

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:	Julian Kim	Product contact person:	Mary Washington
Measurements made by:	Julian Kim		
Tested device:	RM-375		
FCC ID:	QMNRM-375	IC:	661X-RM375
Supplement reports:	SD_SAR_0815_01		
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:			

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SAR Report

Type: RM-375

SD_SAR_0903_01

Applicant: Nokia Corporation

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1. SUMMARY OF SAR TEST REPORT

1.1 Test Details

Period of test	2009-01-13 to 2009-01-20
SN, HW and SW numbers of tested device	SN: A000000126A24D, HW: 6001, SW: DS_4453B_GEN, DUT: 3121
Batteries used in testing	BL-4B, DUT: 3122, 3123
Headsets used in testing	HS-9, DUT: 3124
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
CDMA800	777 / 848.31	23.65dBm	Right, Cheek	0.878W/kg	0.98W/kg	1.6 W/kg	PASSED
CDMA1700/2100	25 / 1711.25	23.64dBm	Left, Cheek	0.849W/kg	0.95W/kg	1.6 W/kg	PASSED
CDMA1900	25 / 1851.25	23.72dBm	Left, Cheek	0.797W/kg	0.89W/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
CDMA800	384 / 836.52	24.22dBm	2.2cm	0.483W/kg	0.54W/kg	1.6 W/kg	PASSED
CDMA1700/2100	875 / 1753.75	23.77dBm	2.2cm	0.249W/kg	0.28W/kg	1.6 W/kg	PASSED
CDMA1900	25 / 1851.25	23.72dBm	2.2cm	0.230W/kg	0.26W/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	0.38dB

1.2.4 Measurement Uncertainty

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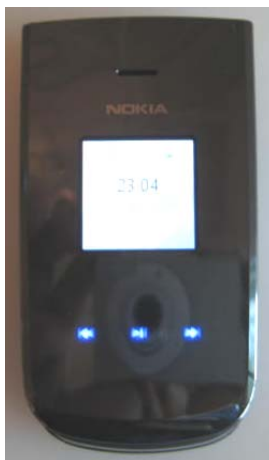
2. DESCRIPTION OF THE DEVICE UNDER TEST

Device category	Portable
Exposure environment	General population / uncontrolled

Modes of Operation	Bands	Modulation Mode	Duty Cycle	Transmitter Frequency Range (MHz)
CDMA	800 1700/2100 1900	QPSK	1	824 – 849 1710 - 1755 1850 – 1910
BT	2450	GFSK	1	2402 – 2480

This is a CDMA2000 1 x RTT device.

2.1 Picture of the Device



2.2 Description of the Antenna

The device has internal antenna.

3. TEST CONDITIONS

3.1 Temperature and Humidity

Ambient temperature (°C):	20.2 to 21.2
Ambient humidity (RH %):	30 to 42

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 number of test cases reported in this document has been minimized based on the earlier testing in SD_SAR_0815_01.

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	860	12 months	2009-06
DAE 4	858	12 months	2009-06
E-field Probe ET3DV6	1792	12 months	2009-04
E-field Probe ET3DV6	1516	12 months	2009-10
Dipole Validation Kit, D835V2	486	24 months	2010-10
Dipole Validation Kit, D1800V2	2d064	24 months	2009-08
Dipole Validation Kit, D19000V2	509	24 months	2010-06
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 40053677	24 months	2009-10
Signal Generator	HP E4432B	US 40052231	24 months	2010-06
Amplifier	Milmega AS0822-8L	1004832	-	-
Amplifier	Milmega AS0822-20L	1009777	-	-
Power Meter	Agilent E4419B	GB40202155	12 months	2009-03
Power Meter	Agilent E4417A	GB41290918	12 months	2009-01
Power Sensor	Agilent E9301A	US39211902	12 months	2009-07
Power Sensor	Agilent E9327A	US40440896	12 months	2009-04
Call Tester	Agilent 8960	GB45070553	-	-
Call Tester	CMU200	837727008	-	-
Vector Network Analyzer	Agilent 8753ES	US39174327	12 months	2009-05
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 Distance from probe tip to dipole centers: 2.7 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

4.2 Phantoms

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

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

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

4.3 Tissue Simulants

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

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

4.3.1 Tissue Simulant Recipes

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

800MHz band

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

1800MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	54.00	70.20
Tween 20	45.60	29.37
Salt	0.40	0.43

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	2.39	40.5	0.90	
	± 10% window	2.15 - 2.63			
	2009-01-15	2.28	40.5	0.88	21.2
1800	Reference result	9.70	39.6	1.41	
	± 10% window	8.73 - 10.67			
	2009-01-14	10.5	38.1	1.45	20.2
1900	Reference result	9.96	39.1	1.48	
	± 10% window	8.96 - 10.96			
	2009-01-13	10.8	37.8	1.42	21.0

System checking, body tissue simulant

f [MHz]	Description	SAR [W/kg], 1g	Dielectric Parameters		Temp [°C]
			ϵ_r	σ [S/m]	
835	Reference result	2.42	53.4	1.00	
	$\pm 10\%$ window	2.18 - 2.66			
	2009-01-16	2.40	53.1	0.98	21.1
1800	Reference result	9.39	54.8	1.48	
	$\pm 10\%$ window	8.45 - 10.33			
	2009-01-19	9.87	52.4	1.55	21.1
1900	Reference result	9.77	52.4	1.58	
	$\pm 10\%$ window	8.79 - 10.75			
	2009-01-20	10.5	52.3	1.52	21.1

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	
	2009-01-15	40.5	0.88	21.2
1732	Recommended value	40.1	1.36	
	$\pm 5\%$ window	38.1 – 42.1	1.29 – 1.43	
	2009-01-14	38.9	1.41	20.2
1880	Recommended value	40.0	1.40	
	$\pm 5\%$ window	38.0 – 42.0	1.33 – 1.47	
	2009-01-13	38.3	1.42	21.0

Body tissue simulant measurements

f [MHz]	Description	Dielectric Parameters		Temp [°C]
		ϵ_r	σ [S/m]	
836	Recommended value	55.2	0.97	21.1
	$\pm 5\%$ window	52.4 – 58.0	0.92 – 1.02	
	2009-01-16	53.1	0.98	
1732	Recommended value	53.5	1.48	21.1
	$\pm 5\%$ window	50.8 – 56.2	1.40 – 1.55	
	2009-01-19	53.3	1.51	
1880	Recommended value	53.3	1.52	21.1
	$\pm 5\%$ window	50.6 – 56.0	1.44 – 1.60	
	2009-01-20	52.7	1.52	

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".



Photo of the device in “cheek” position



Photo of the device in “tilt” position

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 the photo below using a separate flat spacer that was removed before the start of the measurements. The device was oriented with its back facing the phantom since this orientation gives higher results.



Photo of the device positioned for Body SAR measurement.
The spacer was removed for the tests.

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:

800MHz Head SAR results

Mode	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	24.46dBm	24.29dBm	23.65dBm
Flip open	Left	Cheek	-	-	-
		Tilt	-	-	-
	Right	Cheek	0.821	0.864	0.865
		Tilt	-	-	-
Flip open	Right Cheek, BT active		-	-	0.878

1700/2100MHz Head SAR results

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 25 1711.25 MHz	Ch 425 1732.5 MHz	Ch 875 1753.75 MHz
RC3 / S055		Power	23.64dBm	24.04dBm	23.77dBm
Flip open	Left	Cheek	0.830	0.682	0.596
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
Flip open	Left Cheek, BT active		0.849	-	-

1900MHz Head SAR results

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch25 1851.25MHz	Ch600 1880.00MHz	Ch1175 1908.75MHz
RC3 / S055		Power	23.72dBm	23.67dBm	23.73dBm
Flip open	Left	Cheek	0.785	0.612	0.678
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
Flip open	Left Cheek, BT active		0.797	-	-

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

800MHz Body SAR results

Mode	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		24.22dBm	24.22dBm	24.31dBm
Flip Closed	Without headset	0.434	0.483	0.355
	Headset HS-9	0.378	0.397	0.293
Flip Closed	Without headset, BT active	-	0.481	-

1700/2100MHz Body SAR results

Mode	Test configuration	SAR, averaged over 1g (W/kg)		
		Ch 25 1711.25 MHz	Ch 425 1732.5 MHz	Ch 875 1753.75 MHz
RC3 / S055 Power		23.64dBm	24.04dBm	23.77dBm
Flip Closed	Without headset	0.226	0.223	0.249
	Headset HS-9	0.201	0.213	0.224
Flip Closed	Without headset, BT active	-	-	0.236

1900MHz Body SAR results

Mode	Test configuration	SAR, averaged over 1g (W/kg)		
		Ch25 1851.25MHz	Ch600 1880.00MHz	Ch1175 1908.75MHz
RC3 / S055 Power		23.72dBm	23.67dBm	23.73dBm
Flip Closed	Without headset	0.226	0.200	0.177
	Headset HS-9	0.225	0.202	0.195
Flip Closed	Without headset, BT active	0.230	-	-

Plots of the Measurement scans are given in Appendix B.

APPENDIX A: SYSTEM CHECKING SCANS

Date/Time: 2009-01-15 12:00:02

Test Laboratory: TCC Nokia

Type: D835V2; Serial: D835V2 - SN:486

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL800; Medium Notes: Liquid temperature= 21.2 C

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.878 \text{ mho/m}$; $\epsilon_r = 40.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(6.26, 6.26, 6.26); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 2.47 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 = 56.3 V/m

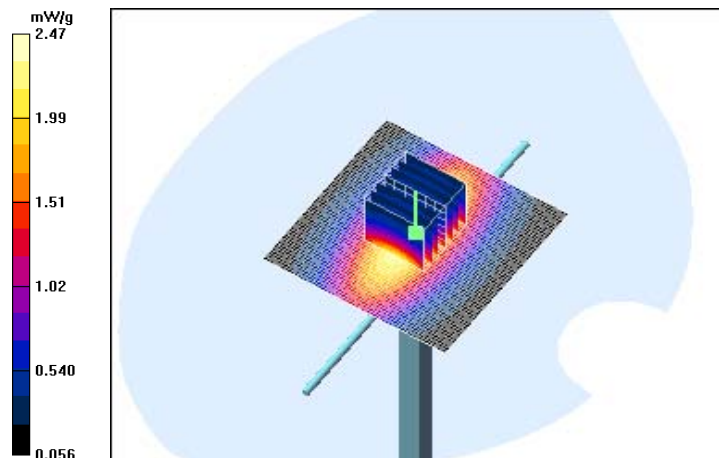
Peak SAR (extrapolated) = 3.05 W/kg

SAR(1 g) = 2.28 mW/g

SAR(10 g) = 1.52 mW/g

Power Drift = 0.010 dB

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



Date/Time: 2009-01-14 12:18:03

Test Laboratory: TCC Nokia

Type: D1800V2; Serial: D1800V2 - SN:2d064

Communication System: CW1800

Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: HSL1800; Medium Notes: Temperature: 20.2 C

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(5.1, 5.1, 5.1); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn858; Calibrated: 2008-06-12
- Phantom: SAM 2 ; Type: Twin Phantom; Serial: NMP03309
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 12.3 mW/g

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

Reference Value = 80.9 V/m

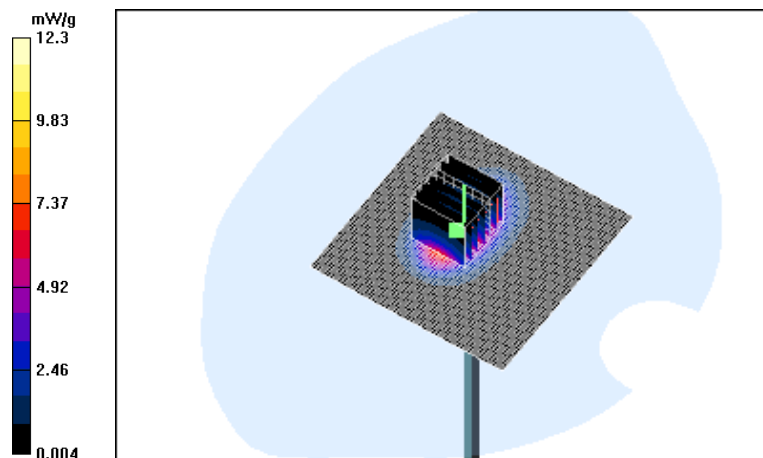
Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 10.5 mW/g

SAR(10 g) = 5.55 mW/g

Power Drift = 0.084 dB

Maximum value of SAR (measured) = 11.8 mW/g



Date/Time: 2009-01-13 11:38:40

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN:509

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: Temperature: 21.0 C

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 37.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; Probe Notes:
- ConvF(5.12, 5.12, 5.12); Calibrated: 2008-04-14
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn858; Calibrated: 2008-06-12
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 12.7 mW/g

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

Reference Value = 86.2 V/m

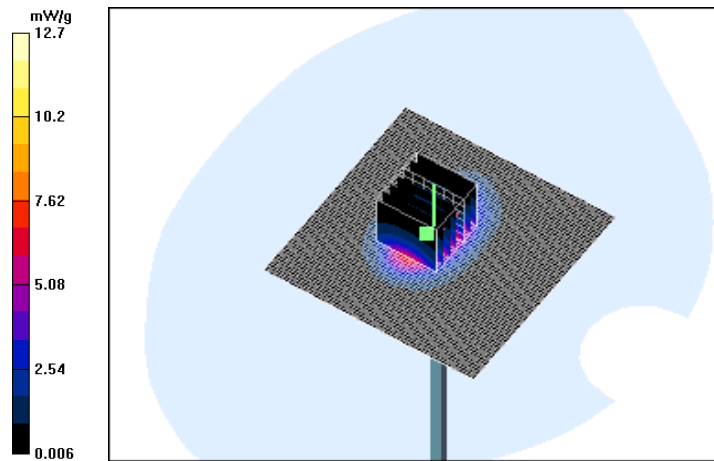
Peak SAR (extrapolated) = 19.1 W/kg

SAR(1 g) = 10.8 mW/g

SAR(10 g) = 5.64 mW/g

Power Drift = -0.020 dB

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



Date/Time: 2009-01-16 10:45:05

Test Laboratory: TCC Nokia

Type: D835V2; Serial: D835V2 - SN:486

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL800; Medium Notes: Liquid temperature= 21.1 C

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(6.01, 6.01, 6.01); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 2.62 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 = 54.7 V/m

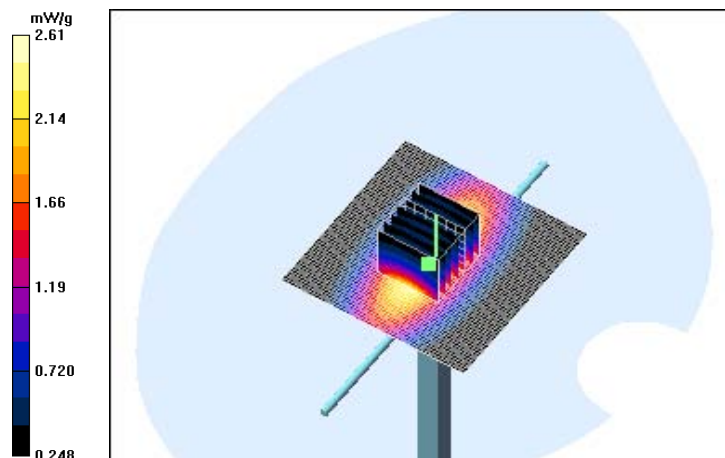
Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 2.4 mW/g

SAR(10 g) = 1.6 mW/g

Power Drift = 0.011 dB

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



Date/Time: 2009-01-19 12:02:49

Test Laboratory: TCC Nokia

Type: D1800V2; Serial: D1800V2 - SN:2d064

Communication System: CW1800

Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: MSL1800; Medium Notes: Liquid temperature= 21.1 C

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(4.76, 4.76, 4.76); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

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

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

Reference Value = 90.1 V/m

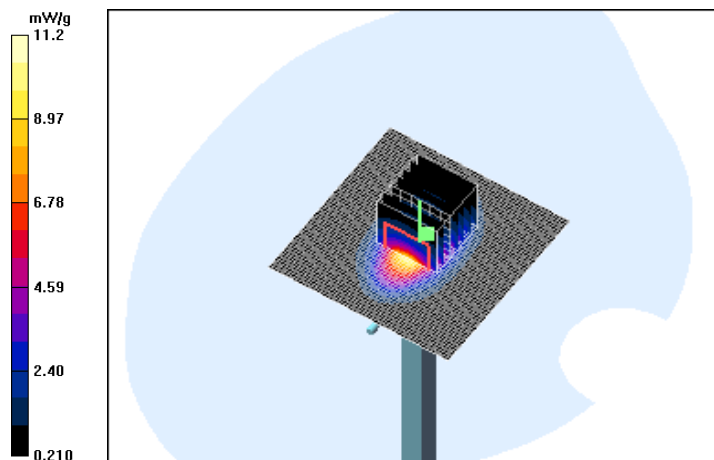
Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 9.87 mW/g

SAR(10 g) = 5.29 mW/g

Power Drift = -0.012 dB

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



Date/Time: 2009-01-20 10:32:13

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN:509

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: Liquid temperature= 21.1 C

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(4.76, 4.76, 4.76); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

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

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

Reference Value = 93.1 V/m

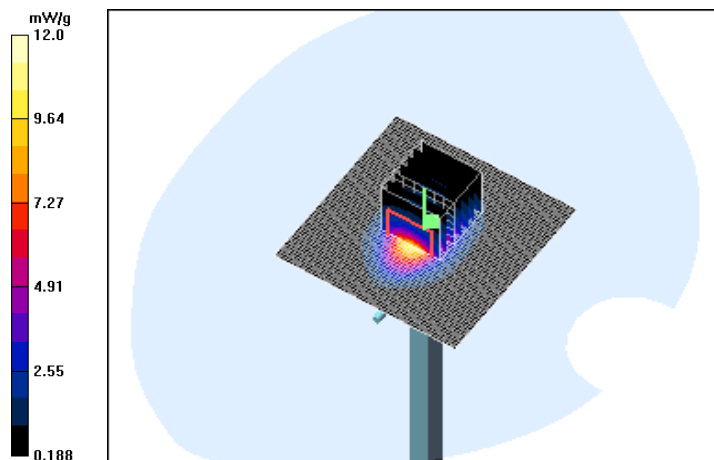
Peak SAR (extrapolated) = 19.0 W/kg

SAR(1 g) = 10.5 mW/g

SAR(10 g) = 5.52 mW/g

Power Drift = 0.029 dB

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



APPENDIX B: MEASUREMENT SCANS

Date/Time: 2009-01-15 16:10:04

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA800

Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: HSL800; Medium Notes: Liquid temperature= 21.2 C

Medium parameters used (interpolated): $f = 848.31$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(6.26, 6.26, 6.26); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek, High, Flip open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.937 mW/g

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

Reference Value = 6.33 V/m

Peak SAR (extrapolated) = 1.80 W/kg

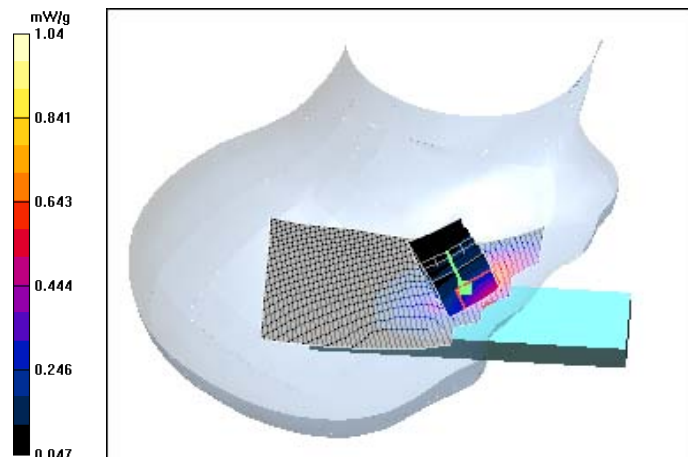
SAR(1 g) = 0.865 mW/g

SAR(10 g) = 0.476 mW/g

Power Drift = 0.107 dB

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

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



Date/Time: 2009-01-15 17:33:57

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA800

Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: HSL800; Medium Notes: Liquid temperature= 21.2 C

Medium parameters used (interpolated): $f = 848.31$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(6.26, 6.26, 6.26); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Cheek, High, BT active, Flip open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 7.19 V/m

Peak SAR (extrapolated) = 1.87 W/kg

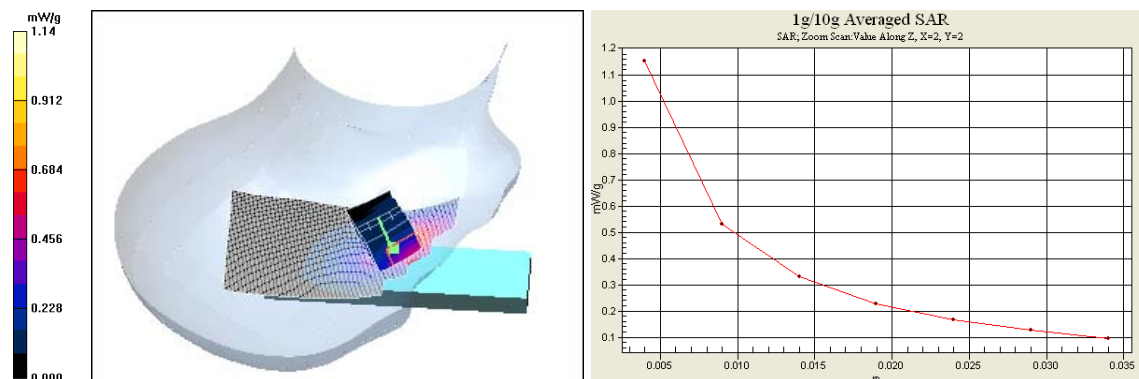
SAR(1 g) = 0.878 mW/g

SAR(10 g) = 0.486 mW/g

Power Drift = 0.002 dB

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

Maximum value of SAR (measured) = 1.15 mW/g



SAR Report

SD_SAR_0903_01

Applicant: Nokia Corporation

Type: RM-375

Copyright © 2009 TCC Nokia

Date/Time: 2009-01-14 14:29:09

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA1700/2100

Frequency: 1711.25 MHz; Duty Cycle: 1:1

Medium: HSL1800; Medium Notes: Temperature: 20.2 C

Medium parameters used (interpolated): $f = 1711.25$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(5.1, 5.1, 5.1); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn858; Calibrated: 2008-06-12
- Phantom: SAM 2 ; Type: Twin Phantom; Serial: NMP03309
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 0.903 mW/g

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

Reference Value = 7.17 V/m

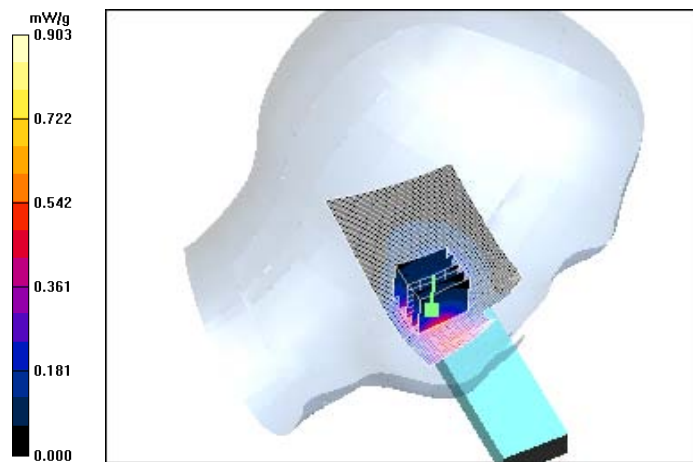
Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.830 mW/g

SAR(10 g) = 0.467 mW/g

Power Drift = -0.017 dB

Maximum value of SAR (measured) = 0.908 mW/g



Date/Time: 2009-01-14 15:58:09

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA1700/2100

Frequency: 1711.25 MHz; Duty Cycle: 1:1

Medium: HSL1800; Medium Notes: Temperature: 20.2 C

Medium parameters used (interpolated): $f = 1711.25$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:

- ConvF(5.1, 5.1, 5.1); Calibrated: 2008-10-21

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

- Electronics: DAE4 Sn858; Calibrated: 2008-06-12

- Phantom: SAM 2 ; Type: Twin Phantom; Serial: NMP03309

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 0.890 mW/g

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

Reference Value = 7.58 V/m

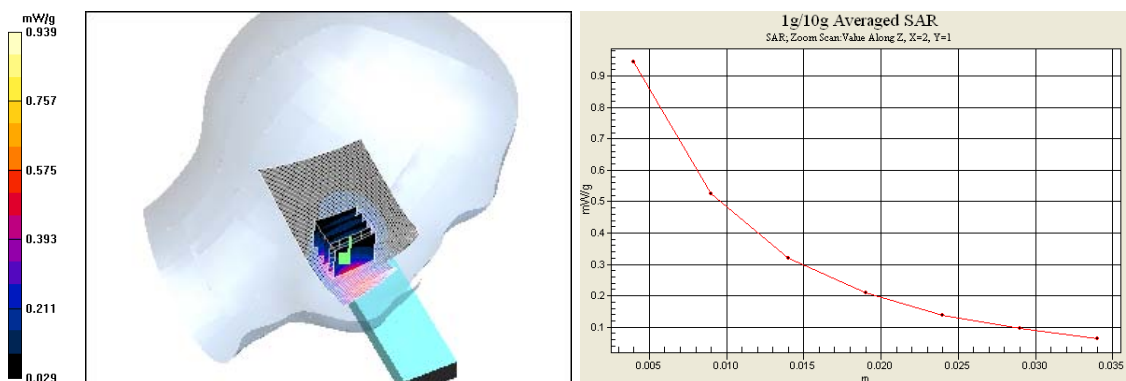
Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.849 mW/g

SAR(10 g) = 0.480 mW/g

Power Drift = -0.144 dB

Maximum value of SAR (measured) = 0.939 mW/g



SAR Report

SD_SAR_0903_01

Applicant: Nokia Corporation

Type: RM-375

Copyright © 2009 TCC Nokia

Date/Time: 2009-01-13 13:07:54

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: Temperature: 21.0 C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; Probe Notes:
- ConvF(5.12, 5.12, 5.12); Calibrated: 2008-04-14
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn858; Calibrated: 2008-06-12
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 0.897 mW/g

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

Reference Value = 5.70 V/m

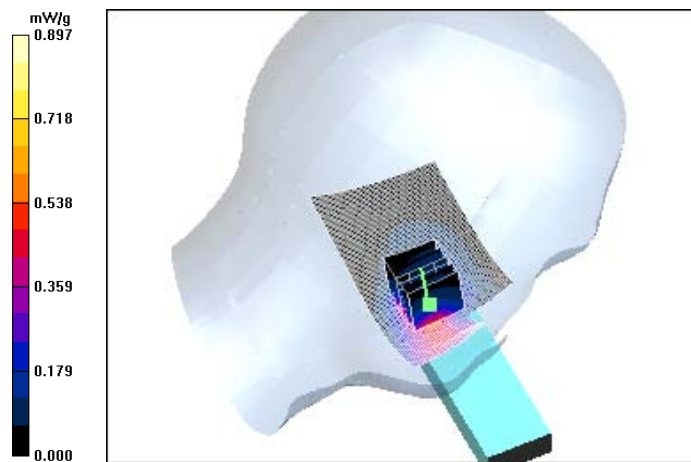
Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.785 mW/g

SAR(10 g) = 0.436 mW/g

Power Drift = -0.215 dB

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



Date/Time: 2009-01-13 14:34:44

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: Temperature: 21.0 C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; Probe Notes:
- ConvF(5.12, 5.12, 5.12); Calibrated: 2008-04-14
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn858; Calibrated: 2008-06-12
- Phantom: SAM 3; Type: Twin Phantom; Serial: NMP03311
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 0.908 mW/g

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

Reference Value = 5.68 V/m

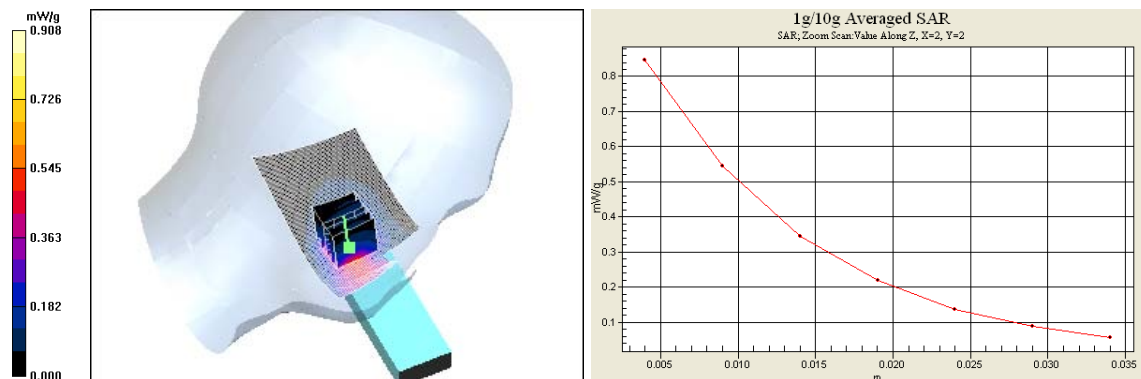
Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.797 mW/g

SAR(10 g) = 0.444 mW/g

Power Drift = -0.077 dB

Maximum value of SAR (measured) = 0.846 mW/g



SAR Report

SD_SAR_0903_01

Applicant: Nokia Corporation

Type: RM-375

Copyright © 2009 TCC Nokia

Date/Time: 2009-01-16 11:36:48

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA800

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL800; Medium Notes: Liquid temperature= 21.1 C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.983$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(6.01, 6.01, 6.01); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body, Middle, No accessory, Flip closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.508 mW/g

Body, Middle, No accessory, Flip closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.2 V/m

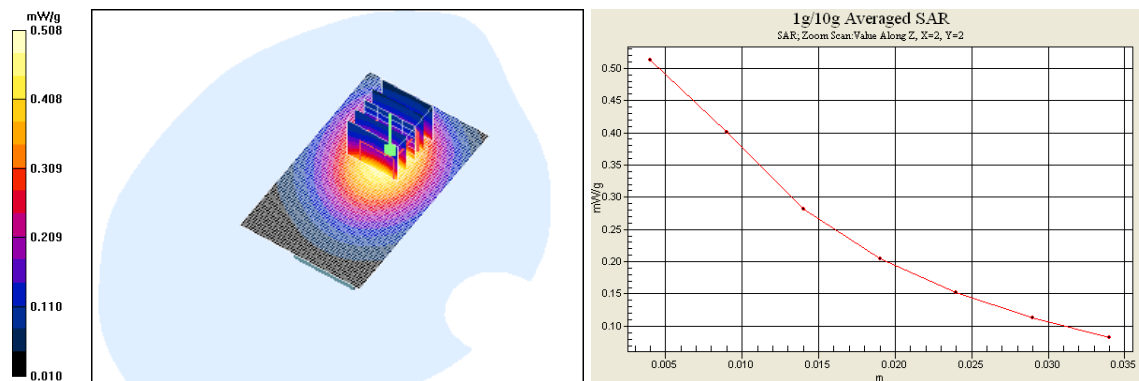
Peak SAR (extrapolated) = 0.583 W/kg

SAR(1 g) = 0.483 mW/g

SAR(10 g) = 0.346 mW/g

Power Drift = 0.155 dB

Maximum value of SAR (measured) = 0.512 mW/g



SAR Report

SD_SAR_0903_01

Applicant: Nokia Corporation

Type: RM-375

Copyright © 2009 TCC Nokia

Date/Time: 2009-01-16 12:32:26

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA800

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL800; Medium Notes: Liquid temperature= 21.1 C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.983$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(6.01, 6.01, 6.01); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body, Middle, HS-9, Flip closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.439 mW/g

Body, Middle, HS-9, Flip closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.4 V/m

Peak SAR (extrapolated) = 0.489 W/kg

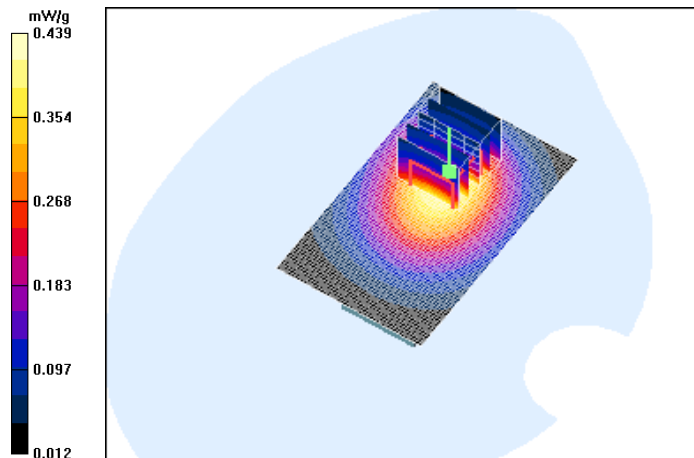
SAR(1 g) = 0.397 mW/g

SAR(10 g) = 0.287 mW/g

Power Drift = -0.134 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) = 0.420 mW/g



Date/Time: 2009-01-16 13:23:43

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA800

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: Liquid temperature= 21.1 C

Medium parameters used: $f = 837$ MHz; $\sigma = 0.983$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(6.01, 6.01, 6.01); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body, Middle, No Accessory, BT active, Flip closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Body, Middle, No Accessory, BT active, Flip closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.9 V/m

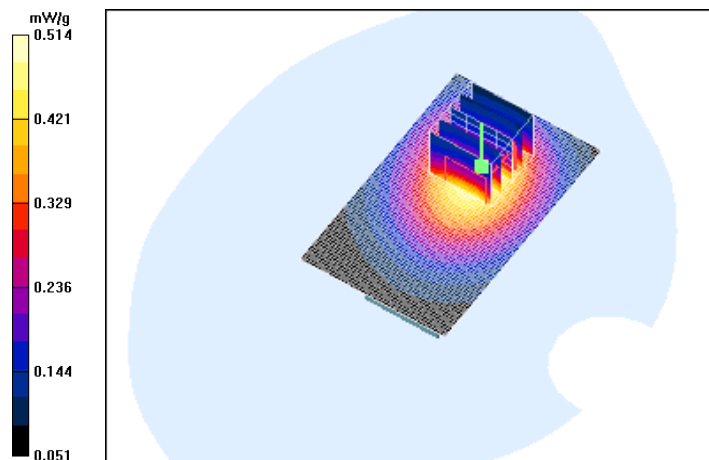
Peak SAR (extrapolated) = 0.585 W/kg

SAR(1 g) = 0.481 mW/g

SAR(10 g) = 0.349 mW/g

Power Drift = -0.039 dB

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



Date/Time: 2009-01-19 13:39:01

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA1700/2100

Frequency: 1753.75 MHz; Duty Cycle: 1:1

Medium: MSL1800; Medium Notes: Liquid temperature= 21.1 C

Medium parameters used: $f = 1754$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(4.76, 4.76, 4.76); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body, High, No accessory, Flip closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.260 mW/g

Body, High, No accessory, Flip closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.9 V/m

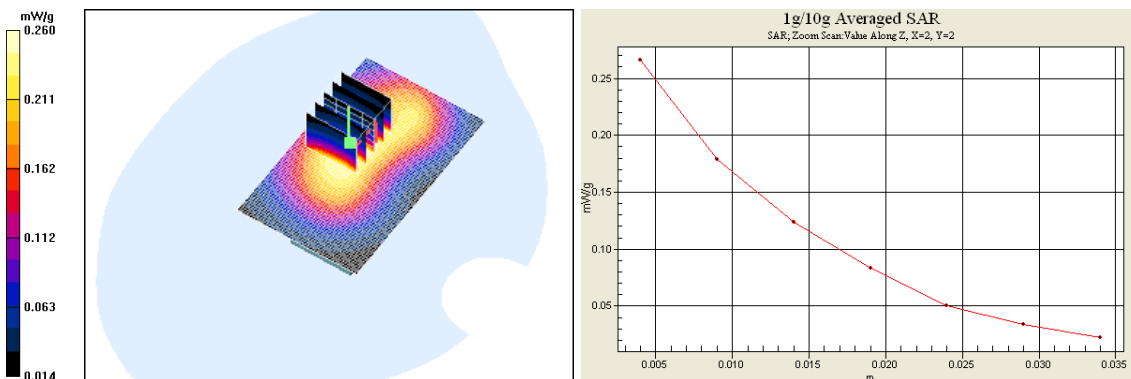
Peak SAR (extrapolated) = 0.363 W/kg

SAR(1 g) = 0.249 mW/g

SAR(10 g) = 0.166 mW/g

Power Drift = 0.112 dB

Maximum value of SAR (measured) = 0.266 mW/g



SAR Report

SD_SAR_0903_01

Applicant: Nokia Corporation

Type: RM-375

Copyright © 2009 TCC Nokia

Date/Time: 2009-01-19 14:31:54

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA1700/2100

Frequency: 1753.75 MHz; Duty Cycle: 1:1

Medium: MSL1800; Medium Notes: Liquid temperature= 21.1 C

Medium parameters used: $f = 1754$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(4.76, 4.76, 4.76); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body, High, HS-9, Flip closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Body, High, HS-9, Flip closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.00 V/m

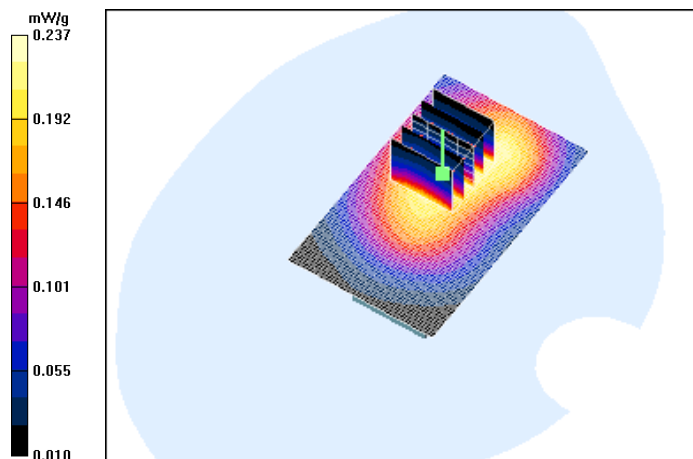
Peak SAR (extrapolated) = 0.332 W/kg

SAR(1 g) = 0.224 mW/g

SAR(10 g) = 0.147 mW/g

Power Drift = 0.061 dB

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



SAR Report

SD_SAR_0903_01

Applicant: Nokia Corporation

Type: RM-375

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Date/Time: 2009-01-19 15:05:31

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA1700/2100

Frequency: 1753.75 MHz; Duty Cycle: 1:1

Medium: MSL1800; Medium Notes: Liquid temperature= 21.1 C

Medium parameters used: $f = 1754$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(4.76, 4.76, 4.76); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body, High, No accessory, BT active, Flip closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Body, High, No accessory, BT active, Flip closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.6 V/m

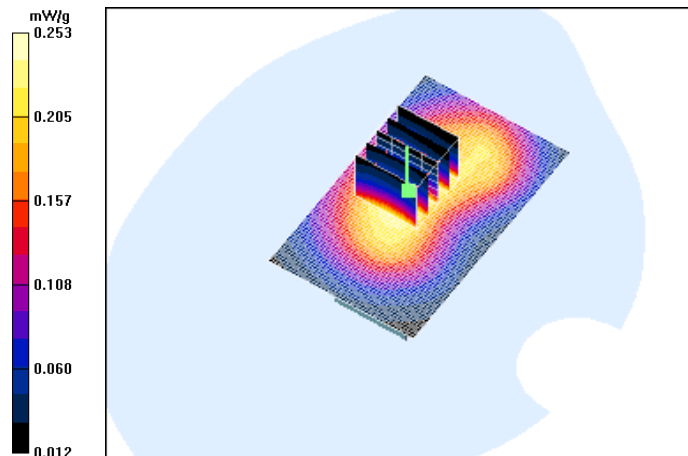
Peak SAR (extrapolated) = 0.349 W/kg

SAR(1 g) = 0.236 mW/g

SAR(10 g) = 0.157 mW/g

Power Drift = 0.029 dB

Maximum value of SAR (measured) = 0.253 mW/g



Date/Time: 2009-01-20 11:51:49

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: Liquid temperature= 21.1 C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(4.76, 4.76, 4.76); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body, Low, No accessory, Flip closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Body, Low, No accessory, Flip closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.90 V/m

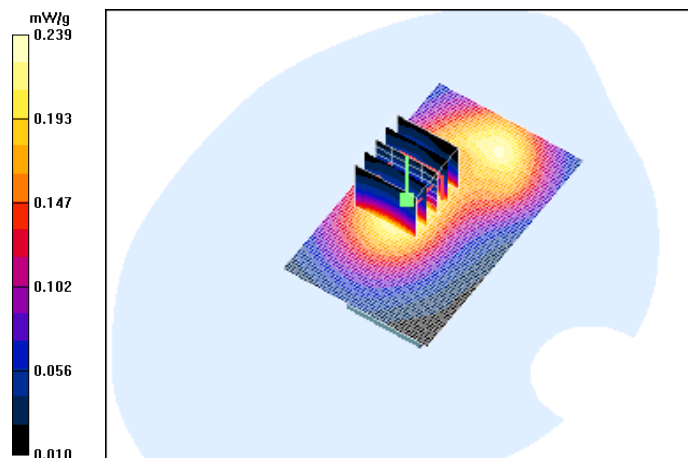
Peak SAR (extrapolated) = 0.333 W/kg

SAR(1 g) = 0.226 mW/g

SAR(10 g) = 0.150 mW/g

Power Drift = -0.024 dB

Maximum value of SAR (measured) = 0.239 mW/g



Date/Time: 2009-01-20 13:38:33

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: Liquid temperature= 21.1 C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(4.76, 4.76, 4.76); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body, Low, HS-9, Flip closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.253 mW/g

Body, Low, HS-9, Flip closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.72 V/m

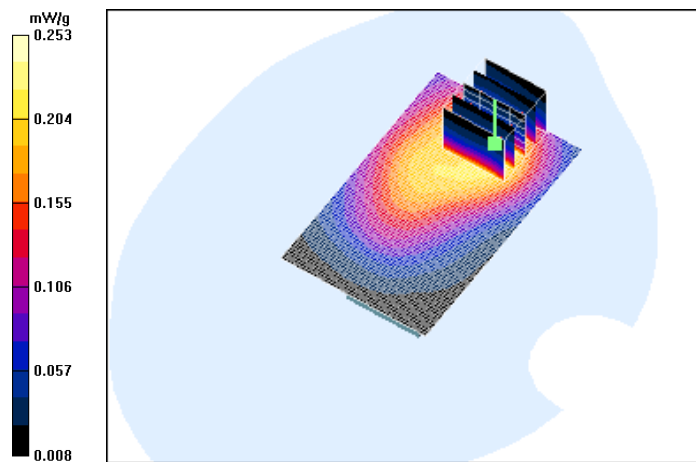
Peak SAR (extrapolated) = 0.355 W/kg

SAR(1 g) = 0.225 mW/g

SAR(10 g) = 0.145 mW/g

Power Drift = -0.142 dB

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



Date/Time: 2009-01-20 15:21:49

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

Communication System: CDMA1900

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: Liquid temperature= 21.1 C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1516; Probe Notes:
- ConvF(4.76, 4.76, 4.76); Calibrated: 2008-10-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2008-06-12
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body, Middle, No accessory, BT active, Flip closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.240 mW/g

Body, Middle, No accessory, BT active, Flip closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.65 V/m

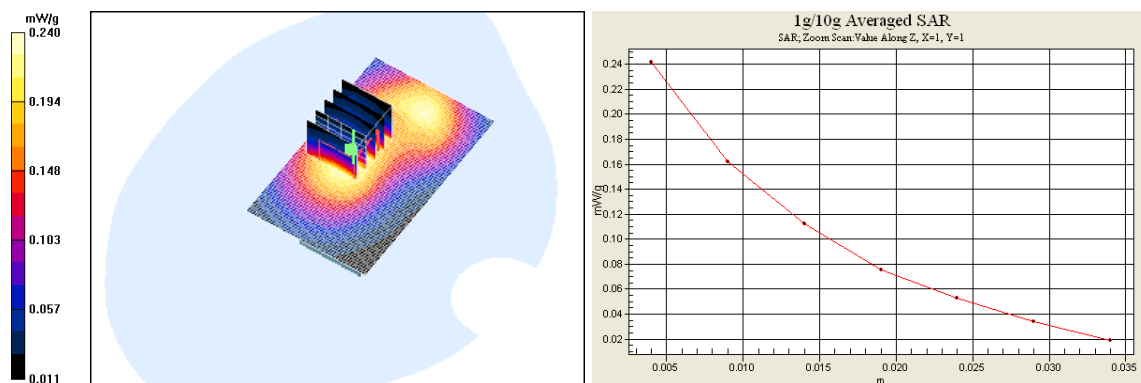
Peak SAR (extrapolated) = 0.353 W/kg

SAR(1 g) = 0.230 mW/g

SAR(10 g) = 0.153 mW/g

Power Drift = 0.038 dB

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



SAR Report

SD_SAR_0903_01

Applicant: Nokia Corporation

Type: RM-375

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

**Calibration Laboratory of
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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Nokia SD TCC**

Certificate No: **ET3-1516_Oct08**

CALIBRATION CERTIFICATE

Object **ET3DV6 - SN:1516**

Calibration procedure(s) **QA CAL-01.v6 and QA CAL-23.v3
Calibration procedure for dosimetric E-field probes**

Calibration date: **October 21, 2008**

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)

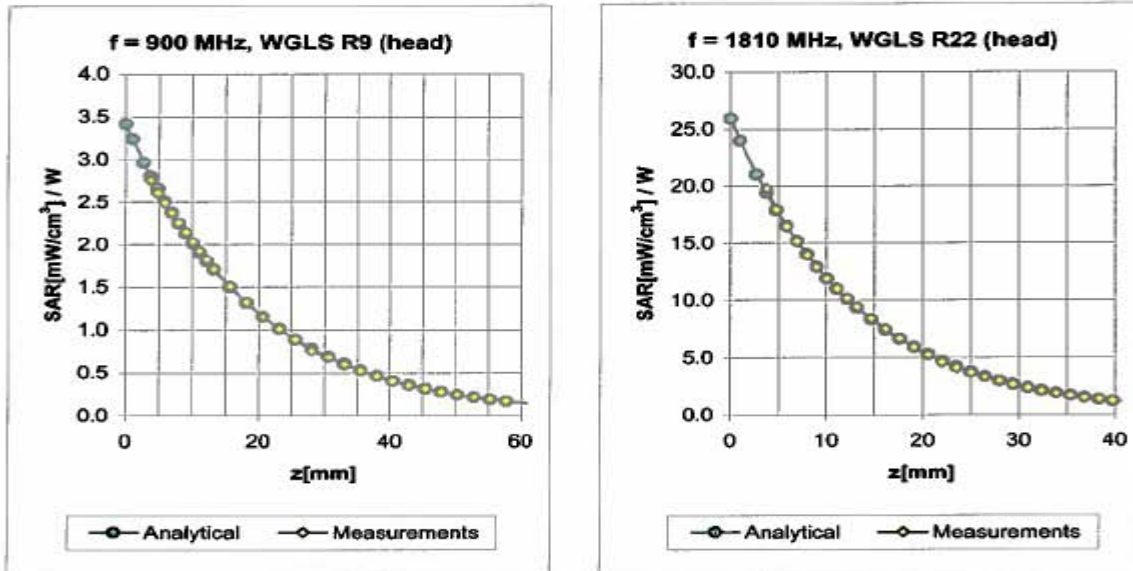
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	1-Apr-08 (No. 217-00788)	Apr-09
Power sensor E4412A	MY41495277	1-Apr-08 (No. 217-00788)	Apr-09
Power sensor E4412A	MY41498087	1-Apr-08 (No. 217-00788)	Apr-09
Reference 3 dB Attenuator	SN: S5054 (3c)	1-Jul-08 (No. 217-00865)	Jul-09
Reference 20 dB Attenuator	SN: S5086 (20b)	31-Mar-08 (No. 217-00787)	Apr-09
Reference 30 dB Attenuator	SN: S5129 (30b)	1-Jul-08 (No. 217-00866)	Jul-09
Reference Probe ES3DV2	SN: 3013	2-Jan-08 (No. ES3-3013_Jan08)	Jan-09
DAE4	SN: 660	9-Sep-08 (No. DAE4-660_Sep08)	Sep-09
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-07)	In house check: Oct-08

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

Issued: October 21, 2008

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

Conversion Factor Assessment



f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.39	3.35	6.26 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.55	2.34	5.10 ± 11.0% (k=2)
1950	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.58	2.29	4.81 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.90	1.80	4.29 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.53	2.57	6.01 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.65	2.23	4.76 ± 11.0% (k=2)
1950	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.65	2.24	4.66 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.99	1.80	3.83 ± 11.0% (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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Accreditation No.: **SCS 108**

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client **Nokia SD TCC**

Certificate No: **ET3-1792_Apr08**

CALIBRATION CERTIFICATE

Object **ET3DV6 - SN:1792**

Calibration procedure(s) **QA CAL-01.v6 and QA CAL-23.v3
Calibration procedure for dosimetric E-field probes**

Calibration date: **April 14, 2008**

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 (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	1-Apr-08 (No. 217-00788)	Apr-09
Power sensor E4412A	MY41495277	1-Apr-08 (No. 217-00788)	Apr-09
Power sensor E4412A	MY41498087	1-Apr-08 (No. 217-00788)	Apr-09
Reference 3 dB Attenuator	SN: S5054 (3c)	8-Aug-07 (No. 217-00719)	Aug-08
Reference 20 dB Attenuator	SN: S5086 (20b)	31-Mar-08 (No. 217-00787)	Apr-09
Reference 30 dB Attenuator	SN: S5129 (30b)	8-Aug-07 (No. 217-00720)	Aug-08
Reference Probe ES3DV2	SN: 3013	2-Jan-08 (No. ES3-3013_Jan08)	Jan-09
DAE4	SN: 654	20-Apr-07 (No. DAE4-654_Apr07)	Apr-08

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-07)	In house check: Oct-08

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

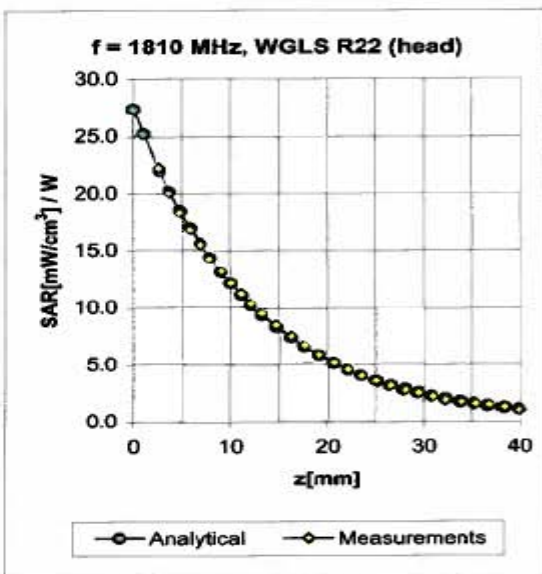
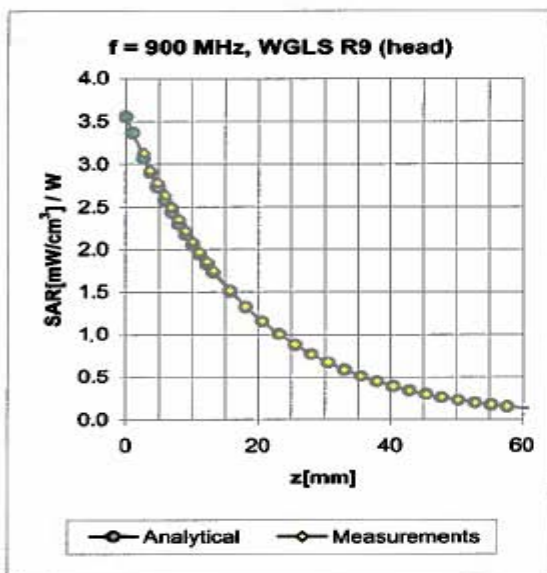
Issued: April 16, 2008

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

ET3DV6 SN:1792

April 14, 2008

Conversion Factor Assessment



f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.87	1.61	6.55 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.51	2.45	5.12 ± 11.0% (k=2)
1950	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.51	2.30	4.75 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.72	1.84	4.24 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.76	1.81	5.99 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.51	2.45	5.16 ± 11.0% (k=2)
1950	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.55	2.17	4.90 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.70	1.88	4.11 ± 11.0% (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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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Nokia SD TCC**

Certificate No: **D835V2-486_Oct08**

CALIBRATION CERTIFICATE

Object **D835V2 - SN: 486**

Calibration procedure(s) **QA CAL-05.v7**
Calibration procedure for dipole validation kits

Calibration date: **October 22, 2008**

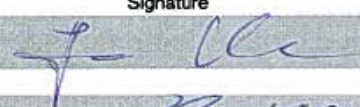
Condition of the calibrated item **In Tolerance**

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 (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	08-Oct-08 (No. 217-00898)	Oct-09
Power sensor HP 8481A	US37292783	08-Oct-08 (No. 217-00898)	Oct-09
Reference 20 dB Attenuator	SN: 5086 (20g)	01-Jul-08 (No. 217-00864)	Jul-09
Type-N mismatch combination	SN: 5047.2 / 06327	01-Jul-08 (No. 217-00867)	Jul-09
Reference Probe ES3DV2	SN: 3025	28-Apr-08 (No. ES3-3025_Apr08)	Apr-09
DAE4	SN: 601	14-Mar-08 (No. DAE4-601_Mar08)	Mar-09
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-07)	In house check: Oct-09
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585 S4208	18-Oct-01 (in house check Oct-07)	In house check: Oct-08

Calibrated by:	Name Jeton Kastrati	Function Laboratory Technician	Signature 
Approved by:	Name Katja Pokovic	Technical Manager	

Issued: October 22, 2008

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

DASY5 Validation Report for Head TSL

Date/Time: 22.10.2008 11:34:32

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:486

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

Medium: HSL 900 MHz

Medium parameters used: $f = 835$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

DASY5 Configuration:

- Probe: ES3DV2 - SN3025; ConvF(5.97, 5.97, 5.97); Calibrated: 28.04.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- Measurement SW: DASY5, V5.0 Build 120; SEMCAD X Version 13.4 Build 45

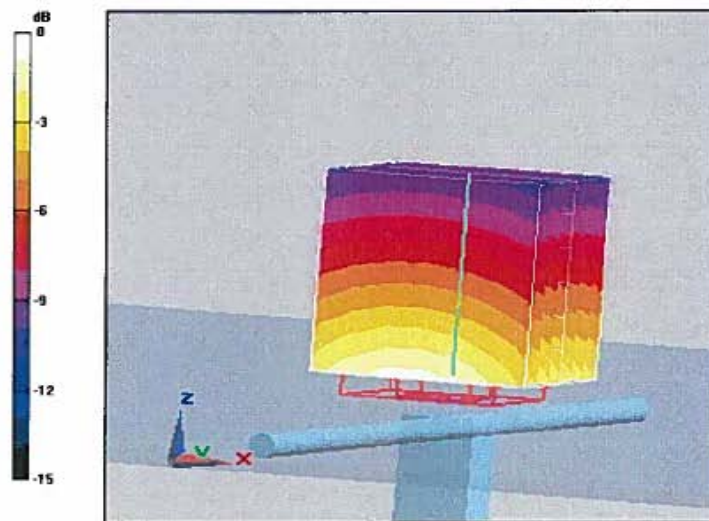
Pin=250mW; dip=15mm; dist=3.4mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.9 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 3.52 W/kg

SAR(1 g) = 2.39 mW/g; SAR(10 g) = 1.57 mW/g

Maximum value of SAR (measured) = 2.7 mW/g



0 dB = 2.7mW/g

DASY5 Validation Report for Body TSL

Date/Time: 20.10.2008 10:14:40

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:486

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

Medium: MSL900

Medium parameters used: $f = 835$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

DASY5 Configuration:

- Probe: ES3DV2 - SN3025; ConvF(5.9, 5.9, 5.9); Calibrated: 28.04.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- Measurement SW: DASY5, V5.0 Build 120; SEMCAD X Version 13.4 Build 45

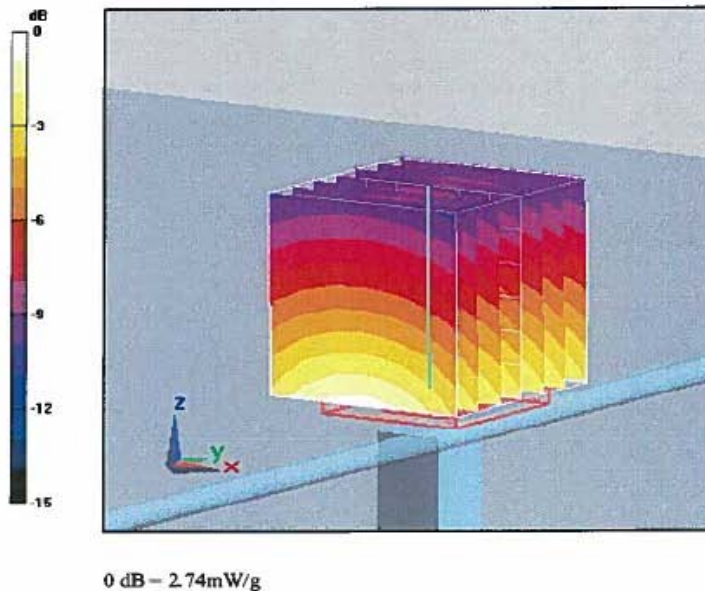
Pin = 250mW, d = 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.5 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.6 mW/g

Maximum value of SAR (measured) = 2.74 mW/g



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS-108**

Client **Nokia SD TCC**

Certificate No: **D1800V2-2d064_Aug07**

CALIBRATION CERTIFICATE

Object **D1800V2 - SN: 2d064**

Calibration procedure(s) **QA CAL-05.v7
Calibration procedure for dipole validation kits**

Calibration date: **August 28, 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 ± 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)	07-Aug-07 (METAS, No 217-00718)	Aug-08
Reference 10 dB Attenuator	SN: 5047.2 (10r)	07-Aug-07 (METAS, No 217-00718)	Aug-08
Reference Probe ET3DV6	SN: 1507	19-Oct-06 (SPEAG, No. ET3-1507_Oct06)	Oct-07
DAE4	SN 601	30-Jan-07 (SPEAG, No. DAE4-601_Jan07)	Jan-08
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:	Name Marcel Fehr	Function Laboratory Technician	Signature
Approved by:	Katja Pokovic	Technical Manager	

Issued: August 28, 2007

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DASY4 Validation Report for Head TSL

Date/Time: 28.08.2007 12:05:10

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d064

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: HSL U10 BB;

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507 (HF); ConvF(5.03, 5.03, 5.03); Calibrated: 19.10.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.01.2007
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

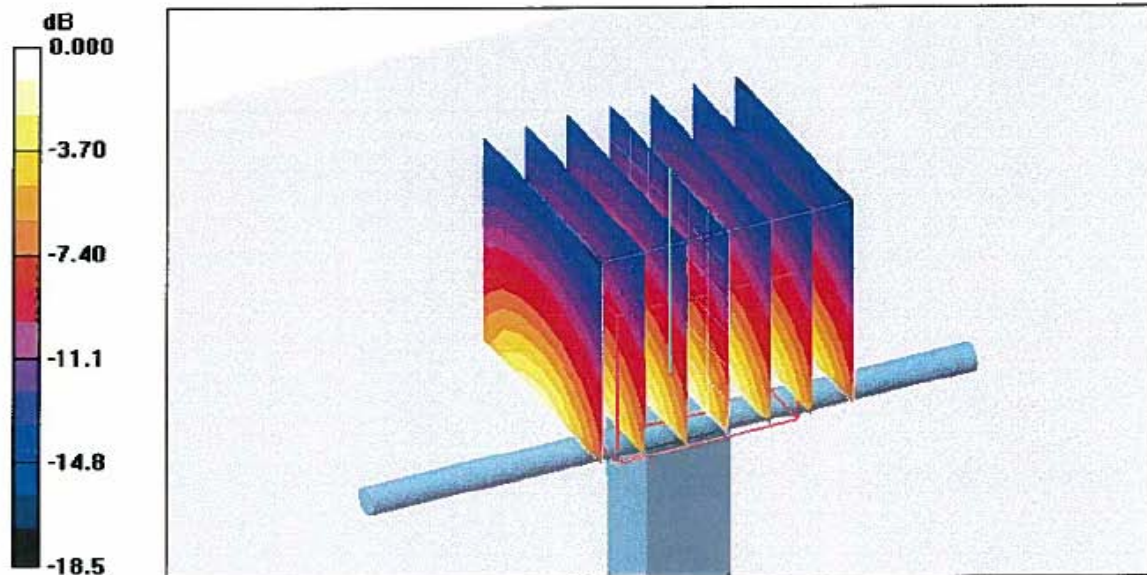
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.1 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 9.7 mW/g; SAR(10 g) = 5.14 mW/g

Maximum value of SAR (measured) = 11.0 mW/g



0 dB = 11.0mW/g

DASY4 Validation Report for Body TSL

Date/Time: 28.08.2007 15:38:17

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d064

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: MSL U10 BB;

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507 (HF); ConvF(4.47, 4.47, 4.47); Calibrated: 19.10.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.01.2007
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

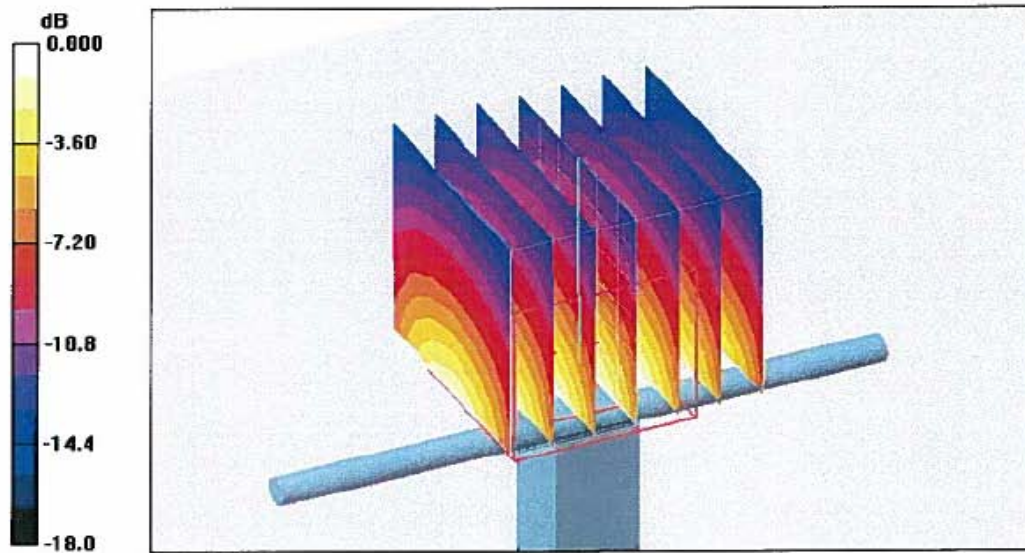
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.7 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 15.2 W/kg

SAR(1 g) = 9.39 mW/g; SAR(10 g) = 5.14 mW/g

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



0 dB = 10.6mW/g

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



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
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Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Nokia SD TCC**

Certificate No: **D1900V2-509-Jun08**

CALIBRATION CERTIFICATE

Object **D1900V2 - SN: 509**

Calibration procedure(s) **QA CAL-05.v7
Calibration procedure for dipole validation kits**

Calibration date: **June 19, 2008**

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-07 (No. 217-00736)	Oct-08
Power sensor HP 8481A	US37292783	04-Oct-07 (No. 217-00736)	Oct-08
Reference 20 dB Attenuator	SN: 5086 (20g)	07-Aug-07 (No. 217-00718)	Aug-08
Type-N mismatch combination	SN: 5047.2 / 06327	08-Aug-07 (No. 217-00721)	Aug-08
Reference Probe ES3DV2	SN: 3025	28-Apr-08 (No. ES3-3025_Apr08)	Apr-09
DAE4	SN: 601	14-Mar-08 (No. DAE4-601_Mar08)	Mar-09

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-07)	In house check: Oct-08
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-07)	In house check: Oct-08

Calibrated by: **Claudio Leutler** Laboratory Technician

Signature

Approved by: **Katja Pokovic** Technical Manager

Issued: June 23, 2008

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DASY4 Validation Report for Head TSL

Date/Time: 18.06.2008 14:57:06

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:509

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

Medium: HSL U10 BB;

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 39.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3025; ConvF(4.9, 4.9, 4.9); Calibrated: 28.04.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

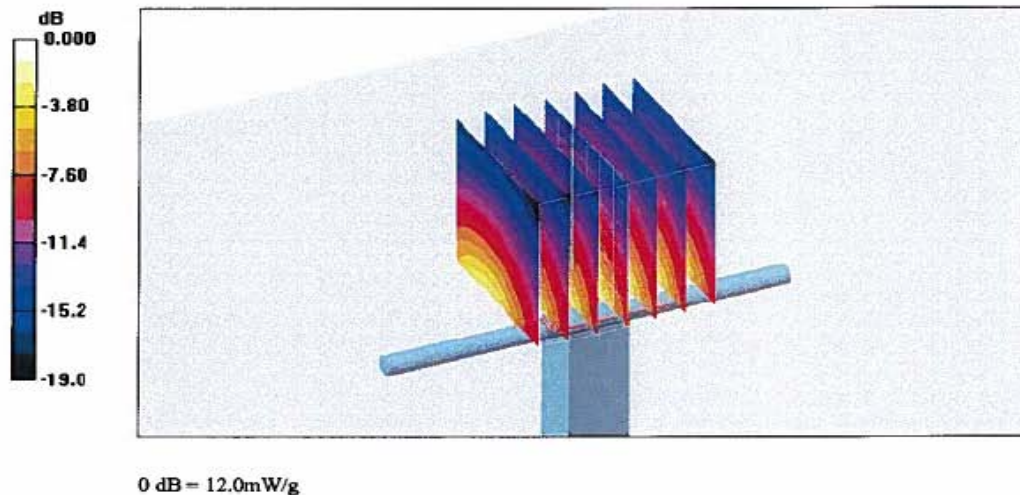
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.2 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 18.5 W/kg

SAR(1 g) = 9.96 mW/g; SAR(10 g) = 5.12 mW/g

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



DASY4 Validation Report for Body TSL

Date/Time: 19.06.2008 15:04:52

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:509

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

Medium: MSL U10 BB;

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3025; ConvF(4.5, 4.5, 4.5); Calibrated: 28.04.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

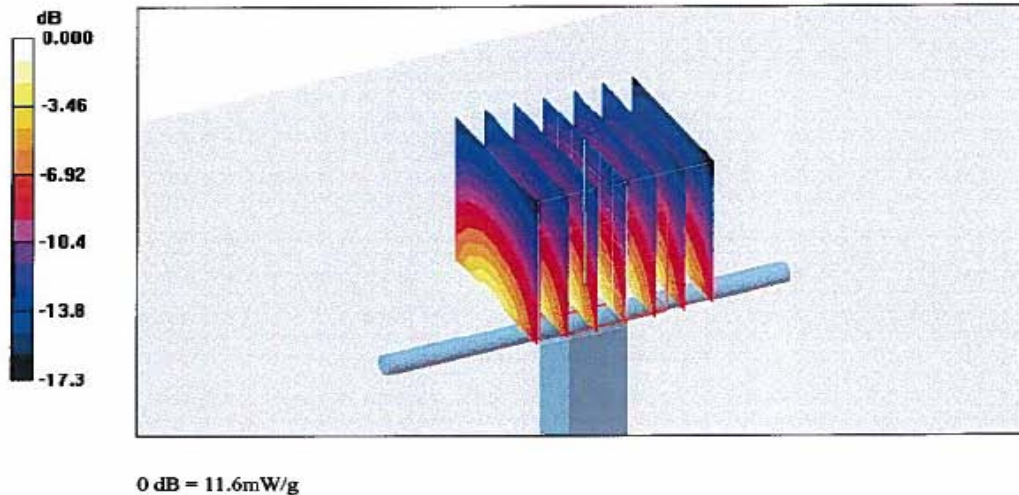
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.6 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 9.77 mW/g; SAR(10 g) = 5.11 mW/g

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



APPENDIX E: CONDUCTED POWER MEASUREMENTS FOR SUPPORTED TRANSMISSION MODES

Test Laboratory: TCC Nokia

Type: RM-375; Serial: A000000126A24D

CDMA800 Flip Open

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	23.84	23.74	23.93
RC1	S03	Yes	24.36	24.55	23.72
RC1	S06	No			
RC1	S055	Yes	24.08	24.24	23.65
RC2	S09	Yes	24.48	24.02	23.99
RC2	S014	No			
RC2	S017	Yes	24.42	24.22	23.67
RC2	S055	Yes	24.52	24.16	23.96
RC3	S01	No			
RC3	S02	Yes	23.91	24.00	23.77
RC3	S03	Yes	24.01	24.43	23.60
RC3	S06	No			
RC3	S032 (no SCH1)	No			
RC3	S032 (SCH1 9.6kbps)	Yes	24.47	24.18	23.87
RC3	S032 (SCH1 19.2kbps)	Yes	24.06	24.06	23.62
RC3	S032 (SCH1 38.4kbps)	Yes	23.91	23.97	23.73
RC3	S032 (SCH1 76.8kbps)	Yes	24.46	24.31	23.32
RC3	S032 (SCH1 153.6kbps)	Yes	24.37	24.19	23.70
RC3	S033 (SCH1 9.6kbps)	No			
RC3	S033 (SCH1 19.2kbps)	No			
RC3	S033 (SCH1 38.4kbps)	No			
RC3	S033 (SCH1 76.8kbps)	No			
RC3	S033 (SCH1 153.6kbps)	No			
RC3	S055	Yes	24.46	24.29	23.65
RC4	S01	No			
RC4	S02	Yes	23.93	23.80	23.74
RC4	S03	Yes	23.02	24.34	23.37
RC4	S06	No			
RC4	S032 (no SCH1)	No			
RC4	S032 (SCH1 9.6kbps)	Yes	24.15	24.30	23.53
RC4	S032 (SCH1 19.2kbps)	Yes	24.39	24.10	23.74
RC4	S032 (SCH1 38.4kbps)	Yes	24.38	23.84	23.35
RC4	S032 (SCH1 76.8kbps)	Yes	24.08	23.96	23.30
RC4	S032 (SCH1 153.6kbps)	Yes	23.98	24.41	23.49

RC4	S033 (SCH1 9.6kbps)	No			
RC4	S033 (SCH1 19.2kbps)	No			
RC4	S033 (SCH1 38.4kbps)	No			
RC4	S033 (SCH1 76.8kbps)	No			
RC4	S033 (SCH1 153.6kbps)	No			
RC4	S055	Yes	24.44	24.41	23.45
RC5	S09	Yes	24.23	24.10	23.80
RC5	S014	No			
RC5	S017	Yes	24.20	24.27	23.42
RC5	S033 (SCH1 9.6kbps)	No			
RC5	S033 (SCH1 19.2kbps)	No			
RC5	S033 (SCH1 38.4kbps)	No			
RC5	S033 (SCH1 76.8kbps)	No			
RC5	S033 (SCH1 153.6kbps)	No			
RC5	S055	Yes	24.24	23.82	23.62

CDMA1700/2100 Flip Open

Radio Configuration	Service Options and Channel Configurations	Supported	Ch 25 1711.25 MHz	Ch 425 1732.50 MHz	Ch 875 1753.75 MHz
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RC1	S01	No			
RC1	S02	Yes	23.91	23.80	23.77
RC1	S03	Yes	24.63	23.92	24.15
RC1	S06	No			
RC1	S055	Yes	23.81	23.68	23.76
RC2	S09	Yes	23.79	23.81	23.55
RC2	S014	No			
RC2	S017	Yes	23.86	23.81	24.05
RC2	S055	Yes	23.56	23.71	23.77
RC3	S01	No			
RC3	S02	Yes	23.76	23.65	23.72
RC3	S03	Yes	23.82	23.75	23.78
RC3	S06	No			
RC3	S032 (no SCH1)	No			
RC3	S032 (SCH1 9.6kbps)	Yes	23.50	24.00	23.59
RC3	S032 (SCH1 19.2kbps)	Yes	23.44	23.83	23.65
RC3	S032 (SCH1 38.4kbps)	Yes	23.28	23.60	23.54
RC3	S032 (SCH1 76.8kbps)	Yes	23.48	23.77	23.68
RC3	S032 (SCH1 153.6kbps)	Yes	23.50	23.88	23.54
RC3	S033 (SCH1 9.6kbps)	No			
RC3	S033 (SCH1 19.2kbps)	No			
RC3	S033 (SCH1 38.4kbps)	No			
RC3	S033 (SCH1 76.8kbps)	No			
RC3	S033 (SCH1 153.6kbps)	No			

RC3	S055	Yes	23.64	24.04	23.77
RC4	S01	No			
RC4	S02	Yes	23.76	23.90	23.54
RC4	S03	Yes	23.78	23.58	23.68
RC4	S06	No			
RC4	S032 (no SCH1)	No			
RC4	S032 (SCH1 9.6kbps)	Yes	23.76	23.60	23.44
RC4	S032 (SCH1 19.2kbps)	Yes	23.62	23.93	23.48
RC4	S032 (SCH1 38.4kbps)	Yes	23.68	23.68	23.50
RC4	S032 (SCH1 76.8kbps)	Yes	23.74	23.71	23.52
RC4	S032 (SCH1 153.6kbps)	Yes	23.78	23.57	23.74
RC4	S033 (SCH1 9.6kbps)	No			
RC4	S033 (SCH1 19.2kbps)	No			
RC4	S033 (SCH1 38.4kbps)	No			
RC4	S033 (SCH1 76.8kbps)	No			
RC4	S033 (SCH1 153.6kbps)	No			
RC4	S055	Yes	23.59	23.93	23.79
RC5	S09	Yes	23.81	23.62	23.65
RC5	S014	No			
RC5	S017	Yes	23.78	23.90	23.74
RC5	S033 (SCH1 9.6kbps)	No			
RC5	S033 (SCH1 19.2kbps)	No			
RC5	S033 (SCH1 38.4kbps)	No			
RC5	S033 (SCH1 76.8kbps)	No			
RC5	S033 (SCH1 153.6kbps)	No			
RC5	S055	Yes	23.54	23.61	23.56

CDMA1900 Flip Open

Radio Configuration	Service Options and Channel Configurations	Supported	Ch 25 1851.25 MHz	Ch 600 1880.00 MHz	Ch 1175 1908.75 MHz
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RC1	S01	No			
RC1	S02	Yes	23.66	23.57	23.94
RC1	S03	Yes	23.80	23.69	24.12
RC1	S06	No			
RC1	S055	Yes	23.79	23.59	23.48
RC2	S09	Yes	23.96	23.62	23.63
RC2	S014	No			
RC2	S017	Yes	23.61	23.79	24.02
RC2	S055	Yes	23.73	23.61	23.43
RC3	S01	No			
RC3	S02	Yes	23.90	23.43	23.58
RC3	S03	Yes	23.62	23.57	23.74
RC3	S06	No			

RC3	S032 (no SCH1)	No			
RC3	S032 (SCH1 9.6kbps)	Yes	23.61	23.47	23.51
RC3	S032 (SCH1 19.2kbps)	Yes	23.62	23.62	23.51
RC3	S032 (SCH1 38.4kbps)	Yes	23.91	23.70	23.71
RC3	S032 (SCH1 76.8kbps)	Yes	23.69	23.42	23.64
RC3	S032 (SCH1 153.6kbps)	Yes	23.68	23.67	23.39
RC3	S033 (SCH1 9.6kbps)	No			
RC3	S033 (SCH1 19.2kbps)	No			
RC3	S033 (SCH1 38.4kbps)	No			
RC3	S033 (SCH1 76.8kbps)	No			
RC3	S033 (SCH1 153.6kbps)	No			
RC3	S055	Yes	23.72	23.67	23.73
RC4	S01	No			
RC4	S02	Yes	23.45	23.67	23.53
RC4	S03	Yes	23.60	23.53	23.72
RC4	S06	No			
RC4	S032 (no SCH1)	No			
RC4	S032 (SCH1 9.6kbps)	Yes	23.77	23.44	23.63
RC4	S032 (SCH1 19.2kbps)	Yes	23.59	23.31	23.63
RC4	S032 (SCH1 38.4kbps)	Yes	23.63	23.42	23.58
RC4	S032 (SCH1 76.8kbps)	Yes	23.92	23.65	23.59
RC4	S032 (SCH1 153.6kbps)	Yes	23.55	23.56	23.42
RC4	S033 (SCH1 9.6kbps)	No			
RC4	S033 (SCH1 19.2kbps)	No			
RC4	S033 (SCH1 38.4kbps)	No			
RC4	S033 (SCH1 76.8kbps)	No			
RC4	S033 (SCH1 153.6kbps)	No			
RC4	S055	Yes	23.77	23.56	23.66
RC5	S09	Yes	23.71	23.67	23.56
RC5	S014	No			
RC5	S017	Yes	23.77	23.54	23.64
RC5	S033 (SCH1 9.6kbps)	No			
RC5	S033 (SCH1 19.2kbps)	No			
RC5	S033 (SCH1 38.4kbps)	No			
RC5	S033 (SCH1 76.8kbps)	No			
RC5	S033 (SCH1 153.6kbps)	No			
RC5	S055	Yes	23.52	23.51	23.66

CDMA800 Flip closed

Radio Configuration	Service Options and Channel Configurations	Supported	Ch 1013	Ch 384	Ch 777
			824.70 MHz Pavg (dBm)	836.52 MHz Pavg (dBm)	848.31 MHz Pavg (dBm)
RC1	S01	No			
RC1	S02	Yes	24.47	24.47	24.06
RC1	S03	Yes	24.20	24.20	24.08

RC1	S06	No			
RC1	S055	Yes	24.25	24.25	24.22
RC2	S09	Yes	24.01	24.01	23.91
RC2	S014	No			
RC2	S017	Yes	24.56	24.56	24.40
RC2	S055	Yes	24.44	24.44	23.34
RC3	S01	No			
RC3	S02	Yes	24.64	24.64	24.28
RC3	S03	Yes	24.45	24.45	23.95
RC3	S06	No			
RC3	S032 (no SCH1)	No			
RC3	S032 (SCH1 9.6kbps)	Yes	24.46	24.46	24.33
RC3	S032 (SCH1 19.2kbps)	Yes	24.52	24.52	24.25
RC3	S032 (SCH1 38.4kbps)	Yes	23.92	23.92	24.35
RC3	S032 (SCH1 76.8kbps)	Yes	24.28	24.28	24.09
RC3	S032 (SCH1 153.6kbps)	Yes	23.98	23.98	23.98
RC3	S033 (SCH1 9.6kbps)	No			
RC3	S033 (SCH1 19.2kbps)	No			
RC3	S033 (SCH1 38.4kbps)	No			
RC3	S033 (SCH1 76.8kbps)	No			
RC3	S033 (SCH1 153.6kbps)	No			
RC3	S055	Yes	24.22	24.22	24.31
RC4	S01	No			
RC4	S02	Yes	24.45	24.45	24.24
RC4	S03	Yes	23.93	23.93	24.38
RC4	S06	No			
RC4	S032 (no SCH1)	No			
RC4	S032 (SCH1 9.6kbps)	Yes	24.64	24.64	23.98
RC4	S032 (SCH1 19.2kbps)	Yes	24.60	24.60	24.42
RC4	S032 (SCH1 38.4kbps)	Yes	24.28	24.28	24.41
RC4	S032 (SCH1 76.8kbps)	Yes	24.33	24.33	23.94
RC4	S032 (SCH1 153.6kbps)	Yes	24.34	24.34	23.94
RC4	S033 (SCH1 9.6kbps)	No			
RC4	S033 (SCH1 19.2kbps)	No			
RC4	S033 (SCH1 38.4kbps)	No			
RC4	S033 (SCH1 76.8kbps)	No			
RC4	S033 (SCH1 153.6kbps)	No			
RC4	S055	Yes	24.21	24.21	24.09
RC5	S09	Yes	24.27	24.27	24.25
RC5	S014	No			
RC5	S017	Yes	24.54	24.54	23.93
RC5	S033 (SCH1 9.6kbps)	No			
RC5	S033 (SCH1 19.2kbps)	No			
RC5	S033 (SCH1 38.4kbps)	No			
RC5	S033 (SCH1 76.8kbps)	No			

RC5	S033 (SCH1 153.6kbps)	No			
RC5	S055	Yes	24.45	24.45	24.23

CDMA1700/2100 Flip closed

Radio Configuration	Service Options and Channel Configurations	Supported	Ch 25 1711.25 MHz	Ch 425 1732.50 MHz	Ch 875 1753.75 MHz
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RC1	S01	No			
RC1	S02	Yes	23.91	23.80	23.77
RC1	S03	Yes	24.63	23.92	24.15
RC1	S06	No			
RC1	S055	Yes	23.81	23.68	23.76
RC2	S09	Yes	23.79	23.81	23.55
RC2	S014	No			
RC2	S017	Yes	23.86	23.81	24.05
RC2	S055	Yes	23.56	23.71	23.77
RC3	S01	No			
RC3	S02	Yes	23.76	23.65	23.72
RC3	S03	Yes	23.82	23.75	23.78
RC3	S06	No			
RC3	S032 (no SCH1)	No			
RC3	S032 (SCH1 9.6kbps)	Yes	23.50	24.00	23.59
RC3	S032 (SCH1 19.2kbps)	Yes	23.44	23.83	23.65
RC3	S032 (SCH1 38.4kbps)	Yes	23.28	23.60	23.54
RC3	S032 (SCH1 76.8kbps)	Yes	23.48	23.77	23.68
RC3	S032 (SCH1 153.6kbps)	Yes	23.50	23.88	23.54
RC3	S033 (SCH1 9.6kbps)	No			
RC3	S033 (SCH1 19.2kbps)	No			
RC3	S033 (SCH1 38.4kbps)	No			
RC3	S033 (SCH1 76.8kbps)	No			
RC3	S033 (SCH1 153.6kbps)	No			
RC3	S055	Yes	23.64	24.04	23.77
RC4	S01	No			
RC4	S02	Yes	23.76	23.90	23.54
RC4	S03	Yes	23.78	23.58	23.68
RC4	S06	No			
RC4	S032 (no SCH1)	No			
RC4	S032 (SCH1 9.6kbps)	Yes	23.76	23.60	23.44
RC4	S032 (SCH1 19.2kbps)	Yes	23.62	23.93	23.48
RC4	S032 (SCH1 38.4kbps)	Yes	23.68	23.68	23.50
RC4	S032 (SCH1 76.8kbps)	Yes	23.74	23.71	23.52
RC4	S032 (SCH1 153.6kbps)	Yes	23.78	23.57	23.74
RC4	S033 (SCH1 9.6kbps)	No			
RC4	S033 (SCH1 19.2kbps)	No			

RC4	S033 (SCH1 38.4kbps)	No			
RC4	S033 (SCH1 76.8kbps)	No			
RC4	S033 (SCH1 153.6kbps)	No			
RC4	S055	Yes	23.59	23.93	23.79
RC5	S09	Yes	23.81	23.62	23.65
RC5	S014	No			
RC5	S017	Yes	23.78	23.90	23.74
RC5	S033 (SCH1 9.6kbps)	No			
RC5	S033 (SCH1 19.2kbps)	No			
RC5	S033 (SCH1 38.4kbps)	No			
RC5	S033 (SCH1 76.8kbps)	No			
RC5	S033 (SCH1 153.6kbps)	No			
RC5	S055	Yes	23.54	23.61	23.56

CDMA1900 Flip closed

Radio Configuration	Service Options and Channel Configurations	Supported	Ch 25 1851.25 MHz	Ch 600 1880.00 MHz	Ch 1175 1908.75 MHz
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RC1	S01	No			
RC1	S02	Yes	23.66	23.57	23.94
RC1	S03	Yes	23.80	23.69	24.12
RC1	S06	No			
RC1	S055	Yes	23.79	23.59	23.48
RC2	S09	Yes	23.96	23.62	23.63
RC2	S014	No			
RC2	S017	Yes	23.61	23.79	24.02
RC2	S055	Yes	23.73	23.61	23.43
RC3	S01	No			
RC3	S02	Yes	23.90	23.43	23.58
RC3	S03	Yes	23.62	23.57	23.74
RC3	S06	No			
RC3	S032 (no SCH1)	No			
RC3	S032 (SCH1 9.6kbps)	Yes	23.61	23.47	23.51
RC3	S032 (SCH1 19.2kbps)	Yes	23.62	23.62	23.51
RC3	S032 (SCH1 38.4kbps)	Yes	23.91	23.70	23.71
RC3	S032 (SCH1 76.8kbps)	Yes	23.69	23.42	23.64
RC3	S032 (SCH1 153.6kbps)	Yes	23.68	23.67	23.39
RC3	S033 (SCH1 9.6kbps)	No			
RC3	S033 (SCH1 19.2kbps)	No			
RC3	S033 (SCH1 38.4kbps)	No			
RC3	S033 (SCH1 76.8kbps)	No			
RC3	S033 (SCH1 153.6kbps)	No			
RC3	S055	Yes	23.72	23.67	23.73
RC4	S01	No			

RC4	S02	Yes	23.45	23.67	23.53
RC4	S03	Yes	23.60	23.53	23.72
RC4	S06	No			
RC4	S032 (no SCH1)	No			
RC4	S032 (SCH1 9.6kbps)	Yes	23.77	23.44	23.63
RC4	S032 (SCH1 19.2kbps)	Yes	23.59	23.31	23.63
RC4	S032 (SCH1 38.4kbps)	Yes	23.63	23.42	23.58
RC4	S032 (SCH1 76.8kbps)	Yes	23.92	23.65	23.59
RC4	S032 (SCH1 153.6kbps)	Yes	23.55	23.56	23.42
RC4	S033 (SCH1 9.6kbps)	No			
RC4	S033 (SCH1 19.2kbps)	No			
RC4	S033 (SCH1 38.4kbps)	No			
RC4	S033 (SCH1 76.8kbps)	No			
RC4	S033 (SCH1 153.6kbps)	No			
RC4	S055	Yes	23.77	23.56	23.66
RC5	S09	Yes	23.71	23.67	23.56
RC5	S014	No			
RC5	S017	Yes	23.77	23.54	23.64
RC5	S033 (SCH1 9.6kbps)	No			
RC5	S033 (SCH1 19.2kbps)	No			
RC5	S033 (SCH1 38.4kbps)	No			
RC5	S033 (SCH1 76.8kbps)	No			
RC5	S033 (SCH1 153.6kbps)	No			
RC5	S055	Yes	23.52	23.51	23.66