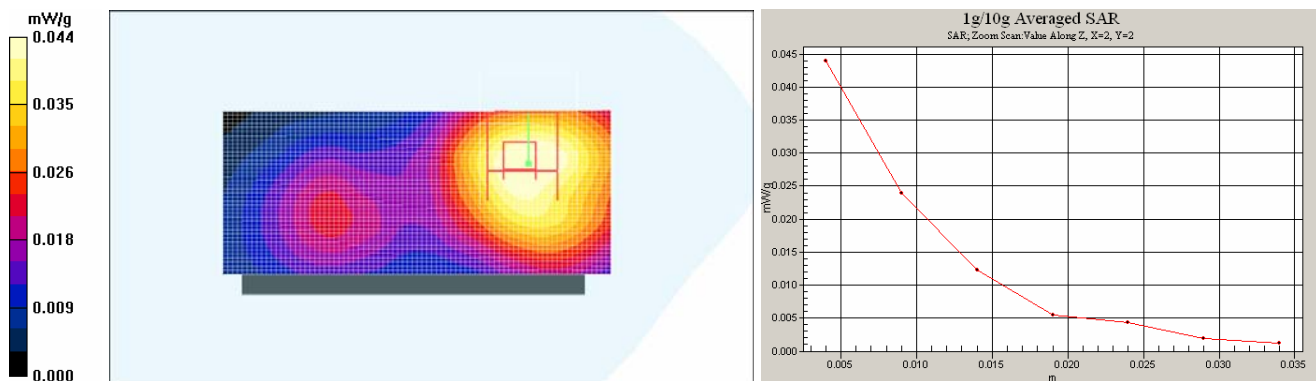
Reference Value = 3.05 V/m
Peak SAR (extrapolated) = 0.082 W/kg

SAR(1 g) = 0.042 mW/g

SAR(10 g) = 0.024 mW/g

Power Drift = -0.036 dB

Maximum value of SAR (measured) = 0.044 mW/g



Date/Time: 2006-11-01 11:52:21

Test Laboratory: TCC Nokia
Type: RM-208; Serial: 004400941721308

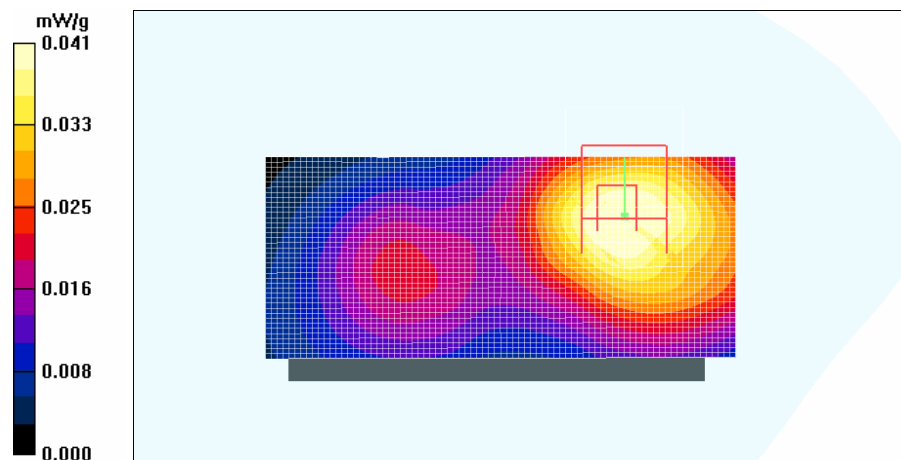
Communication System: WLAN2450
Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: M2450; Medium Notes: 20.3 C
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396; Probe Notes: Advanced extrapolation
- ConvF(4.22, 4.22, 4.22); Calibrated: 2006-01-24
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2006-02-16
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 161

Body Measurement, High, Closed, HS-23/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.044 mW/g

Body Measurement, High, Closed, HS-23/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.87 V/m
Peak SAR (extrapolated) = 0.079 W/kg
SAR(1 g) = 0.039 mW/g
SAR(10 g) = 0.022 mW/g
Power Drift = 0.013 dB
Maximum value of SAR (measured) = 0.041 mW/g



APPENDIX C: RELEVANT PAGES FROM PROBE CALIBRATION REPORT(S)

Probe ET3DV6, SN: 1396
See the next three pages.

APPENDIX D: RELEVANT PAGES FROM DIPOLE VALIDATION KIT REPORT(S)

Dipoles:

- D835V2, SN: 462
- D1900V2, SN: 5d013
- D2450V2, SN: 729

See the next nine pages.