

SAR Compliance Test Report

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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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CONTENTS

1. SUMMARY OF SAR TEST REPORT.....	3
1.1 TEST DETAILS.....	3
1.2 MAXIMUM RESULTS.....	3
1.2.1 Head Configuration.....	3
1.2.2 Body Worn Configuration	4
1.2.3 Maximum Drift	4
1.2.4 Measurement Uncertainty	4
2. DESCRIPTION OF THE DEVICE UNDER TEST	5
2.1 DESCRIPTION OF THE ANTENNA	5
3. TEST CONDITIONS	6
3.1 TEMPERATURE AND HUMIDITY	6
3.2 TEST SIGNAL, FREQUENCIES AND OUTPUT POWER	6
4. DESCRIPTION OF THE TEST EQUIPMENT	7
4.1 MEASUREMENT SYSTEM AND COMPONENTS	7
4.1.1 Isotropic E-field Probe Type ES3DV3	8
4.2 PHANTOMS	8
4.3 TISSUE SIMULANTS	8
4.3.1 Tissue Simulant Recipes	9
4.3.2 System Checking	9
4.3.3 Tissue Simulants used in the Measurements.....	11
5. DESCRIPTION OF THE TEST PROCEDURE	12
5.1 DEVICE HOLDER.....	12
5.2 TEST POSITIONS.....	12
5.2.1 Against Phantom Head.....	12
5.2.2 Body Worn Configuration	12
5.3 SCAN PROCEDURES.....	13
5.4 SAR AVERAGING METHODS.....	13
6. MEASUREMENT UNCERTAINTY	14
7. RESULTS	15
APPENDIX A: SYSTEM CHECKING SCANS.....	23
APPENDIX B: MEASUREMENT SCANS.....	30
APPENDIX C: CONDUCTED AVERAGE POWER MEASUREMENTS FOR WCDMA AND HSUPA	91
APPENDIX D: RELEVANT PAGES FROM PROBE CALIBRATION REPORT(S).....	92
APPENDIX E: RELEVANT PAGES FROM DIPOLE VALIDATION KIT REPORT(S)	93

1. SUMMARY OF SAR TEST REPORT

1.1 Test Details

Period of test	2008-10-22 to 2008-10-30
SN, HW and SW numbers of tested device	SN: 004401/10/209994/8, HW: 0342, SW: su08w11_08w41, DUT: 13242
Batteries used in testing	BL-5F, DUT: 13244, 13245, 13246
Headsets used in testing	HS-47, DUT: 13055
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)	Conducted power	Position	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
2-slot GPRS850	190 / 836.6	29.5 dBm	Left, Cheek	0.520 W/kg	0.58 W/kg	1.6 W/kg	PASSED
GSM1900	810 / 1909.8	29.5 dBm	Right, Cheek	0.702 W/kg	0.79 W/kg	1.6 W/kg	PASSED
WCDMA1900	9538 / 1907.6	22.5 dBm	Right, Cheek	1.06 W/kg	1.19 W/kg	1.6 W/kg	PASSED
WLAN2450	7 / 2442.0	18.0 dBm	Right, Cheek	0.134 W/kg	0.15 W/kg	1.6 W/kg	PASSED
2-slot GPRS850 + WLAN2450	-	-	Left, Cheek	0.576 W/kg	0.65 W/kg	1.6 W/kg	PASSED
GSM1900 + WLAN2450	-	-	Right, Cheek	0.765 W/kg	0.86 W/kg	1.6 W/kg	PASSED
WCDMA1900 + WLAN2450	-	-	Right, Cheek	1.123 W/kg	1.26 W/kg	1.6 W/kg	PASSED

1.2.2 Body Worn Configuration

Mode	Ch / f (MHz)	Conducted power	Separation distance	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
2-slot GPRS850	251 / 848.8	29.5 dBm	0.95cm	0.652 W/kg	0.73 W/kg	1.6 W/kg	PASSED
GSM1900	810 / 1909.8	29.5 dBm	0.95cm	0.545 W/kg	0.61 W/kg	1.6 W/kg	PASSED
WCDMA1900	9538 / 1907.6	22.5 dBm	0.95cm	0.823 W/kg	0.92 W/kg	1.6 W/kg	PASSED
WLAN2450	1 / 2412.0	18.0 dBm	0.95cm	0.056 W/kg	0.06 W/kg	1.6 W/kg	PASSED
2-slot GPRS850 + WLAN2450	-	-	0.95cm	0.708 W/kg	0.79 W/kg	1.6 W/kg	PASSED
GSM1900 + WLAN2450	-	-	0.95cm	0.601 W/kg	0.67 W/kg	1.6 W/kg	PASSED
WCDMA1900 + WLAN2450	-	-	0.95cm	0.867 W/kg	0.97 W/kg	1.6 W/kg	PASSED

*SAR values are scaled up by 12% to cover measurement drift. As a consequence of this upwards correction of the SAR values, the contribution of measurement drift to the overall measurement uncertainty (Section 6) is reduced to zero.

1.2.3 Maximum Drift

Maximum drift covered by 12% scaling up of the SAR values	Maximum drift during measurements
0.5dB	0.49dB

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 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 3/8	824 – 849 1850 – 1910
EGPRS	850 1900	GMSK / 8PSK	1/8 to 3/8	824 – 849 1850 – 1910
WCDMA	1900 (Band II)		1	1852 – 1908
BT	2450	GFSK	1	2402 – 2480
WLAN	2450	11Mbps QPSK	1	2412 – 2462

Outside of USA and Canada, the transmitter of the device is capable of operating also in GSM/GPRS/EGPRS900, GSM/GPRS/EGPRS1800, WCDMA900 and WCDMA2100 bands which are not part of this filing.

This device has 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. Dual Transfer Mode is a feature that utilises the multi-slot GPRS capability in this device; it allows simultaneous transmission of voice and data during the same call, using the same transmitter and antenna.

This is a WCDMA HSUPA device. SAR tests for HSUPA mode have not been performed because none of the HSUPA Sub-test modes has an average power > 0.25dB above the basic WCDMA 12.2kbps RMC mode. A report detailing the conducted HSUPA average power values is submitted separately.

2.1 Description of the Antenna

The device has internal antennas. The main cellular antenna is co-located with the WLAN/BT antenna in a single module located at the bottom of the device underneath the back surface.

3. TEST CONDITIONS

3.1 Temperature and Humidity

Ambient temperature (°C):	19.8 to 22.2
Ambient humidity (RH %):	37 to 51

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.

The transmission mode of the device in all WCDMA tests was configured to 12.2kbps RMC with all TPC bits set as “1”.

When testing GSM/GPRS/EGPRS modes, comparative 1-slot, 2-slot and 3-slot SAR measurements are initially made for the same test configuration and the same frequency to determine which mode has the highest SAR value i.e. the highest average power. These comparative tests are extremely accurate in finding the highest average power mode as the device does not change its position or frequency during these tests. Once the highest average power/highest SAR mode has been determined, full SAR testing then takes place in the identified mode. When inspecting the conducted power levels given in the Results tables (Section 7) to identify the maximum SAR case, allowance must be made for the number of transmit slots. Head SAR checking in 8PSK EGPRS mode was subsequently performed in the maximum SAR test configuration for GSM/GPRS.

In all operating bands, basic testing of all the operating modes was performed for all specified test positions with the keypad slide both open and closed. The highest SAR value obtained for these basic tests is bolded in the results tables in Section 7. Subsequent SAR checking tests in the maximum SAR test configuration for each band were performed to test whether the position of the all-plastic camera cover slide or the state of the Bluetooth transmitter had any impact on the results; whenever increased SAR values were found, these are additionally bolded in the results tables. These checking tests were voluntarily carried out. In all 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. The results are given in the EMC report supporting this application.

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	793	12 months	2009-04
DAE 4	728	12 months	2009-04
E-field Probe ES3DV3	3165	12 months	2009-04
E-field Probe ES3DV3	3131	12 months	2009-04
Dipole Validation Kit, D835V2	480	24 months	2009-05
Dipole Validation Kit, D1900V2	5d030	24 months	2010-01
Dipole Validation Kit, D2450V2	729	24 months	2010-01
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	2009-07
Amplifier	ZHL-42 (SMA)	N072095-5	12 months	2009-07
Power Meter	NRVS	849305/028	12 months	2009-07
Power Sensor	NRV-Z32	839176/020	12 months	2009-07
Call Tester	CMU 200	101111	-	-
Call Tester	CMU 200	103293	-	-
Call Tester	CMU 200	100084	-	-
Vector Network Analyzer	8753E	US38432928	12 months	2009-07
Dielectric Probe Kit	85070B	US33020420	-	-

4.1.1 Isotropic E-field Probe Type ES3DV3

Construction	Symmetrical design with triangular core Interleaved sensors 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 4 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 4 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.3 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: 20 mm Body diameter: 12 mm Tip diameter: 3.9 mm Distance from probe tip to dipole centers: 2.0 mm
Application	General dosimetry up to 4 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	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	70.20
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	2.29	41.6	0.90	
	$\pm 10\%$ window	2.06 – 2.52			
	2008-10-28	2.36	41.7	0.91	21.0
1900	Reference result	10.2	38.5	1.46	
	$\pm 10\%$ window	9.2 – 11.2			
	2008-10-22	10.6	39.5	1.43	21.0
	2008-10-23	10.4	39.3	1.40	21.0
	2008-10-24	10.6	39.7	1.41	21.0
2450	Reference result	14.3	37.8	1.82	
	$\pm 10\%$ window	12.9 – 15.7			
	2008-10-29	14.1	38.3	1.84	21.0

System checking, body tissue simulant

f [MHz]	Description	SAR [W/kg], 1g	Dielectric Parameters		Temp [°C]
			ϵ_r	σ [S/m]	
1900	Reference result	9.62	53.1	1.54	
	$\pm 10\%$ window	8.66 – 10.58			
	2008-10-27	9.14	52.4	1.51	21.0
2450	Reference result	13.8	52.5	1.99	
	$\pm 10\%$ window	12.4 – 15.2			
	2008-10-30	13.8	51.0	2.00	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	
	2008-10-28	41.7	0.91	21.0
1880	Recommended value	40.0	1.40	
	$\pm 5\%$ window	38.0 – 42.0	1.33 – 1.47	
	2008-10-22	39.5	1.40	21.0
	2008-10-23	39.3	1.39	21.0
	2008-10-24	39.8	1.40	21.0
2442	Recommended value	39.2	1.79	
	$\pm 5\%$ window	37.3 – 41.2	1.70 – 1.88	
	2008-10-29	38.3	1.83	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	
	2008-10-28	53.8	0.99	21.0
1880	Recommended value	53.3	1.52	
	$\pm 5\%$ window	50.6 – 56.0	1.44 – 1.60	
	2008-10-27	52.5	1.49	21.0
2442	Recommended value	52.7	1.94	
	$\pm 5\%$ window	50.1 – 55.3	1.85 – 2.04	
	2008-10-30	51.0	1.99	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 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

Options 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	Conducted Power		-	32.5 dBm	-
Slide closed Camera slide closed	Left	Cheek	-	0.352	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
2-slot GPRS	Conducted Power		-	29.5 dBm	-
Slide closed Camera slide closed	Left	Cheek	-	0.397	-
		Tilt	-	0.178	-
	Right	Cheek	-	0.390	-
		Tilt	-	0.203	-
2-slot GPRS	Conducted Power		29.5 dBm	29.5 dBm	29.5 dBm
Slide open Camera slide closed	Left	Cheek	0.455	0.520	0.487
		Tilt	-	0.276	-
	Right	Cheek	-	0.513	-
		Tilt	-	0.306	-
3-slot GPRS	Conducted Power		-	27.7 dBm	-
Slide closed Camera slide closed	Left	Cheek	-	0.387	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
2-slot 8PSK EGPRS	Conducted Power		-	24.7 dBm	-
Slide open Camera slide closed	Left	Cheek	-	0.182	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
2-slot GPRS Slide open Camera slide open	Left Cheek		-	0.497	-
2-slot GPRS Slide open Camera slide closed	Left Cheek, BT active		-	0.493	-

1900MHz Head SAR results

Options 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	Conducted Power		-	29.5 dBm	-
Slide closed Camera slide closed	Left	Cheek	-	0.632	-
		Tilt	-	0.298	-
	Right	Cheek	-	0.577	-
		Tilt	-	0.394	-
GSM	Conducted Power		29.5 dBm	29.5 dBm	29.5 dBm
Slide open Camera slide closed	Left	Cheek	-	0.560	-
		Tilt	-	0.317	-
	Right	Cheek	0.618	0.696	0.702
		Tilt	-	0.344	-
2-slot GPRS	Conducted Power		-	26.5 dBm	-
Slide closed Camera slide closed	Left	Cheek	-	0.605	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
3-slot GPRS	Conducted Power		-	24.7 dBm	-
Slide closed Camera slide closed	Left	Cheek	-	0.607	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
1-slot 8PSK EGPRS	Conducted Power		-	-	25.5 dBm
Slide open Camera slide closed	Left	Cheek	-	-	-
		Tilt	-	-	-
	Right	Cheek	-	-	0.149
		Tilt	-	-	-

(1900MHz Table continues)

(1900MHz Table continues)

Options used	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz
WCDMA	Conducted Power		22.5 dBm	22.5 dBm	22.5 dBm
Slide closed Camera slide closed	Left	Cheek	0.937	0.936	0.892
		Tilt	-	0.386	-
	Right	Cheek	0.860	0.837	0.903
		Tilt	-	0.529	-
WCDMA	Conducted Power		22.5 dBm	22.5 dBm	22.5 dBm
Slide open Camera slide closed	Left	Cheek	-	0.751	-
		Tilt	-	0.425	-
	Right	Cheek	1.03	0.874	1.06
		Tilt	-	0.460	-
WCDMA Slide open Camera slide open	Right Cheek		-	-	0.997
WCDMA Slide open Camera slide closed	Right Cheek, BT active		-	-	0.979

2450MHz Head SAR results

Options used	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 1 2412.0 MHz	Ch 7 2442.0 MHz	Ch 11 2462.0 MHz
WLAN	Conducted Power		18.0 dBm	18.0 dBm	18.0 dBm
Slide closed Camera slide closed	Left	Cheek	-	0.055	-
		Tilt	-	0.012	-
	Right	Cheek	0.104	0.107	0.095
		Tilt	-	0.009	-
WLAN	Conducted Power		-	18.0 dBm	-
Slide open Camera slide closed	Left	Cheek	-	0.028	-
		Tilt	-	0.011	-
	Right	Cheek	-	0.063	-
		Tilt	-	0.012	-
WLAN Slide closed Camera slide open	Right Cheek		-	0.117	-

2450MHz Head SAR results – corrected for power drift

Options used	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 1 2412.0 MHz	Ch 7 2442.0 MHz	Ch 11 2462.0 MHz
WLAN	Conducted Power		18.0 dBm	18.0 dBm	18.0 dBm
Slide closed Camera slide closed	Left	Cheek	-	0.092	-
		Tilt	-	0.014	-
	Right	Cheek	0.104	0.107	0.095
		Tilt	-	0.017	-
WLAN	Conducted Power		-	18.0 dBm	-
Slide open Camera slide closed	Left	Cheek	-	0.056	-
		Tilt	-	0.014	-
	Right	Cheek	-	0.063	-
		Tilt	-	0.016	-
WLAN Slide closed Camera slide open	Right Cheek		-	0.134	-

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

850MHz Body SAR results

Options 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
2-slot GPRS		Conducted Power	29.5 dBm	29.5 dBm	29.5 dBm
Slide closed Camera slide closed	Display facing phantom	Without headset	-	0.281	-
		Headset HS-47	-	0.219	-
	Back facing phantom	Without headset	0.557	0.599	0.652
		Headset HS-47	-	0.480	-
2-slot GPRS Slide closed Camera slide closed	Back facing phantom	Without headset, BT active	-	-	0.633

1900MHz Body SAR results

Options 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		Conducted Power	29.5 dBm	29.5 dBm	29.5 dBm
Slide closed Camera slide closed	Display facing phantom	Without headset	-	0.239	-
		Headset HS-47	-	0.198	-
	Back facing phantom	Without headset	0.463	0.524	0.545
		Headset HS-47	-	0.370	-
Options used	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz
WCDMA		Conducted Power	22.5 dBm	22.5 dBm	22.5 dBm
Slide closed Camera slide closed	Display facing phantom	Without headset	-	0.353	-
		Headset HS-47	-	0.256	-
	Back facing phantom	Without headset	0.755	0.686	0.811
		Headset HS-47	-	0.497	-
WCDMA Slide closed Camera slide closed	Back facing phantom	Without headset, BT active	-	-	0.823

2450MHz Body SAR results

Options used	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 1 2412.0 MHz	Ch 7 2442.0 MHz	Ch 11 2462.0 MHz
WLAN		Conducted Power	18.0 dBm	18.0 dBm	18.0 dBm
Slide closed Camera slide closed	Display facing phantom	Without headset	-	0.025	-
		Headset HS-47	-	0.024	-
	Back facing phantom	Without headset	0.043	0.029	0.028
		Headset HS-47	-	0.029	-

2450MHz Body SAR results – corrected for power drift

Options used	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 1 2412.0 MHz	Ch 7 2442.0 MHz	Ch 11 2462.0 MHz
WLAN		Conducted Power	18.0 dBm	18.0 dBm	18.0 dBm
Slide closed Camera slide closed	Display facing phantom	Without headset	-	0.041	-
		Headset HS-47	-	0.034	-
	Back facing phantom	Without headset	0.056	0.045	0.032
		Headset HS-47	-	0.038	-

Simultaneous transmissions: Combined SAR results

Option used	Test configuration	Max. 1g SAR results				Combined 1g SAR values		
		WLAN	2-slot GPRS850	GSM 1900	WCDMA 1900	WLAN + 2-slot GPRS850	WLAN + GSM 1900	WLAN + WCDMA 1900
Slide closed	Head: Left, Cheek	0.092	0.397	0.632	0.937	0.489	0.724	1.029
	Head: Left, Tilt	0.014	0.178	0.298	0.386	0.192	0.312	0.400
	Head: Right, Cheek	0.134	0.390	0.577	0.903	0.524	0.711	1.037
	Head: Right, Tilt	0.017	0.203	0.394	0.529	0.220	0.411	0.546
Slide open	Head: Left, Cheek	0.056	0.520	0.560	0.751	0.576	0.616	0.807
	Head: Left, Tilt	0.014	0.276	0.317	0.425	0.290	0.331	0.439
	Head: Right, Cheek	0.063	0.513	0.702	1.06	0.576	0.765	1.123
	Head: Right, Tilt	0.016	0.306	0.344	0.460	0.322	0.360	0.476
Slide closed	Body: Without Headset	0.056	0.652	0.545	0.811	0.708	0.601	0.867
	Body: Headset HS-47	0.038	0.480	0.370	0.497	0.518	0.408	0.535

Note: Simultaneous Transmission Procedures as described in KDB648474 are not required for this product. The Combined SAR data given in the tables above has been voluntarily calculated.

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: 2008-10-28 09:12:05

Test Laboratory: TCC Nokia

Type: D835V2; Serial: D835V2 - SN:480

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL850; Medium Notes: 20.9C

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.905 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 2.54 mW/g

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

Reference Value = 53.8 V/m

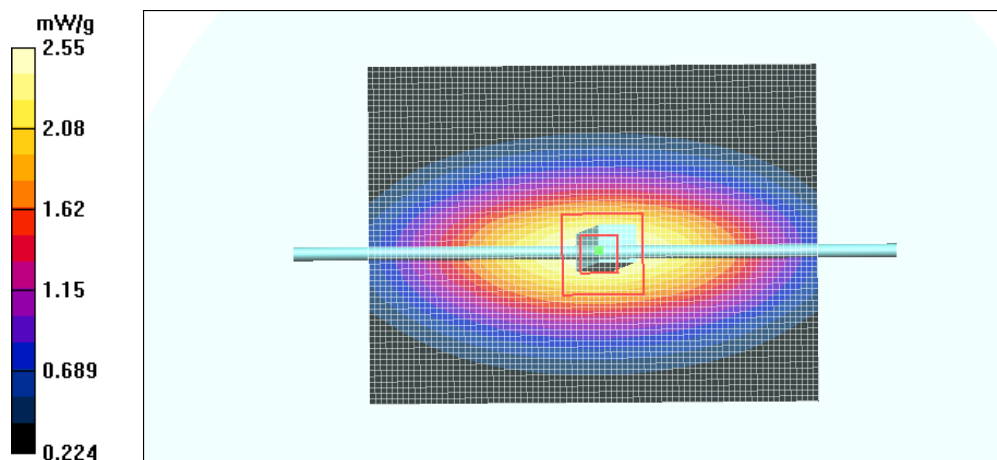
Peak SAR (extrapolated) = 3.53 W/kg

SAR(1 g) = 2.36 mW/g

SAR(10 g) = 1.53 mW/g

Power Drift = -0.020 dB

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



Date/Time: 2008-10-22 09:04:55

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN:5d030

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 12.4 mW/g

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

Reference Value = 89.8 V/m

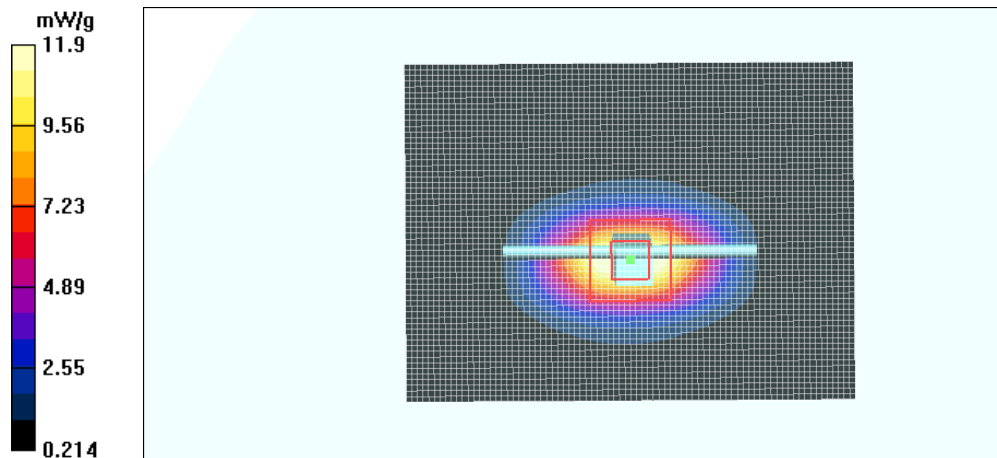
Peak SAR (extrapolated) = 20.0 W/kg

SAR(1 g) = 10.6 mW/g

SAR(10 g) = 5.42 mW/g

Power Drift = 0.028 dB

Maximum value of SAR (measured) = 11.9 mW/g



Date/Time: 2008-10-23 08:52:40

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN:5d030

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 12.2 mW/g

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

Reference Value = 89.3 V/m

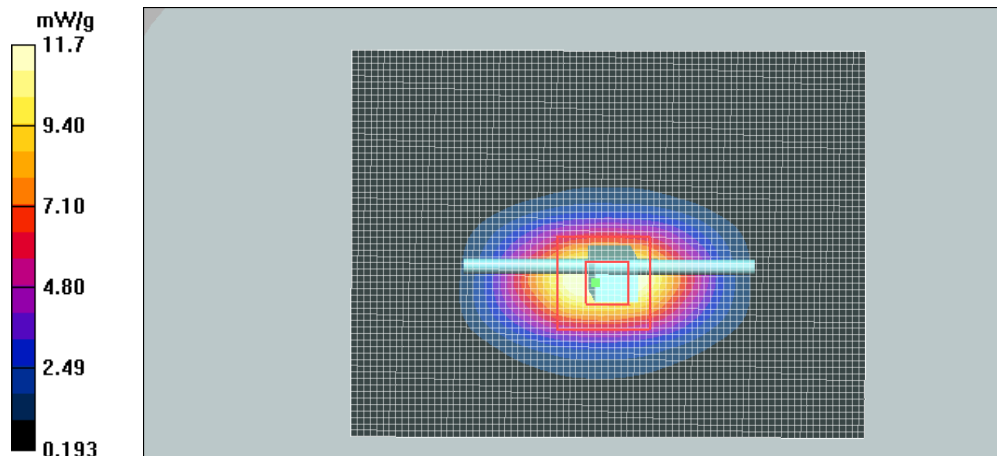
Peak SAR (extrapolated) = 19.8 W/kg

SAR(1 g) = 10.4 mW/g

SAR(10 g) = 5.36 mW/g

Power Drift = 0.038 dB

Maximum value of SAR (measured) = 11.7 mW/g



Date/Time: 2008-10-24 10:04:49

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN:5d030

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 12.2 mW/g

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

Reference Value = 87.4 V/m

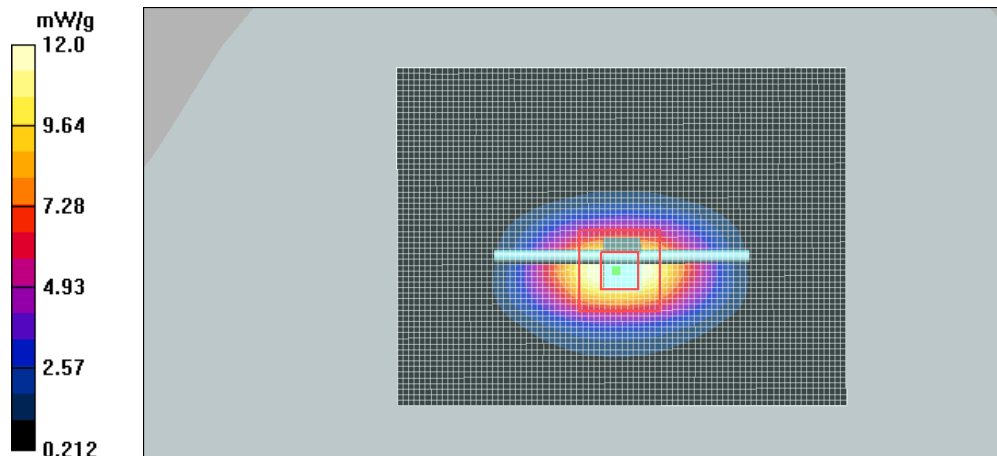
Peak SAR (extrapolated) = 20.1 W/kg

SAR(1 g) = 10.6 mW/g

SAR(10 g) = 5.42 mW/g

Power Drift = 0.038 dB

Maximum value of SAR (measured) = 12.0 mW/g



Date/Time: 2008-10-29 08:38:48

Test Laboratory: TCC Nokia

Type: D2450V2; Serial: D2450V2 - SN:729

Communication System: CW2450

Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 21.0C

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.57, 4.57, 4.57); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 17.1 mW/g

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

Reference Value = 92.9 V/m

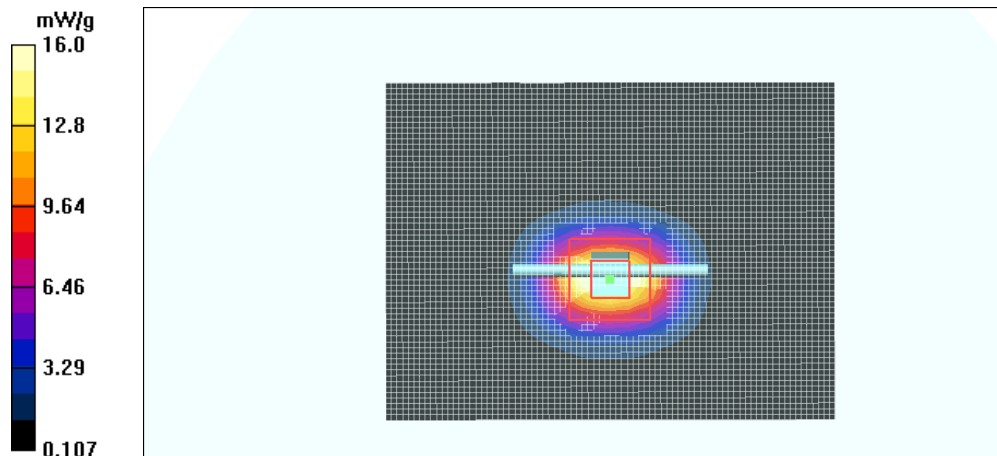
Peak SAR (extrapolated) = 30.0 W/kg

SAR(1 g) = 14.1 mW/g

SAR(10 g) = 6.52 mW/g

Power Drift = -0.018 dB

Maximum value of SAR (measured) = 16.0 mW/g



Date/Time: 2008-10-27 14:47:58

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN:5d030

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: BSL1900; Medium Notes: 20.6C

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.23, 5.23, 5.23); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1018
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 11.5 mW/g

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

Reference Value = 81.0 V/m

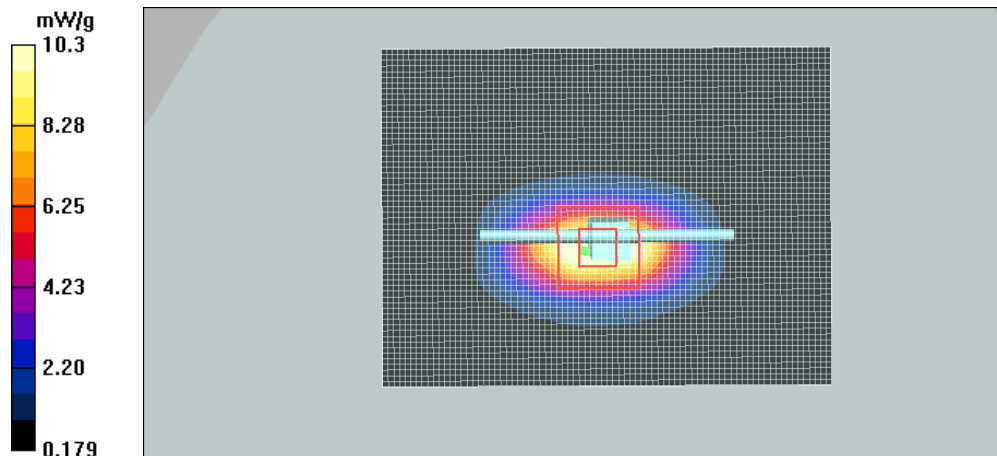
Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 9.14 mW/g

SAR(10 g) = 4.75 mW/g

Power Drift = -0.157 dB

Maximum value of SAR (measured) = 10.3 mW/g



Date/Time: 2008-10-30 11:04:54

Test Laboratory: TCC Nokia

Type: D2450V2; Serial: D2450V2 - SN:729

Communication System: CW2450

Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2450$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.24, 4.24, 4.24); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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 = 89.5 V/m

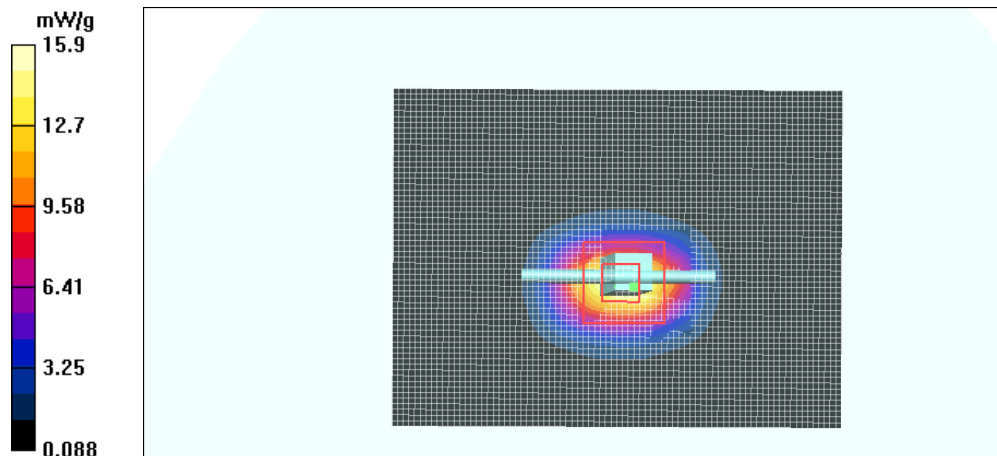
Peak SAR (extrapolated) = 28.4 W/kg

SAR(1 g) = 13.8 mW/g

SAR(10 g) = 6.38 mW/g

Power Drift = 0.005 dB

Maximum value of SAR (measured) = 15.9 mW/g



APPENDIX B: MEASUREMENT SCANS

Date/Time: 2008-10-28 09:58:10

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM850

Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL850; Medium Notes: 20.9C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide closed, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.396 mW/g

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

Reference Value = 6.88 V/m

Peak SAR (extrapolated) = 0.533 W/kg

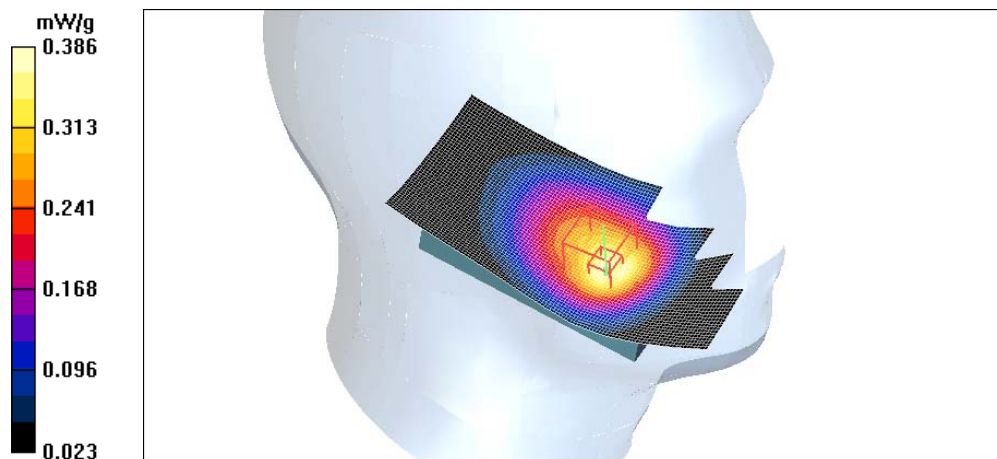
SAR(1 g) = 0.352 mW/g

SAR(10 g) = 0.233 mW/g

Power Drift = -0.448 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) = 0.386 mW/g



Date/Time: 2008-10-28 11:08:55

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: HSL850; Medium Notes: 20.9C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide closed, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.422 mW/g

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

Reference Value = 6.65 V/m

Peak SAR (extrapolated) = 0.618 W/kg

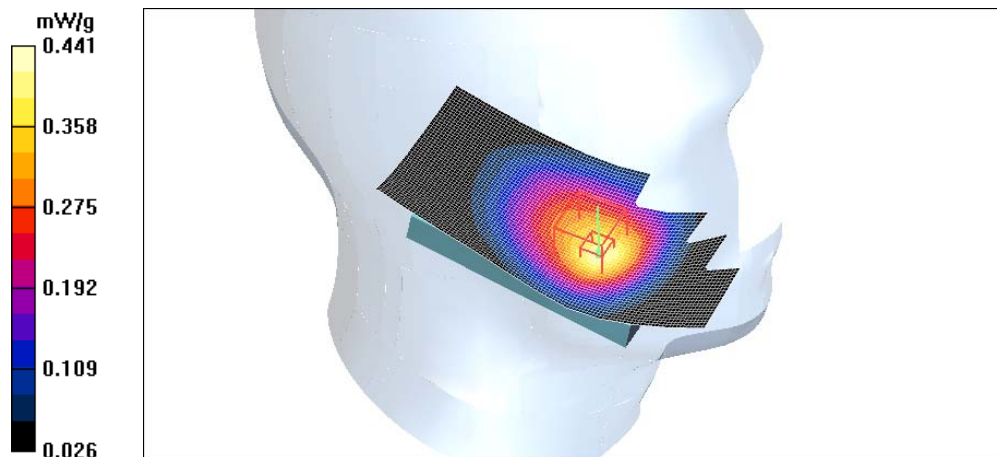
SAR(1 g) = 0.397 mW/g

SAR(10 g) = 0.259 mW/g

Power Drift = 0.038 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) = 0.441 mW/g



Date/Time: 2008-10-28 11:48:31

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: HSL850; Medium Notes: 20.9C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.189 mW/g

Tilt position, Middle, Slide closed, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 10.3 V/m

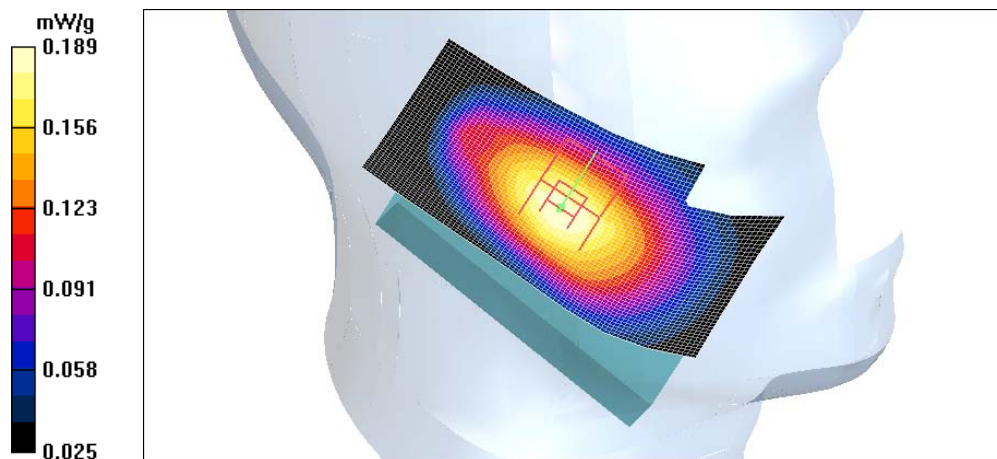
Peak SAR (extrapolated) = 0.222 W/kg

SAR(1 g) = 0.178 mW/g

SAR(10 g) = 0.131 mW/g

Power Drift = 0.080 dB

Maximum value of SAR (measured) = 0.189 mW/g



Date/Time: 2008-10-28 13:51:46

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: HSL850; Medium Notes: 20.3C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.415 mW/g

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

Reference Value = 7.40 V/m

Peak SAR (extrapolated) = 0.558 W/kg

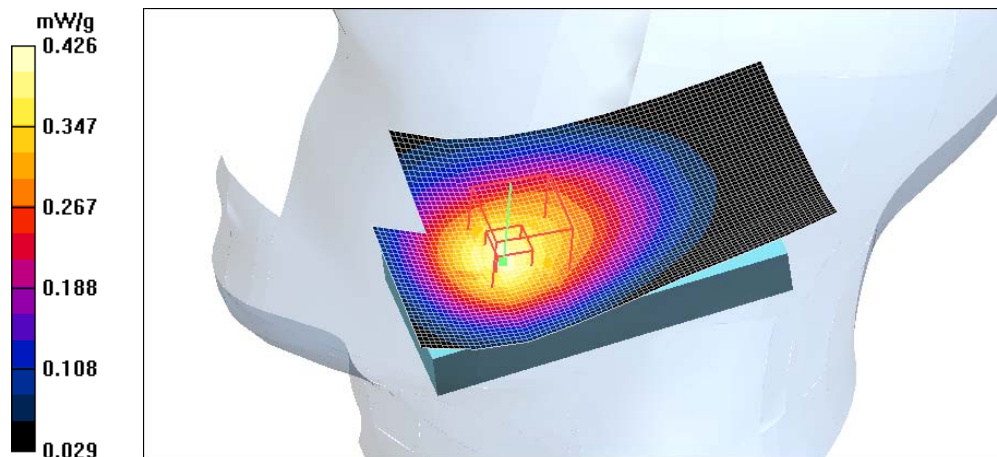
SAR(1 g) = 0.390 mW/g

SAR(10 g) = 0.271 mW/g

Power Drift = -0.139 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) = 0.426 mW/g



Date/Time: 2008-10-28 14:06:05

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: HSL850; Medium Notes: 20.3C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.215 mW/g

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

Reference Value = 11.4 V/m

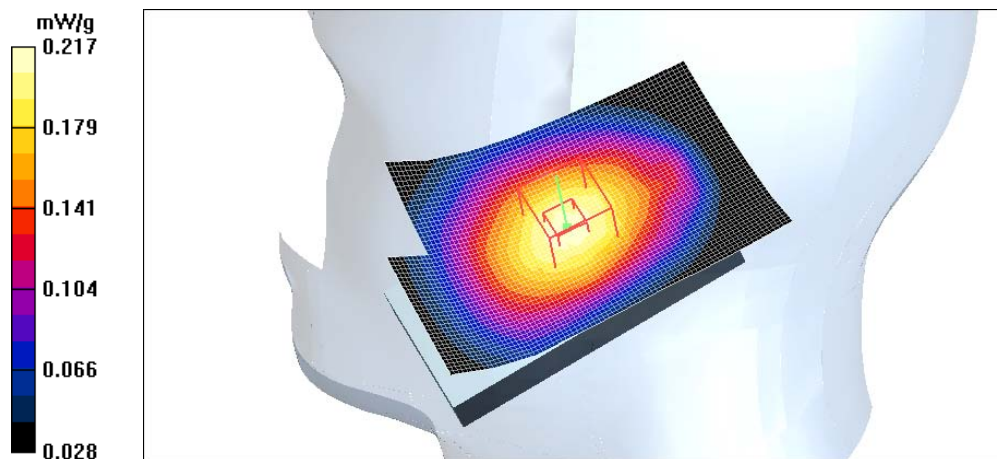
Peak SAR (extrapolated) = 0.253 W/kg

SAR(1 g) = 0.203 mW/g

SAR(10 g) = 0.152 mW/g

Power Drift = 0.079 dB

Maximum value of SAR (measured) = 0.217 mW/g



Date/Time: 2008-10-28 12:11:37

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: HSL850; Medium Notes: 20.5C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.539 mW/g

Cheek position, Middle, Slide open, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 8.18 V/m

Peak SAR (extrapolated) = 0.702 W/kg

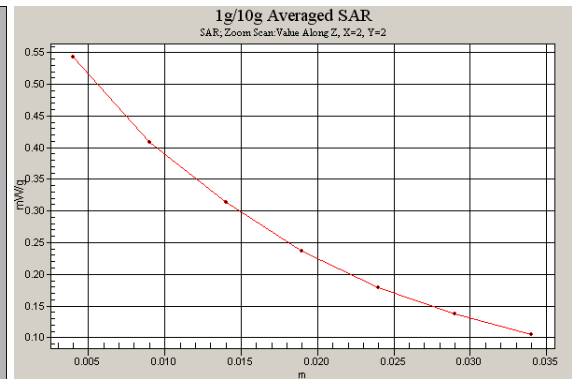
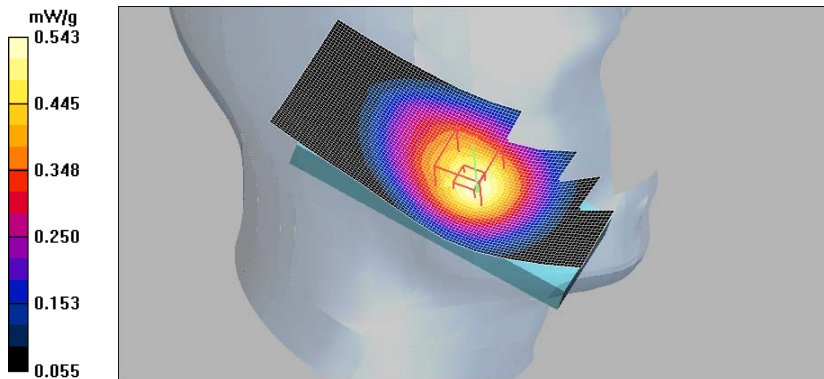
SAR(1 g) = 0.520 mW/g

SAR(10 g) = 0.374 mW/g

Power Drift = 0.236 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) = 0.543 mW/g



Date/Time: 2008-10-28 12:31:03

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: HSL850; Medium Notes: 20.5C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.290 mW/g

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

Reference Value = 13.7 V/m

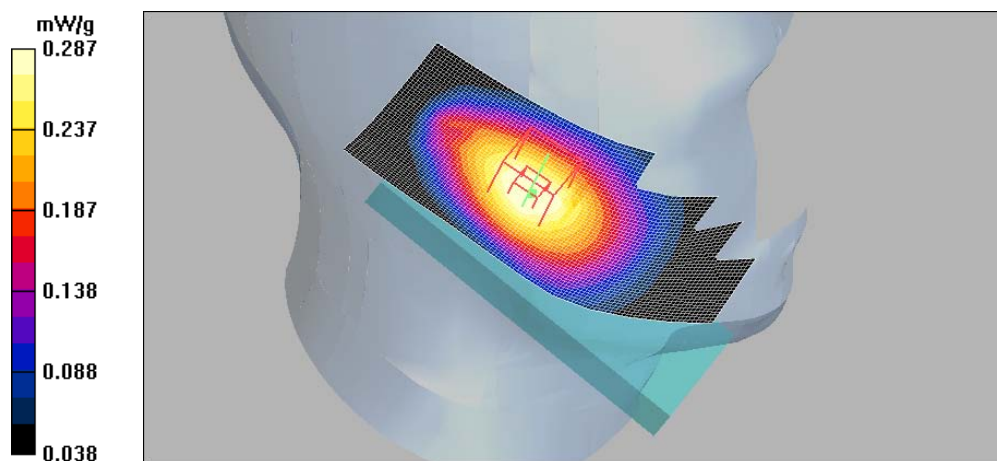
Peak SAR (extrapolated) = 0.346 W/kg

SAR(1 g) = 0.276 mW/g

SAR(10 g) = 0.207 mW/g

Power Drift = -0.269 dB

Maximum value of SAR (measured) = 0.287 mW/g



Date/Time: 2008-10-28 13:12:11

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: HSL850; Medium Notes: 20.3C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.603 mW/g

Cheek position, Middle, Slide open, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 8.70 V/m

Peak SAR (extrapolated) = 0.696 W/kg

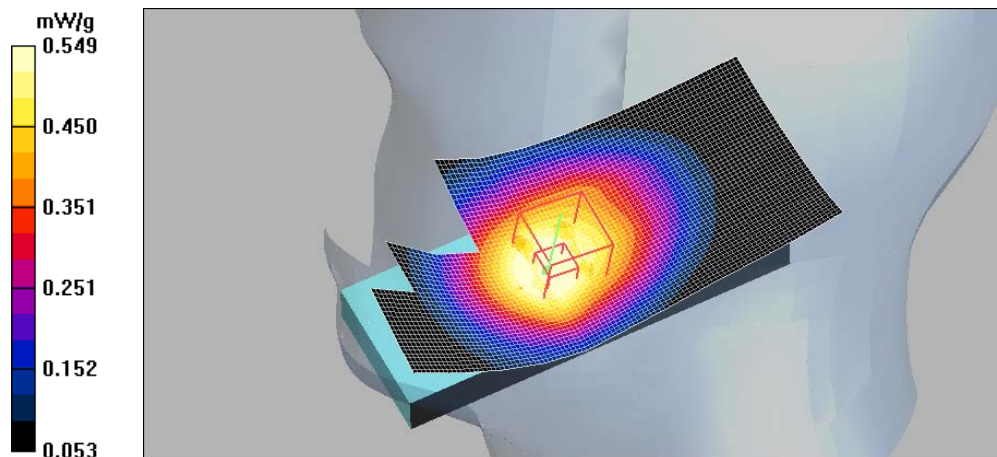
SAR(1 g) = 0.513 mW/g

SAR(10 g) = 0.373 mW/g

Power Drift = -0.245 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) = 0.549 mW/g



Date/Time: 2008-10-28 13:30:48

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: HSL850; Medium Notes: 20.3C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 13.5 V/m

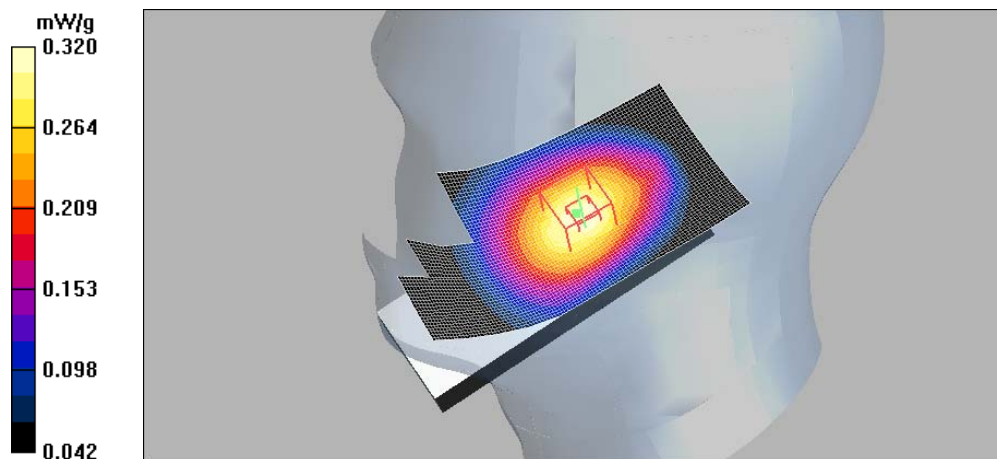
Peak SAR (extrapolated) = 0.389 W/kg

SAR(1 g) = 0.306 mW/g

SAR(10 g) = 0.227 mW/g

Power Drift = 0.117 dB

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



Date/Time: 2008-10-28 11:25:32

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 3-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.8

Medium: HSL850; Medium Notes: 20.9C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide closed, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.399 mW/g

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

Reference Value = 6.66 V/m

Peak SAR (extrapolated) = 0.576 W/kg

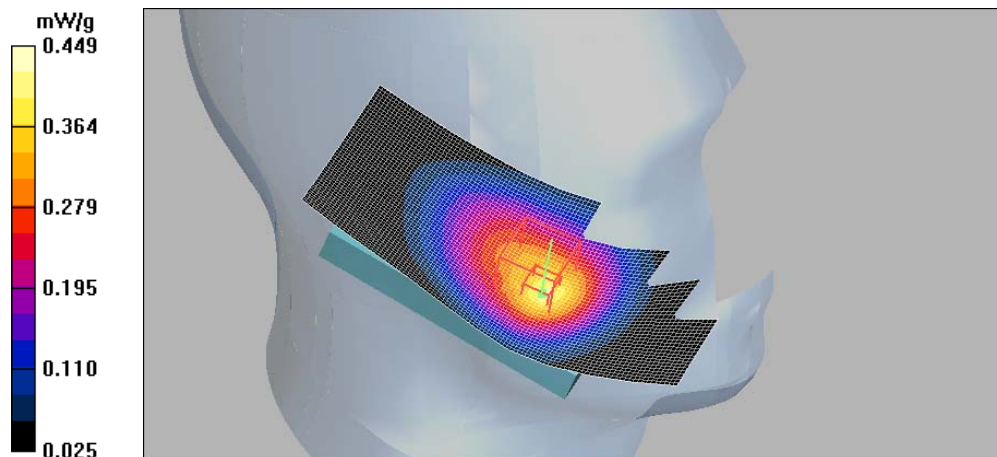
SAR(1 g) = 0.387 mW/g

SAR(10 g) = 0.250 mW/g

Power Drift = 0.116 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) = 0.449 mW/g



Date/Time: 2008-10-28 19:06:54

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot 8PSK EGPRS850

Frequency: 836 MHz; Duty Cycle: 1:4.2

Medium: HSL850; Medium Notes: 20.2C

Medium parameters used: $f = 836 \text{ MHz}$; $\sigma = 0.908 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.196 mW/g

Cheek position, Middle, Slide open, Camera 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 = 5.02 V/m

Peak SAR (extrapolated) = 0.233 W/kg

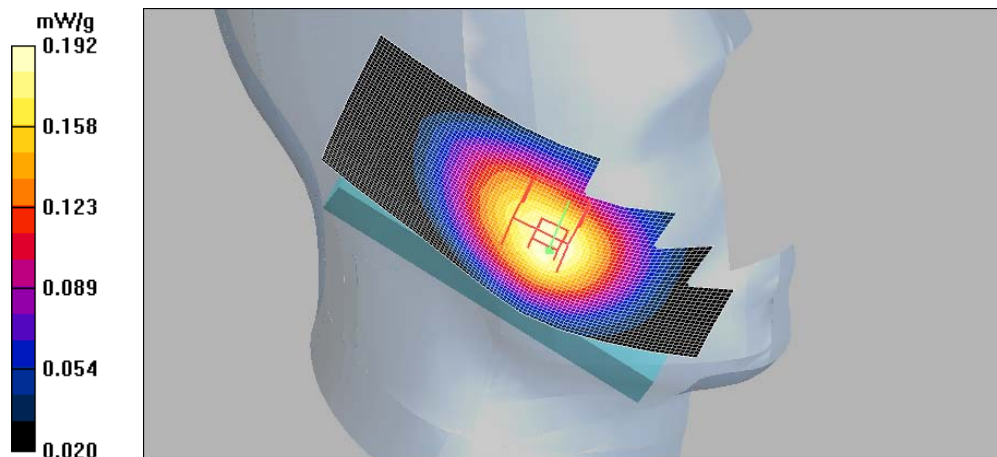
SAR(1 g) = 0.182 mW/g

SAR(10 g) = 0.133 mW/g

Power Drift = -0.347 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) = 0.192 mW/g



Date/Time: 2008-10-28 15:41:01

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: HSL850; Medium Notes: 20.5C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131

- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn728; Calibrated: 2008-04-23

- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide open, Camera slide open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.532 mW/g

Cheek position, Middle, Slide open, Camera slide open/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 8.83 V/m

Peak SAR (extrapolated) = 0.672 W/kg

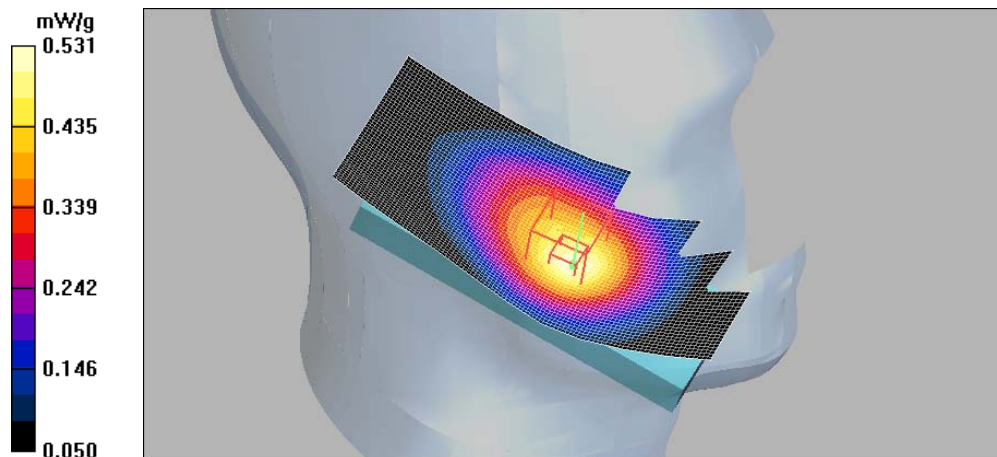
SAR(1 g) = 0.497 mW/g

SAR(10 g) = 0.353 mW/g

Power Drift = -0.074 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) = 0.531 mW/g



Date/Time: 2008-10-28 16:27:06

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: HSL850; Medium Notes: 20.5C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131

- ConvF(6.14, 6.14, 6.14); Calibrated: 2008-04-22

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn728; Calibrated: 2008-04-23

- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide open, Camera slide closed, BT/Area Scan (51x101x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.535 mW/g

Cheek position, Middle, Slide open, Camera slide closed, BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 7.58 V/m

Peak SAR (extrapolated) = 0.664 W/kg

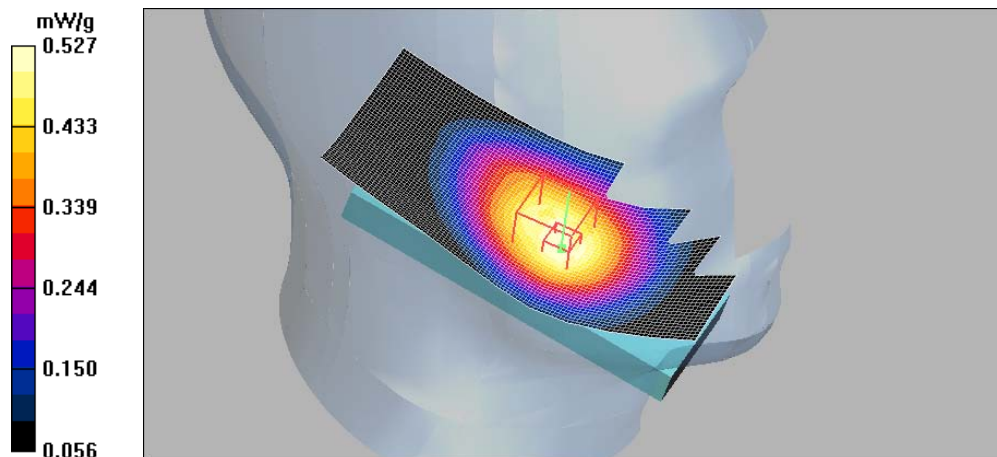
SAR(1 g) = 0.493 mW/g

SAR(10 g) = 0.363 mW/g

Power Drift = 0.062 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) = 0.527 mW/g



Date/Time: 2008-10-22 12:29:56

Test Laboratory: TCC Nokia
Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.649 mW/g

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

Reference Value = 7.67 V/m

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.632 mW/g

SAR(10 g) = 0.320 mW/g

Power Drift = -0.134 dB

Maximum value of SAR (measured) = 0.773 mW/g

Cheek position, Middle, Slide closed, Camera slide closed/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.67 V/m

Peak SAR (extrapolated) = 1.01 W/kg

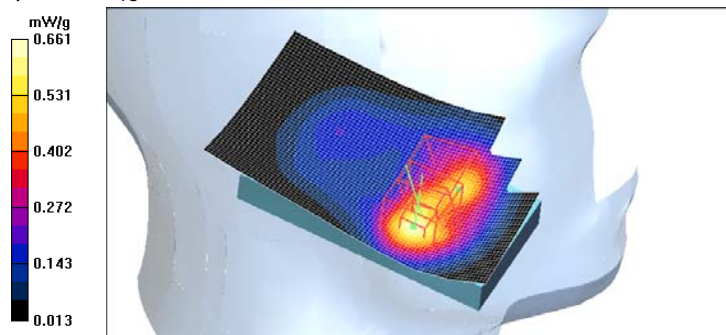
SAR(1 g) = 0.495 mW/g

SAR(10 g) = 0.275 mW/g

Power Drift = -0.134 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) = 0.661 mW/g



Date/Time: 2008-10-22 14:31:15

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide closed, Camere slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.245 mW/g

Tilt position, Middle, Slide closed, Camere slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 11.1 V/m

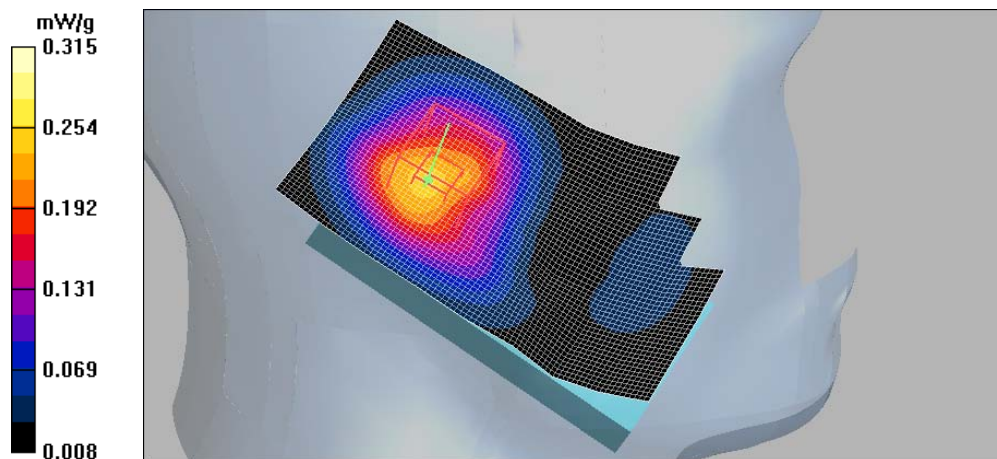
Peak SAR (extrapolated) = 0.438 W/kg

SAR(1 g) = 0.298 mW/g

SAR(10 g) = 0.194 mW/g

Power Drift = 0.065 dB

Maximum value of SAR (measured) = 0.315 mW/g



Date/Time: 2008-10-22 14:52:11

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.633 mW/g

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

Reference Value = 9.55 V/m

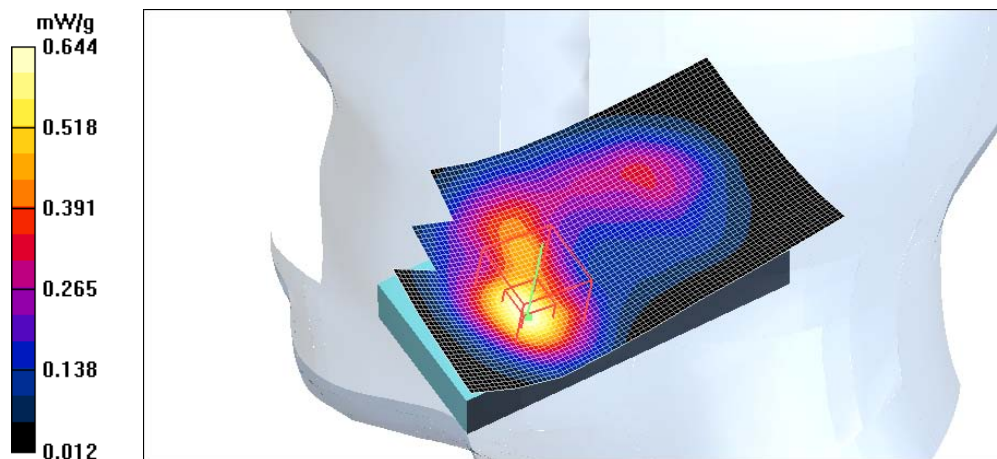
Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.577 mW/g

SAR(10 g) = 0.309 mW/g

Power Drift = 0.211 dB

Maximum value of SAR (measured) = 0.644 mW/g



Date/Time: 2008-10-22 15:10:14

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.429 mW/g

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

Reference Value = 13.1 V/m

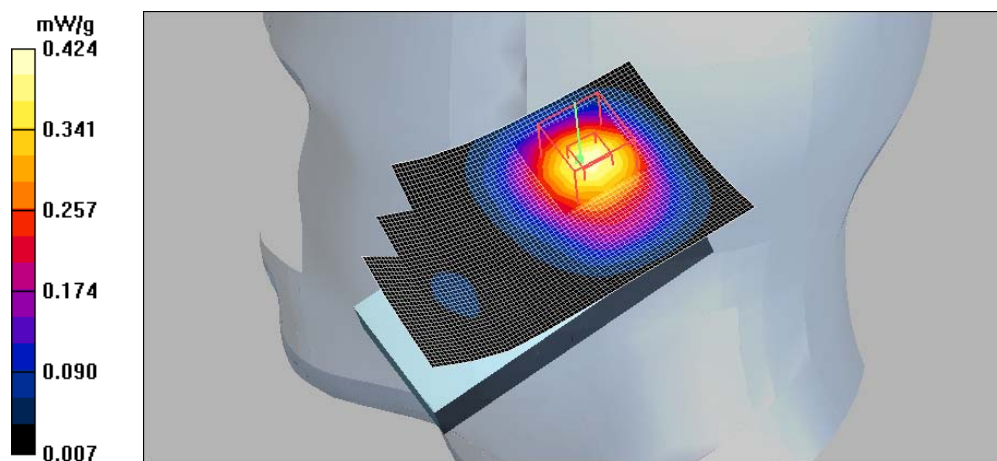
Peak SAR (extrapolated) = 0.648 W/kg

SAR(1 g) = 0.394 mW/g

SAR(10 g) = 0.233 mW/g

Power Drift = 0.216 dB

Maximum value of SAR (measured) = 0.424 mW/g



Date/Time: 2008-10-23 09:37:42

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.578 mW/g

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

Reference Value = 5.68 V/m

Peak SAR (extrapolated) = 0.927 W/kg

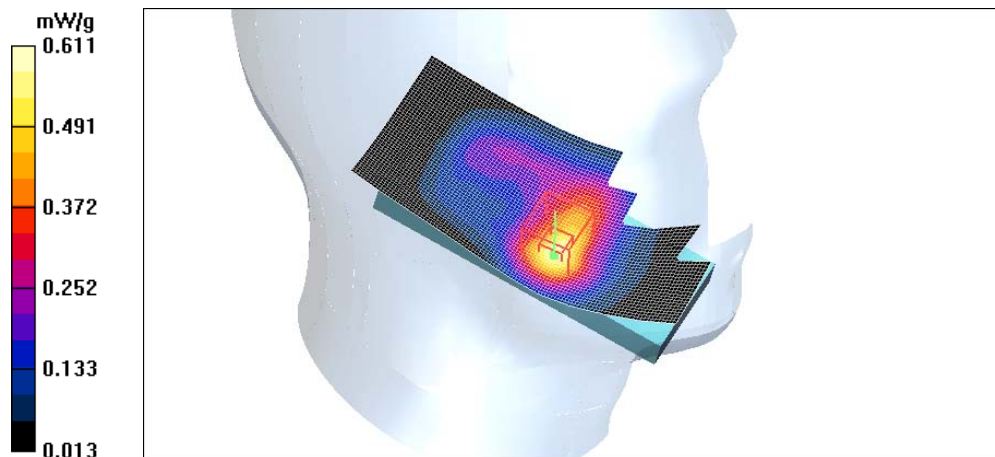
SAR(1 g) = 0.560 mW/g

SAR(10 g) = 0.323 mW/g

Power Drift = 0.025 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) = 0.611 mW/g



Date/Time: 2008-10-23 09:51:53

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide open, Camere slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.395 mW/g

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

Reference Value = 9.57 V/m

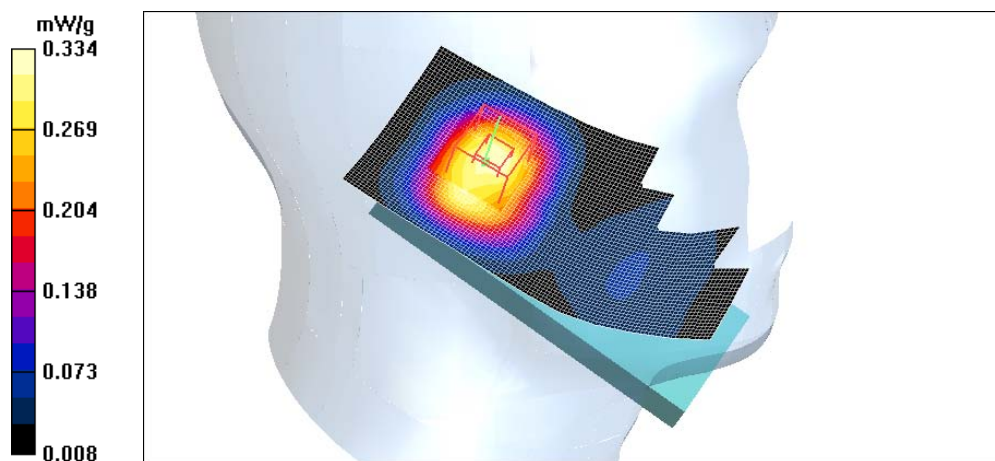
Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.317 mW/g

SAR(10 g) = 0.202 mW/g

Power Drift = -0.015 dB

Maximum value of SAR (measured) = 0.334 mW/g



Date/Time: 2008-10-23 10:49:05

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM1900

Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, High, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 6.97 V/m

Peak SAR (extrapolated) = 1.22 W/kg

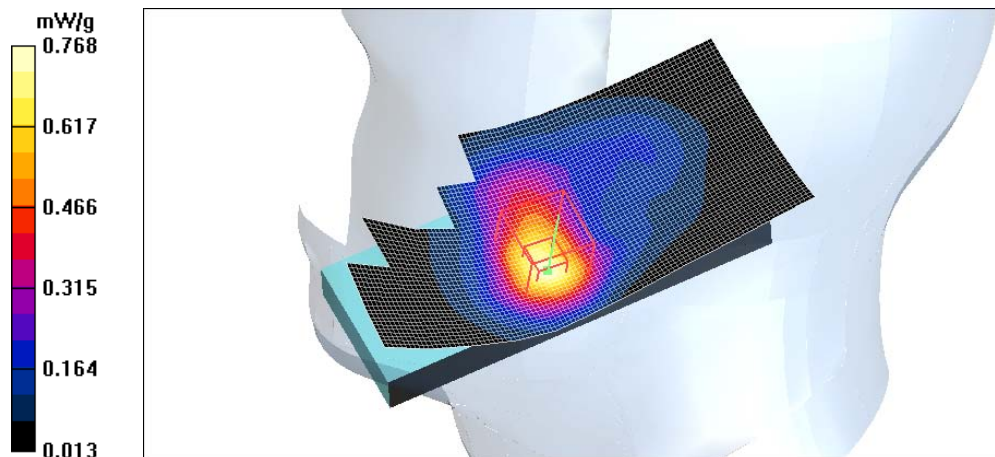
SAR(1 g) = 0.702 mW/g

SAR(10 g) = 0.388 mW/g

Power Drift = -0.052 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) = 0.768 mW/g



Date/Time: 2008-10-22 15:55:10

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.381 mW/g

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

Reference Value = 12.1 V/m

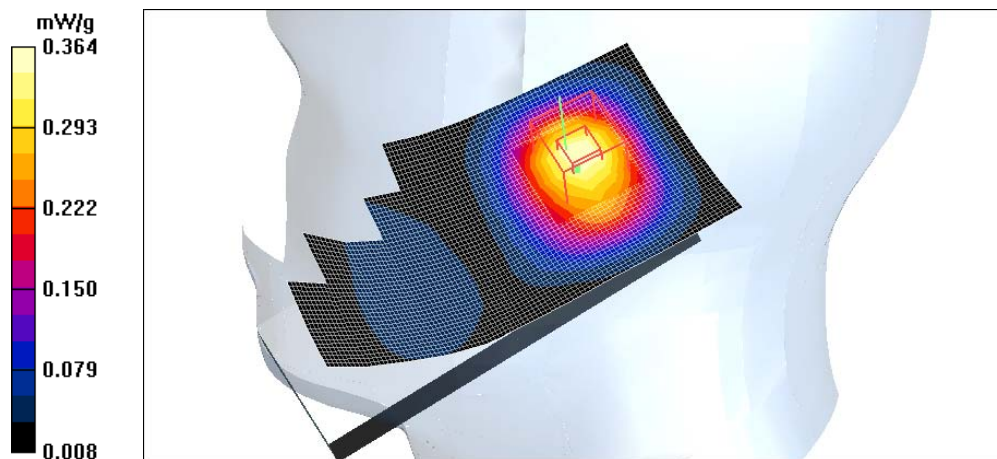
Peak SAR (extrapolated) = 0.535 W/kg

SAR(1 g) = 0.344 mW/g

SAR(10 g) = 0.209 mW/g

Power Drift = 0.002 dB

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



Date/Time: 2008-10-22 12:53:09

Test Laboratory: TCC Nokia
Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.610 mW/g

Cheek position, Middle, Slide closed, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 7.48 V/m

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.605 mW/g

SAR(10 g) = 0.306 mW/g

Power Drift = 0.149 dB

Maximum value of SAR (measured) = 0.723 mW/g

Cheek position, Middle, Slide closed, Camera slide closed/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 7.48 V/m

Peak SAR (extrapolated) = 0.969 W/kg

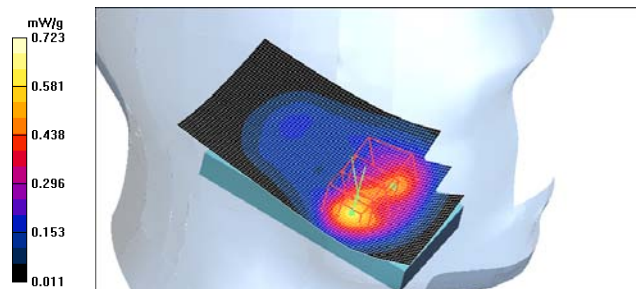
SAR(1 g) = 0.472 mW/g

SAR(10 g) = 0.268 mW/g

Power Drift = 0.149 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) = 0.658 mW/g



Date/Time: 2008-10-22 13:23:13

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 3-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:2.8

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.625 mW/g

Cheek position, Middle, Slide closed, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 7.32 V/m

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.607 mW/g

SAR(10 g) = 0.311 mW/g

Power Drift = 0.254 dB

Maximum value of SAR (measured) = 0.725 mW/g

Cheek position, Middle, Slide closed, Camera slide closed/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 7.32 V/m

Peak SAR (extrapolated) = 1.04 W/kg

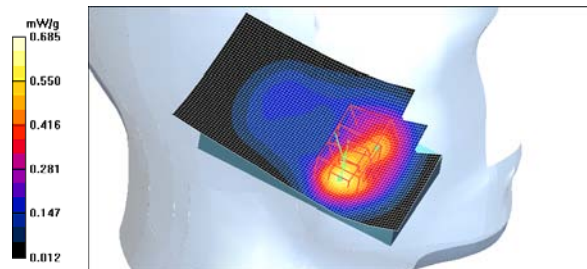
SAR(1 g) = 0.489 mW/g

SAR(10 g) = 0.272 mW/g

Power Drift = 0.254 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) = 0.685 mW/g



Date/Time: 2008-10-23 11:16:35

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 1-slot 8PSK EGPRS1900

Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, High, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.160 mW/g

Cheek position, High, Slide open, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 3.13 V/m

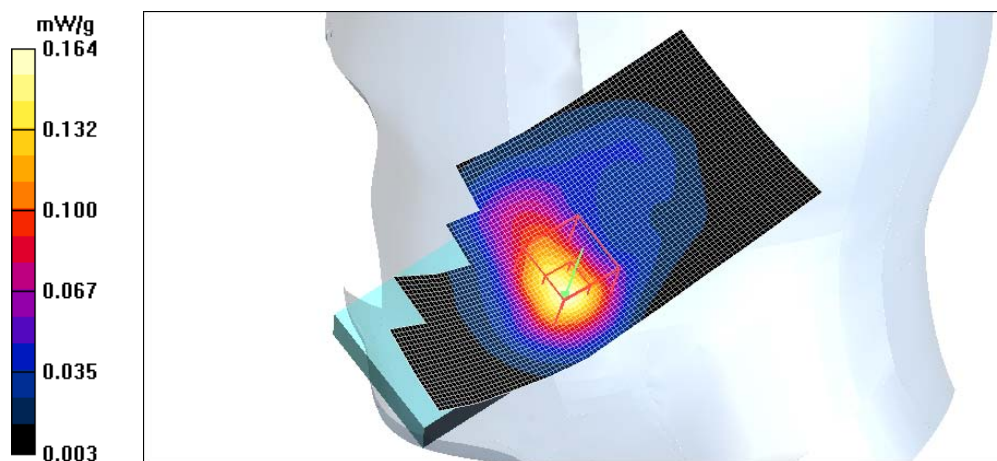
Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.149 mW/g

SAR(10 g) = 0.081 mW/g

Power Drift = 0.274 dB

Maximum value of SAR (measured) = 0.164 mW/g



Date/Time: 2008-10-24 14:22:06

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.6C

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Low, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.952 mW/g

Cheek position, Low, Slide closed, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 10.0 V/m

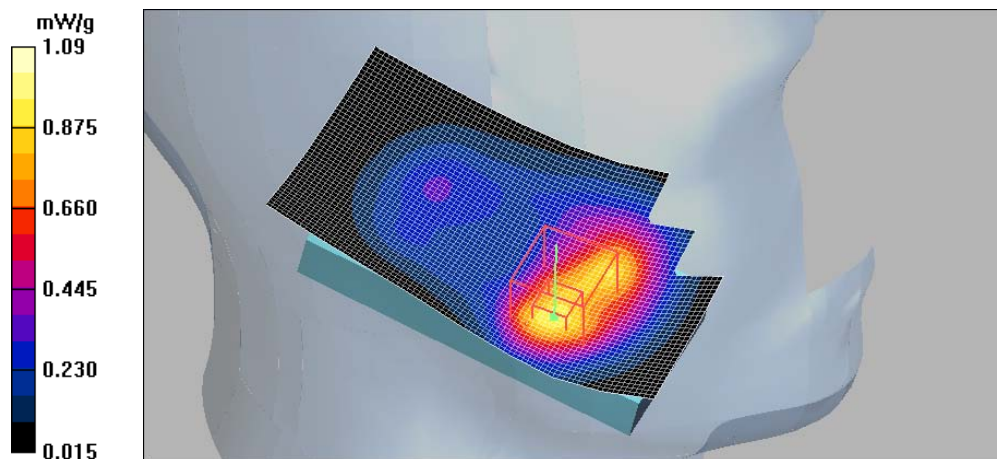
Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.937 mW/g

SAR(10 g) = 0.505 mW/g

Power Drift = 0.110 dB

Maximum value of SAR (measured) = 1.09 mW/g



Date/Time: 2008-10-23 15:15:59

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide closed, Camere slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.452 mW/g

Tilt position, Middle, Slide closed, Camere slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 13.0 V/m

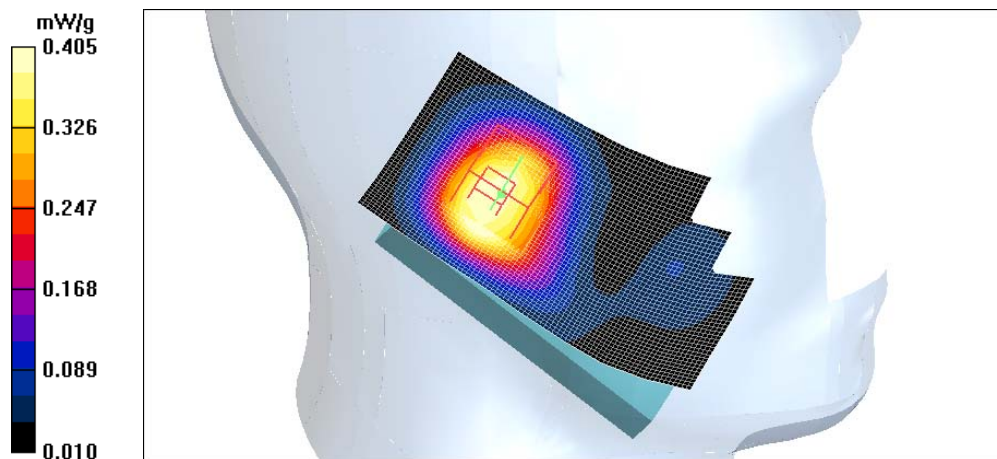
Peak SAR (extrapolated) = 0.562 W/kg

SAR(1 g) = 0.386 mW/g

SAR(10 g) = 0.250 mW/g

Power Drift = 0.030 dB

Maximum value of SAR (measured) = 0.405 mW/g



Date/Time: 2008-10-24 11:11:04

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165

- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn793; Calibrated: 2008-04-30

- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, High, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.995 mW/g

Cheek position, High, Slide closed, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 11.1 V/m

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.903 mW/g

SAR(10 g) = 0.479 mW/g

Power Drift = -0.009 dB

Maximum value of SAR (measured) = 1.02 mW/g

Cheek position, High, Slide closed, Camera slide closed/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 11.1 V/m

Peak SAR (extrapolated) = 1.53 W/kg

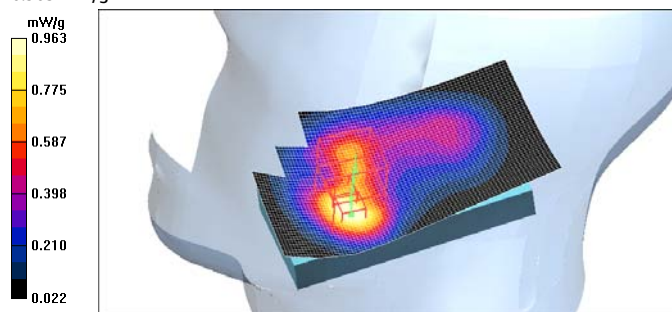
SAR(1 g) = 0.696 mW/g

SAR(10 g) = 0.384 mW/g

Power Drift = -0.009 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) = 0.963 mW/g



SAR Report

Salo_SAR_0913_05

Applicant: Nokia Corporation

Type: RM-368

Copyright © 2009 TCC Nokia

Date/Time: 2008-10-24 12:06:06

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Tilt position, Middle, Slide closed, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 15.7 V/m

Peak SAR (extrapolated) = 0.836 W/kg

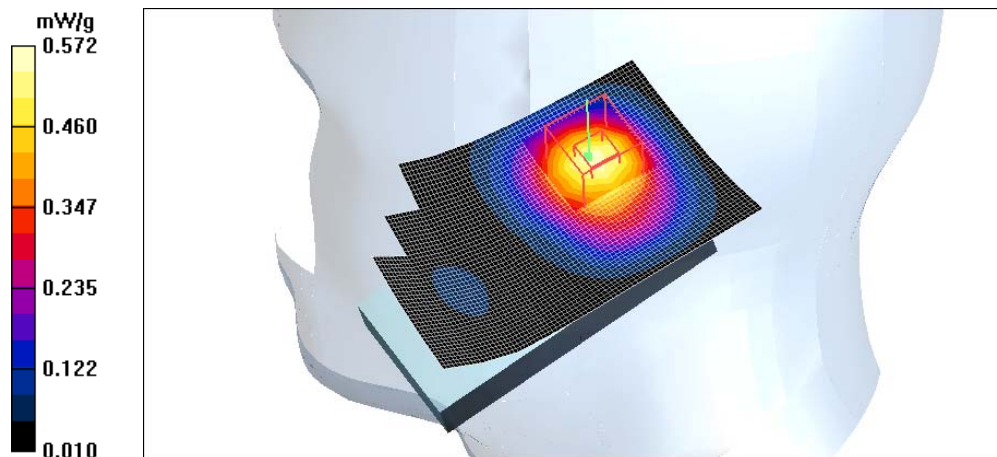
SAR(1 g) = 0.529 mW/g

SAR(10 g) = 0.316 mW/g

Power Drift = -0.378 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) = 0.572 mW/g



Date/Time: 2008-10-23 15:48:51

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.804 mW/g

Cheek position, Middle, Slide open, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 6.03 V/m

Peak SAR (extrapolated) = 1.26 W/kg

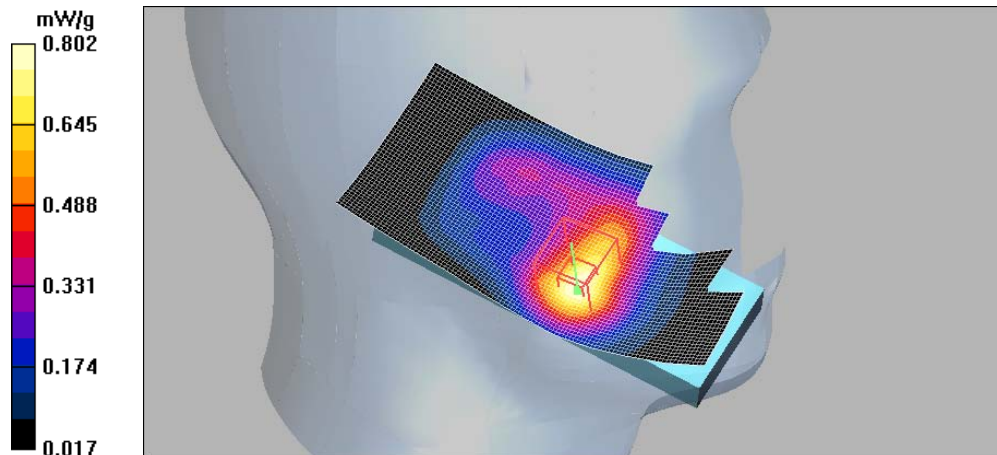
SAR(1 g) = 0.751 mW/g

SAR(10 g) = 0.434 mW/g

Power Drift = -0.071 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) = 0.802 mW/g



Date/Time: 2008-10-23 16:10:12

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide open, Camere slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.510 mW/g

Tilt position, Middle, Slide open, Camere slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 10.3 V/m

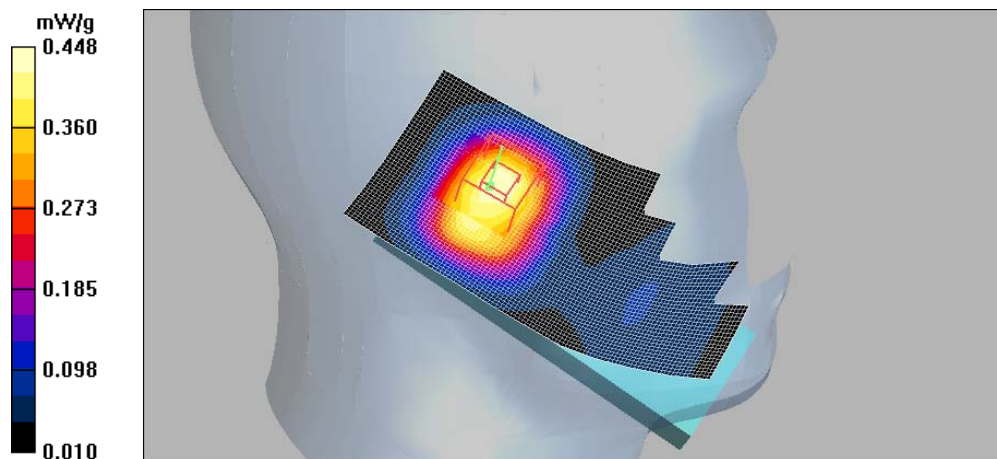
Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.425 mW/g

SAR(10 g) = 0.270 mW/g

Power Drift = 0.023 dB

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



Date/Time: 2008-10-24 13:22:03

Test Laboratory: TCC Nokia
Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, High, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.14 mW/g

Cheek position, High, Slide open, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 8.86 V/m

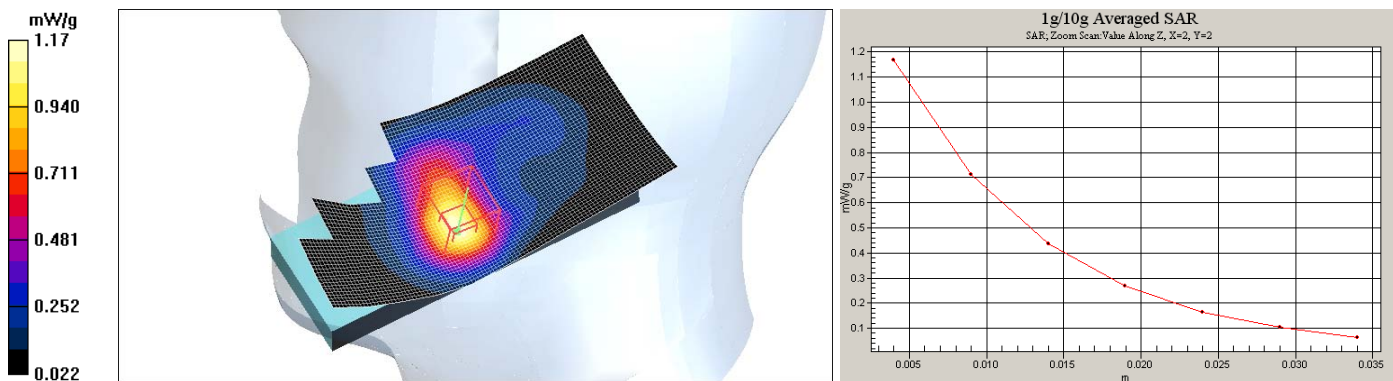
Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.06 mW/g

SAR(10 g) = 0.592 mW/g

Power Drift = -0.027 dB

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



Date/Time: 2008-10-24 12:39:13

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.509 mW/g

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

Reference Value = 13.8 V/m

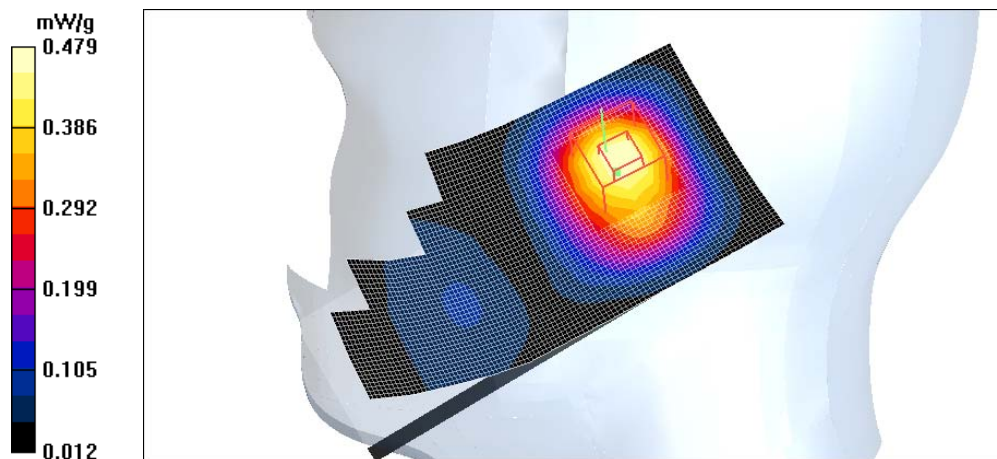
Peak SAR (extrapolated) = 0.709 W/kg

SAR(1 g) = 0.460 mW/g

SAR(10 g) = 0.284 mW/g

Power Drift = 0.031 dB

Maximum value of SAR (measured) = 0.479 mW/g



Date/Time: 2008-10-24 14:45:18

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, High, Slide open, Camera slide open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.09 mW/g

Cheek position, High, Slide open, Camera slide open/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 9.49 V/m

Peak SAR (extrapolated) = 1.69 W/kg

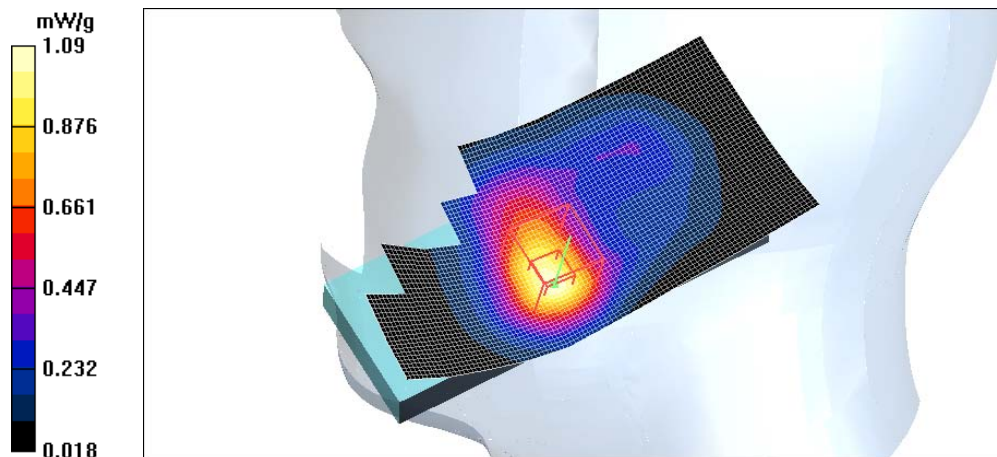
SAR(1 g) = 0.997 mW/g

SAR(10 g) = 0.564 mW/g

Power Drift = -0.349 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) = 1.09 mW/g



Date/Time: 2008-10-24 15:00:18

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: 20.0C

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.14, 5.14, 5.14); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, High, Slide open, Camera slide closed, BT/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.05 mW/g

Cheek position, High, Slide open, Camera slide closed, BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 9.11 V/m

Peak SAR (extrapolated) = 1.64 W/kg

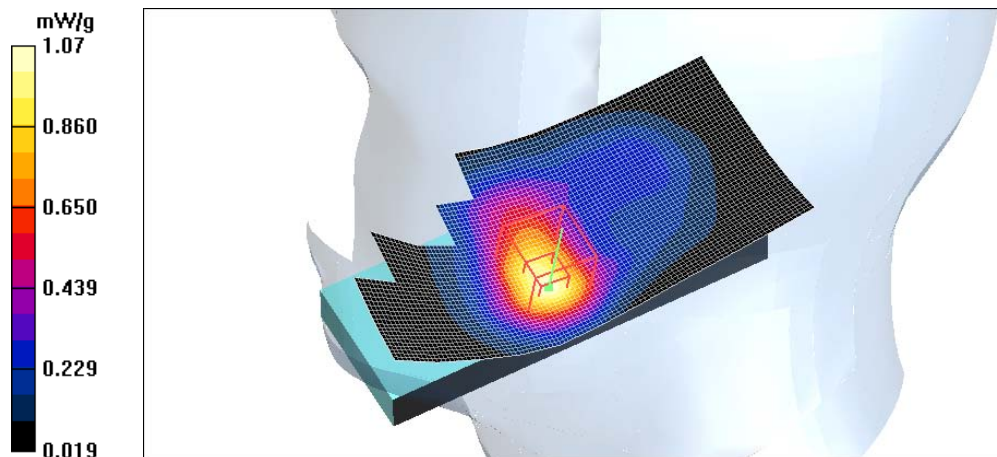
SAR(1 g) = 0.979 mW/g

SAR(10 g) = 0.557 mW/g

Power Drift = -0.091 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) = 1.07 mW/g



Date/Time: 2008-10-29 09:57:43

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.57, 4.57, 4.57); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Cheek position, Middle, Slide closed, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 1.40 V/m

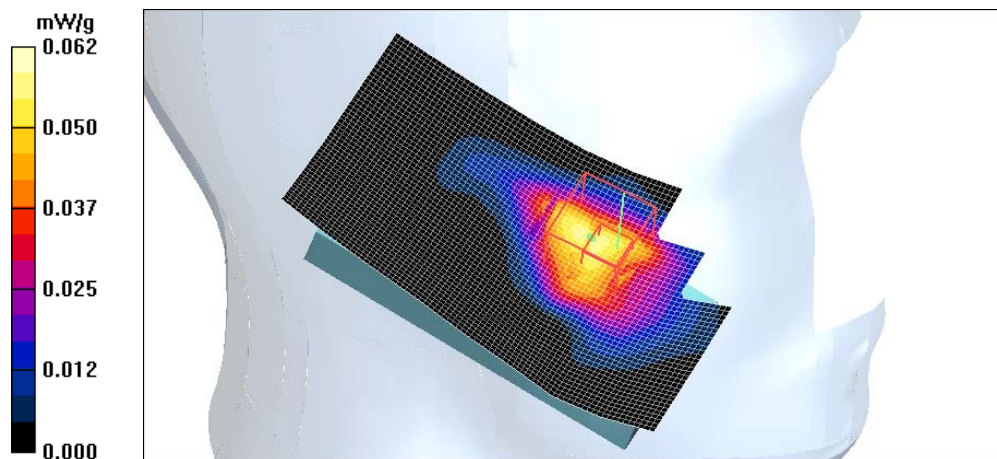
Peak SAR (extrapolated) = 0.175 W/kg

SAR(1 g) = 0.055 mW/g

SAR(10 g) = 0.027 mW/g

Power Drift = 2.24 dB

Maximum value of SAR (measured) = 0.062 mW/g



Date/Time: 2008-10-29 10:15:29

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.57, 4.57, 4.57); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide closed, Camere slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.026 mW/g

Tilt position, Middle, Slide closed, Camere slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 2.42 V/m

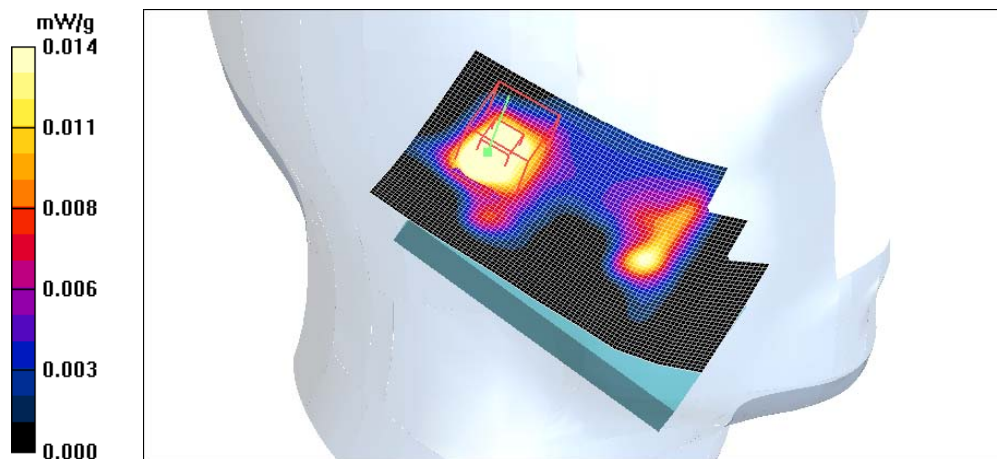
Peak SAR (extrapolated) = 0.025 W/kg

SAR(1 g) = 0.012 mW/g

SAR(10 g) = 0.00479 mW/g

Power Drift = 0.979 dB

Maximum value of SAR (measured) = 0.014 mW/g



Date/Time: 2008-10-29 12:03:43

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2442 \text{ MHz}$; $\sigma = 1.83 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.57, 4.57, 4.57); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.094 mW/g

Cheek position, Middle, Slide closed, Camera 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 = 1.76 V/m

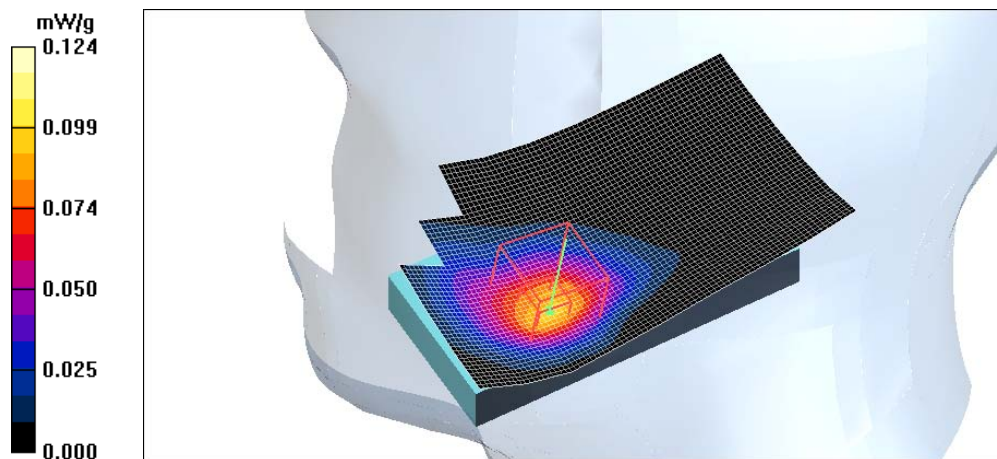
Peak SAR (extrapolated) = 0.220 W/kg

SAR(1 g) = 0.107 mW/g

SAR(10 g) = 0.050 mW/g

Power Drift = 0.174 dB

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



Date/Time: 2008-10-29 12:20:24

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.57, 4.57, 4.57); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide closed, Camera slide closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.021 mW/g

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

Reference Value = 1.89 V/m

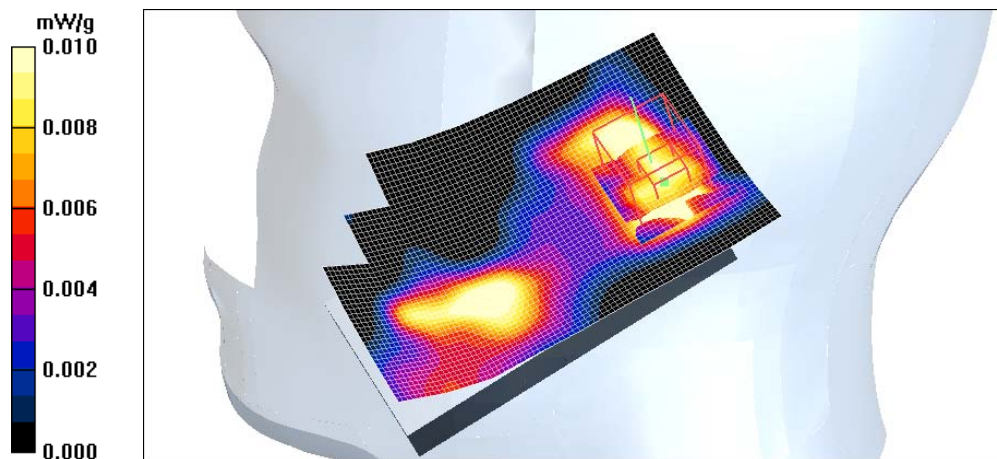
Peak SAR (extrapolated) = 0.034 W/kg

SAR(1 g) = 0.00918 mW/g

SAR(10 g) = 0.00363 mW/g

Power Drift = 2.61 dB

Maximum value of SAR (measured) = 0.010 mW/g



Date/Time: 2008-10-29 10:38:21

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.57, 4.57, 4.57); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.032 mW/g

Cheek position, Middle, Slide open, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 1.16 V/m

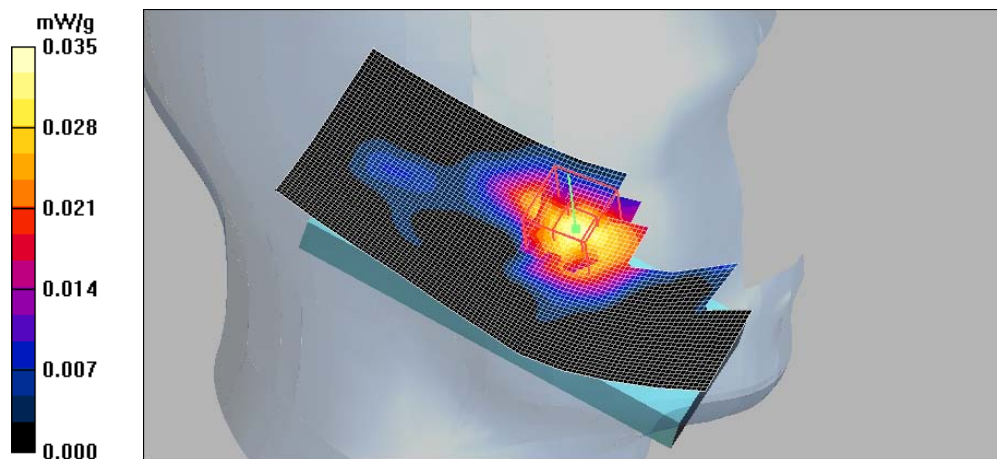
Peak SAR (extrapolated) = 0.137 W/kg

SAR(1 g) = 0.028 mW/g

SAR(10 g) = 0.014 mW/g

Power Drift = 2.96 dB

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



Date/Time: 2008-10-29 10:55:52

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.57, 4.57, 4.57); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.020 mW/g

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

Reference Value = 2.38 V/m

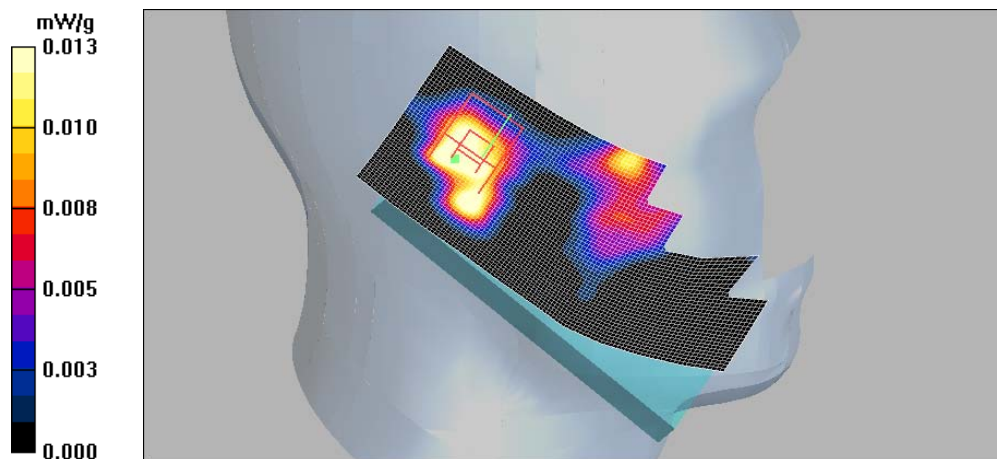
Peak SAR (extrapolated) = 0.024 W/kg

SAR(1 g) = 0.011 mW/g

SAR(10 g) = 0.00554 mW/g

Power Drift = 1.02 dB

Maximum value of SAR (measured) = 0.013 mW/g



Date/Time: 2008-10-29 12:41:51

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.57, 4.57, 4.57); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.072 mW/g

Cheek position, Middle, Slide open, Camera slide closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 1.58 V/m

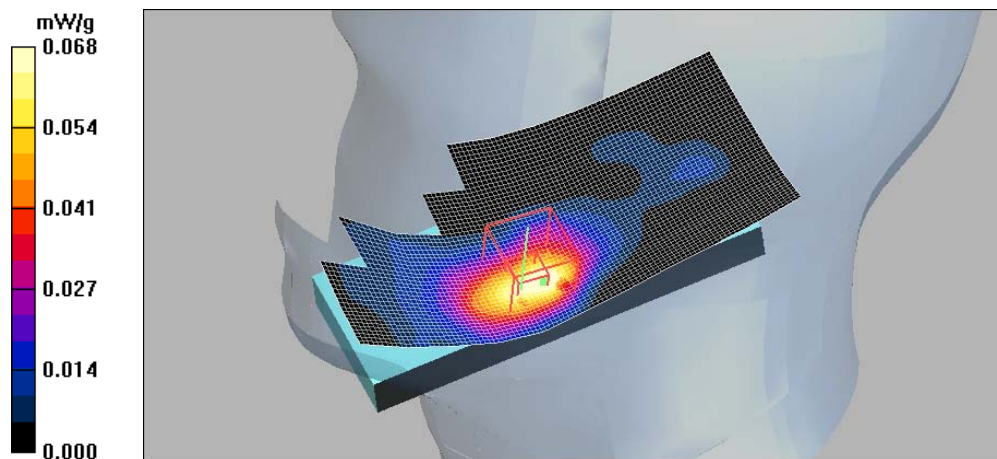
Peak SAR (extrapolated) = 0.120 W/kg

SAR(1 g) = 0.063 mW/g

SAR(10 g) = 0.033 mW/g

Power Drift = 0.383 dB

Maximum value of SAR (measured) = 0.068 mW/g



Date/Time: 2008-10-29 13:07:11

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2442 \text{ MHz}$; $\sigma = 1.83 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.57, 4.57, 4.57); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Tilt position, Middle, Slide open, Camera slide closed/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.031 mW/g

Tilt position, Middle, Slide open, Camera 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 = 2.43 V/m

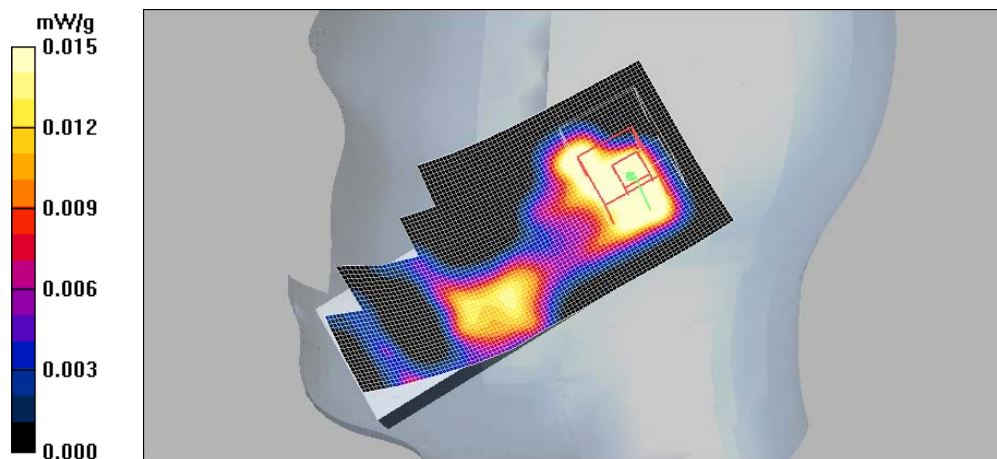
Peak SAR (extrapolated) = 0.018 W/kg

SAR(1 g) = 0.012 mW/g

SAR(10 g) = 0.00636 mW/g

Power Drift = 1.30 dB

Maximum value of SAR (measured) = 0.015 mW/g



Date/Time: 2008-10-29 15:36:57

Test Laboratory: TCC Nokia
Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.57, 4.57, 4.57); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek position, Middle, Slide closed, Camera slide open/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Cheek position, Middle, Slide closed, Camera slide open/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 1.76 V/m

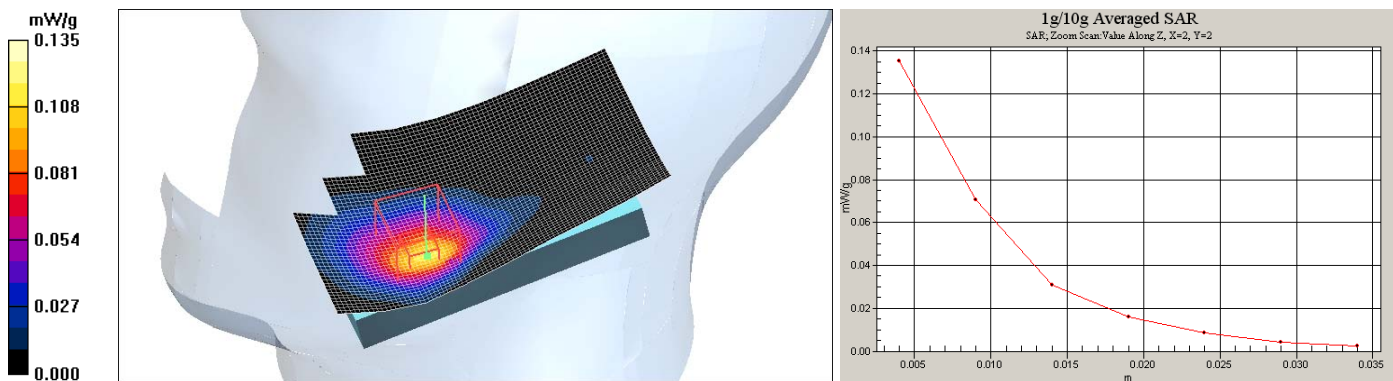
Peak SAR (extrapolated) = 0.235 W/kg

SAR(1 g) = 0.117 mW/g

SAR(10 g) = 0.051 mW/g

Power Drift = 0.585 dB

Maximum value of SAR (measured) = 0.135 mW/g



Date/Time: 2008-10-28 17:25:08

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: BSL900; Medium Notes: 20.0C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.985$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.68, 5.68, 5.68); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Middle, Slide closed, Camera slide closed, No accessory, Display facing phantom/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

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

Body Measurement, Middle, Slide closed, Camera slide closed, No accessory, Display facing phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.45 V/m

Peak SAR (extrapolated) = 0.383 W/kg

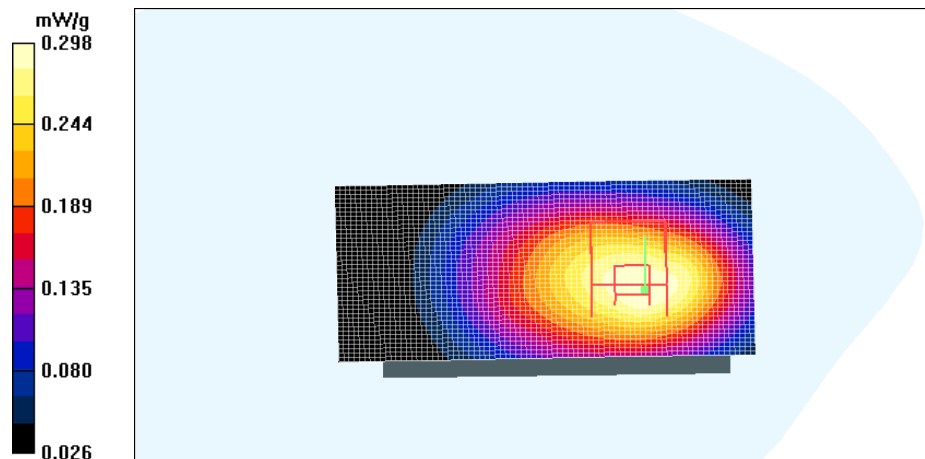
SAR(1 g) = 0.281 mW/g

SAR(10 g) = 0.203 mW/g

Power Drift = 0.168 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) = 0.298 mW/g



Date/Time: 2008-10-28 17:37:50

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: BSL900; Medium Notes: 20.0C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.985$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.68, 5.68, 5.68); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Middle, Slide closed, Camera slide closed,HS-47, Display facing phantom/Area Scan

(41x81x1): Measurement grid: dx=15mm, dy=15mm

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

Body Measurement, Middle, Slide closed, Camera slide closed,HS-47, Display facing phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.44 V/m

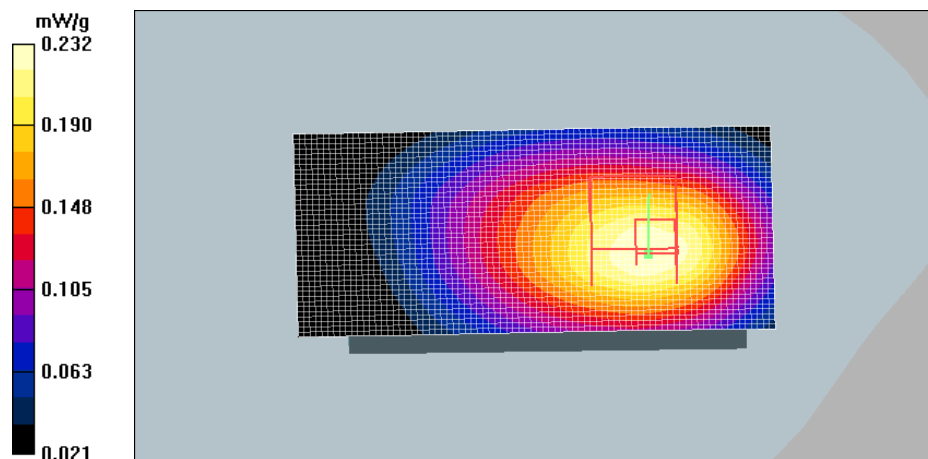
Peak SAR (extrapolated) = 0.302 W/kg

SAR(1 g) = 0.219 mW/g

SAR(10 g) = 0.154 mW/g

Power Drift = 0.218 dB

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



Date/Time: 2008-10-28 18:23:05

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 848.8 MHz; Duty Cycle: 1:4.2

Medium: BSL900; Medium Notes: 20.0C

Medium parameters used: $f = 849$ MHz; $\sigma = 0.993$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.68, 5.68, 5.68); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, High, Slide closed, Camera slide closed, No accessory, Back facing phantom/Area Scan

(41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.716 mW/g

Body Measurement, High, Slide closed, Camera slide closed, No accessory, Back facing phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.63 V/m

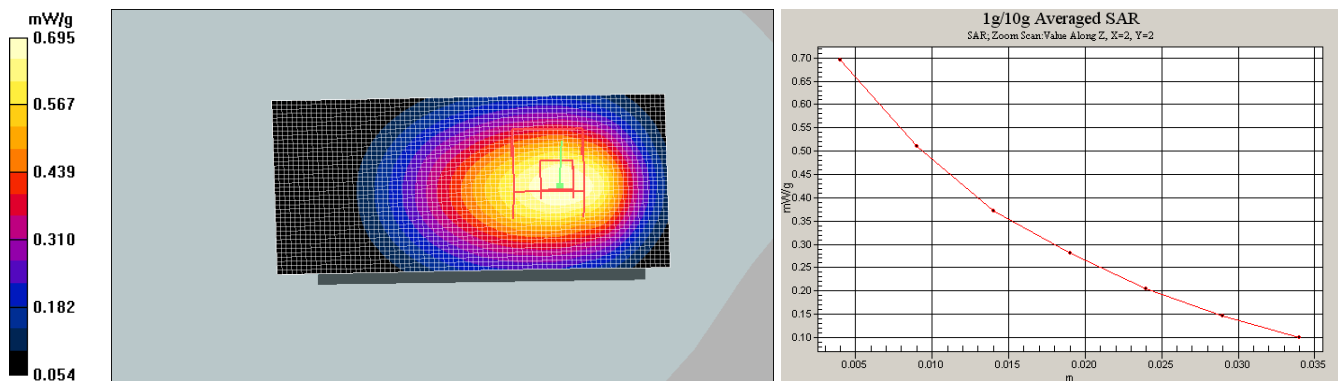
Peak SAR (extrapolated) = 0.887 W/kg

SAR(1 g) = 0.652 mW/g

SAR(10 g) = 0.452 mW/g

Power Drift = -0.237 dB

Maximum value of SAR (measured) = 0.695 mW/g



Date/Time: 2008-10-28 17:50:48

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.2

Medium: BSL900; Medium Notes: 20.0C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.985$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.68, 5.68, 5.68); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Middle, Slide closed, Camera slide closed,HS-47, Back facing phantom/Area Scan

(41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.519 mW/g

Body Measurement, Middle, Slide closed, Camera slide closed,HS-47, Back facing phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.09 V/m

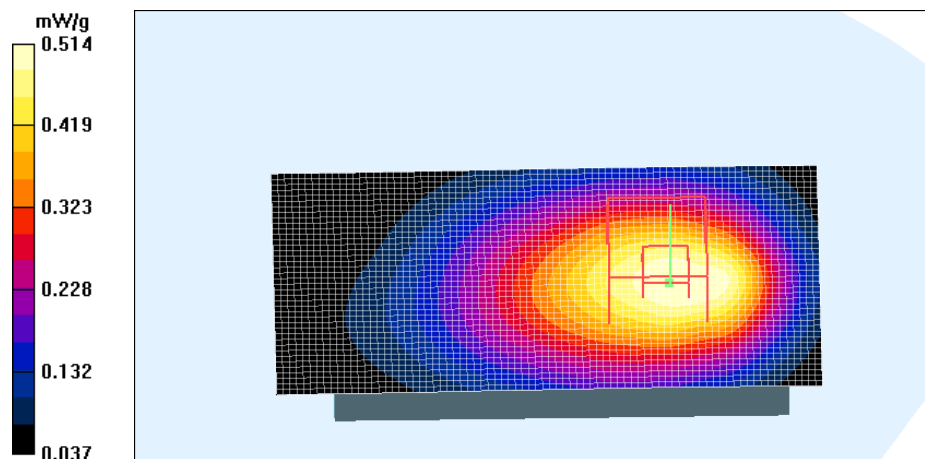
Peak SAR (extrapolated) = 0.649 W/kg

SAR(1 g) = 0.480 mW/g

SAR(10 g) = 0.333 mW/g

Power Drift = -0.043 dB

Maximum value of SAR (measured) = 0.514 mW/g



Date/Time: 2008-10-28 18:39:51

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: 2-slot GPRS850

Frequency: 848.8 MHz; Duty Cycle: 1:4.2

Medium: BSL900; Medium Notes: 20.0C

Medium parameters used: $f = 849$ MHz; $\sigma = 0.993$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.68, 5.68, 5.68); Calibrated: 2008-04-22
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, High, Slide closed, Camera slide closed, No accessory, Back facing phantom, BT/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.700 mW/g

Body Measurement, High, Slide closed, Camera slide closed, No accessory, Back facing phantom, BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.45 V/m

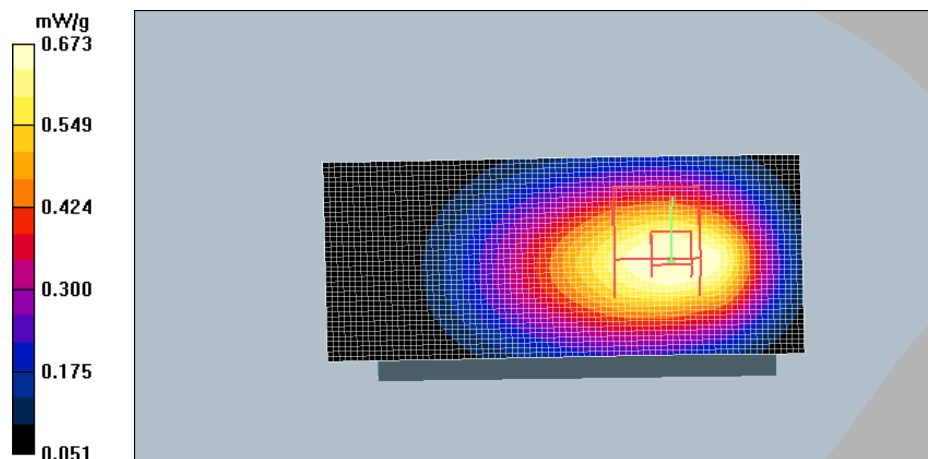
Peak SAR (extrapolated) = 0.862 W/kg

SAR(1 g) = 0.633 mW/g

SAR(10 g) = 0.444 mW/g

Power Drift = 0.075 dB

Maximum value of SAR (measured) = 0.673 mW/g



Date/Time: 2008-10-27 16:48:28

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: BSL1900; Medium Notes: 20.6C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.23, 5.23, 5.23); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Middle, Slide closed, Camera slide closed, No accessory, Display facing phantom/Area Scan

(41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.273 mW/g

Body Measurement, Middle, Slide closed, Camera slide closed, No accessory, Display facing phantom/Zoom

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

Reference Value = 10.8 V/m

Peak SAR (extrapolated) = 0.373 W/kg

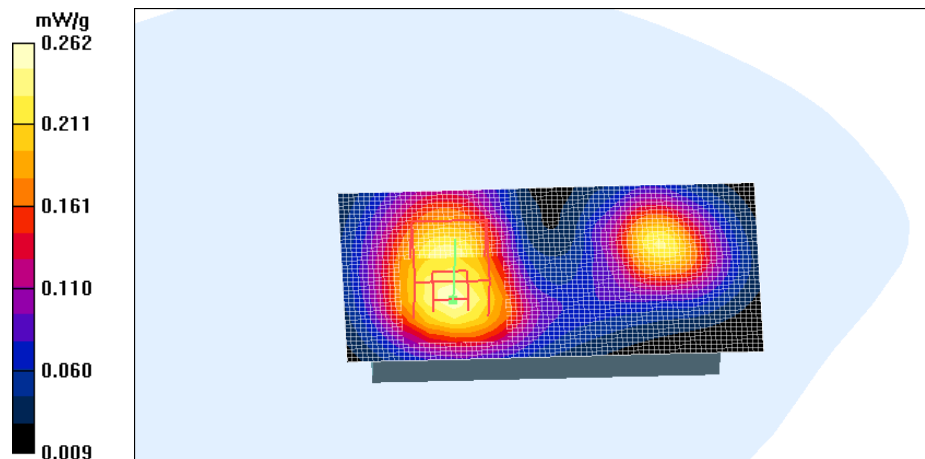
SAR(1 g) = 0.239 mW/g

SAR(10 g) = 0.152 mW/g

Power Drift = 0.012 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) = 0.262 mW/g



Date/Time: 2008-10-27 16:34:39

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: BSL1900; Medium Notes: 20.6C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.23, 5.23, 5.23); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Middle, Slide closed, Camera slide closed, HS-47, Display facing phantom/Area Scan

(41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.218 mW/g

Body Measurement, Middle, Slide closed, Camera slide closed, HS-47, Display facing phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.07 V/m

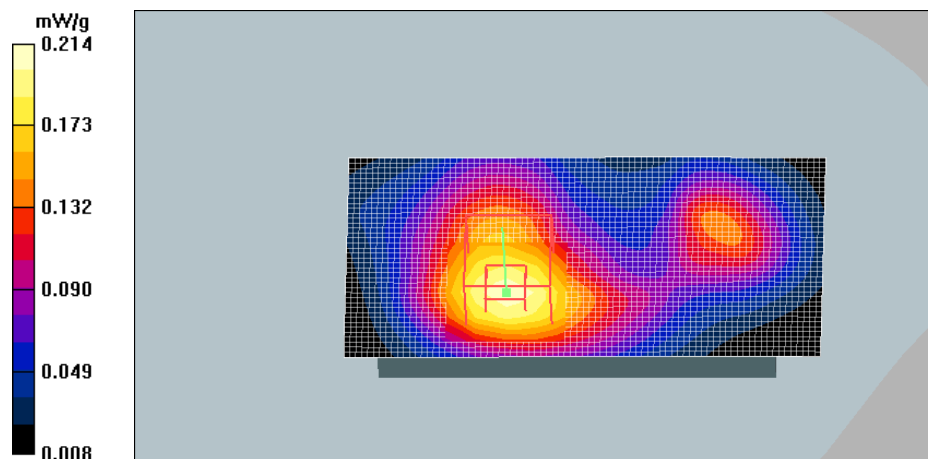
Peak SAR (extrapolated) = 0.311 W/kg

SAR(1 g) = 0.198 mW/g

SAR(10 g) = 0.124 mW/g

Power Drift = -0.013 dB

Maximum value of SAR (measured) = 0.214 mW/g



Date/Time: 2008-10-27 17:17:41

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM1900

Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: BSL1900; Medium Notes: 20.6C

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.23, 5.23, 5.23); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, High, Slide closed, Camera slide closed, No accessory, Back facing phantom/Area Scan

(41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.646 mW/g

Body Measurement, High, Slide closed, Camera slide closed, No accessory, Back facing phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.4 V/m

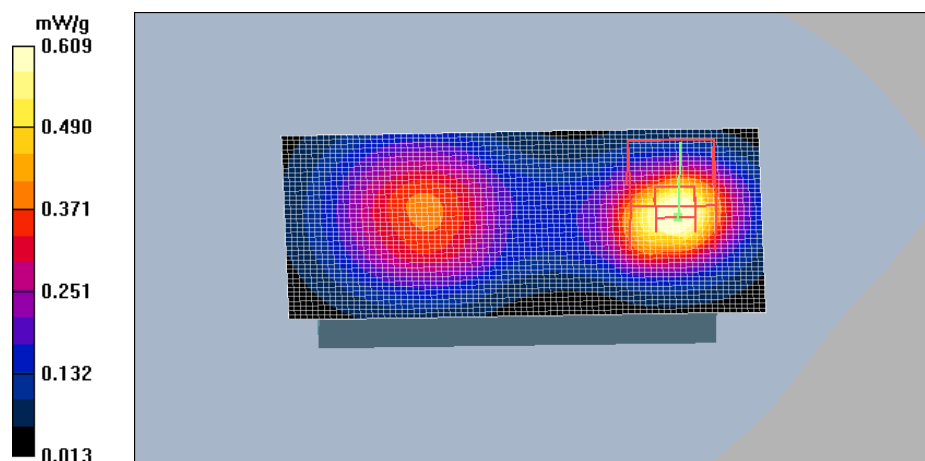
Peak SAR (extrapolated) = 0.990 W/kg

SAR(1 g) = 0.545 mW/g

SAR(10 g) = 0.295 mW/g

Power Drift = -0.032 dB

Maximum value of SAR (measured) = 0.609 mW/g



Date/Time: 2008-10-27 16:20:20

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: BSL1900; Medium Notes: 20.6C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.23, 5.23, 5.23); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Middle, Slide closed, Camera slide closed, HS-47, Back facing phantom/Area Scan

(41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.441 mW/g

Body Measurement, Middle, Slide closed, Camera slide closed, HS-47, Back facing phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.40 V/m

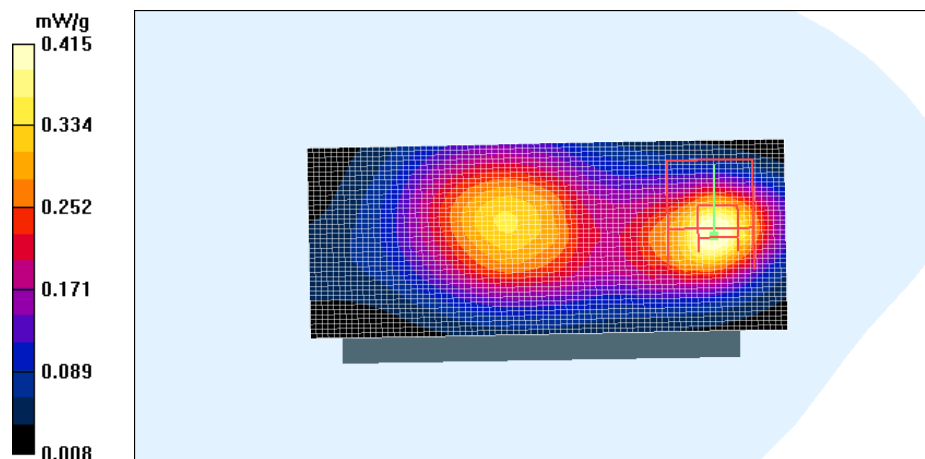
Peak SAR (extrapolated) = 0.675 W/kg

SAR(1 g) = 0.370 mW/g

SAR(10 g) = 0.197 mW/g

Power Drift = 0.033 dB

Maximum value of SAR (measured) = 0.415 mW/g



Date/Time: 2008-10-27 18:03:49

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: BSL1900; Medium Notes: 20.6C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.23, 5.23, 5.23); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Middle, Slide closed, Camera slide closed, No accessory, Display facing phantom/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

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

Body Measurement, Middle, Slide closed, Camera slide closed, No accessory, Display facing phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.9 V/m

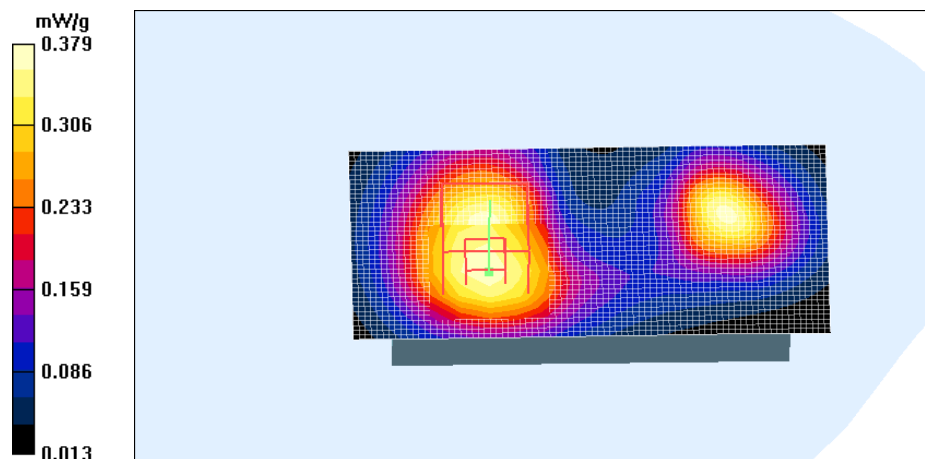
Peak SAR (extrapolated) = 0.534 W/kg

SAR(1 g) = 0.353 mW/g

SAR(10 g) = 0.227 mW/g

Power Drift = -0.191 dB

Maximum value of SAR (measured) = 0.379 mW/g



Date/Time: 2008-10-27 18:17:07

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: BSL1900; Medium Notes: 20.6C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.23, 5.23, 5.23); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Middle, Slide closed, Camera slide closed, HS-47, Display facing phantom/Area Scan

(41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.282 mW/g

Body Measurement, Middle, Slide closed, Camera slide closed, HS-47, Display facing phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.37 V/m

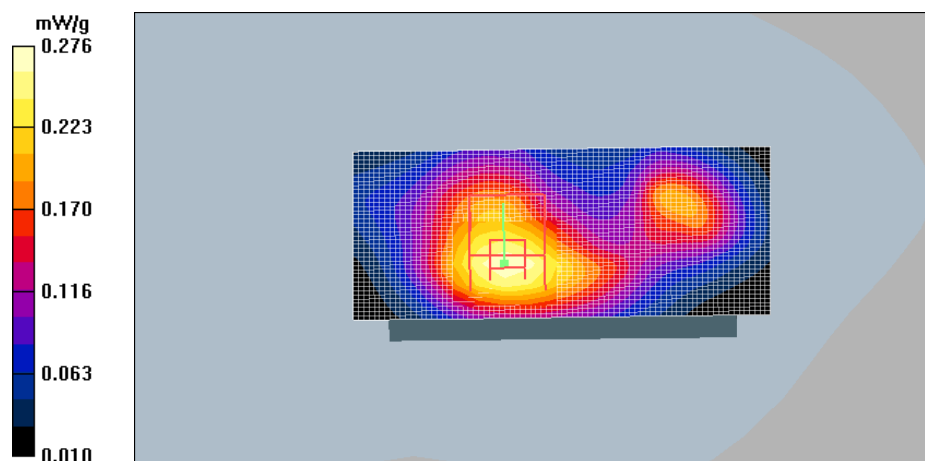
Peak SAR (extrapolated) = 0.397 W/kg

SAR(1 g) = 0.256 mW/g

SAR(10 g) = 0.161 mW/g

Power Drift = -0.032 dB

Maximum value of SAR (measured) = 0.276 mW/g



Date/Time: 2008-10-27 19:32:46

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: BSL1900; Medium Notes: 20.6C

Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.23, 5.23, 5.23); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, High, Slide closed, Camera slide closed, No accessory, Back facing phantom/Area Scan

(41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.994 mW/g

Body Measurement, High, Slide closed, Camera slide closed, No accessory, 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 = 14.0 V/m

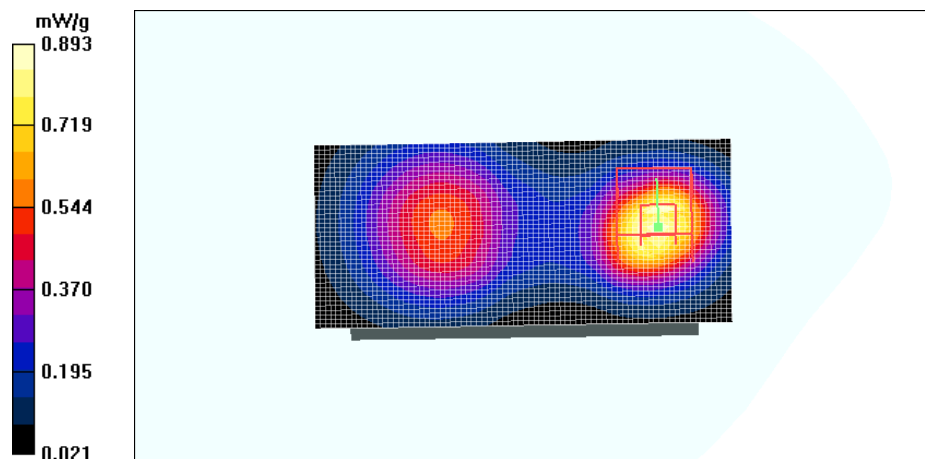
Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.811 mW/g

SAR(10 g) = 0.443 mW/g

Power Drift = -0.050 dB

Maximum value of SAR (measured) = 0.893 mW/g



Date/Time: 2008-10-27 18:41:38

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: BSL1900; Medium Notes: 20.6C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.23, 5.23, 5.23); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Middle, Slide closed, Camera slide closed, HS-47, Back facing phantom/Area Scan

(41x81x1): Measurement grid: dx=15mm, dy=15mm

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

Body Measurement, Middle, Slide closed, Camera slide closed, HS-47, Back facing phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.9 V/m

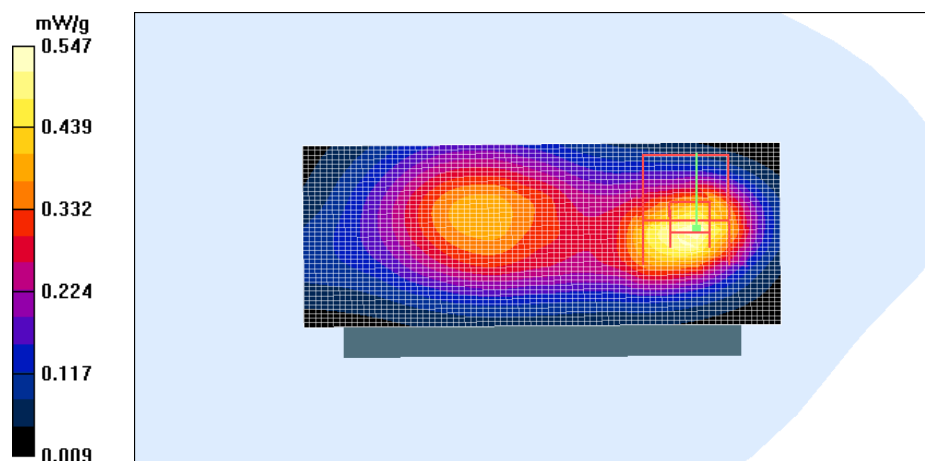
Peak SAR (extrapolated) = 0.900 W/kg

SAR(1 g) = 0.497 mW/g

SAR(10 g) = 0.270 mW/g

Power Drift = 0.076 dB

Maximum value of SAR (measured) = 0.547 mW/g



Date/Time: 2008-10-27 20:22:24

Test Laboratory: TCC Nokia
Type: RM-368; Serial: 004401/10/209994/8

Communication System: WCDMA1900

Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: BSL1900; Medium Notes: 20.6C

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(5.23, 5.23, 5.23); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, High, Slide closed, Camera slide closed, No accessory, Back facing phantom, BT/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.02 mW/g

Body Measurement, High, Slide closed, Camera slide closed, No accessory, Back facing phantom, BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 14.3 V/m

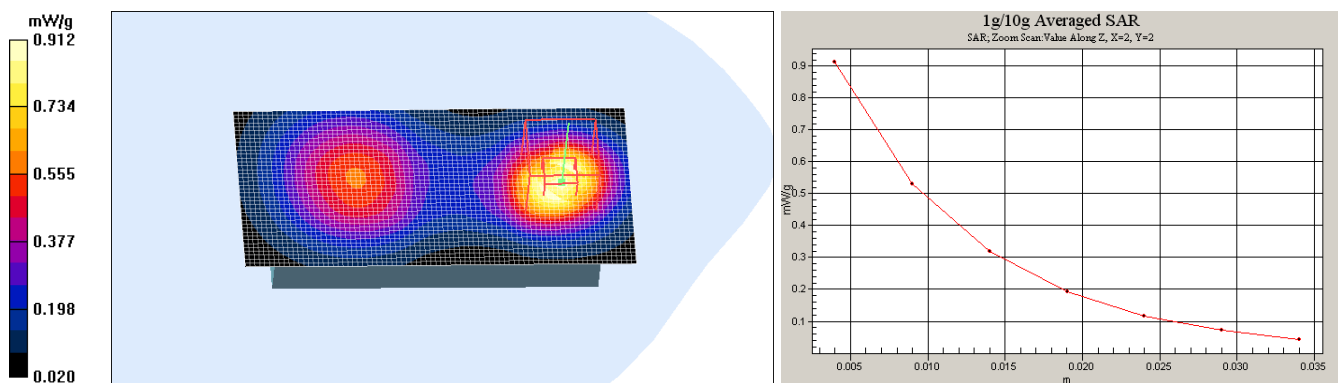
Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.823 mW/g

SAR(10 g) = 0.449 mW/g

Power Drift = -0.181 dB

Maximum value of SAR (measured) = 0.912 mW/g



Date/Time: 2008-10-30 12:03:17

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.24, 4.24, 4.24); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Middle, Slide closed, Camera slide closed, No accessory, Display facing phantom/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.028 mW/g

Body Measurement, Middle, Slide closed, Camera slide closed, No accessory, Display facing phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.79 V/m

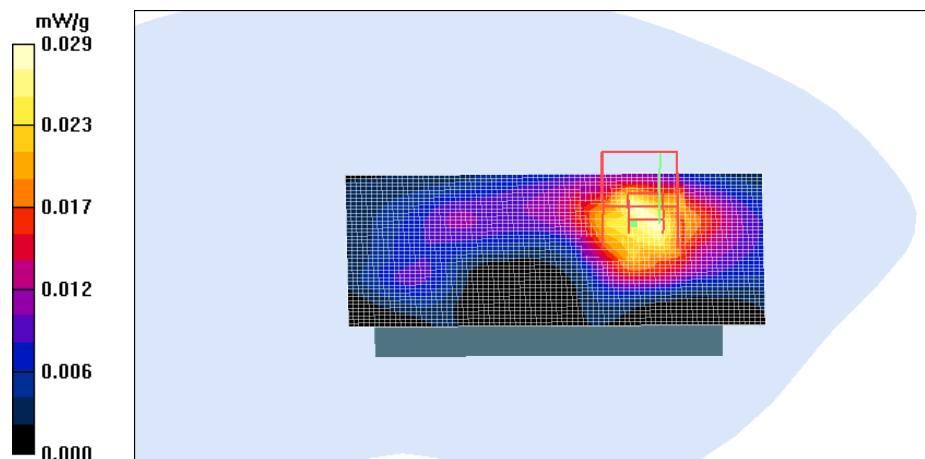
Peak SAR (extrapolated) = 0.043 W/kg

SAR(1 g) = 0.025 mW/g

SAR(10 g) = 0.013 mW/g

Power Drift = 2.18 dB

Maximum value of SAR (measured) = 0.029 mW/g



Date/Time: 2008-10-30 12:16:20

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.24, 4.24, 4.24); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Middle, Slide closed, Camera slide closed, HS-47, Display facing phantom/Area Scan

(41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.026 mW/g

Body Measurement, Middle, Slide closed, Camera slide closed, HS-47, Display facing phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.59 V/m

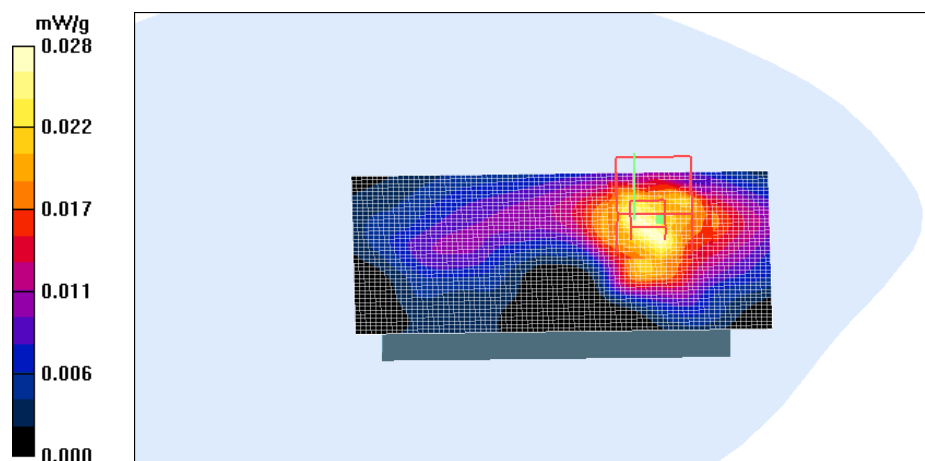
Peak SAR (extrapolated) = 0.040 W/kg

SAR(1 g) = 0.024 mW/g

SAR(10 g) = 0.012 mW/g

Power Drift = 1.49 dB

Maximum value of SAR (measured) = 0.028 mW/g



Date/Time: 2008-10-30 13:40:07

Test Laboratory: TCC Nokia
Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.24, 4.24, 4.24); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Low, Slide closed, Camera slide closed, No accessory, Back facing phantom/Area Scan

(41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.050 mW/g

Body Measurement, Low, Slide closed, Camera slide closed, No accessory, Back facing phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.94 V/m

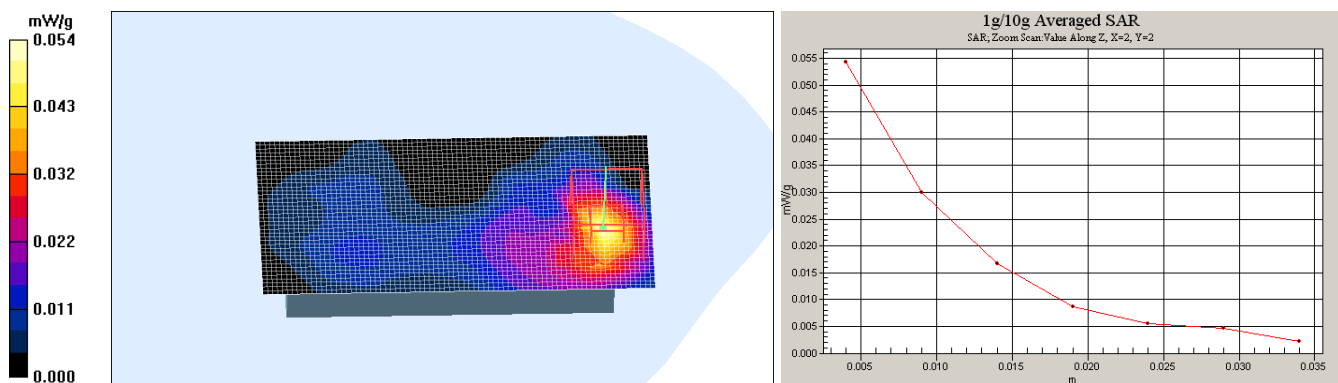
Peak SAR (extrapolated) = 0.076 W/kg

SAR(1 g) = 0.043 mW/g

SAR(10 g) = 0.020 mW/g

Power Drift = 1.09 dB

Maximum value of SAR (measured) = 0.054 mW/g



Date/Time: 2008-10-30 12:32:02

Test Laboratory: TCC Nokia

Type: RM-368; Serial: 004401/10/209994/8

Communication System: WLAN2450

Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: 20.6C

Medium parameters used: $f = 2442$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(4.24, 4.24, 4.24); Calibrated: 2008-04-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2008-04-30
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body Measurement, Middle, Slide closed, Camera slide closed, HS-47, Back facing phantom/Area Scan

(41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.033 mW/g

Body Measurement, Middle, Slide closed, Camera slide closed, HS-47, Back facing phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.71 V/m

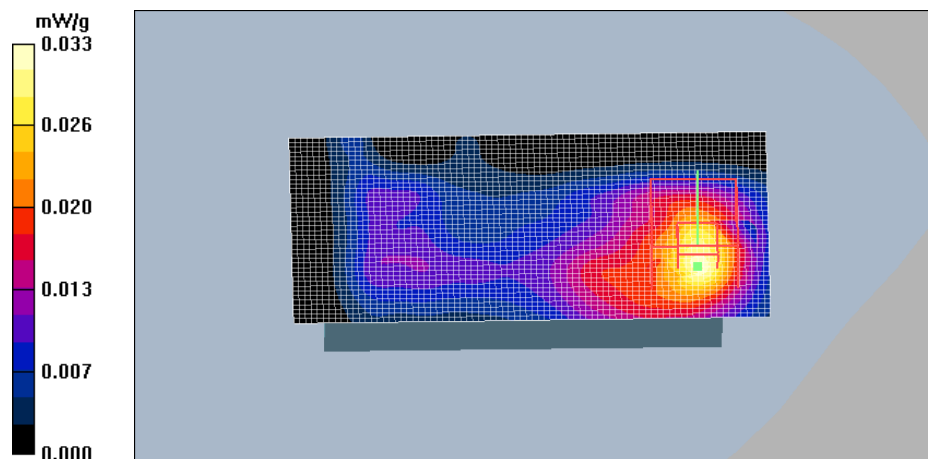
Peak SAR (extrapolated) = 0.051 W/kg

SAR(1 g) = 0.029 mW/g

SAR(10 g) = 0.014 mW/g

Power Drift = 1.23 dB

Maximum value of SAR (measured) = 0.033 mW/g



APPENDIX C: CONDUCTED AVERAGE POWER MEASUREMENTS FOR WCDMA AND HSUPA

Test Laboratory: TCC Nokia

Type: RM-424; Serial: 351929/03/000320/1

C.1. WCDMA1900 Test results

Average power

Ch / f [MHz]	P [dBm]
9263 / 1852.6	22.12
9400 / 1880.0	22.02
9537 / 1907.4	22.14

C.2. HSUPA1900 Test results

Average power

Ch / f [MHz]	P [dBm]				
	Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
9263 / 1852.6	19.21	19.00	19.91	18.96	19.27
9400 / 1880.0	18.99	18.78	19.95	18.74	19.01
9537 / 1907.4	18.89	18.94	19.89	18.95	18.96