

HAC RF Emissions Test Report

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Measurements made by:	Ari Orte		
Tested devices:	RM-350		
FCC ID:	QFXRM-350	IC:	661Z-RM350
Supplement reports:	Salo_HAC_0840_13		
Testing has been carried out in accordance with:	ANSI C63.19-2007 American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids		
Documentation:	The documentation of the testing performed on the tested devices is archived for 15 years at TCC Nokia.		
Test results:	The tested device complies with the requirements in respect of all parameters subject to the test. The test results and statements relate only to the items tested. The test report shall not be reproduced except in full, without written approval of the laboratory.		
Date and signatures:			
For the contents:			

CONTENTS

1. SUMMARY OF HAC RF EMISSION TEST REPORT	3
1.1 TEST DETAILS.....	3
1.2 MAXIMUM RESULTS.....	3
1.2.1 <i>Electric field measurements</i>	3
1.2.2 <i>Magnetic field measurements</i>	3
1.2.3 <i>Overall RF emissions category of the tested device</i>	4
1.2.4 <i>Maximum Drift</i>	4
1.2.5 <i>Measurement Uncertainty</i>	4
2. DESCRIPTION OF THE DEVICE UNDER TEST (DUT)	4
3. TEST CONDITIONS	5
3.1 TEMPERATURE AND HUMIDITY	5
3.2 TEST SIGNAL, FREQUENCIES, AND OUTPUT POWER.....	5
4. DESCRIPTION OF THE TEST EQUIPMENT	6
4.1 MEASUREMENT SYSTEM AND COMPONENTS	6
4.1.1 <i>Isotropic E-field probe ER3DV6</i>	7
4.1.2 <i>Isotropic H-field probe H3DV6</i>	7
4.1.3 <i>Device Holder</i>	8
4.2 VALIDATION OF THE SYSTEM.....	8
5. DESCRIPTION OF THE TEST PROCEDURE	9
5.1 TEST ARCH AND DEVICE HOLDER	9
5.2 SCAN PROCEDURES.....	9
5.3 SCAN AREA CENTERED AT THE MAXIMUM MAGNETIC T-COIL COUPLING	9
5.4 PROBE MODULATION FACTOR.....	10
5.5 SLOT AVERAGED CALCULATION METHOD.....	11
5.6 SUB-GRID EXCLUSION.....	11
5.7 CATEGORY LIMITS.....	11
6. MEASUREMENT UNCERTAINTY	12
7. RESULTS	13
APPENDIX A: SYSTEM VALIDATION SCANS	14
APPENDIX B: MEASUREMENT SCANS.....	17
APPENDIX C: RELEVANT PAGES FROM PROBE CALIBRATION REPORT(S)	30
APPENDIX D: RELEVANT PAGES FROM DIPOLE VALIDATION KIT REPORT(S)	31

1. SUMMARY OF HAC RF EMISSION TEST REPORT

1.1 Test Details

Period of test	2008-08-05 to 2008-08-11
SN, HW, SW and DUT numbers of tested device	SN: 004401/10/210598/4, HW: 4220, SW: 0.75, DUT: 13089
Batteries used in testing	BL-6F, DUT: 13033
State of sample	Prototype
Notes	AWF = -5 for GSM, 0 for WCDMA

1.2 Maximum Results

The maximum measured HAC RF emissions values and categories for electric and magnetic fields are given in section 1.2.1 and 1.2.2 respectively.

1.2.1 Electric field measurements

Band & Mode	Ch / Freq. [MHz]	Radiated power	Limit of E-field max. value in category M3 [V/m]	Maximum E-field value after exclusion [V/m]	Category
GSM850	251 / 848.8	29.2 dBm ERP	149.6 – 266.1	177.6	M3 (-5dB)
WCDMA850	4175 / 835.0	16.7 dBm ERP	199.5 - 354.8	47.0	M4 (0dB)
GSM1900	810 / 1909.8	29.6 dBm EIRP	47.3 – 84.1	79.5	M3 (-5dB)
WCDMA1900	9262 / 1852.4	24.4 dBm EIRP	63.1 - 112.2	26.9	M4 (0dB)

1.2.2 Magnetic field measurements

Band & Mode	Ch / Freq. [MHz]	Radiated power	Limit of H-field max. value in category M3 [A/m]	Maximum H-field value after exclusion [A/m]	Category
GSM850	128 / 824.2	27.8 dBm ERP	0.45 – 0.80	0.358	M4 (-5dB)
WCDMA850	4175 / 835.0	16.7 dBm ERP	0.60 - 1.07	0.069	M4 (0dB)
GSM1900	810 / 1909.8	29.6 dBm EIRP	0.14 – 0.25	0.245	M3 (-5dB)
WCDMA1900	9262 / 1852.4	24.4 dBm EIRP	0.19 - 0.34	0.057	M4 (0dB)

1.2.3 Overall RF emissions category of the tested device

Band & Mode	Combined category (E- and H-fields)	Pass / Fail
GSM850	M3	Pass
WCDMA850	M4	Pass
GSM1900	M3	Pass
WCDMA1900	M4	Pass
Final Category	M3	Pass

1.2.4 Maximum Drift

Maximum drift during measurements	0.11 dB
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1.2.5 Measurement Uncertainty

Extended Uncertainty (k=2) 95%, E-field	14.7 %
Extended Uncertainty (k=2) 95%, H-field	10.9 %

2. DESCRIPTION OF THE DEVICE UNDER TEST (DUT)

Modes of Operation	Bands	Modulation Mode	Duty Cycle	Transmitter Frequency Range (MHz)
GSM	850	GMSK	1/8	824 – 849
GSM	1900	GMSK	1/8	1850 – 1910
WCDMA	850		1	826 – 847
WCDMA	1900		1	1852 - 1908
WLAN/VOIP	2450	11Mbps QPSK	1	2412 – 2462

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

3. TEST CONDITIONS

3.1 Temperature and Humidity

Ambient temperature [°C]:	21.0 to 23.0
Ambient humidity [RH %]:	30 to 60

3.2 Test Signal, Frequencies, and Output Power

The transmitter of the device was put into operation by using a call tester. Communications between the device and the call tester were established by air link.

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

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

The measurements were performed on low, middle and high channels.

4. DESCRIPTION OF THE TEST EQUIPMENT

4.1 Measurement system and components

The measurements were performed using an automated near-field scanning system, DASY 4, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland.
The following table lists calibration dates of SPEAG components:

Test Equipment	Serial Number	Calibration interval	Calibration expiry
DAE 4	728	12 months	2009-04
E-field Probe ER3DV6	2333	12 months	2009-01
H-field Probe H3DV6	6053	12 months	2009-01
Dipole Validation Kit, CD835V3	1004	24 months	2009-02
Dipole Validation Kit, CD1880V3	1003	24 months	2009-02

Additional test equipment used in testing and validation:

Test Equipment	Model	Serial Number	Calibration interval	Calibration expiry
Signal Generator	SML03	101265	12 months	2009-07
Amplifier	ZHL-42 (SMA)	N072095-5	12 months	2009-07
Power Meter	NRVS	849305/028	12 months	2009-07
Power Sensor	NRV-Z32	839176/020	12 months	2009-07
Radio Communication Tester	CMU 200	101111	12 months	2009-07

4.1.1 Isotropic E-field probe ER3DV6

Construction	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges PEEK enclosure material
Frequency	In air 100 MHz to >6 GHz; Linearity: ± 0.2 dB (100 MHz to 3 GHz)
Directivity	± 0.2 dB in air (rotation around probe axis) ± 0.4 dB in air (rotation normal to probe axis)
Dynamic Range	2 V/m to > 1000 V/m; Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 8 mm
Application	Distance from probe tip to nearest point of dipole: 1.25 mm General near-field measurements up to 6 GHz Field component measurements Fast automatic scanning in phantoms

4.1.2 Isotropic H-field probe H3DV6

Construction	Three concentric loop sensors with 3.8 mm loop diameters Resistively loaded detector diodes for linear response Built-in shielding against static charges PEEK enclosure material
Frequency	200 MHz to 3 GHz; Output linearized (absolute accuracy $\pm 6.0\%$, $k=2$)
Directivity	± 0.25 dB (spherical isotropy error)
Dynamic Range	10 mA/m to 2 A/m at 1 GHz
Dimensions	Overall length: 330 mm Tip length: 40 mm Body diameter: 12 mm Tip diameter: 6 mm
Application	Distance from probe tip to nearest point of dipole: 1.1 mm General magnetic near-field measurements up to 3 GHz Field component measurements, surface current measurements Measurements in air or liquids, low interaction

4.1.3 Device Holder

The Device Holder and Test Arch are manufactured by Speag (<http://www.dasy4.com/hac>). Test arch is used for all tests i.e. for both validation testing and device testing. The holder and test arch conforms to the requirements of ANSI C63.19.

The SPEAG device holder (see Section 5.1) was used to position the test device in all tests.

4.2 Validation of the System

The manufacturer calibrates the probes annually. Validation measurements are made regularly using the dipole validation kit. The power level used by manufacturer in dipole calibration is supplied to the dipole antenna. The antenna is scanned at 1.0cm distance between top surface of the dipole and calibration point of the probe.

System Validation, H-field and E-field

f [MHz]	Description	E-field [V/m]	H-field [A/m]
835	Reference result	160.0	0.452
	± 10% window	144.0 – 176.0	0.406 – 0.497
	2008-08-05	152.2	0.461
1880	Reference result	128.8	0.452
	± 10% window	115.9 – 141.7	0.406 – 0.497
	2008-08-05	127.2	0.478

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

5. DESCRIPTION OF THE TEST PROCEDURE

5.1 Test Arch and Device Holder

The test device was placed in the Device Holder (illustrated below) that is supplied by SPEAG. Using this positioner the tested device is positioned under Test Arch.



Device holder and Test Arch supplied by SPEAG

5.2 Scan Procedures

Near field scans of 5cm x 5cm were used for determination of the field distribution. Measurement plane distance from WD reference plane is 1.5cm. Scans were performed for both E- and H-field using appropriate probe. DASY software divides detected values into 3 x 3 sub grids as described in the C63.19 standard.

5.3 Scan area centered at the maximum magnetic T-coil coupling

Scanning centered at the maximum magnetic T-coil coupling was not applicable for the tested device.

5.4 Probe Modulation Factor

All raw measurements in DASY4 system are presented as RMS values. The measurement software then applies Probe Modulation Factor (PMF) to convert readings to “slot averaged” peak values as required by C63.19 standard.

Therefore PMF was assessed as described in C63.19 standard along with Speag's Application Note (AN_Hearing_Aid_Compatibility.pdf, section 28.8, "Definition / Determination of the Probe Modulation Factor") and 061117a_TN_HAC_PMF_Predefined_Files.pdf.

Modulation factors, GSM

f [MHz]	E-field [V/m] Probe SN: 2333		H-field [A/m] Probe SN: 6053		PMF E-field	PMF H-field
	CW	GSM	CW	GSM		
835.0	266	98.2	0.800	0.277	2.71	2.88
1880.0	84	30.2	0.250	0.098	2.78	2.55

Modulation factors, WCDMA

f [MHz]	E-field [V/m] Probe SN: 2333		H-field [A/m] Probe SN: 6053		PMF E-field	PMF H-field
	CW	WCDMA	CW	WCDMA		
835.0	92.3	114.0	0.377	0.526	0.81	0.72
1880.0	91.9	113.9	0.308	0.551	0.81	0.56

Observed Modulation Factor:

$$PMF_{(E)} = E\text{-field}_{(CW)} / E\text{-field}_{(Modulated)}$$

$$PMF_{(H)} = H\text{-field}_{(CW)} / H\text{-field}_{(Modulated)}$$

Observed Crest Factor:

$$CF_{(E)} = (PMF_{(E)})^2$$

$$CF_{(H)} = (PMF_{(H)})^2$$

5.5 Slot Averaged Calculation Method

The slot-averaged values for the every measured signal type were calculated using observed duty cycles.

5.6 Sub-grid Exclusion

The measurement grid defined in C63.19 consists of 9 evenly sized blocks, which are used to define permissible exclusion areas. For both E- and H-field measurements three contiguous blocks may be excluded from the measurements except center block may never be excluded. There must be 4 blocks left that are common for both E- and H-field measurements, so maximum of 5 different blocks can be excluded (e.g. 3 blocks excluded from E-field and 2 blocks from H-field).

5.7 Category Limits

From remaining maximum values after exclusion process, Hearing Aid M-category is defined according to the category limits of c63.19 – 2007

Category	AWF [dB]	Limits for RF-parameters <960MHz				Limits for RF-parameters >960MHz			
		E-field [V/m]		H-field [A/m]		E-field [V/m]		H-field [A/m]	
		Min	Max	Min	Max	Min	Max	Min	Max
M1	0	631.0	1122.0	1.91	3.39	199.5	354.8	0.60	1.07
M1	-5	473.2	841.4	1.43	2.54	149.6	266.1	0.45	0.80
M2	0	354.8	631.0	1.07	1.91	112.2	199.5	0.34	0.60
M2	-5	266.1	473.2	0.80	1.43	84.1	149.6	0.25	0.45
M3	0	199.5	354.8	0.60	1.07	63.1	112.2	0.19	0.34
M3	-5	149.6	266.1	0.45	0.80	47.3	84.1	0.14	0.25
M4	0		<199.5		<0.60		<63.1		<0.19
M4	-5		<149.6		<0.45		<47.3		<0.14

6. MEASUREMENT UNCERTAINTY

Source of Uncertainty	Tolerance ±%	Probability Distribution	Div.	ci E	ci H	Standard Uncertainty ±%, E	Standard Uncertainty ±%, H	Remark
MEASUREMENT SYSTEM								
Probe Calibration	5.1	N	1	1	1	5.1	5.1	
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7	
Sensor Displacement	16.5	R	√3	1	0.145	9.5	1.4	
Boundary Effect	2.4	R	√3	1	1	1.4	1.4	
Linearity	4.7	R	√3	1	1	2.7	2.7	SAR
Scaling to Peak Envelope Power	2.0	R	√3	1	1	1.2	1.2	
System Detection Limit	1.0	R	√3	1	1	0.6	0.6	
Readout Electronics	0.3	N	1	1	1	0.3	0.3	SAR
Response Time	0.8	R	√3	1	1	0.5	0.5	
Integration Time	2.6	R	√3	1	1	1.5	1.5	SAR
RF Ambient Conditions	3.0	R	√3	1	1	1.7	1.7	SAR
RF Reflections	12.0	R	√3	1	1	6.9	6.9	
Probe Positioner	1.2	R	√3	1	0.67	0.7	0.5	
Probe Positioning	4.7	R	√3	1	0.67	2.7	1.8	
Extrapolation and Interpolation	1.0	R	√3	1	1	0.6	0.6	SAR
TEST SAMPLE RELATED								
Device Positioning Vertical	4.7	R	√3	1	0.67	2.7	1.8	
Device Positioning Lateral	1.0	R	√3	1	1	0.6	0.6	
Device Holder and Test Arch	2.4	R	√3	1	1	1.4	1.4	
Power Drift	5.0	R	√3	1	1	2.9	2.9	SAR
TEST ARCH AND SETUP RELATED								
Test Arch Thickness	2.4	R	√3	1	0.67	1.4	0.9	
COMBINED STANDARD UNCERTAINTY						14.7	10.9	
Expanded Uncertainty on Power						29.4	21.8	
Expanded Uncertainty on Field						14.7	10.9	

7. RESULTS

The calculated maximum field values for the test device are tabulated below:

GSM850, E and H RF emissions results

Option	Test configuration	Ch 128 824.2MHz	Ch 190 836.6MHz	Ch 251 848.8MHz
GSM850	Power	27.8 dBm	29.2 dBm	29.2 dBm
	E-field [V/M]	165.8	175.5	177.6
	H-field [A/m]	0.358	0.339	0.339
	Category	M3(-5dB)	M3(-5dB)	M3(-5dB)

WCDMA850, E and H RF emissions results

Option	Test configuration	Ch 4132 826.4MHz	Ch 4175 835.0MHz	Ch 4233 846.6MHz
WCDMA850	Power	15.2 dBm	16.7 dBm	15.6 dBm
	E-field [V/M]	39.5	47.0	44.6
	H-field [A/m]	0.060	0.069	0.067
	Category	M4(0dB)	M4(0dB)	M4(0dB)

GSM1900, E and H RF emissions results

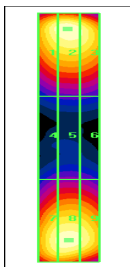
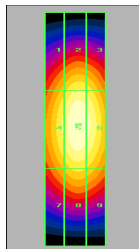
Option	Test configuration	Ch 512 1850.2MHz	Ch 661 1880.0MHz	Ch 810 1909.8MHz
GSM1900	Power	29.1 dBm	30.0 dBm	29.6 dBm
	E-field [V/M]	77.5	77.4	79.5
	H-field [A/m]	0.226	0.241	0.245
	Category	M3 (-5dB)	M3 (-5dB)	M3 (-5dB)

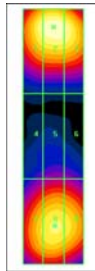
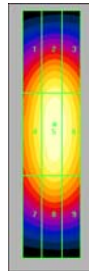
WCDMA1900, E and H RF emissions results

Option	Test configuration	Ch 9262 1852.4MHz	Ch 9400 1880.0MHz	Ch 9538 1907.6MHz
WCDMA1900	Power	24.4 dBm	18.7 dBm	19.0 dBm
	E-field [V/M]	26.9	24.3	23.7
	H-field [A/m]	0.057	0.054	0.052
	Category	M4 (0dB)	M4 (0dB)	M4 (0dB)

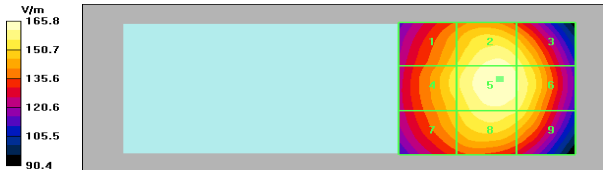
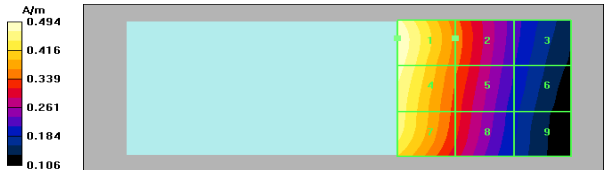
Plots of the measurement scans are shown in **Appendix B**. Excluded cells are colored orange.

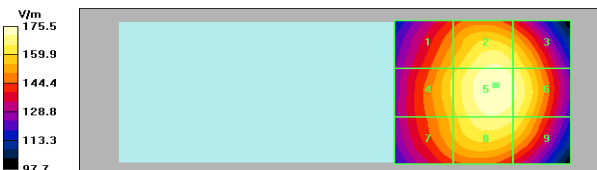
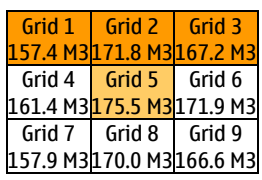
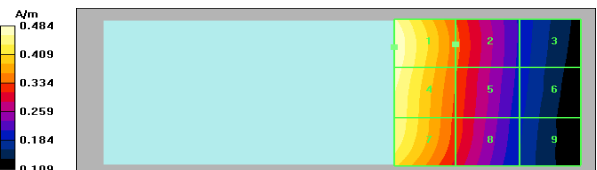
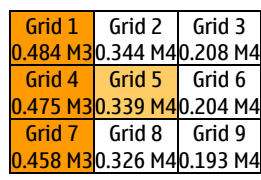
APPENDIX A: SYSTEM VALIDATION SCANS

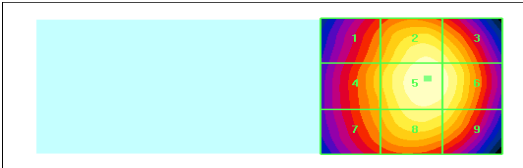
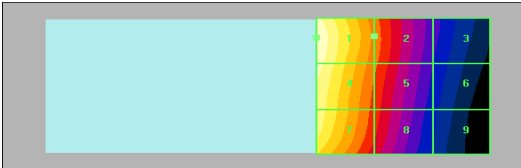
SYSTEM VALIDATION DATA 850MHZ																				
Date/Time: 2008-08-05 10:49:01 Test Laboratory: TCC Nokia Type: D835V3; Serial: 1004		Date/Time: 2008-08-05 09:43:31 Test Laboratory: TCC Nokia Type: D835V3; Serial: 1004																		
Communication System: CW835 Frequency: 835 MHz; Duty Cycle: 1:1 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m ³ Phantom section: E Dipole Section		Communication System: CW835 Frequency: 835 MHz; Duty Cycle: 1:1 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m ³ Phantom section: H Dipole Section																		
DASY4 Configuration: - Probe: ER3DV6 - SN2333; Probe Notes: - ConvF(1, 1, 1); Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176		DASY4 Configuration: - Probe: H3DV6 - SN6053; Probe Notes: - ; Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176																		
E Scan - ER3DV6 - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 153.4 V/m Probe Modulation Factor = 1.00 Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 112.8 V/m; Power Drift = -0.006 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)		H Scan - H3DV6 - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.461 A/m Probe Modulation Factor = 1.00 Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 0.489 A/m; Power Drift = -0.039 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)																		
																				
<table><tr><td>Grid 1 150.0 M4</td><td>Grid 2 153.4 M4</td><td>Grid 3 148.2 M4</td></tr><tr><td>Grid 4 81.3 M4</td><td>Grid 5 82.6 M4</td><td>Grid 6 81.6 M4</td></tr><tr><td>Grid 7 148.1 M4</td><td>Grid 8 150.9 M4</td><td>Grid 9 147.8 M4</td></tr></table>		Grid 1 150.0 M4	Grid 2 153.4 M4	Grid 3 148.2 M4	Grid 4 81.3 M4	Grid 5 82.6 M4	Grid 6 81.6 M4	Grid 7 148.1 M4	Grid 8 150.9 M4	Grid 9 147.8 M4	<table><tr><td>Grid 1 0.367 M4</td><td>Grid 2 0.407 M4</td><td>Grid 3 0.397 M4</td></tr><tr><td>Grid 4 0.419 M4</td><td>Grid 5 0.461 M4</td><td>Grid 6 0.448 M4</td></tr><tr><td>Grid 7 0.357 M4</td><td>Grid 8 0.387 M4</td><td>Grid 9 0.377 M4</td></tr></table>	Grid 1 0.367 M4	Grid 2 0.407 M4	Grid 3 0.397 M4	Grid 4 0.419 M4	Grid 5 0.461 M4	Grid 6 0.448 M4	Grid 7 0.357 M4	Grid 8 0.387 M4	Grid 9 0.377 M4
Grid 1 150.0 M4	Grid 2 153.4 M4	Grid 3 148.2 M4																		
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Grid 7 0.357 M4	Grid 8 0.387 M4	Grid 9 0.377 M4																		

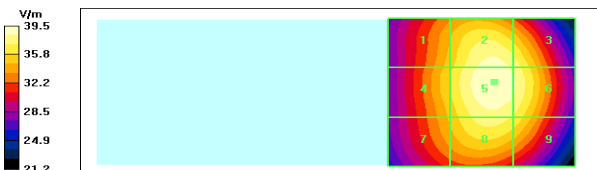
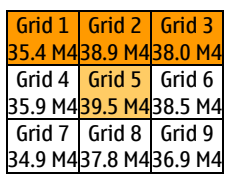
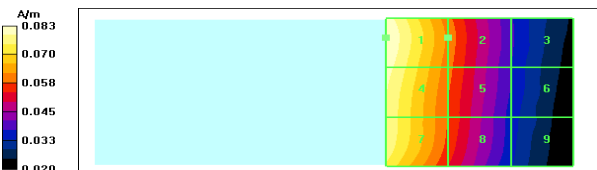
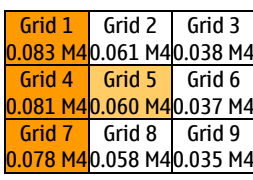
SYSTEM VALIDATION DATA 1900MHz																				
Date/Time: 2008-08-05 10:13:25 Test Laboratory: TCC Nokia Type: CD1880V3; Serial: 1003		Date/Time: 2008-08-05 09:58:44 Test Laboratory: TCC Nokia Type: CD1880V3; Serial: 1003																		
Communication System: CW1880 Frequency: 1880 MHz; Duty Cycle: 1:1 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m ³ Phantom section: E Dipole Section		Communication System: CW1880 Frequency: 1880 MHz; Duty Cycle: 1:1 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m ³ Phantom section: H Dipole Section																		
DASY4 Configuration: - Probe: ER3DV6 - SN2333; Probe Notes: - ConvF(1, 1, 1); Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176		DASY4 Configuration: - Probe: H3DV6 - SN6053; Probe Notes: - ; Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176																		
E Scan - ER3DV6 - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 131.6 V/m Probe Modulation Factor = 1.00 Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 124.1 V/m; Power Drift = 0.009 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)		H Scan - H3DV6 - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.478 A/m Probe Modulation Factor = 1.00 Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 0.498 A/m; Power Drift = 0.035 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)																		
																				
<table><tr><td>Grid 1 127.3 M2</td><td>Grid 2 131.6 M2</td><td>Grid 3 128.5 M2</td></tr><tr><td>Grid 4 83.8 M3</td><td>Grid 5 88.2 M3</td><td>Grid 6 87.1 M3</td></tr><tr><td>Grid 7 118.4 M2</td><td>Grid 8 122.7 M2</td><td>Grid 9 121.0 M2</td></tr></table>		Grid 1 127.3 M2	Grid 2 131.6 M2	Grid 3 128.5 M2	Grid 4 83.8 M3	Grid 5 88.2 M3	Grid 6 87.1 M3	Grid 7 118.4 M2	Grid 8 122.7 M2	Grid 9 121.0 M2	<table><tr><td>Grid 1 0.408 M2</td><td>Grid 2 0.443 M2</td><td>Grid 3 0.431 M2</td></tr><tr><td>Grid 4 0.440 M2</td><td>Grid 5 0.478 M2</td><td>Grid 6 0.466 M2</td></tr><tr><td>Grid 7 0.388 M2</td><td>Grid 8 0.420 M2</td><td>Grid 9 0.408 M2</td></tr></table>	Grid 1 0.408 M2	Grid 2 0.443 M2	Grid 3 0.431 M2	Grid 4 0.440 M2	Grid 5 0.478 M2	Grid 6 0.466 M2	Grid 7 0.388 M2	Grid 8 0.420 M2	Grid 9 0.408 M2
Grid 1 127.3 M2	Grid 2 131.6 M2	Grid 3 128.5 M2																		
Grid 4 83.8 M3	Grid 5 88.2 M3	Grid 6 87.1 M3																		
Grid 7 118.4 M2	Grid 8 122.7 M2	Grid 9 121.0 M2																		
Grid 1 0.408 M2	Grid 2 0.443 M2	Grid 3 0.431 M2																		
Grid 4 0.440 M2	Grid 5 0.478 M2	Grid 6 0.466 M2																		
Grid 7 0.388 M2	Grid 8 0.420 M2	Grid 9 0.408 M2																		

APPENDIX B: MEASUREMENT SCANS

MEASUREMENT DATA GSM850, CHANNEL LOW (824.2 MHz)																																					
Date/Time: 2008-08-11 17:14:59 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4	Date/Time: 2008-08-11 14:03:35 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4																																				
Communication System: GSM850 (ER3DV6) Frequency: 824.2 MHz; Duty Cycle: 1:7.95 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section	Communication System: GSM850 (H3DV6) Frequency: 824.2 MHz; Duty Cycle: 1:6.79 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section																																				
DASY4 Configuration: - Probe: ER3DV6 - SN2333; Probe Notes: - ConvF(1, 1, 1); Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176	DASY4 Configuration: - Probe: H3DV6 - SN6053; Probe Notes: - ; Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176																																				
E Scan - ER3DV6 - measurement distance, sensor center to the Device = 15mm, Low/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 165.8 V/m Probe Modulation Factor = 2.71 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 78.7 V/m; Power Drift = -0.056 dB Hearing Aid Near-Field Category: M3 (AWF -5 dB) V/m 165.8 150.7 135.6 120.6 105.5 90.4  <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>151.3 M3</td><td>163.3 M3</td><td>158.8 M3</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>154.6 M3</td><td>165.8 M3</td><td>161.6 M3</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>150.3 M3</td><td>159.4 M3</td><td>156.0 M3</td></tr></table>	Grid 1	Grid 2	Grid 3	151.3 M3	163.3 M3	158.8 M3	Grid 4	Grid 5	Grid 6	154.6 M3	165.8 M3	161.6 M3	Grid 7	Grid 8	Grid 9	150.3 M3	159.4 M3	156.0 M3	H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, Low/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.494 A/m Probe Modulation Factor = 2.88 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.097 A/m; Power Drift = 0.022 dB Hearing Aid Near-Field Category: M3 (AWF -5 dB) A/m 0.494 0.416 0.339 0.261 0.184 0.106  <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.494 M3</td><td>0.358 M4</td><td>0.222 M4</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.482 M3</td><td>0.348 M4</td><td>0.212 M4</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.460 M3</td><td>0.329 M4</td><td>0.194 M4</td></tr></table>	Grid 1	Grid 2	Grid 3	0.494 M3	0.358 M4	0.222 M4	Grid 4	Grid 5	Grid 6	0.482 M3	0.348 M4	0.212 M4	Grid 7	Grid 8	Grid 9	0.460 M3	0.329 M4	0.194 M4
Grid 1	Grid 2	Grid 3																																			
151.3 M3	163.3 M3	158.8 M3																																			
Grid 4	Grid 5	Grid 6																																			
154.6 M3	165.8 M3	161.6 M3																																			
Grid 7	Grid 8	Grid 9																																			
150.3 M3	159.4 M3	156.0 M3																																			
Grid 1	Grid 2	Grid 3																																			
0.494 M3	0.358 M4	0.222 M4																																			
Grid 4	Grid 5	Grid 6																																			
0.482 M3	0.348 M4	0.212 M4																																			
Grid 7	Grid 8	Grid 9																																			
0.460 M3	0.329 M4	0.194 M4																																			

MEASUREMENT DATA GSM850, CHANNEL MIDDLE (836.6 MHz)	
Date/Time: 2008-08-11 17:02:41 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4	Date/Time: 2008-08-11 13:53:41 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4
Communication System: GSM850 (ER3DV6) Frequency: 836.6 MHz; Duty Cycle: 1:7.95 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section	Communication System: GSM850 (H3DV6) Frequency: 836.6 MHz; Duty Cycle: 1:6.79 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section
DASY4 Configuration: - Probe: ER3DV6 - SN2333; Probe Notes: - ConvF(1, 1, 1); Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176	DASY4 Configuration: - Probe: H3DV6 - SN6053; Probe Notes: - ; Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
E Scan - ER3DV6 - measurement distance, sensor center to the Device = 15mm, Mid/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 175.5 V/m Probe Modulation Factor = 2.71 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 83.5 V/m; Power Drift = -0.072 dB Hearing Aid Near-Field Category: M3 (AWF -5 dB)  	H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, mid/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.484 A/m Probe Modulation Factor = 2.88 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.097 A/m; Power Drift = -0.112 dB Hearing Aid Near-Field Category: M3 (AWF -5 dB)  

MEASUREMENT DATA GSM850, CHANNEL HIGH (848.8 MHz)																																					
Date/Time: 2008-08-11 17:10:00 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4	Date/Time: 2008-08-11 13:58:38 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4																																				
Communication System: GSM850 (ER3DV6) Frequency: 848.8 MHz; Duty Cycle: 1:7.95 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section	Communication System: GSM850 (H3DV6) Frequency: 848.8 MHz; Duty Cycle: 1:6.79 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section																																				
DASY4 Configuration: - Probe: ER3DV6 - SN2333; Probe Notes: - ConvF(1, 1, 1); Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176	DASY4 Configuration: - Probe: H3DV6 - SN6053; Probe Notes: - ; Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176																																				
E Scan - ER3DV6 - measurement distance, sensor center to the Device = 15mm, High/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 177.6 V/m Probe Modulation Factor = 2.71 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 83.4 V/m; Power Drift = -0.053 dB Hearing Aid Near-Field Category: M3 (AWF -5 dB) V/m 177.6 162.2 146.8 131.5 116.1 100.7  <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>157.5 M3</td><td>174.6 M3</td><td>171.6 M3</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>161.2 M3</td><td>177.6 M3</td><td>175.1 M3</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>157.7 M3</td><td>171.6 M3</td><td>169.1 M3</td></tr></table>	Grid 1	Grid 2	Grid 3	157.5 M3	174.6 M3	171.6 M3	Grid 4	Grid 5	Grid 6	161.2 M3	177.6 M3	175.1 M3	Grid 7	Grid 8	Grid 9	157.7 M3	171.6 M3	169.1 M3	H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, high/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.481 A/m Probe Modulation Factor = 2.88 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.095 A/m; Power Drift = -0.001 dB Hearing Aid Near-Field Category: M3 (AWF -5 dB) A/m 0.481 0.406 0.330 0.255 0.179 0.104  <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.481 M3</td><td>0.348 M4</td><td>0.218 M4</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.470 M3</td><td>0.339 M4</td><td>0.206 M4</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.449 M4</td><td>0.320 M4</td><td>0.190 M4</td></tr></table>	Grid 1	Grid 2	Grid 3	0.481 M3	0.348 M4	0.218 M4	Grid 4	Grid 5	Grid 6	0.470 M3	0.339 M4	0.206 M4	Grid 7	Grid 8	Grid 9	0.449 M4	0.320 M4	0.190 M4
Grid 1	Grid 2	Grid 3																																			
157.5 M3	174.6 M3	171.6 M3																																			
Grid 4	Grid 5	Grid 6																																			
161.2 M3	177.6 M3	175.1 M3																																			
Grid 7	Grid 8	Grid 9																																			
157.7 M3	171.6 M3	169.1 M3																																			
Grid 1	Grid 2	Grid 3																																			
0.481 M3	0.348 M4	0.218 M4																																			
Grid 4	Grid 5	Grid 6																																			
0.470 M3	0.339 M4	0.206 M4																																			
Grid 7	Grid 8	Grid 9																																			
0.449 M4	0.320 M4	0.190 M4																																			

MEASUREMENT DATA WCDMA850, CHANNEL LOW (826.4 MHz)	
Date/Time: 2008-08-11 16:45:42 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4	Date/Time: 2008-08-11 14:54:48 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4
Communication System: WCDMA850 Frequency: 826.4 MHz; Duty Cycle: 1:1 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section	Communication System: WCDMA850 Frequency: 826.4 MHz; Duty Cycle: 1:1 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section
DASY4 Configuration: - Probe: ER3DV6 - SN2333 - ConvF(1, 1, 1); Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176	DASY4 Configuration: - Probe: H3DV6 - SN6053 - ; Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
E Scan - ER3DV6 - measurement distance, sensor center to the Device = 15mm, Low/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 39.5 V/m Probe Modulation Factor = 0.810 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 62.2 V/m; Power Drift = -0.036 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)  	H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, Low/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.083 A/m Probe Modulation Factor = 0.720 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.069 A/m; Power Drift = -0.070 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)  

MEASUREMENT DATA WCDMA850, CHANNEL MIDDLE (835 MHz)

Date/Time: 2008-08-11 16:30:29
Test Laboratory: TCC Nokia
Type: RM-350; Serial: 004401/10/210598/4

Date/Time: 2008-08-11 14:43:22
Test Laboratory: TCC Nokia
Type: RM-350; Serial: 004401/10/210598/4

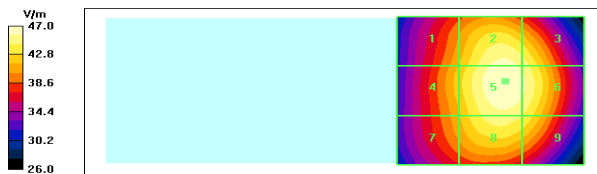
Communication System: WCDMA850
Frequency: 835 MHz; Duty Cycle: 1:1
Medium: Air; Medium Notes: Not Specified
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: E Device Section

Communication System: WCDMA850
Frequency: 835 MHz; Duty Cycle: 1:1
Medium: Air; Medium Notes: Not Specified
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
Phantom section: H Device Section

DASY4 Configuration:
- Probe: ER3DV6 - SN2333
- ConvF(1, 1, 1); Calibrated: 2008-01-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

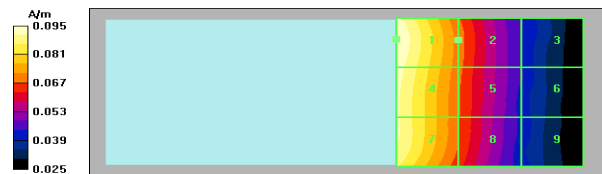
DASY4 Configuration:
- Probe: H3DV6 - SN6053
- ; Calibrated: 2008-01-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance, sensor center to the Device = 15mm, Mid/Hearing Aid Compatibility Test (101x101x1):
Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 47.0 V/m
Probe Modulation Factor = 0.810
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 73.2 V/m; Power Drift = 0.005 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)



Grid 1	Grid 2	Grid 3
41.4 M4	46.2 M4	45.1 M4
Grid 4	Grid 5	Grid 6
42.3 M4	47.0 M4	46.0 M4
Grid 7	Grid 8	Grid 9
41.3 M4	45.2 M4	44.3 M4

H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, mid/Hearing Aid Compatibility Test (101x101x1):
Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.095 A/m
Probe Modulation Factor = 0.720
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.080 A/m; Power Drift = -0.010 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)



Grid 1	Grid 2	Grid 3
0.095 M4	0.070 M4	0.044 M4
Grid 4	Grid 5	Grid 6
0.093 M4	0.069 M4	0.045 M4
Grid 7	Grid 8	Grid 9
0.092 M4	0.068 M4	0.043 M4

MEASUREMENT DATA WCDMA850, CHANNEL HIGH (846.6 MHz)

Date/Time: 2008-08-11 16:37:22
Test Laboratory: TCC Nokia
Type: RM-350; Serial: 004401/10/210598/4

Date/Time: 2008-08-11 14:48:17
Test Laboratory: TCC Nokia
Type: RM-350; Serial: 004401/10/210598/4

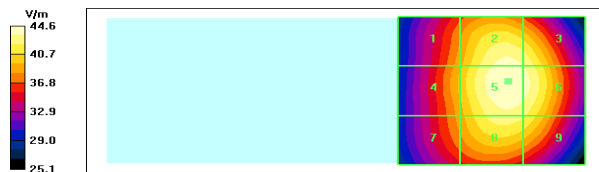
Communication System: WCDMA850
Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Air; Medium Notes: Not Specified
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: E Device Section

Communication System: WCDMA850
Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Air; Medium Notes: Not Specified
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
Phantom section: H Device Section

DASY4 Configuration:
- Probe: ER3DV6 - SN2333
- ConvF(1, 1, 1); Calibrated: 2008-01-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

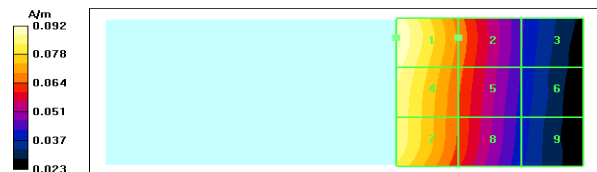
DASY4 Configuration:
- Probe: H3DV6 - SN6053
- ; Calibrated: 2008-01-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance, sensor center to the Device = 15mm, High/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 44.6 V/m
Probe Modulation Factor = 0.810
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 69.2 V/m; Power Drift = -0.017 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)



Grid 1	Grid 2	Grid 3
39.0 M4	44.0 M4	43.3 M4
Grid 4	Grid 5	Grid 6
39.7 M4	44.6 M4	44.0 M4
Grid 7	Grid 8	Grid 9
38.8 M4	42.8 M4	42.3 M4

H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, high/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.092 A/m
Probe Modulation Factor = 0.720
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.077 A/m; Power Drift = -0.096 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)



Grid 1	Grid 2	Grid 3
0.092 M4	0.068 M4	0.043 M4
Grid 4	Grid 5	Grid 6
0.089 M4	0.067 M4	0.042 M4
Grid 7	Grid 8	Grid 9
0.087 M4	0.064 M4	0.040 M4

MEASUREMENT DATA GSM1900, CHANNEL LOW (1850.2 MHz)

Date/Time: 2008-08-11 18:16:37
Test Laboratory: TCC Nokia
Type: RM-350; Serial: 004401/10/210598/4

Date/Time: 2008-08-11 13:15:37
Test Laboratory: TCC Nokia
Type: RM-350; Serial: 004401/10/210598/4

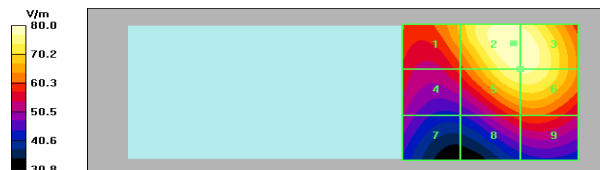
Communication System: GSM1900 (ER3DV6)
Frequency: 1850.2 MHz; Duty Cycle: 1:7.92
Medium: Air; Medium Notes: Not Specified
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: E Device Section

Communication System: GSM1900 (H3DV6)
Frequency: 1850.2 MHz; Duty Cycle: 1:4.13
Medium: Air; Medium Notes: Not Specified
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
Phantom section: H Device Section

DASY4 Configuration:
- Probe: ER3DV6 - SN2333; Probe Notes:
- ConvF(1, 1, 1); Calibrated: 2008-01-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

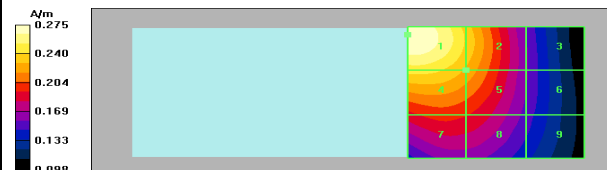
DASY4 Configuration:
- Probe: H3DV6 - SN6053; Probe Notes:
- ; Calibrated: 2008-01-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance, sensor center to the Device = 15mm, Low/Hearing Aid Compatibility Test (101x101x1):
Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 80.0 V/m
Probe Modulation Factor = 2.78
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 27.9 V/m; Power Drift = -0.027 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

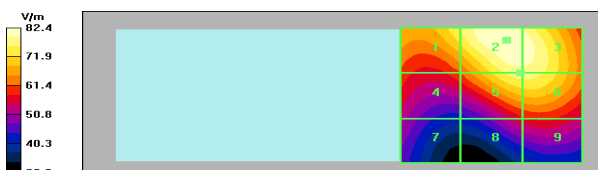
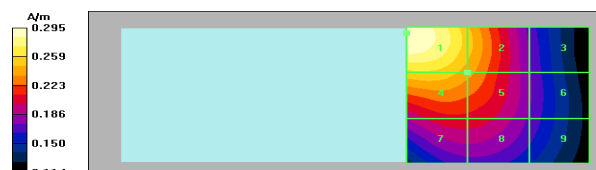


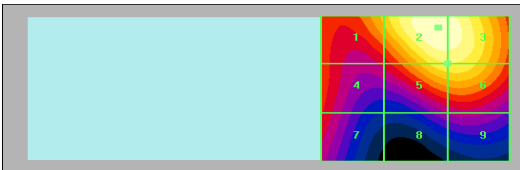
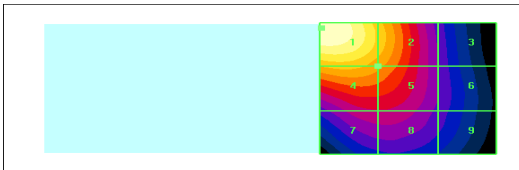
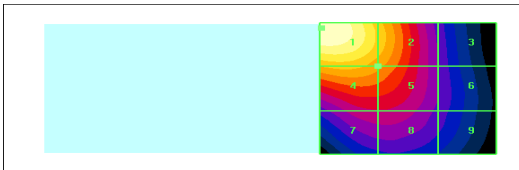
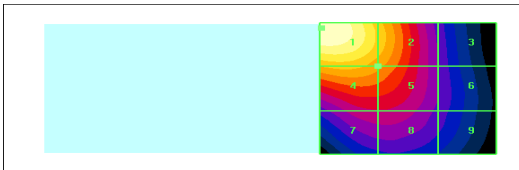
Grid 1	Grid 2	Grid 3
68.2 M3	80.0 M3	79.8 M3
Grid 4	Grid 5	Grid 6
58.9 M3	77.4 M3	77.5 M3
Grid 7	Grid 8	Grid 9
51.0 M3	59.5 M3	60.6 M3

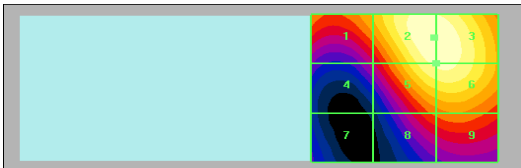
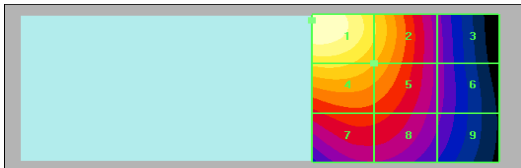
H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, Low/Hearing Aid Compatibility Test (101x101x1):
Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.275 A/m
Probe Modulation Factor = 2.55
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.080 A/m; Power Drift = 0.023 dB
Hearing Aid Near-Field Category: M2 (AWF -5 dB)



Grid 1	Grid 2	Grid 3
0.275 M2	0.238 M3	0.160 M3
Grid 4	Grid 5	Grid 6
0.246 M3	0.226 M3	0.160 M3
Grid 7	Grid 8	Grid 9
0.198 M3	0.194 M3	0.153 M3

MEASUREMENT DATA GSM1900, CHANNEL MIDDLE (1880 MHz)																																					
Date/Time: 2008-08-11 18:01:24 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4	Date/Time: 2008-08-11 12:54:45 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4																																				
Communication System: GSM1900 (ER3DV6) Frequency: 1880 MHz; Duty Cycle: 1:7.92 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section	Communication System: GSM1900 (H3DV6) Frequency: 1880 MHz; Duty Cycle: 1:4.13 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section																																				
DASY4 Configuration: - Probe: ER3DV6 - SN2333; Probe Notes: - ConvF(1, 1, 1); Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176	DASY4 Configuration: - Probe: H3DV6 - SN6053; Probe Notes: - ; Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176																																				
E Scan - ER3DV6 - measurement distance, sensor center to the Device = 15mm, Mid/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 82.4 V/m Probe Modulation Factor = 2.78 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 27.3 V/m; Power Drift = -0.047 dB Hearing Aid Near-Field Category: M3 (AWF -5 dB) <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>75.5 M3</td><td>82.4 M3</td><td>81.3 M3</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>61.6 M3</td><td>77.4 M3</td><td>77.4 M3</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>52.6 M3</td><td>57.0 M3</td><td>58.9 M3</td></tr></table>	Grid 1	Grid 2	Grid 3	75.5 M3	82.4 M3	81.3 M3	Grid 4	Grid 5	Grid 6	61.6 M3	77.4 M3	77.4 M3	Grid 7	Grid 8	Grid 9	52.6 M3	57.0 M3	58.9 M3	H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, mid/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.295 A/m Probe Modulation Factor = 2.55 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.088 A/m; Power Drift = 0.021 dB Hearing Aid Near-Field Category: M2 (AWF -5 dB) <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.295 M2</td><td>0.254 M2</td><td>0.177 M3</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.258 M2</td><td>0.241 M3</td><td>0.178 M3</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.207 M3</td><td>0.206 M3</td><td>0.173 M3</td></tr></table>	Grid 1	Grid 2	Grid 3	0.295 M2	0.254 M2	0.177 M3	Grid 4	Grid 5	Grid 6	0.258 M2	0.241 M3	0.178 M3	Grid 7	Grid 8	Grid 9	0.207 M3	0.206 M3	0.173 M3
Grid 1	Grid 2	Grid 3																																			
75.5 M3	82.4 M3	81.3 M3																																			
Grid 4	Grid 5	Grid 6																																			
61.6 M3	77.4 M3	77.4 M3																																			
Grid 7	Grid 8	Grid 9																																			
52.6 M3	57.0 M3	58.9 M3																																			
Grid 1	Grid 2	Grid 3																																			
0.295 M2	0.254 M2	0.177 M3																																			
Grid 4	Grid 5	Grid 6																																			
0.258 M2	0.241 M3	0.178 M3																																			
Grid 7	Grid 8	Grid 9																																			
0.207 M3	0.206 M3	0.173 M3																																			

MEASUREMENT DATA GSM1900, CHANNEL HIGH (1909.8 MHz)																																					
Date/Time: 2008-08-11 18:06:56 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4	Date/Time: 2008-08-11 12:59:55 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4																																				
Communication System: GSM1900 (ER3DV6) Frequency: 1909.8 MHz; Duty Cycle: 1:7.92 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section	Communication System: GSM1900 (H3DV6) Frequency: 1909.8 MHz; Duty Cycle: 1:4.13 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section																																				
DASY4 Configuration: - Probe: ER3DV6 - SN2333; Probe Notes: - ConvF(1, 1, 1); Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176	DASY4 Configuration: - Probe: H3DV6 - SN6053; Probe Notes: - ; Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176																																				
E Scan - ER3DV6 - measurement distance, sensor center to the Device = 15mm, High/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 86.7 V/m Probe Modulation Factor = 2.78 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 26.3 V/m; Power Drift = -0.007 dB Hearing Aid Near-Field Category: M2 (AWF -5 dB) V/m 86.7 76.3 65.9 55.4 45.0 34.6 <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>74.1 M3</td><td>86.7 M2</td><td>86.1 M2</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>65.7 M3</td><td>79.4 M3</td><td>79.5 M3</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>62.8 M3</td><td>55.6 M3</td><td>57.2 M3</td></tr></table> <tr><td> H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, high/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.299 A/m Probe Modulation Factor = 2.55 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.089 A/m; Power Drift = 0.009 dB Hearing Aid Near-Field Category: M2 (AWF -5 dB) A/m 0.299 0.264 0.229 0.195 0.160 0.125 <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.299 M2</td><td>0.262 M2</td><td>0.184 M3</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.258 M2</td><td>0.245 M3</td><td>0.184 M3</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.206 M3</td><td>0.206 M3</td><td>0.180 M3</td></tr></table> </td></tr>	Grid 1	Grid 2	Grid 3	74.1 M3	86.7 M2	86.1 M2	Grid 4	Grid 5	Grid 6	65.7 M3	79.4 M3	79.5 M3	Grid 7	Grid 8	Grid 9	62.8 M3	55.6 M3	57.2 M3	H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, high/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.299 A/m Probe Modulation Factor = 2.55 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.089 A/m; Power Drift = 0.009 dB Hearing Aid Near-Field Category: M2 (AWF -5 dB) A/m 0.299 0.264 0.229 0.195 0.160 0.125 <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.299 M2</td><td>0.262 M2</td><td>0.184 M3</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.258 M2</td><td>0.245 M3</td><td>0.184 M3</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.206 M3</td><td>0.206 M3</td><td>0.180 M3</td></tr></table>	Grid 1	Grid 2	Grid 3	0.299 M2	0.262 M2	0.184 M3	Grid 4	Grid 5	Grid 6	0.258 M2	0.245 M3	0.184 M3	Grid 7	Grid 8	Grid 9	0.206 M3	0.206 M3	0.180 M3
Grid 1	Grid 2	Grid 3																																			
74.1 M3	86.7 M2	86.1 M2																																			
Grid 4	Grid 5	Grid 6																																			
65.7 M3	79.4 M3	79.5 M3																																			
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62.8 M3	55.6 M3	57.2 M3																																			
H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, high/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.299 A/m Probe Modulation Factor = 2.55 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.089 A/m; Power Drift = 0.009 dB Hearing Aid Near-Field Category: M2 (AWF -5 dB) A/m 0.299 0.264 0.229 0.195 0.160 0.125 <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.299 M2</td><td>0.262 M2</td><td>0.184 M3</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.258 M2</td><td>0.245 M3</td><td>0.184 M3</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.206 M3</td><td>0.206 M3</td><td>0.180 M3</td></tr></table>	Grid 1	Grid 2	Grid 3	0.299 M2	0.262 M2	0.184 M3	Grid 4	Grid 5	Grid 6	0.258 M2	0.245 M3	0.184 M3	Grid 7	Grid 8	Grid 9	0.206 M3	0.206 M3	0.180 M3																			
Grid 1	Grid 2	Grid 3																																			
0.299 M2	0.262 M2	0.184 M3																																			
Grid 4	Grid 5	Grid 6																																			
0.258 M2	0.245 M3	0.184 M3																																			
Grid 7	Grid 8	Grid 9																																			
0.206 M3	0.206 M3	0.180 M3																																			

MEASUREMENT DATA WCDMA1900, CHANNEL LOW (1852.4MHz)																																					
Date/Time: 2008-08-11 15:49:03 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4	Date/Time: 2008-08-11 15:32:03 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4																																				
Communication System: WCDMA1900 Frequency: 1852.4 MHz; Duty Cycle: 1:1 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section	Communication System: WCDMA1900 Frequency: 1852.4 MHz; Duty Cycle: 1:1 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section																																				
DASY4 Configuration: - Probe: ER3DV6 - SN2333 - ConvF(1, 1, 1); Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176	DASY4 Configuration: - Probe: H3DV6 - SN6053 - ; Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176																																				
E Scan - ER3DV6 - measurement distance, sensor center to the Device = 15mm, Low/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 27.7 V/m Probe Modulation Factor = 0.810 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 30.0 V/m; Power Drift = -0.031 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB) V/m 27.7 23.7 19.8 15.8 11.9 7.90  <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>22.6 M4</td><td>27.7 M4</td><td>27.7 M4</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>16.8 M4</td><td>26.8 M4</td><td>26.9 M4</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>13.7 M4</td><td>20.3 M4</td><td>21.0 M4</td></tr></table>	Grid 1	Grid 2	Grid 3	22.6 M4	27.7 M4	27.7 M4	Grid 4	Grid 5	Grid 6	16.8 M4	26.8 M4	26.9 M4	Grid 7	Grid 8	Grid 9	13.7 M4	20.3 M4	21.0 M4	H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, Low/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.068 A/m Probe Modulation Factor = 0.560 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.096 A/m; Power Drift = -0.035 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB) A/m 0.068 0.060 0.052 0.043 0.035 0.027  <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.068 M4</td><td>0.060 M4</td><td>0.042 M4</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.061 M4</td><td>0.057 M4</td><td>0.043 M4</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.051 M4</td><td>0.050 M4</td><td>0.042 M4</td></tr></table>	Grid 1	Grid 2	Grid 3	0.068 M4	0.060 M4	0.042 M4	Grid 4	Grid 5	Grid 6	0.061 M4	0.057 M4	0.043 M4	Grid 7	Grid 8	Grid 9	0.051 M4	0.050 M4	0.042 M4
Grid 1	Grid 2	Grid 3																																			
22.6 M4	27.7 M4	27.7 M4																																			
Grid 4	Grid 5	Grid 6																																			
16.8 M4	26.8 M4	26.9 M4																																			
Grid 7	Grid 8	Grid 9																																			
13.7 M4	20.3 M4	21.0 M4																																			
Grid 1	Grid 2	Grid 3																																			
0.068 M4	0.060 M4	0.042 M4																																			
Grid 4	Grid 5	Grid 6																																			
0.061 M4	0.057 M4	0.043 M4																																			
Grid 7	Grid 8	Grid 9																																			
0.051 M4	0.050 M4	0.042 M4																																			

MEASUREMENT DATA WCDMA1900, CHANNEL MIDDLE (1880MHz)

Date/Time: 2008-08-11 16:04:02
Test Laboratory: TCC Nokia
Type: RM-350; Serial: 004401/10/210598/4

Date/Time: 2008-08-11 15:21:58
Test Laboratory: TCC Nokia
Type: RM-350; Serial: 004401/10/210598/4

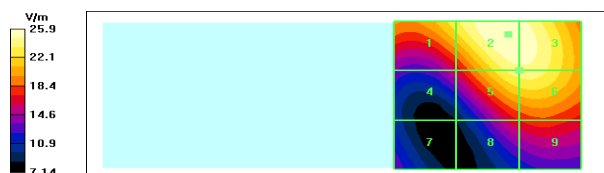
Communication System: WCDMA1900
Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Air; Medium Notes: Not Specified
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: E Device Section

Communication System: WCDMA1900
Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Air; Medium Notes: Not Specified
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
Phantom section: H Device Section

DASY4 Configuration:
- Probe: ER3DV6 - SN2333
- ConvF(1, 1, 1); Calibrated: 2008-01-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

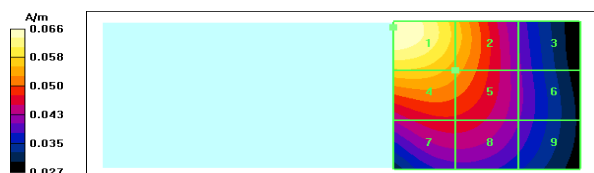
DASY4 Configuration:
- Probe: H3DV6 - SN6053
- ; Calibrated: 2008-01-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn728; Calibrated: 2008-04-23
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance, sensor center to the Device = 15mm, Mid/Hearing Aid Compatibility Test (101x101x1):
Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 25.9 V/m
Probe Modulation Factor = 0.810
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 26.1 V/m; Power Drift = -0.001 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)



Grid 1	Grid 2	Grid 3
23.0 M4	25.9 M4	25.7 M4
Grid 4	Grid 5	Grid 6
16.2 M4	24.2 M4	24.3 M4
Grid 7	Grid 8	Grid 9
13.1 M4	17.2 M4	18.1 M4

H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, mid/Hearing Aid Compatibility Test (101x101x1):
Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.066 A/m
Probe Modulation Factor = 0.560
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.091 A/m; Power Drift = -0.052 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)



Grid 1	Grid 2	Grid 3
0.066 M4	0.057 M4	0.041 M4
Grid 4	Grid 5	Grid 6
0.058 M4	0.054 M4	0.041 M4
Grid 7	Grid 8	Grid 9
0.047 M4	0.047 M4	0.040 M4

MEASUREMENT DATA WCDMA1900, CHANNEL HIGH (1907.6MHz)																																					
Date/Time: 2008-08-11 15:58:05 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4	Date/Time: 2008-08-11 15:26:59 Test Laboratory: TCC Nokia Type: RM-350; Serial: 004401/10/210598/4																																				
Communication System: WCDMA1900 Frequency: 1907.6 MHz; Duty Cycle: 1:1 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section	Communication System: WCDMA1900 Frequency: 1907.6 MHz; Duty Cycle: 1:1 Medium: Air; Medium Notes: Not Specified Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section																																				
DASY4 Configuration: - Probe: ER3DV6 - SN2333 - ConvF(1, 1, 1); Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176	DASY4 Configuration: - Probe: H3DV6 - SN6053 - ; Calibrated: 2008-01-21 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn728; Calibrated: 2008-04-23 - Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA; Serial: Not Specified - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176																																				
E Scan - ER3DV6 - measurement distance, sensor center to the Device = 15mm, High/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 25.8 V/m Probe Modulation Factor = 0.810 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 24.4 V/m; Power Drift = -0.043 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB) V/m <table><tr><th>Grid 1</th><th>Grid 2</th><th>Grid 3</th></tr><tr><td>22.0 M4</td><td>25.8 M4</td><td>25.7 M4</td></tr><tr><th>Grid 4</th><th>Grid 5</th><th>Grid 6</th></tr><tr><td>15.2 M4</td><td>23.6 M4</td><td>23.7 M4</td></tr><tr><th>Grid 7</th><th>Grid 8</th><th>Grid 9</th></tr><tr><td>15.7 M4</td><td>16.2 M4</td><td>17.1 M4</td></tr></table>	Grid 1	Grid 2	Grid 3	22.0 M4	25.8 M4	25.7 M4	Grid 4	Grid 5	Grid 6	15.2 M4	23.6 M4	23.7 M4	Grid 7	Grid 8	Grid 9	15.7 M4	16.2 M4	17.1 M4	H Scan - H3DV6 - measurement distance, sensor center to the Device = 15mm, high/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.063 A/m Probe Modulation Factor = 0.560 Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.087 A/m; Power Drift = 0.000 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB) A/m <table><tr><th>Grid 1</th><th>Grid 2</th><th>Grid 3</th></tr><tr><td>0.063 M4</td><td>0.056 M4</td><td>0.040 M4</td></tr><tr><th>Grid 4</th><th>Grid 5</th><th>Grid 6</th></tr><tr><td>0.054 M4</td><td>0.052 M4</td><td>0.041 M4</td></tr><tr><th>Grid 7</th><th>Grid 8</th><th>Grid 9</th></tr><tr><td>0.044 M4</td><td>0.044 M4</td><td>0.040 M4</td></tr></table>	Grid 1	Grid 2	Grid 3	0.063 M4	0.056 M4	0.040 M4	Grid 4	Grid 5	Grid 6	0.054 M4	0.052 M4	0.041 M4	Grid 7	Grid 8	Grid 9	0.044 M4	0.044 M4	0.040 M4
Grid 1	Grid 2	Grid 3																																			
22.0 M4	25.8 M4	25.7 M4																																			
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Grid 7	Grid 8	Grid 9																																			
0.044 M4	0.044 M4	0.040 M4																																			

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

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