

SAR Compliance Test Report

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Testing laboratory:	TCC Nokia San Diego Laboratory 12278 Scripps Summit Drive SAN DIEGO CA. 92131 USA Tel. +1 858 831 5000 Fax. +1 858 831 6500	Client:	Nokia Corporation 12278 Scripps Summit Drive SAN DIEGO CA. 92131 USA Tel. +1 858 831 5000 Fax. +1 858 831 6500
Responsible test engineer:	Jose Gomez	Product contact person:	Mary Washington
Measurements made by:	Jose Gomez, Julian Kim		
Tested device:	RM-383		
FCC ID:	QMNRM-383	IC:	661X-RM383
Supplement reports:	SD_SAR_0810_02		
Testing has been carried out in accordance with:	47CFR §2.1093 Radiofrequency Radiation Exposure Evaluation: Portable Devices FCC OET Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01) Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields RSS-102 Evaluation Procedure for Mobile and Portable Radio Transmitters with Respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields IEEE 1528 - 2003 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Technique		
Documentation:	The documentation of the testing performed on the tested devices is archived for 15 years at TCC San Diego.		
Test results:	The tested device complies with the requirements in respect of all parameters subject to the test. The test results and statements relate only to the items tested. The test report shall not be reproduced except in full, without written approval of the laboratory.		
Date and signatures:			
For the contents:	Jose Gomez Certification Test Engineer		2008-03-07

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1. SUMMARY OF SAR TEST REPORT

1.1 Test Details

Period of test	2008-02-21 to 2008-03-07
SN, HW and SW numbers of tested device	SN: A00000011E961C, HW: 3500, SW: DR_3015T_VZW, DUT: 3073
Batteries used in testing	BL-4C, DUT: 3074, 3075 BL-6C, DUT: 3076, 3077
Headsets used in testing	HS-9, DUT: 3071
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
CDMA 800	777 / 848.31	24.41dBm ERP	Right, Cheek	0.962W/kg	1.08W/kg	1.6 W/kg	PASSED
CDMA 1900	25 / 1851.25	24.01dBm EIRP	Right, Cheek	0.921W/kg	1.03W/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
CDMA 800	1013 / 824.70	24.57dBm ERP	2.2cm	0.438W/kg	0.49W/kg	1.6 W/kg	PASSED
CDMA 1900	1175 / 1908.75	23.54dBm EIRP	2.2cm	0.311W/kg	0.35W/kg	1.6 W/kg	PASSED

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

1.2.3 Maximum Drift

Maximum drift covered by 12% scaling up of the SAR values	Maximum drift during measurements
0.5dB	0.34dB

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)
CDMA	800 1900	QPSK	1	824 – 849 1850 – 1910
BT	2450	GFSK	1	2402 – 2480

This is a CDMA2000 1x RTT and 1x EV-DO RevA device.

2.1 Description of the Antenna

The device has internal antennas.

3. TEST CONDITIONS

3.1 Temperature and Humidity

Ambient temperature (°C):	19.9 to 21.9
Ambient humidity (RH %):	34 to 48

3.2 Test Signal, Frequencies and Output Power

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

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

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

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

4. DESCRIPTION OF THE TEST EQUIPMENT

4.1 Measurement System and Components

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

The following table lists calibration dates of SPEAG components:

Test Equipment	Serial Number	Calibration interval	Calibration expiry
DAE 4	604	12 months	2008-08
DAE 3	377	12 months	2008-05
E-field Probe ET3DV6	1504	12 months	2008-08
E-field Probe ET3DV6	1505	12 months	2008-08
Dipole Validation Kit, D835V2	487	24 months	2008-11
Dipole Validation Kit, D1900V2	534	24 months	2008-09
DASY Software	Version 4.7	-	-

Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration interval	Calibration expiry
Signal Generator	HP E4432B	US 40052231	24 months	2008-05
Signal Generator	HP E4432B	US 39260114	24 months	2008-06
Amplifier	Milmega AS0825-20L	1009777	-	-
Amplifier	Comtech PST AR8829-5	N2S7A00-1011	-	-
Power Meter	Agilent E4416A	GB41291842	12 months	2008-04
Power Meter	Agilent E4419B	GB39290694	12 months	2008-11
Power Sensor	Agilent E	US39210503	12 months	2008-07
Power Sensor	Agilent E9327A	US40411295	12 months	2008-04
Power Sensor	Agilent E9301A	MY41495224	12 months	2008-04
Call Tester	Agilent 8960	GB41070261	-	-
Call Tester	Agilent 8960	GB44350217	-	-
Call Tester	CMU 200	837727/071	-	-
Call Tester	CMU 200	837727/008	-	-
Vector Network Analyzer	Agilent 8753ES	US39174327	12 months	2008-05
Dielectric Probe Kit	Agilent 85070D	US01440165	-	-

4.1.1 Isotropic E-field Probe Type ET3DV6

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., butyl diglycol)
Calibration	Calibration certificate in Appendix C
Frequency	10 MHz to 3 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 3 GHz)
Optical Surface Detection	± 0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic Range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB

Dimensions	Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm
Application	Distance from probe tip to dipole centers: 2.7 mm General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

4.2 Phantoms

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

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

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

4.3 Tissue Simulants

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

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

4.3.1 Tissue Simulant Recipes

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

800MHz band		
Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	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

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	42.3	0.90	
	± 10% window	2.06 – 2.52			
	2008-02-25	2.21	40.2	0.88	21.0
1900	Reference result	9.38	38.6	1.41	
	± 10% window	8.44 – 10.32			
	2008-02-21	9.37	39.6	1.46	19.9
	2008-02-22	9.38	39.4	1.46	20.3

System checking, body tissue simulant

f [MHz]	Description	SAR [W/kg], 1g	Dielectric Parameters		Temp [°C]
			ϵ_r	σ [S/m]	
835	Reference result	2.44	53.7	0.99	
	$\pm 10\%$ window	2.20 – 2.68			
	2008-02-27	2.41	54.1	0.99	21.6
	2008-03-06	2.26	53.9	0.99	21.1
1900	Reference result	10.1	52.6	1.56	
	$\pm 10\%$ window	9.1 – 11.1			
	2008-02-28	9.29	52.2	1.54	20.6
	2008-03-07	9.47	52.1	1.56	20.8

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	
	2008-02-25	40.2	0.89	20.2
1880	Recommended value	40.0	1.40	
	$\pm 5\%$ window	38.0 – 42.0	1.33 – 1.47	
	2008-02-21	39.8	1.44	19.9
	2008-02-22	39.5	1.44	20.3

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	
	2008-02-27	54.1	0.99	21.6
	2008-03-06	53.9	0.99	21.1
1880	Recommended value	53.3	1.52	
	$\pm 5\%$ window	50.6 – 56.0	1.44 – 1.60	
	2008-02-28	52.3	1.52	20.6
	2008-03-07	52.3	1.55	20.8

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:

CDMA800 Head SAR results

Battery used	Option used	Test configuration		SAR, averaged over 1g (W/kg)		
				Ch 1013 824.70 MHz	Ch 384 836.52 MHz	Ch 777 848.31 MHz
RC3 / S055		Power		24.75dBm	24.47dBm	24.41dBm
BL-4C	Flip Open	Left	Cheek	-	0.706	-
			Tilt	-	0.410	-
		Right	Cheek	0.838	0.818	0.932
			Tilt	-	0.411	-
BL-6C	Flip Open	Right Cheek		0.807	0.812	0.962
BL-6C	Flip Open	Right Cheek, BT active		-	-	0.835

CDMA1900 Head SAR results

Battery used	Option used	Test configuration		SAR, averaged over 1g (W/kg)		
				Ch25 1851.25MHz	Ch600 1880.00MHz	Ch1175 1908.75MHz
RC3 / S055		Power		24.01dBm	23.60dBm	23.55dBm
BL-4C	Flip Open	Left	Cheek	-	0.369	-
			Tilt	-	0.251	-
		Right	Cheek	0.921	0.767	0.861
			Tilt	-	0.197	-
BL-6C	Flip Open	Right Cheek		0.885	0.719	0.914
BL-4C	Flip Open	Right Cheek, BT Active		0.900	-	-

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

CDMA800 Body SAR results

Battery used	Option used	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 1013 824.70 MHz	Ch 384 836.52 MHz	Ch 777 848.31 MHz
RTAP 153.6kbps		Power	24.57dBm	24.50dBm	24.48dBm
BL-4C	Flip Closed, Antenna facing phantom	Without headset	0.421	0.333	0.399
		Headset HS-9	0.349	0.287	0.305
BL-4C	Flip Closed, Display facing phantom	Without headset	-	0.235	-
		Headset HS-9	-	0.186	-
BL-6C	Flip Closed, Antenna facing phantom	Without headset	0.339	0.301	0.291
BL-4C	Flip Closed, Antenna facing phantom	Without headset, BT Active	0.438	-	-
RETAP 12288bits		Power	24.88dBm	24.76dBm	24.68dBm
BL-4C	Flip Closed, Antenna facing phantom	Without headset	0.397	-	-
		Headset HS-9	0.312	-	-
BL-6C	Flip Closed, Antenna facing phantom	Without headset	0.311	-	-
BL-4C	Flip Closed, Antenna facing phantom	Without headset, BT Active	0.373	-	-

CDMA1900 Body SAR results

Battery used	Option used	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch25 1851.25MHz	Ch600 1880.00MHz	Ch1175 1908.75MHz
RC3/S055		Power	24.01dBm	23.60dBm	23.55dBm
BL-4C	Flip Closed, Antenna facing phantom	Without headset	0.262	0.278	0.300
		Headset HS-9	0.310	0.260	0.295
BL-4C	Flip Closed, Display facing phantom	Without headset	-	0.181	-
		Headset HS-9	-	0.177	-
BL-6C	Flip Closed, Antenna facing phantom	Headset HS-9	0.234	-	-
BL-4C	Flip Closed, Antenna facing phantom	Headset HS-9, BT Active	0.295	-	-
RTAP 153.6kbps		Power	23.51dBm	23.53dBm	23.54dBm
BL-4C	Flip Closed, Antenna facing phantom	Without headset	0.292	0.256	0.311
		Headset HS-9	0.298	0.269	0.274
BL-4C	Flip Closed, Display facing phantom	Without headset	-	0.200	-
		Headset HS-9	-	0.178	-
BL-6C	Flip Closed, Antenna facing phantom	Headset HS-9	0.224	0.208	0.232
BL-4C	Flip Closed, Antenna facing phantom	Without headset, BT Active	-	-	0.301
RETAP 12288bits		Power	24.39dBm	23.98dBm	23.99dBm
BL-4C	Flip Closed, Antenna facing phantom	Without headset	0.241	-	-
		Headset HS-9	0.253	-	-
BL-6C	Flip Closed, Antenna facing phantom	Headset HS-9	0.192	-	-
BL-4C	Flip Closed, Antenna facing phantom	Headset HS-9, BT Active	0.240	-	-

Plots of the Measurement scans are given in Appendix B.

APPENDIX A: SYSTEM CHECKING SCANS

Date/Time: 2008-02-25 11:04:52

Test Laboratory: TCC Nokia

Type: D835V2; Serial: 487

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium Notes: T=21.0 C

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.882 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.86, 6.86, 6.86); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM1; Type: Twin Phantom; Serial: TP-1035
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

System Check/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 2.39 mW/g

System Check/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 53.3 V/m

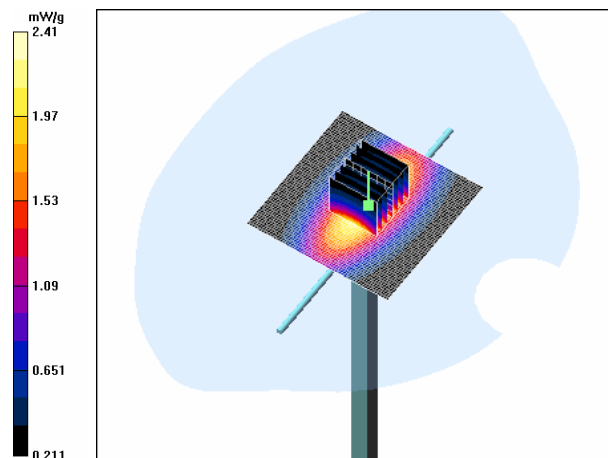
Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 2.21 mW/g

SAR(10 g) = 1.44 mW/g

Power Drift = -0.034 dB

Maximum value of SAR (measured) = 2.41 mW/g



Date/Time: 2008-02-21 10:28:56

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: 534

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=19.9C

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(5.09, 5.09, 5.09); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 2 ; Type: Twin Phantom; Serial: NMP03309
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

System Check/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.4 mW/g

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

Reference Value = 91.1 V/m

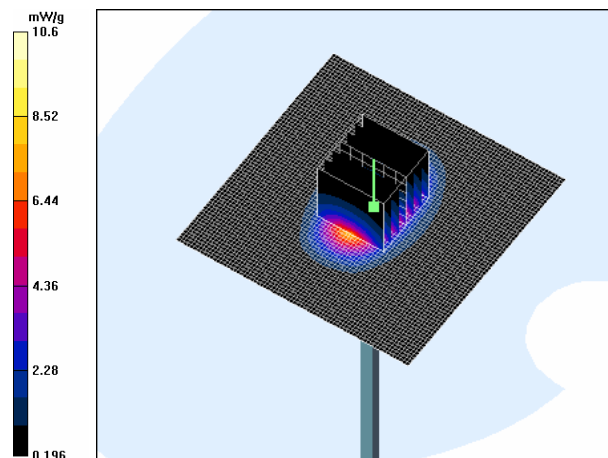
Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 9.37 mW/g

SAR(10 g) = 4.95 mW/g

Power Drift = 0.022 dB

Maximum value of SAR (measured) = 10.6 mW/g



Date/Time: 2008-02-22 11:55:23

Test Laboratory: TCC Nokia

Type: D1900V2; Serial:534

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=20.3C

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(5.09, 5.09, 5.09); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 2 ; Type: Twin Phantom; Serial: NMP03309
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

System Check/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 90.2 V/m

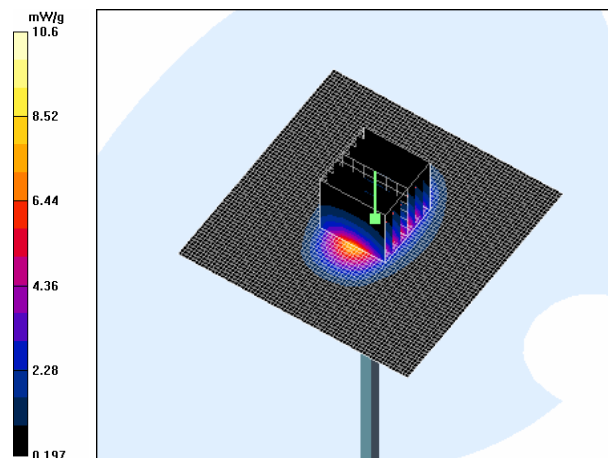
Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 9.38 mW/g

SAR(10 g) = 4.95 mW/g

Power Drift = -0.029 dB

Maximum value of SAR (measured) = 10.6 mW/g



Date/Time: 2008-02-27 10:36:16

Test Laboratory: TCC Nokia

Type: D835V2; Serial:487

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=21.6 C

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.988 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.49, 6.49, 6.49); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

System Check/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

System Check/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.3 V/m

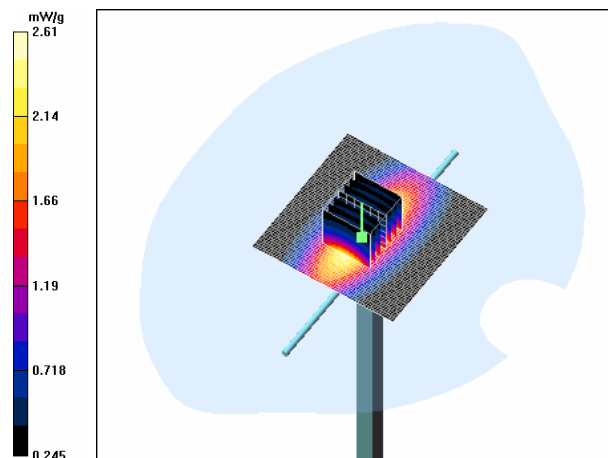
Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 2.41 mW/g

SAR(10 g) = 1.58 mW/g

Power Drift = 0.106 dB

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



Date/Time: 2008-03-06 14:32:34

Test Laboratory: TCC Nokia

Type: D835V2; Serial:487

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=21.1 C

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.986 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.49, 6.49, 6.49); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

System check/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.46 mW/g

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

Reference Value = 52.4 V/m

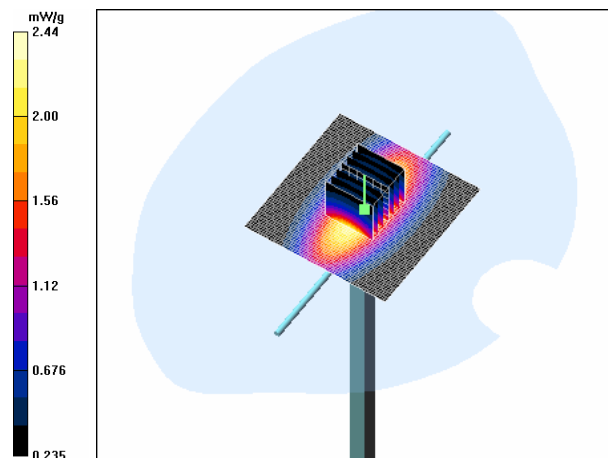
Peak SAR (extrapolated) = 3.22 W/kg

SAR(1 g) = 2.26 mW/g

SAR(10 g) = 1.49 mW/g

Power Drift = 0.029 dB

Maximum value of SAR (measured) = 2.44 mW/g



Date/Time: 2008-02-28 10:06:02

Test Laboratory: TCC Nokia

Type: D1900V2; Serial:534

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=20.6 C

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

System Check/Area Scan (61x61x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 10.9 mW/g

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

Reference Value = 81.1 V/m

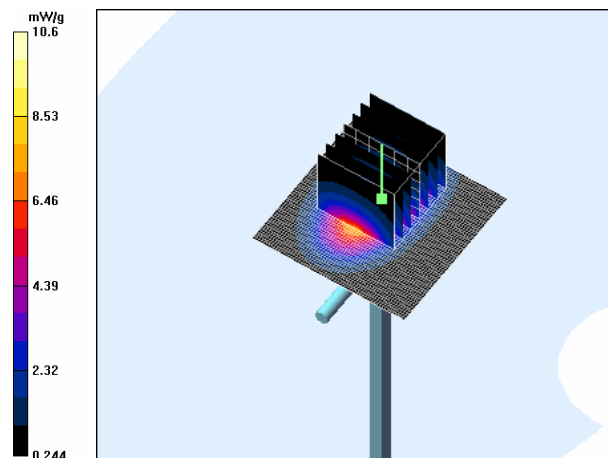
Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 9.29 mW/g

SAR(10 g) = 4.98 mW/g

Power Drift = -0.007 dB

Maximum value of SAR (measured) = 10.6 mW/g



Date/Time: 2008-03-07 11:21:13

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: 534

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=20.8 C

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

System Check/Area Scan (61x61x1): Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 83.9 V/m

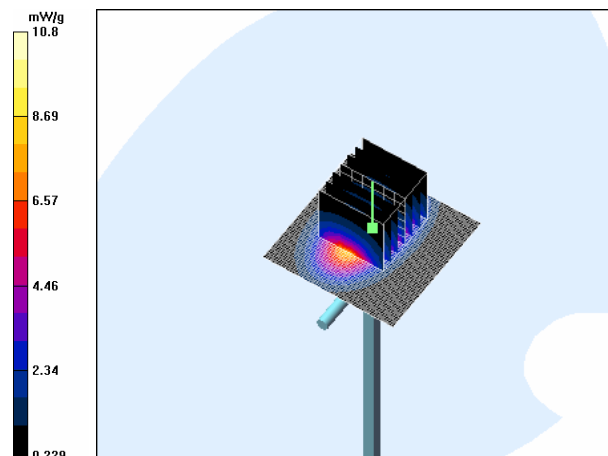
Peak SAR (extrapolated) = 15.8 W/kg

SAR(1 g) = 9.47 mW/g

SAR(10 g) = 5.08 mW/g

Power Drift = -0.037 dB

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



APPENDIX B: MEASUREMENT SCANS

Date/Time: 2008-02-25 13:43:41

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: HSL850; Medium Notes: T=21.0 C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.885$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.86, 6.86, 6.86); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM1; Type: Twin Phantom; Serial: TP-1035
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek, Middle, Flip open, BL-4C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.784 mW/g

Cheek, Middle, Flip open, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.57 V/m

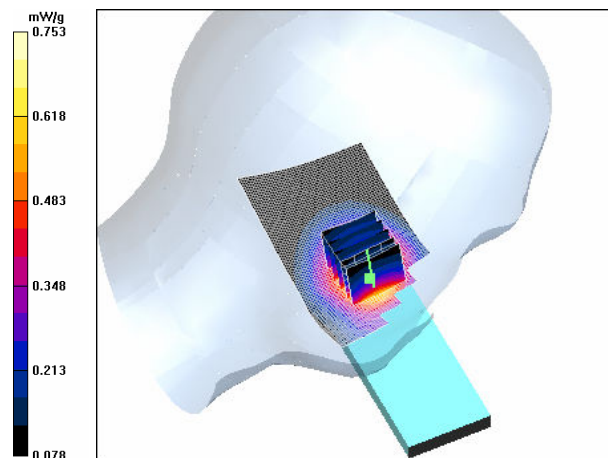
Peak SAR (extrapolated) = 0.968 W/kg

SAR(1 g) = 0.706 mW/g

SAR(10 g) = 0.505 mW/g

Power Drift = 0.089 dB

Maximum value of SAR (measured) = 0.753 mW/g



Date/Time: 2008-02-25 13:58:03

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: HSL850; Medium Notes: T=21.0 C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.885$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.86, 6.86, 6.86); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM1; Type: Twin Phantom; Serial: TP-1035
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt, Middle, Flip open, BL-4C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.433 mW/g

Tilt, Middle, Flip open, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.0 V/m

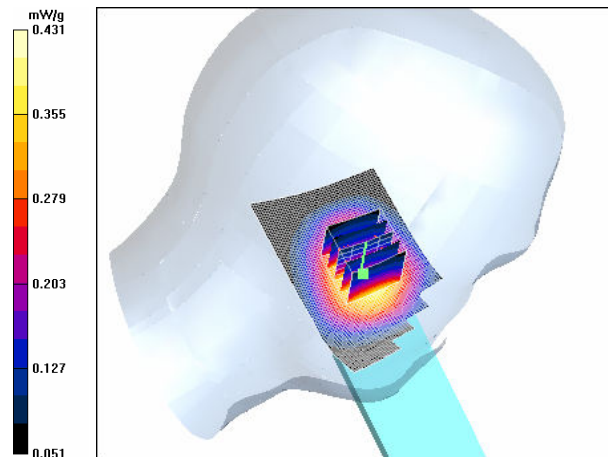
Peak SAR (extrapolated) = 0.523 W/kg

SAR(1 g) = 0.410 mW/g

SAR(10 g) = 0.305 mW/g

Power Drift = -0.157 dB

Maximum value of SAR (measured) = 0.431 mW/g



Date/Time: 2008-02-25 14:56:28

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: HSL850; Medium Notes: T=21.0 C

Medium parameters used (interpolated): $f = 848.31$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.86, 6.86, 6.86); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM1; Type: Twin Phantom; Serial: TP-1035
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek, High, Flip open, BL-4C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.951 mW/g

Cheek, High, Flip open, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.53 V/m

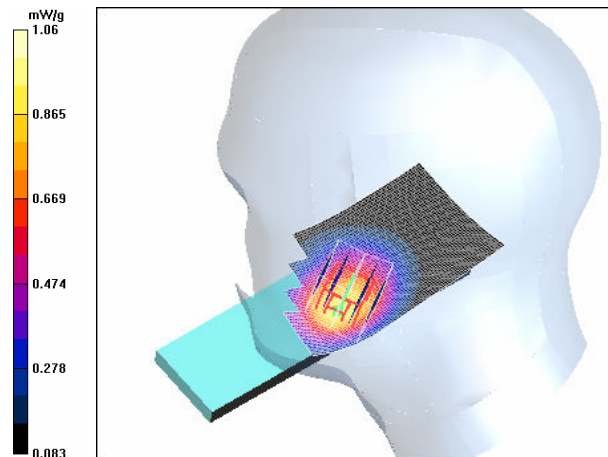
Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.932 mW/g

SAR(10 g) = 0.585 mW/g

Power Drift = 0.267 dB

Maximum value of SAR (measured) = 1.06 mW/g



Date/Time: 2008-02-25 14:28:06

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: HSL850; Medium Notes: T=21.0 C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.885$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.86, 6.86, 6.86); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM1; Type: Twin Phantom; Serial: TP-1035
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt, Middle, Flip open, BL-4C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.434 mW/g

Tilt, Middle, Flip open, BL-4C /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.5 V/m

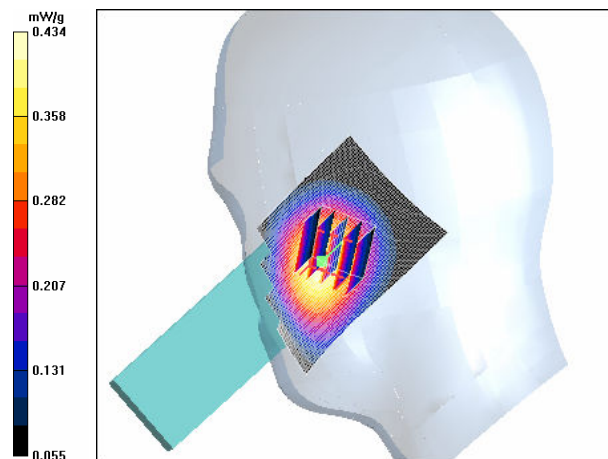
Peak SAR (extrapolated) = 0.511 W/kg

SAR(1 g) = 0.411 mW/g

SAR(10 g) = 0.305 mW/g

Power Drift = -0.124 dB

Maximum value of SAR (measured) = 0.434 mW/g



Date/Time: 2008-02-25 15:22:28

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: HSL850; Medium Notes: T=21.0 C

Medium parameters used (interpolated): $f = 848.31$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.86, 6.86, 6.86); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM1; Type: Twin Phantom; Serial: TP-1035
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek, High, Flip open, BL-6C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.947 mW/g

Cheek, High, Flip open, BL-6C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.09 V/m

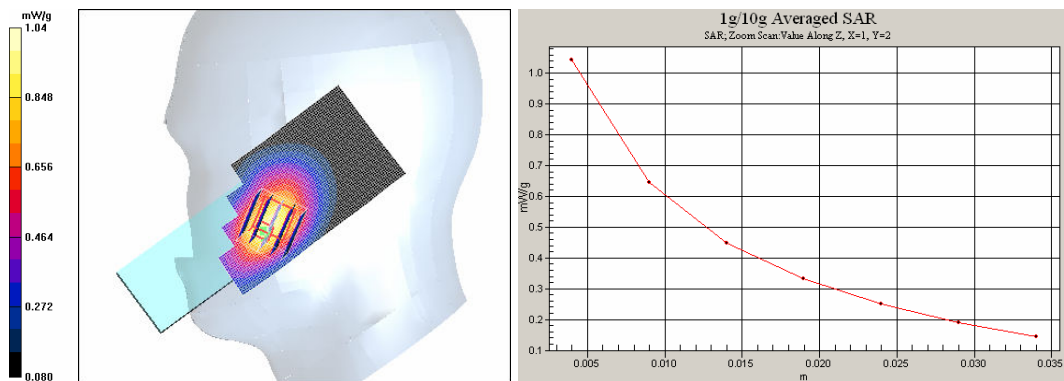
Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.962 mW/g

SAR(10 g) = 0.654 mW/g

Power Drift = -0.024 dB

Maximum value of SAR (measured) = 1.04 mW/g



SAR Report

SD_SAR_0810_01

Applicant: Nokia Corporation

Type: RM-383

Copyright © 2008 TCC Nokia

Date/Time: 2008-02-25 16:11:06

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: HSL850; Medium Notes: T=21.0 C

Medium parameters used (interpolated): $f = 848.31$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.86, 6.86, 6.86); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM1; Type: Twin Phantom; Serial: TP-1035
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek, High, Flip open, BL-6C, BT active/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.788 mW/g

Cheek, High, Flip open, BL-6C, BT active/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.33 V/m

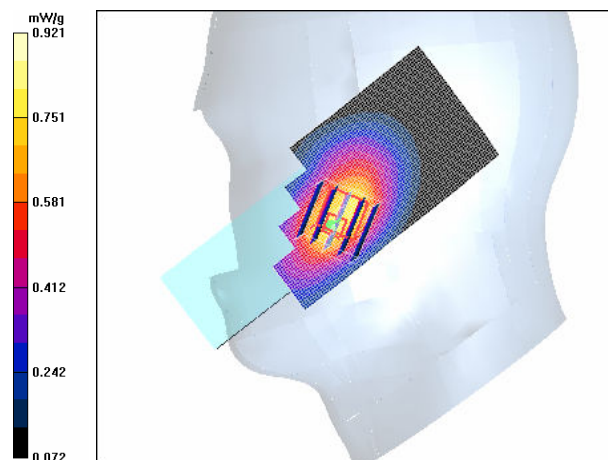
Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.835 mW/g

SAR(10 g) = 0.560 mW/g

Power Drift = 0.192 dB

Maximum value of SAR (measured) = 0.921 mW/g



Date/Time: 2008-02-21 15:15:17

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=19.9C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(5.09, 5.09, 5.09); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 2 ; Type: Twin Phantom; Serial: NMP03309
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek, Middle, Flip open, BL-4C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Cheek, Middle, Flip open, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.40 V/m

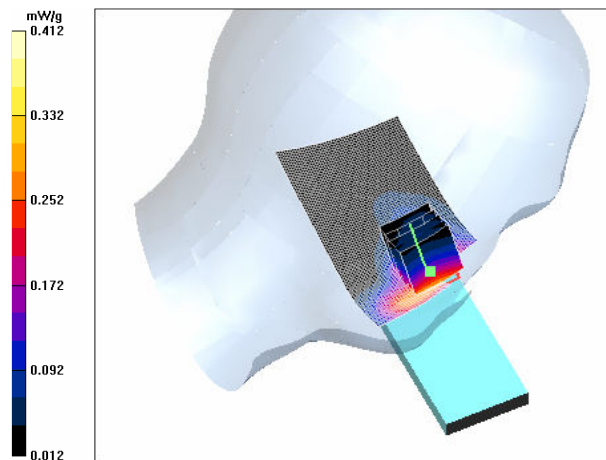
Peak SAR (extrapolated) = 0.548 W/kg

SAR(1 g) = 0.369 mW/g

SAR(10 g) = 0.233 mW/g

Power Drift = -0.302 dB

Maximum value of SAR (measured) = 0.412 mW/g



Date/Time: 2008-02-21 16:01:57

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=19.9C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(5.09, 5.09, 5.09); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 2 ; Type: Twin Phantom; Serial: NMP03309
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt, Middle, Flip open, BL-4C /Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Tilt, Middle, Flip open, BL-4C /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.96 V/m

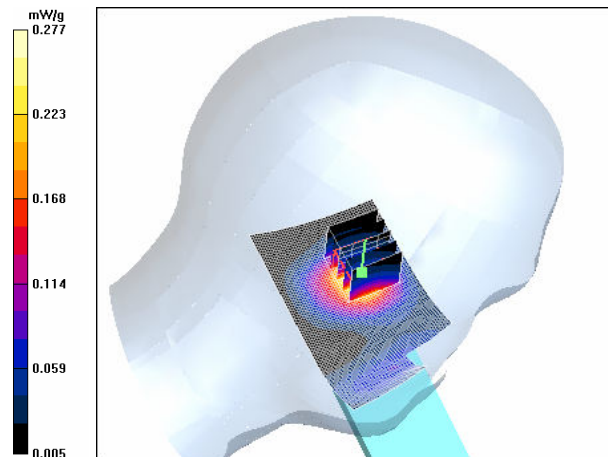
Peak SAR (extrapolated) = 0.367 W/kg

SAR(1 g) = 0.251 mW/g

SAR(10 g) = 0.154 mW/g

Power Drift = -0.006 dB

Maximum value of SAR (measured) = 0.277 mW/g



Date/Time: 2008-02-22 17:11:44

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=20.3C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(5.09, 5.09, 5.09); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 2 ; Type: Twin Phantom; Serial: NMP03309
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek, Low, Flip open, BL-4C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.936 mW/g

Cheek, Low, Flip open, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.23 V/m

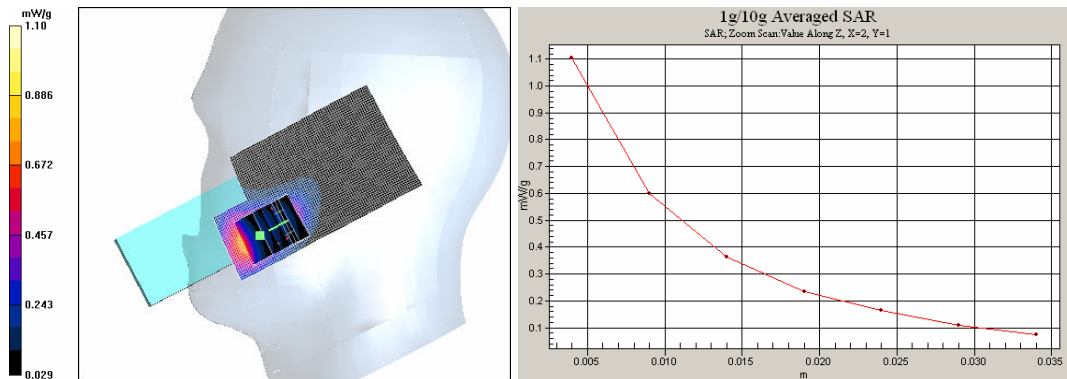
Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.921 mW/g

SAR(10 g) = 0.530 mW/g

Power Drift = 0.193 dB

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



SAR Report

SD_SAR_0810_01

Applicant: Nokia Corporation

Type: RM-383

Copyright © 2008 TCC Nokia

Date/Time: 2008-02-22 18:06:19

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=20.3C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(5.09, 5.09, 5.09); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 2 ; Type: Twin Phantom; Serial: NMP03309
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt, Middle, Flip open, BL-4C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Tilt, Middle, Flip open, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.19 V/m

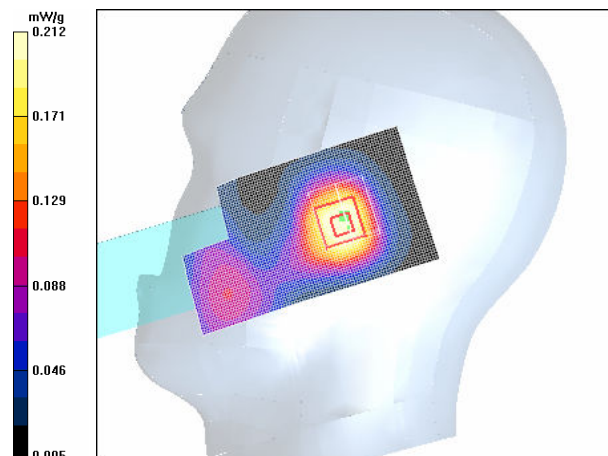
Peak SAR (extrapolated) = 0.277 W/kg

SAR(1 g) = 0.197 mW/g

SAR(10 g) = 0.127 mW/g

Power Drift = 0.016 dB

Maximum value of SAR (measured) = 0.212 mW/g



Date/Time: 2008-02-22 18:58:44

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=20.3C

Medium parameters used: $f = 1909$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(5.09, 5.09, 5.09); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 2 ; Type: Twin Phantom; Serial: NMP03309
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek, High, Flip open, BL-6C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.934 mW/g

Cheek, High, Flip open, BL-6C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.76 V/m

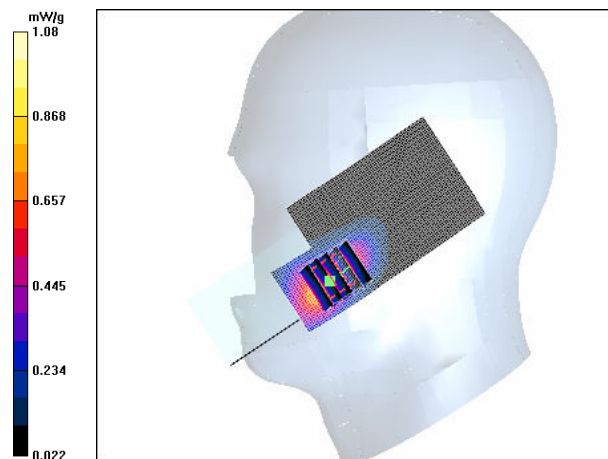
Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.914 mW/g

SAR(10 g) = 0.505 mW/g

Power Drift = 0.086 dB

Maximum value of SAR (measured) = 1.08 mW/g



Date/Time: 2008-02-22 19:26:57

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=20.3C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(5.09, 5.09, 5.09); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 2 ; Type: Twin Phantom; Serial: NMP03309
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek, Low, Flip open, BL-4C, BT active/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.926 mW/g

Cheek, Low, Flip open, BL-4C, BT active/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.20 V/m

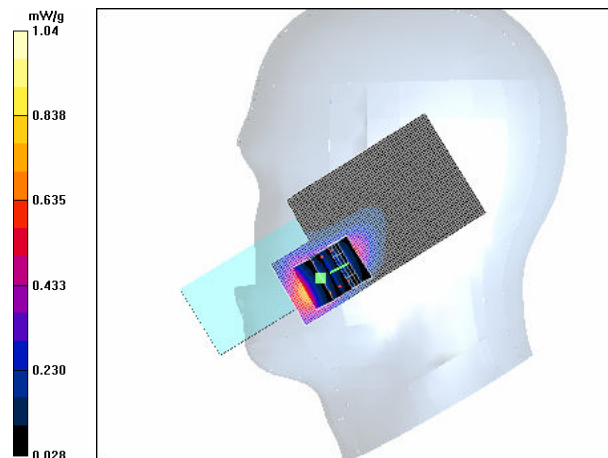
Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.900 mW/g

SAR(10 g) = 0.526 mW/g

Power Drift = -0.113 dB

Maximum value of SAR (measured) = 1.04 mW/g



SAR Report

SD_SAR_0810_01

Applicant: Nokia Corporation

Type: RM-383

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Date/Time: 2008-02-27 13:11:16

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: MSL850; Medium Notes: T=21.6C

Medium parameters used: $f = 825$ MHz; $\sigma = 0.981$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.49, 6.49, 6.49); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, No Accessory, BL-4C/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Body, Low, Flip closed, Antenna facing phantom, No Accessory, BL-4C/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.2 V/m

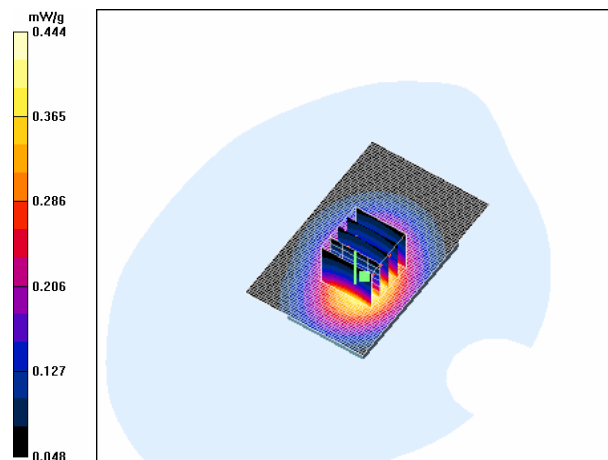
Peak SAR (extrapolated) = 0.572 W/kg

SAR(1 g) = 0.421 mW/g

SAR(10 g) = 0.296 mW/g

Power Drift = -0.080 dB

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



Date/Time: 2008-02-27 12:55:52

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: MSL850; Medium Notes: T=21.6C

Medium parameters used: $f = 825$ MHz; $\sigma = 0.981$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.49, 6.49, 6.49); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, HS-9, BL-4C/Area Scan (51x81x1): Measurement grid:

dx=15mm, dy=15mm

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

Body, Low, Flip closed, Antenna facing phantom, HS-9, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.3 V/m

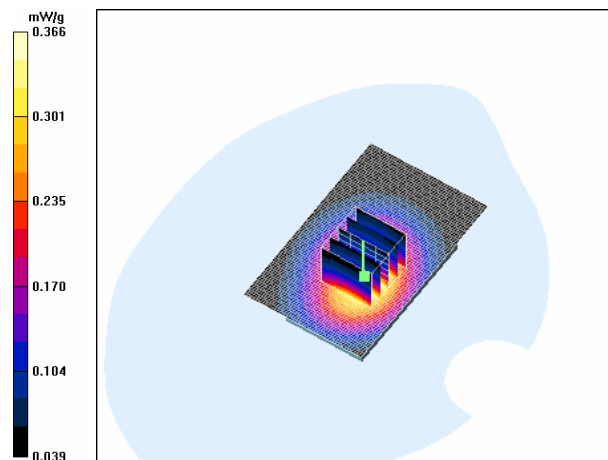
Peak SAR (extrapolated) = 0.453 W/kg

SAR(1 g) = 0.349 mW/g

SAR(10 g) = 0.247 mW/g

Power Drift = 0.007 dB

Maximum value of SAR (measured) = 0.366 mW/g



Date/Time: 2008-02-27 12:11:43

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL850; Medium Notes: T=21.6C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.988$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.49, 6.49, 6.49); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Middle, Flip closed, Display facing phantom, No Accessory, BL-4C/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Body, Middle, Flip closed, Display facing phantom, No Accessory, BL-4C/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.7 V/m

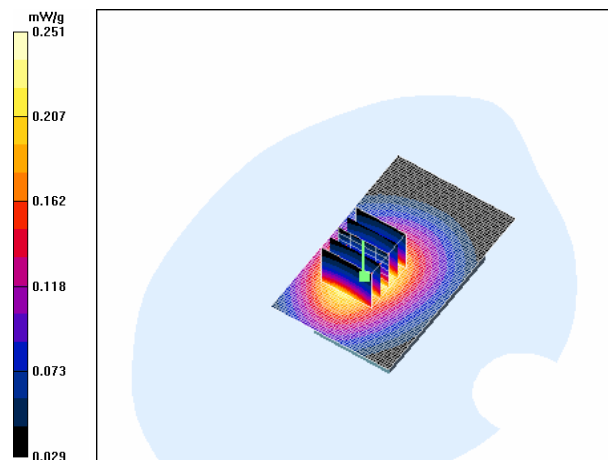
Peak SAR (extrapolated) = 0.315 W/kg

SAR(1 g) = 0.235 mW/g

SAR(10 g) = 0.167 mW/g

Power Drift = -0.136 dB

Maximum value of SAR (measured) = 0.251 mW/g



SAR Report

SD_SAR_0810_01

Applicant: Nokia Corporation

Type: RM-383

Copyright © 2008 TCC Nokia

Date/Time: 2008-02-27 11:58:56

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL850; Medium Notes: T=21.6C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.988$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.49, 6.49, 6.49); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Middle, Flip closed, Display facing phantom, HS-9, BL-4C/Area Scan (51x81x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.200 mW/g

Body, Middle, Flip closed, Display facing phantom, HS-9, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.8 V/m

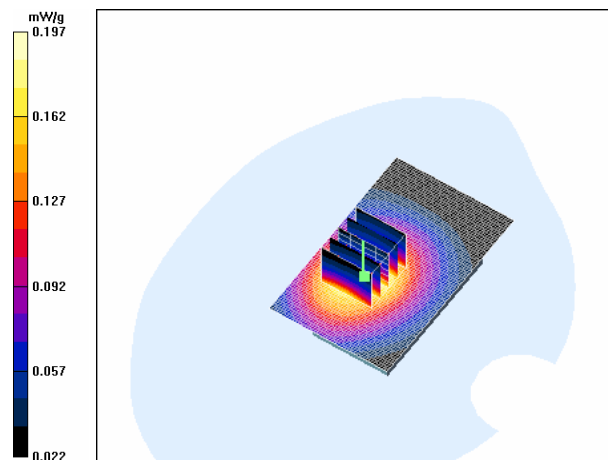
Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.186 mW/g

SAR(10 g) = 0.133 mW/g

Power Drift = 0.127 dB

Maximum value of SAR (measured) = 0.197 mW/g



Date/Time: 2008-02-27 13:42:28

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: MSL850; Medium Notes: T=21.6C

Medium parameters used: $f = 825$ MHz; $\sigma = 0.981$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:

- ConvF(6.49, 6.49, 6.49); Calibrated: 2007-08-29

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

- Electronics: DAE3 Sn377; Calibrated: 2007-05-04

- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, No Accessory, BL-6C/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.369 mW/g

Body, Low, Flip closed, Antenna facing phantom, No Accessory, BL-6C/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.4 V/m

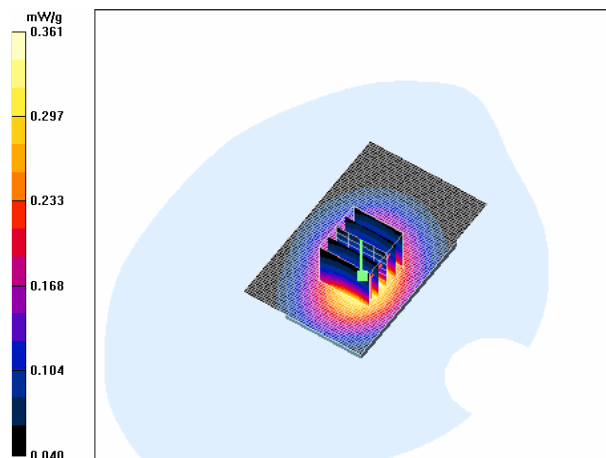
Peak SAR (extrapolated) = 0.444 W/kg

SAR(1 g) = 0.339 mW/g

SAR(10 g) = 0.239 mW/g

Power Drift = -0.229 dB

Maximum value of SAR (measured) = 0.361 mW/g



Date/Time: 2008-02-27 14:02:34

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: MSL850; Medium Notes: T=21.6C

Medium parameters used: $f = 825$ MHz; $\sigma = 0.981$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.49, 6.49, 6.49); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, No Accessory, BT active, BL-4C/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.473 mW/g

Body, Low, Flip closed, Antenna facing phantom, No Accessory, BT active, BL-4C/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.9 V/m

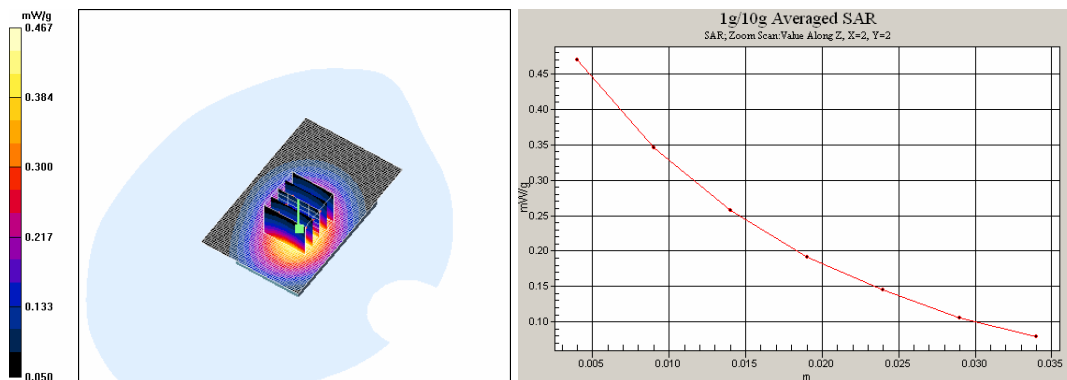
Peak SAR (extrapolated) = 0.588 W/kg

SAR(1 g) = 0.438 mW/g

SAR(10 g) = 0.308 mW/g

Power Drift = -0.265 dB

Maximum value of SAR (measured) = 0.467 mW/g



SAR Report

SD_SAR_0810_01

Applicant: Nokia Corporation

Type: RM-383

Copyright © 2008 TCC Nokia

Date/Time: 2008-02-27 14:58:20

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: MSL850; Medium Notes: T=21.6C

Medium parameters used: $f = 825$ MHz; $\sigma = 0.981$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.49, 6.49, 6.49); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, No Accessory, BL-4C/Area Scan (51x81x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.425 mW/g

Body, Low, Flip closed, Antenna facing phantom, No Accessory, BL-4C/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.1 V/m

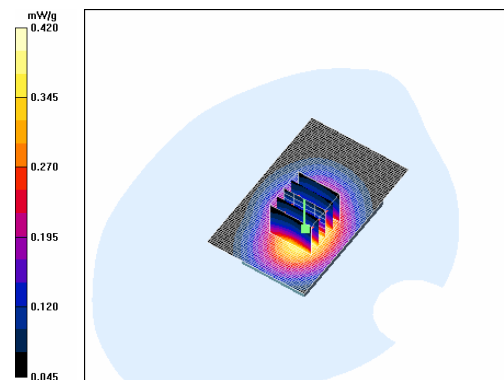
Peak SAR (extrapolated) = 0.538 W/kg

SAR(1 g) = 0.397 mW/g

SAR(10 g) = 0.283 mW/g

Power Drift = -0.262 dB

Maximum value of SAR (measured) = 0.420 mW/g



Date/Time: 2008-02-27 15:09:50

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: MSL850; Medium Notes: T=21.6C

Medium parameters used: $f = 825$ MHz; $\sigma = 0.981$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.49, 6.49, 6.49); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, HS-9, BL-4C/Area Scan (51x81x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.323 mW/g

Body, Low, Flip closed, Antenna facing phantom, HS-9, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.4 V/m

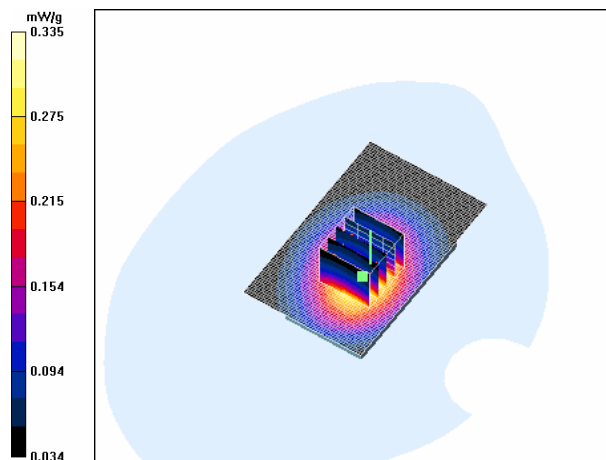
Peak SAR (extrapolated) = 0.397 W/kg

SAR(1 g) = 0.312 mW/g

SAR(10 g) = 0.223 mW/g

Power Drift = 0.021 dB

Maximum value of SAR (measured) = 0.335 mW/g



Date/Time: 2008-02-27 14:34:46

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: MSL850; Medium Notes: T=21.6C

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.981 \text{ mho/m}$; $\epsilon_r = 54.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.49, 6.49, 6.49); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, No Accessory, BL-6C/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.352 mW/g

Body, Low, Flip closed, Antenna facing phantom, No Accessory, BL-6C/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.9 V/m

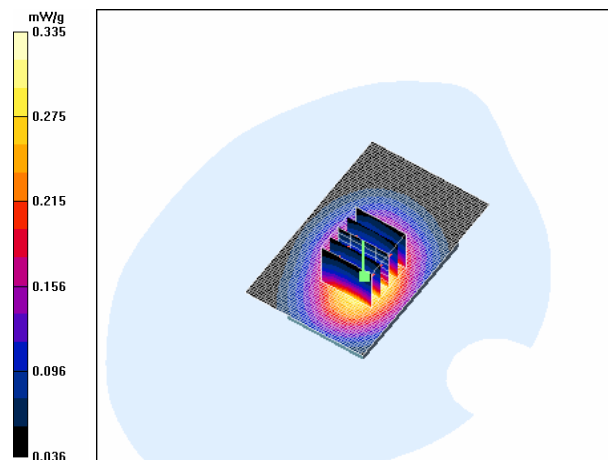
Peak SAR (extrapolated) = 0.428 W/kg

SAR(1 g) = 0.311 mW/g

SAR(10 g) = 0.217 mW/g

Power Drift = -0.008 dB

Maximum value of SAR (measured) = 0.335 mW/g



Date/Time: 2008-02-27 15:25:03

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA800

Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: MSL850; Medium Notes: T=21.6C

Medium parameters used: $f = 825$ MHz; $\sigma = 0.981$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1505; Probe Notes:
- ConvF(6.49, 6.49, 6.49); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn377; Calibrated: 2007-05-04
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, No accessory, BL-4C,BT Active/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.384 mW/g

Body, Low, Flip closed, Antenna facing phantom, No accessory, BL-4C, BT Active/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.7 V/m

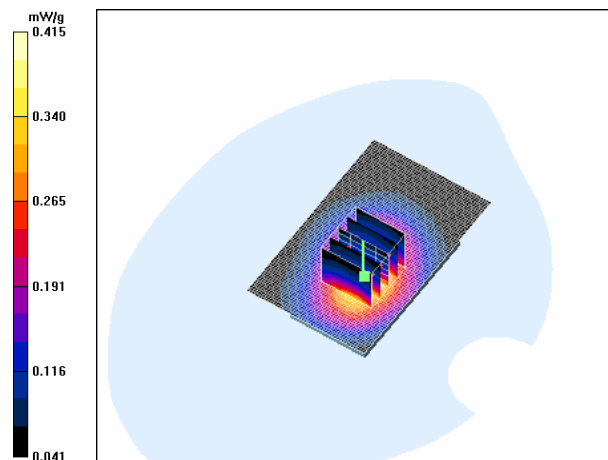
Peak SAR (extrapolated) = 0.502 W/kg

SAR(1 g) = 0.373 mW/g

SAR(10 g) = 0.256 mW/g

Power Drift = -0.081 dB

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



Date/Time: 2008-02-28 17:13:13

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used: $f = 1909$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, High, Antenna facing phantom, Flip closed, No accessory, BL-4C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Body, High, Antenna facing phantom, Flip closed, No accessory, BL-4C/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 14.4 V/m

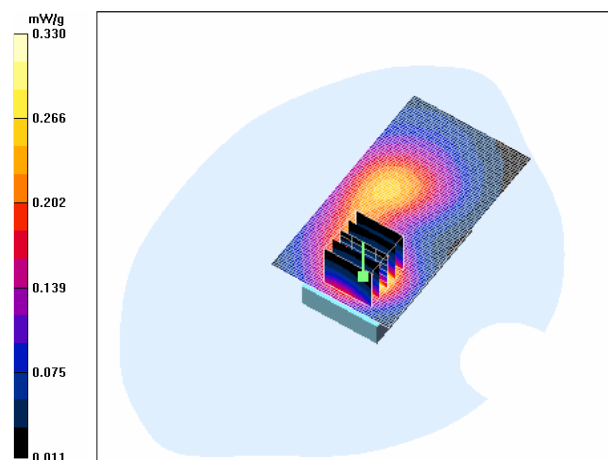
Peak SAR (extrapolated) = 0.483 W/kg

SAR(1 g) = 0.300 mW/g

SAR(10 g) = 0.181 mW/g

Power Drift = -0.102 dB

Maximum value of SAR (measured) = 0.330 mW/g



SAR Report

SD_SAR_0810_01

Applicant: Nokia Corporation

Type: RM-383

Copyright © 2008 TCC Nokia

Date/Time: 2008-02-28 16:47:00

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.49 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Antenna facing phantom, Flip closed, HS-9, BL-4C/Area Scan (51x91x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.344 mW/g

Body, Low, Antenna facing phantom, Flip closed, HS-9, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 14.8 V/m

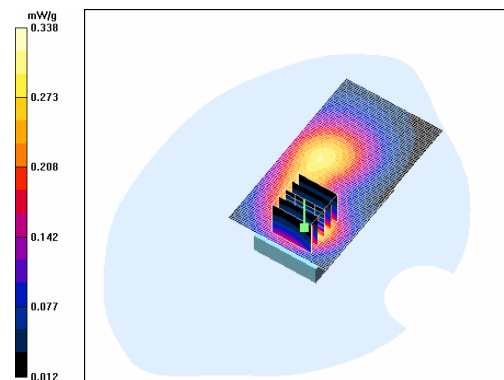
Peak SAR (extrapolated) = 0.463 W/kg

SAR(1 g) = 0.310 mW/g

SAR(10 g) = 0.190 mW/g

Power Drift = 0.136 dB

Maximum value of SAR (measured) = 0.338 mW/g



Date/Time: 2008-02-28 16:20:32

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Middle, Display facing phantom, Flip closed, No accessory, BL-4C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.198 mW/g

Body, Middle, Display facing phantom, Flip closed, No accessory, BL-4C/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 8.49 V/m

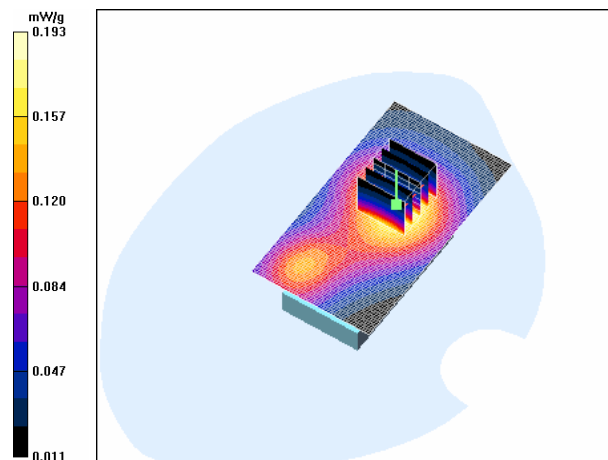
Peak SAR (extrapolated) = 0.256 W/kg

SAR(1 g) = 0.181 mW/g

SAR(10 g) = 0.121 mW/g

Power Drift = 0.087 dB

Maximum value of SAR (measured) = 0.193 mW/g



Date/Time: 2008-02-28 15:56:27

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Middle, Display facing phantom, Flip closed, HS-9, BL-4C/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

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

Body, Middle, Display facing phantom, Flip closed, HS-9, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 7.57 V/m

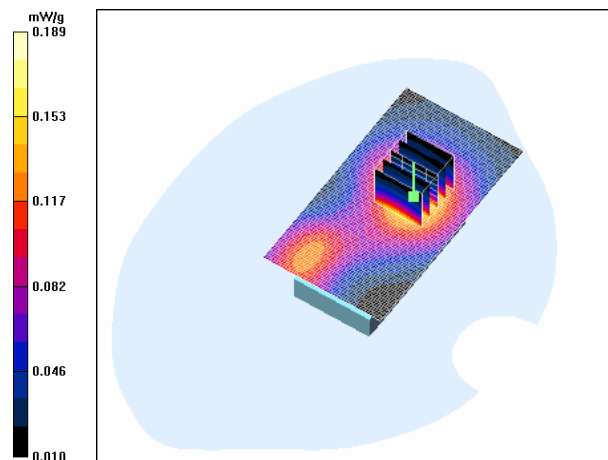
Peak SAR (extrapolated) = 0.266 W/kg

SAR(1 g) = 0.177 mW/g

SAR(10 g) = 0.117 mW/g

Power Drift = -0.093 dB

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



Date/Time: 2008-02-28 17:45:27

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:

- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29

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

- Electronics: DAE4 Sn604; Calibrated: 2007-08-29

- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Antenna facing phantom, Flip closed, HS-9, BL-6C/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.259 mW/g

Body, Low, Antenna facing phantom, Flip closed, HS-9, BL-6C/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 13.3 V/m

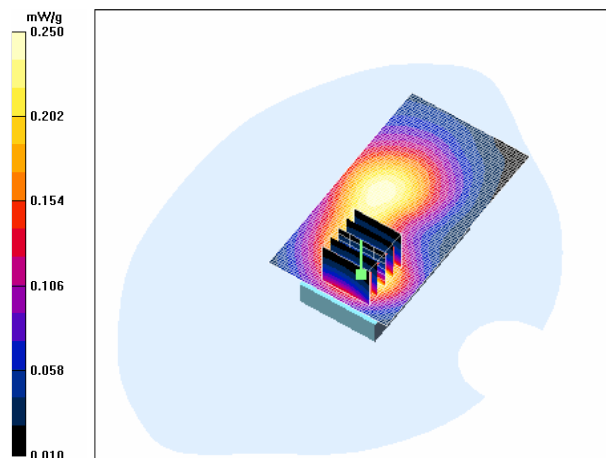
Peak SAR (extrapolated) = 0.362 W/kg

SAR(1 g) = 0.234 mW/g

SAR(10 g) = 0.147 mW/g

Power Drift = -0.086 dB

Maximum value of SAR (measured) = 0.250 mW/g



Date/Time: 2008-02-28 17:29:25

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Antenna facing phantom, Flip closed, HS-9, BT active, BL-4C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.335 mW/g

Body, Low, Antenna facing phantom, Flip closed, HS-9, BT active, BL-4C/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 14.6 V/m

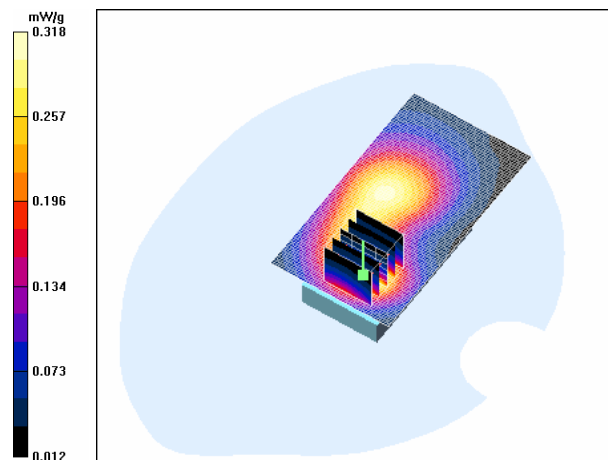
Peak SAR (extrapolated) = 0.443 W/kg

SAR(1 g) = 0.295 mW/g

SAR(10 g) = 0.184 mW/g

Power Drift = 0.104 dB

Maximum value of SAR (measured) = 0.318 mW/g



Date/Time: 2008-02-28 12:20:25

Test Laboratory: The name of your organization

Type: RM-383; Serial: 268435456102004508

Communication System: CDMA1900

Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used: $f = 1909$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, High, Flip closed, Antenna facing phantom, No accessory, BL-4C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.347 mW/g

Body, High, Flip closed, Antenna facing phantom, No accessory, BL-4C/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 14.4 V/m

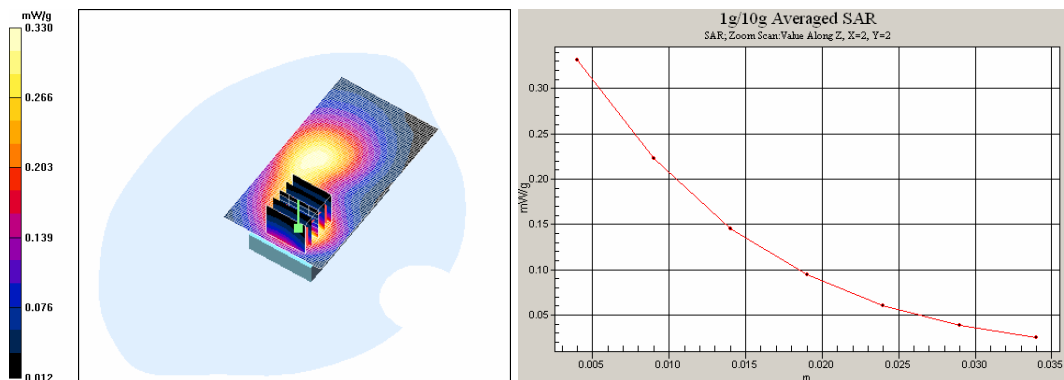
Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 g) = 0.311 mW/g

SAR(10 g) = 0.191 mW/g

Power Drift = 0.022 dB

Maximum value of SAR (measured) = 0.330 mW/g



SAR Report

SD_SAR_0810_01

Applicant: Nokia Corporation

Type: RM-383

Copyright © 2008 TCC Nokia

Date/Time: 2008-02-28 12:50:16

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, HS-9, BL-4C/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.337 mW/g

Body, Low, Flip closed, Antenna facing phantom, HS-9, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 14.8 V/m

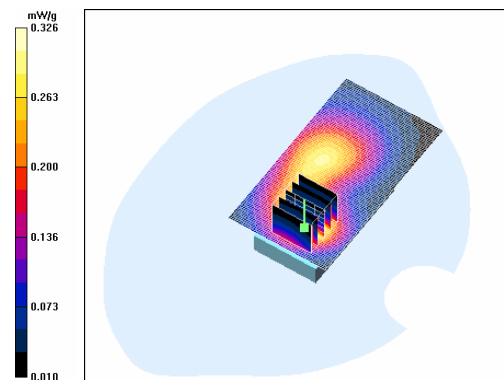
Peak SAR (extrapolated) = 0.452 W/kg

SAR(1 g) = 0.298 mW/g

SAR(10 g) = 0.184 mW/g

Power Drift = -0.107 dB

Maximum value of SAR (measured) = 0.326 mW/g



Date/Time: 2008-02-28 11:54:19

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Middle, Flip closed, Display facing phantom, No accessory, BL-4C/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body, Middle, Flip closed, Display facing phantom, No accessory, BL-4C/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 8.48 V/m

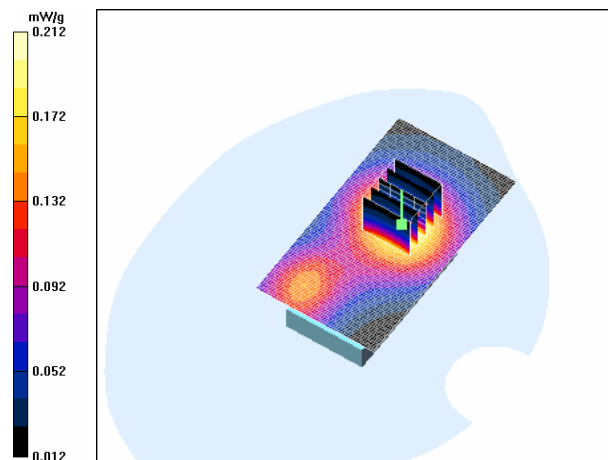
Peak SAR (extrapolated) = 0.288 W/kg

SAR(1 g) = 0.200 mW/g

SAR(10 g) = 0.133 mW/g

Power Drift = -0.087 dB

Maximum value of SAR (measured) = 0.212 mW/g



Date/Time: 2008-02-28 12:06:37

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Middle, Flip closed, Display facing phantom, HS-9, BL-4C/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.184 mW/g

Body, Middle, Flip closed, Display facing phantom, HS-9, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 8.58 V/m

Peak SAR (extrapolated) = 0.248 W/kg

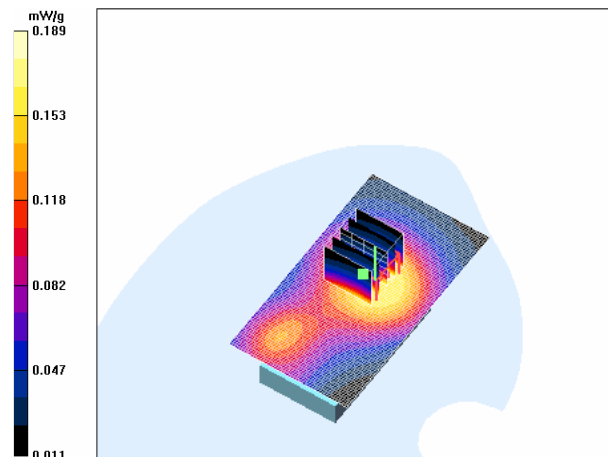
SAR(1 g) = 0.178 mW/g

SAR(10 g) = 0.120 mW/g

Power Drift = -0.132 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) = 0.189 mW/g



Date/Time: 2008-03-07 12:23:07

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: T=20.8C

Medium parameters used: $f = 1909$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, High, Flip Closed, Antenna facing phantom, HS-9, BL-6C/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.247 mW/g

Body, High, Flip Closed, Antenna facing phantom, HS-9, BL-6C/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 12.7 V/m

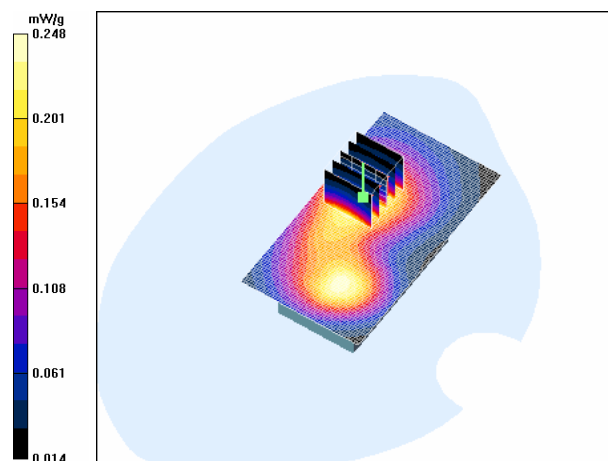
Peak SAR (extrapolated) = 0.345 W/kg

SAR(1 g) = 0.232 mW/g

SAR(10 g) = 0.152 mW/g

Power Drift = 0.028 dB

Maximum value of SAR (measured) = 0.248 mW/g



Date/Time: 2008-03-07 13:14:42

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: T=20.8C

Medium parameters used: $f = 1909$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, High, Flip Closed, Antenna facing phantom, No accessory, BT active, BL-4C/Area Scan (51x91x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.328 mW/g

Body, High, Flip Closed, Antenna facing phantom, No accessory, BT active, BL-4C/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 14.6 V/m

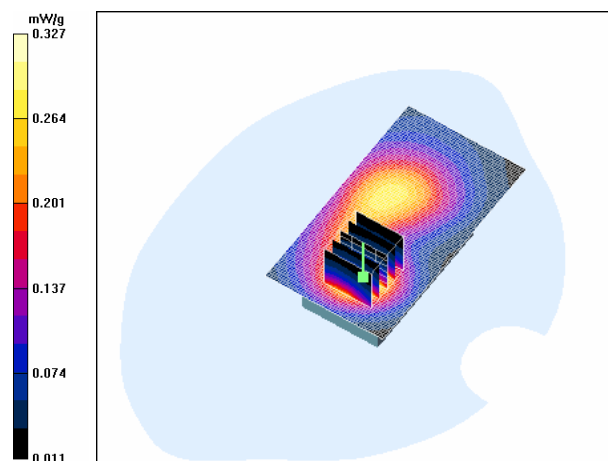
Peak SAR (extrapolated) = 0.458 W/kg

SAR(1 g) = 0.301 mW/g

SAR(10 g) = 0.183 mW/g

Power Drift = 0.078 dB

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



Date/Time: 2008-02-28 14:11:10

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, No accessory, BL-4C/Area Scan (51x91x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.274 mW/g

Body, Low, Flip closed, Antenna facing phantom, No accessory, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.1 V/m

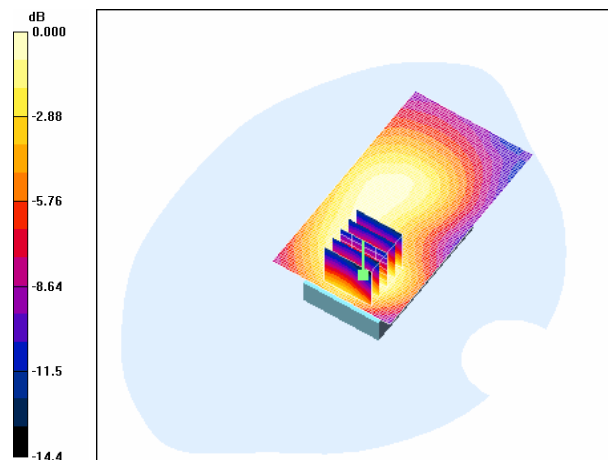
Peak SAR (extrapolated) = 0.369 W/kg

SAR(1 g) = 0.241 mW/g

SAR(10 g) = 0.149 mW/g

Power Drift = 0.281 dB

Maximum value of SAR (measured) = 0.259 mW/g



Date/Time: 2008-02-28 14:24:59

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, HS-9, BL-4C/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.263 mW/g

Body, Low, Flip closed, Antenna facing phantom, HS-9, BL-4C/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 13.2 V/m

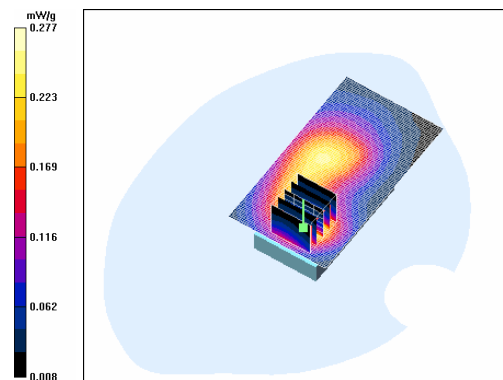
Peak SAR (extrapolated) = 0.420 W/kg

SAR(1 g) = 0.253 mW/g

SAR(10 g) = 0.154 mW/g

Power Drift = 0.267 dB

Maximum value of SAR (measured) = 0.277 mW/g



Date/Time: 2008-02-28 13:54:06

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, HS-9, BL-6C/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

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

Body, Low, Flip closed, Antenna facing phantom, HS-9, BL-6C/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 11.9 V/m

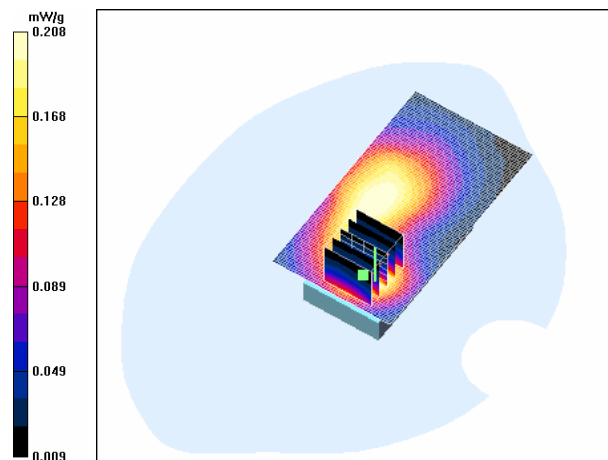
Peak SAR (extrapolated) = 0.278 W/kg

SAR(1 g) = 0.192 mW/g

SAR(10 g) = 0.121 mW/g

Power Drift = 0.205 dB

Maximum value of SAR (measured) = 0.208 mW/g



Date/Time: 2008-02-28 14:38:50

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900MHz Body; Medium Notes: Liquid temperature: 20.6C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1504; Probe Notes:
- ConvF(4.6, 4.6, 4.6); Calibrated: 2007-08-29
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2007-08-29
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Low, Flip closed, Antenna facing phantom, HS-9, BT active, BL-4C/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.259 mW/g

Body, Low, Flip closed, Antenna facing phantom, HS-9, BT active, BL-4C /Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 13.1 V/m

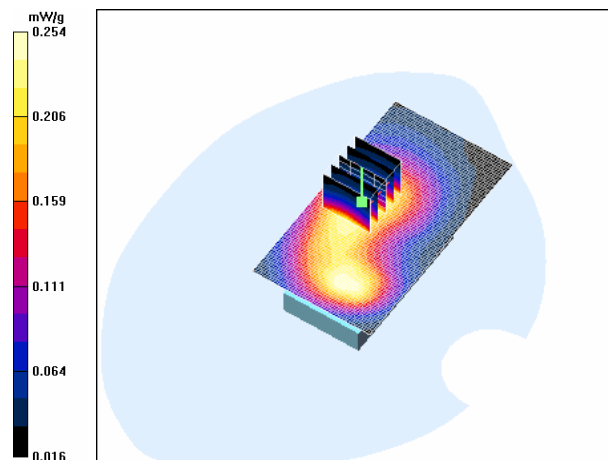
Peak SAR (extrapolated) = 0.370 W/kg

SAR(1 g) = 0.240 mW/g

SAR(10 g) = 0.160 mW/g

Power Drift = -0.198 dB

Maximum value of SAR (measured) = 0.254 mW/g



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

**Calibration Laboratory of
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Engineering AG**
 Zeughausstrasse 43, 8004 Zurich, Switzerland



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 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Nokia SD TCC**

Certificate No: **ET3-1504_Aug07**

CALIBRATION CERTIFICATE

Object **ET3DV6 - SN:1504**

Calibration procedure(s) **QA CAL-01.v6
 Calibration procedure for dosimetric E-field probes**

Calibration date: **August 29, 2007**

Condition of the calibrated item **In Tolerance**

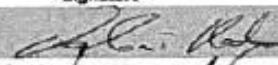
This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41495277	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41498087	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Reference 3 dB Attenuator	SN: S5054 (3c)	8-Aug-07 (METAS, No. 217-00719)	Aug-08
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-07 (METAS, No. 217-00671)	Mar-08
Reference 30 dB Attenuator	SN: S5129 (30b)	8-Aug-07 (METAS, No. 217-00720)	Aug-08
Reference Probe ES3DV2	SN: 3013	4-Jan-07 (SPEAG, No. ES3-3013_Jan07)	Jan-08
DAE4	SN: 654	20-Apr-07 (SPEAG, No. DAE4-654_Apr07)	Apr-08

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Nov-05)	in house check: Nov-07
Network Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check Oct-06)	in house check: Oct-07

	Name	Function	Signature
Calibrated by:	Katja Pokovic	Technical Manager	

	Name	Function
Approved by:	Niels Kuster	Quality Manager

Issued: August 29, 2007

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Certificate No: ET3-1504_Aug07

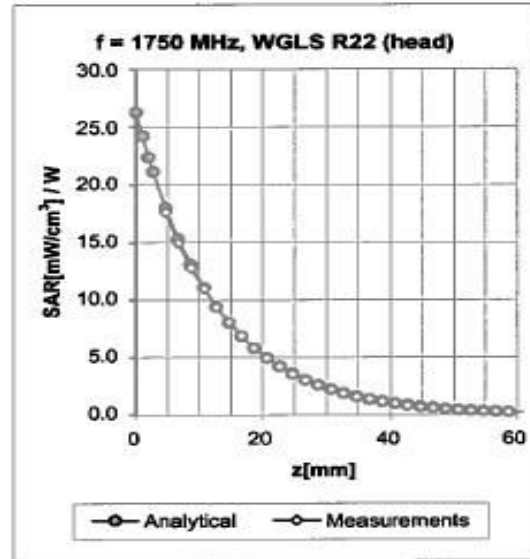
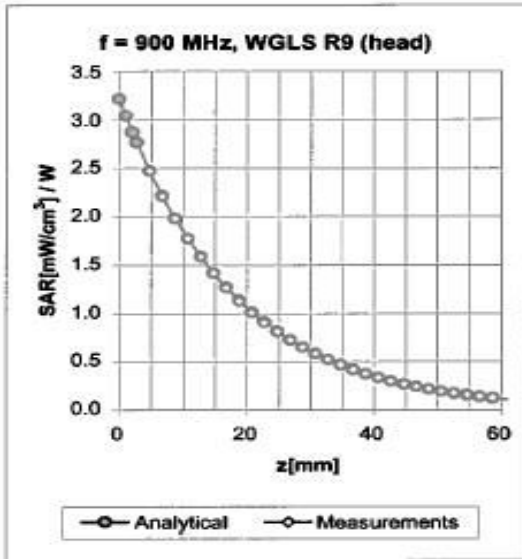
Page 1 of 9

SAR Report
 SD_SAR_0810_01
 Applicant: Nokia Corporation

Type: RM-383

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Conversion Factor Assessment



f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
835	± 50 / ± 99	Head	41.5 ± 5%	0.90 ± 5%	0.38	2.40	6.52 ± 11.0% (k=2)
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.31	2.63	6.40 ± 11.0% (k=2)
1750	± 50 / ± 100	Head	40.1 ± 5%	1.37 ± 5%	0.53	2.60	5.25 ± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.59	2.50	5.09 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.80	1.73	4.63 ± 11.8% (k=2)
835	± 50 / ± 100	Body	55.2 ± 5%	0.97 ± 5%	0.36	2.46	6.27 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.32	2.84	6.00 ± 11.0% (k=2)
1750	± 50 / ± 100	Body	53.4 ± 5%	1.49 ± 5%	0.61	2.63	4.78 ± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.74	2.36	4.60 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.71	2.12	4.02 ± 11.8% (k=2)

^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

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Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Nokia SD TCC**

Certificate No: **ET3-1505_Aug07**

CALIBRATION CERTIFICATE

Object **ET3DV6 - SN:1505**

Calibration procedure(s) **QA CAL-01.v6**
Calibration procedure for dosimetric E-field probes

Calibration date: **August 29, 2007**

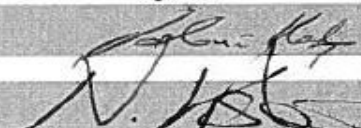
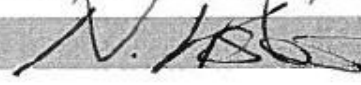
Condition of the calibrated item **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^\circ\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41495277	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41498087	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Reference 3 dB Attenuator	SN: S5054 (3c)	8-Aug-07 (METAS, No. 217-00719)	Aug-08
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-07 (METAS, No. 217-00671)	Mar-08
Reference 30 dB Attenuator	SN: S5129 (30b)	8-Aug-07 (METAS, No. 217-00720)	Aug-08
Reference Probe ES3DV2	SN: 3013	4-Jan-07 (SPEAG, No. ES3-3013_Jan07)	Jan-08
DAE4	SN: 654	20-Apr-07 (SPEAG, No. DAE4-654_Apr07)	Apr-08
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Nov-05)	In house check: Nov-07
Network Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check Oct-06)	In house check: Oct-07

	Name	Function	Signature
Calibrated by:	Karls Pokovic	Technical Manager	
Approved by:	Niels Kuster	Quality Manager	

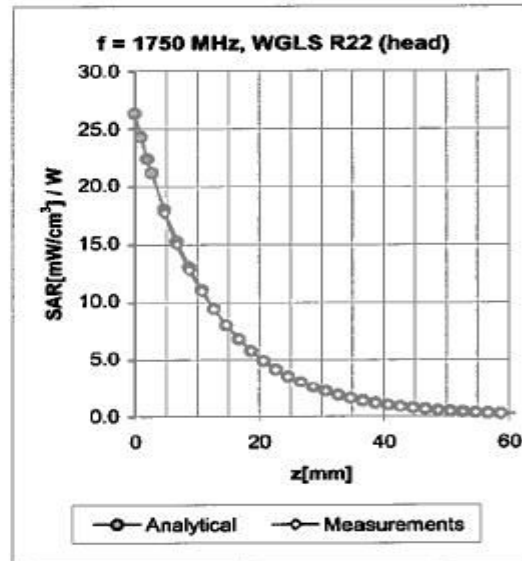
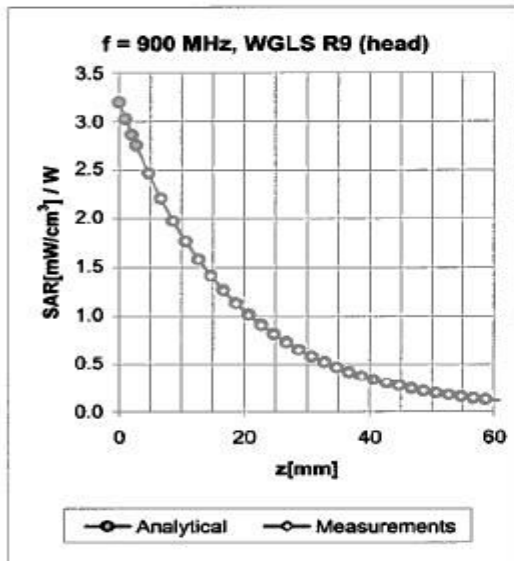
Issued: August 29, 2007

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: ET3-1505_Aug07

Page 1 of 9

Conversion Factor Assessment



f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
835	± 50 / ± 99	Head	41.5 ± 5%	0.90 ± 5%	0.31	2.54	6.86 ± 11.0% (k=2)
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.34	2.42	6.75 ± 11.0% (k=2)
1750	± 50 / ± 100	Head	40.1 ± 5%	1.37 ± 5%	0.46	2.74	5.35 ± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.51	2.63	5.17 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.52	2.11	4.61 ± 11.8% (k=2)
835	± 50 / ± 100	Body	55.2 ± 5%	0.97 ± 5%	0.29	2.72	6.49 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.31	2.73	6.21 ± 11.0% (k=2)
1750	± 50 / ± 100	Body	53.4 ± 5%	1.49 ± 5%	0.53	2.78	4.81 ± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.65	2.41	4.65 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.51	2.50	3.95 ± 11.8% (k=2)

^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

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

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Calibration Laboratory of
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Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Nokia SD TCC**

Certificate No: **D835V2-487_Nov06**

CALIBRATION CERTIFICATE

Object **D835V2 - SN: 487**

Calibration procedure(s) **QA CAL-05.v6**
Calibration procedure for dipole validation kits

Calibration date: **November 21, 2006**

Condition of the calibrated item **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	03-Oct-06 (METAS, No. 217-00608)	Oct-07
Power sensor HP 8481A	US37292783	03-Oct-06 (METAS, No. 217-00608)	Oct-07
Reference 20 dB Attenuator	SN: 5086 (20g)	10-Aug-06 (METAS, No 217-00591)	Aug-07
Reference 10 dB Attenuator	SN: 5047.2 (10r)	10-Aug-06 (METAS, No 217-00591)	Aug-07
Reference Probe ET3DV6 (HF)	SN 1507	19-Oct-06 (SPEAG, No. ET3-1507_Oct06)	Oct-07
DAE4	SN 601	15-Dec-05 (SPEAG, No. DAE4-601_Dec05)	Dec-06

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (SPEAG, in house check Oct-05)	In house check: Oct-07
RF generator Agilent E4421B	MY41000675	11-May-05 (SPEAG, in house check Nov-05)	In house check: Nov-07
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (SPEAG, in house check Oct-06)	In house check: Oct-07

Calibrated by: **Mike Meili** **Mike Meili** **Function**
Laboratory Technician

Approved by: **Katja Pokovic** **Katja Pokovic** **Technical Manager**

Signature

Mike Meili

Katja Pokovic

Issued: November 23, 2006

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Certificate No: **D835V2-487 Nov06**

Page 1 of 9

DASY4 Validation Report for Head TSL

Date/Time: 21.11.2006 12:57:12

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 487

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

Medium: HSL 900 MHz;

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.901 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507 (HF); ConvF(6.09, 6.09, 6.09); Calibrated: 19.10.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 15.12.2005
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Pin = 250 mW; d = 15 mm/Zoom Scan (7x7x7)/Cube 0:

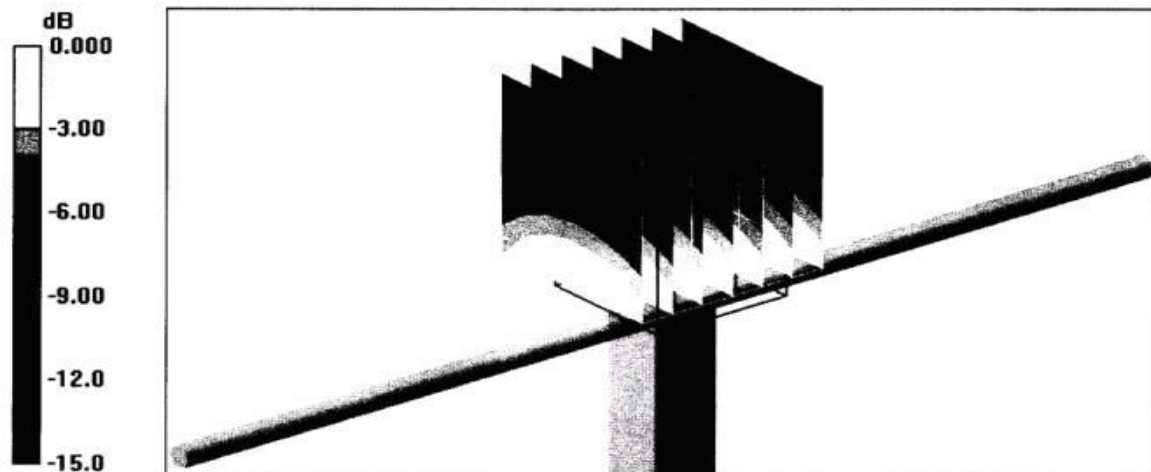
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.8 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 2.29 mW/g; SAR(10 g) = 1.51 mW/g

Maximum value of SAR (measured) = 2.48 mW/g



DASY4 Validation Report for Body TSL

Date/Time: 14.11.2006 13:02:09

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:487

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

Medium: MSL900;

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507 (HF); ConvF(5.75, 5.75, 5.75); Calibrated: 19.10.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 15.12.2005
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Pin = 250 mW; d = 15 mm/Zoom Scan (7x7x7)/Cube 0:

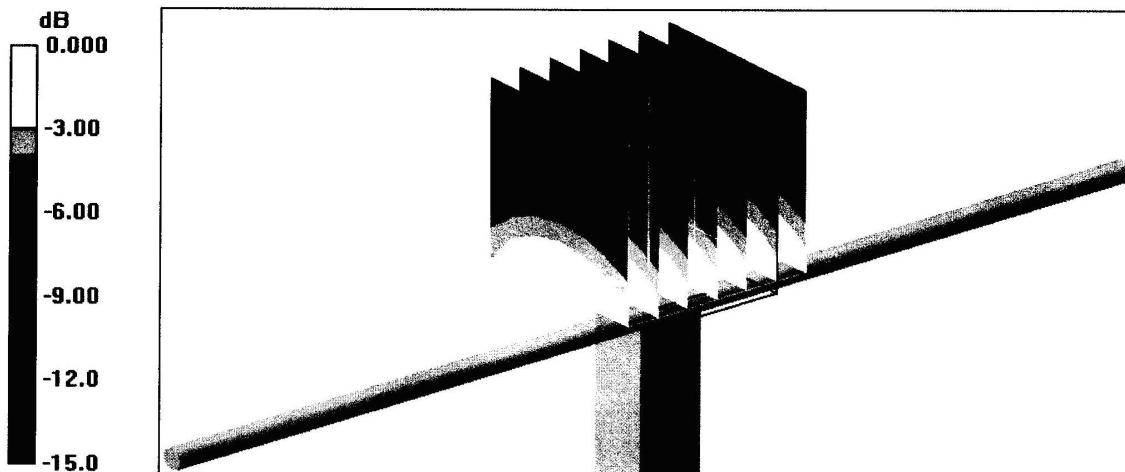
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.1 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 2.44 mW/g; SAR(10 g) = 1.62 mW/g

Maximum value of SAR (measured) = 2.64 mW/g



0 dB = 2.64mW/g

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Accreditation No.: **SCS 108**

Client **Nokia SD TCC**

Certificate No: **D1900V2-534_Sep06**

CALIBRATION CERTIFICATE

Object **D1900V2 - SN: 534**

Calibration procedure(s) **QA CAL-05.v6**
Calibration procedure for dipole validation kits

Calibration date: **September 20, 2006**

Condition of the calibrated item **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	04-Oct-05 (METAS, No. 251-00516)	Oct-06
Power sensor HP 8481A	US37292783	04-Oct-05 (METAS, No. 251-00516)	Oct-06
Reference 20 dB Attenuator	SN: 5086 (20g)	10-Aug-06 (METAS, No 217-00591)	Aug-07
Reference 10 dB Attenuator	SN: 5047.2 (10r)	10-Aug-06 (METAS, No 217-00591)	Aug-07
Reference Probe ET3DV6	SN: 1507	28-Oct-05 (SPEAG, No. ET3-1507_Oct05)	Oct-06
Reference Probe ES3DV3	SN: 3025	28-Oct-05 (SPEAG, No. ES3-3025_Oct05)	Oct-06
DAE4	SN: 601	15-Dec-05 (SPEAG, No. DAE4-601_Dec05)	Dec-06
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (SPEAG, in house check Oct-05)	In house check: Oct-07
RF generator Agilent E4421B	MY41000675	11-May-05 (SPEAG, in house check Nov-05)	In house check: Nov-07
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (SPEAG, in house check Nov-05)	In house check: Nov-06

	Name	Function	Signature
Calibrated by:	Marcel Fehr	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: September 20, 2006

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D1900V2-534_Sep06

Page 1 of 9

DASY4 Validation Report for Head TSL

Date/Time: 13.09.2006 15:19:52

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:534

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

Medium: HSL U10 BB;

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507 (HF); ConvF(4.74, 4.74, 4.74); Calibrated: 28.10.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 15.12.2005
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

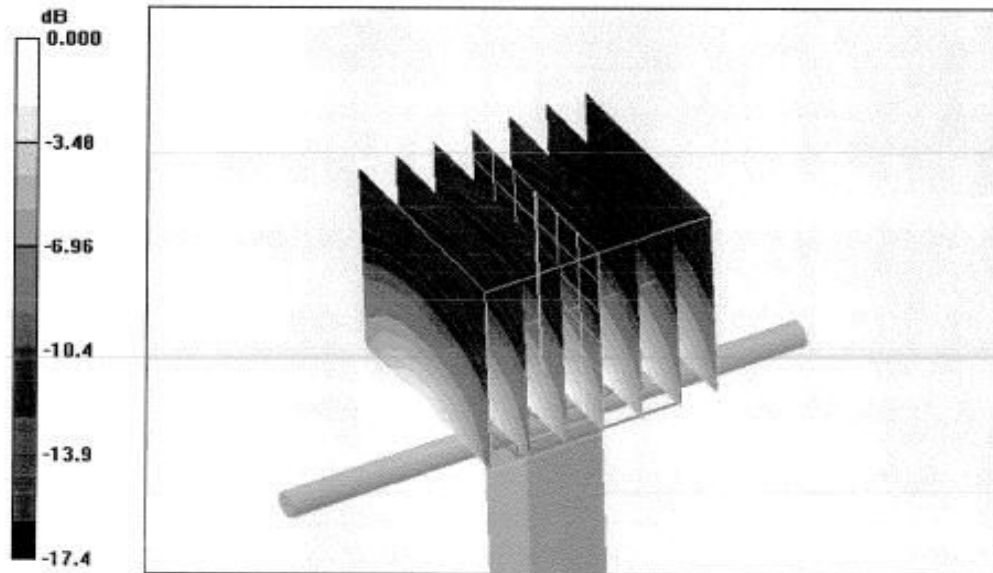
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 92.2 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 9.38 mW/g; SAR(10 g) = 4.97 mW/g

Maximum value of SAR (measured) = 10.5 mW/g



0 dB = 10.5mW/g

DASY4 Validation Report for Body TSL

Date/Time: 20.09.2006 10:57:32

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:534

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

Medium: MSL U10;

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3025 (HF); ConvF(4.38, 4.38, 4.38); Calibrated: 28.10.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 15.12.2005
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

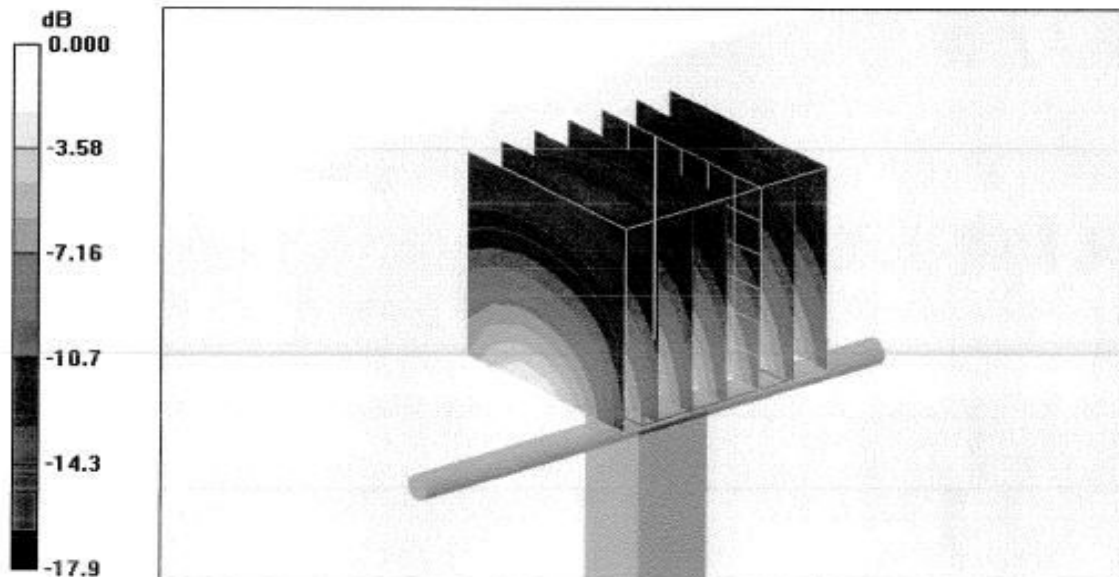
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 85.6 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 10.1 mW/g; SAR(10 g) = 5.37 mW/g

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



0 dB = 11.2mW/g

APPENDIX E: CONDUCTED POWER MEASUREMENTS FOR SUPPORTED TRANSMISSION MODES

Test Laboratory: TCC Nokia

Type: RM-383; Serial: A00000011E961C

CDMA800

Radio Configuration	Service Options and Channel Configurations	Supported	Ch 1013 824.70 MHz	Ch 384 836.52 MHz	Ch 777 848.31 MHz
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RC1	S01	no	-	-	-
RC1	S02	yes	24.50	24.40	24.30
RC1	S03	no	-	-	-
RC1	S055	yes	24.60	24.47	24.31
RC2	S09	yes	24.65	24.54	24.41
RC2	S055	yes	24.72	24.53	24.43
RC3	S01	no	-	-	-
RC3	S02	yes	24.69	24.54	24.42
RC3	S03	no	-	-	-
RC3	S032 (no SCH1)	no	-	-	-
RC3	S032 (SCH1 9.6 kpbs)	no	-	-	-
RC3	S032 (SCH1 19.2 kpbs)	no	-	-	-
RC3	S032 (SCH1 38.4 kpbs)	no	-	-	-
RC3	S032 (SCH1 76.8 kpbs)	no	-	-	-
RC3	S032 (SCH1 153.6 kpbs)	no	-	-	-
RC3	S033 (SCH1 9.6 kpbs)	no	-	-	-
RC3	S033 (SCH1 19.2 kpbs)	no	-	-	-
RC3	S033 (SCH1 38.4 kpbs)	no	-	-	-
RC3	S033 (SCH1 76.8 kpbs)	no	-	-	-
RC3	S033 (SCH1 153.6 kpbs)	no	-	-	-
RC3	S055	yes	24.75	24.47	24.41
RC4	S01	no	-	-	-
RC4	S02	yes	24.72	24.43	24.40
RC4	S03	no	-	-	-
RC4	S032 (no SCH1)	no	-	-	-
RC4	S032 (SCH1 9.6 kpbs)	no	-	-	-
RC4	S032 (SCH1 19.2 kpbs)	no	-	-	-
RC4	S032 (SCH1 38.4 kpbs)	no	-	-	-
RC4	S032 (SCH1 76.8 kpbs)	no	-	-	-
RC4	S032 (SCH1 153.6 kpbs)	no	-	-	-
RC4	S033 (SCH1 9.6 kpbs)	no	-	-	-
RC4	S033 (SCH1 19.2 kpbs)	no	-	-	-
RC4	S033 (SCH1 38.4 kpbs)	no	-	-	-
RC4	S033 (SCH1 76.8 kpbs)	no	-	-	-
RC4	S033 (SCH1 153.6 kpbs)	no	-	-	-

RC4	S055	yes	24.70	24.46	24.41
RC5	S09	yes	24.73	24.45	24.42
RC5	S033 (SCH1 9.6 kpbs)	no	-	-	-
RC5	S033 (SCH1 19.2 kpbs)	no	-	-	-
RC5	S033 (SCH1 38.4 kpbs)	no	-	-	-
RC5	S033 (SCH1 76.8 kpbs)	no	-	-	-
RC5	S033 (SCH1 153.6 kpbs)	no	-	-	-
RC5	S055	yes	24.71	24.48	24.43

Application Configuration	Data Rate (kbps)	Supported	Ch 1013 824.70 MHz	Ch 384 836.52 MHz	Ch 777 848.31 MHz
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RTAP	9.6	yes	24.49	24.48	24.47
RTAP	19.2	yes	24.49	24.60	24.51
RTAP	38.4	yes	24.56	24.55	24.54
RTAP	76.8	yes	24.59	24.57	24.58
RTAP	153.6	yes	24.57	24.50	24.48

Note: FTAP set to 2 slots at 307.2kbps

Application Configuration	Payload size (bits)	Supported	Ch 1013 824.70 MHz	Ch 384 836.52 MHz	Ch 777 848.31 MHz
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RETAP	256	yes	24.03	23.91	23.83
RETAP	512	yes	24.24	24.10	24.00
RETAP	1024	yes	24.42	24.29	24.21
RETAP	2048	yes	24.62	24.50	24.35
RETAP	3072	yes	24.86	24.71	24.64
RETAP	6144	yes	24.86	24.73	24.63
RETAP	12288	yes	24.88	24.76	24.68

Note: FETAP set to 2 slots at 307.2kbps

CDMA1900

Radio Configuration	Service Options and Channel Configurations	Supported	Ch25 1851.25MHz	Ch600 1880.00MHz	Ch1175 1908.75MHz
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RC1	S01	no	-	-	-
RC1	S02	yes	23.93	23.74	23.65
RC1	S03	no	-	-	-
RC1	S055	yes	23.90	23.78	23.60
RC2	S09	yes	23.84	23.61	23.55
RC2	S055	yes	23.90	23.67	23.53
RC3	S01	no	-	-	-
RC3	S02	yes	23.86	23.70	23.52
RC3	S03	no	-	-	-
RC3	S032 (no SCH1)	no	-	-	-
RC3	S032 (SCH1 9.6 kpbs)	no	-	-	-
RC3	S032 (SCH1 19.2 kpbs)	no	-	-	-
RC3	S032 (SCH1 38.4 kpbs)	no	-	-	-
RC3	S032 (SCH1 76.8 kpbs)	no	-	-	-
RC3	S032 (SCH1 153.6 kpbs)	no	-	-	-
RC3	S033 (SCH1 9.6 kpbs)	no	-	-	-
RC3	S033 (SCH1 19.2 kpbs)	no	-	-	-
RC3	S033 (SCH1 38.4 kpbs)	no	-	-	-
RC3	S033 (SCH1 76.8 kpbs)	no	-	-	-
RC3	S033 (SCH1 153.6 kpbs)	no	-	-	-
RC3	S055	yes	24.01	23.60	23.55
RC4	S01	no	-	-	-
RC4	S02	yes	24.03	23.80	23.56
RC4	S03	no	-	-	-
RC4	S032 (no SCH1)	no	-	-	-
RC4	S032 (SCH1 9.6 kpbs)	no	-	-	-
RC4	S032 (SCH1 19.2 kpbs)	no	-	-	-
RC4	S032 (SCH1 38.4 kpbs)	no	-	-	-
RC4	S032 (SCH1 76.8 kpbs)	no	-	-	-
RC4	S032 (SCH1 153.6 kpbs)	no	-	-	-
RC4	S033 (SCH1 9.6 kpbs)	no	-	-	-
RC4	S033 (SCH1 19.2 kpbs)	no	-	-	-
RC4	S033 (SCH1 38.4 kpbs)	no	-	-	-
RC4	S033 (SCH1 76.8 kpbs)	no	-	-	-
RC4	S033 (SCH1 153.6 kpbs)	no	-	-	-
RC4	S055	yes	23.97	23.78	23.55
RC5	S09	yes	23.90	23.67	23.64
RC5	S033 (SCH1 9.6 kpbs)	no	-	-	-
RC5	S033 (SCH1 19.2 kpbs)	no	-	-	-
RC5	S033 (SCH1 38.4 kpbs)	no	-	-	-

RC5	S033 (SCH1 76.8 kpbs)	no	-	-	-
RC5	S033 (SCH1 153.6 kpbs)	no	-	-	-
RC5	S055	yes	23.96	23.70	23.60

Application Configuration	Data Rate (kbps)	Supported	Ch25 1851.25MHz	Ch600 1880.00MHz	Ch1175 1908.75MHz
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RTAP	9.6	yes	23.44	23.43	23.42
RTAP	19.2	yes	23.41	23.40	23.41
RTAP	38.4	yes	23.44	23.46	23.48
RTAP	76.8	yes	23.49	23.48	23.48
RTAP	153.6	yes	23.51	23.53	23.54

Note: FTAP set to 2 slots at 307.2kbps

Application Configuration	Payload size (bits)	Supported	Ch25 1851.25MHz	Ch600 1880.00MHz	Ch1175 1908.75MHz
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RETAP	256	yes	23.20	22.87	22.85
RETAP	512	yes	23.49	23.08	23.02
RETAP	1024	yes	23.68	23.30	23.30
RETAP	2048	yes	23.95	23.54	23.58
RETAP	3072	yes	24.26	23.86	23.85
RETAP	6144	yes	24.33	23.94	23.95
RETAP	12288	yes	24.39	23.98	23.99

Note: FETAP set to 2 slots at 307.2kbps