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Annex A: Measurement data and plots

A.1 Spectrum analyser plots: CW, 80%AM, GSM and WCDMA signals

Please refer to Annex A.1 of the report number RTS-1689-0908-36 for the plots

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A.2 Dipole validation and probe modulation factor plots

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Date/Time: 6/30/2010 10:20:21 AM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_20dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):

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

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 109.7 V/m; Power Drift = -0.032 dB

Maximum value of Total (measured) = 170.9 V/m

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

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

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Maximum value of peak Total field = 171.7 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

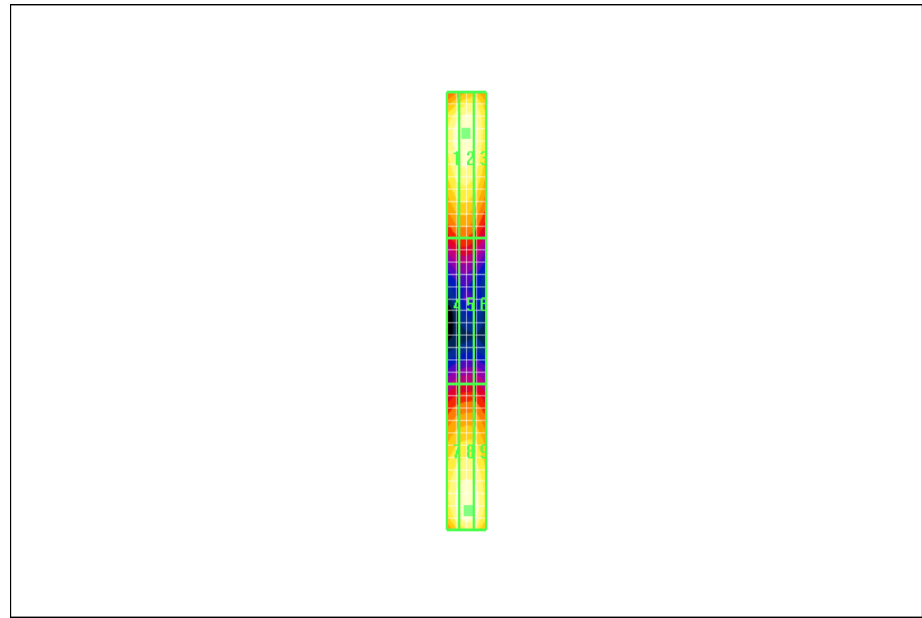
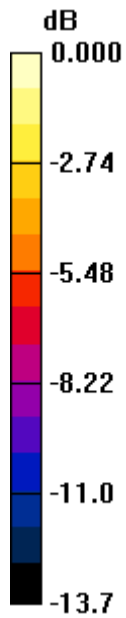
Reference Value = 109.7 V/m; Power Drift = -0.032 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 167.8 M4	Grid 2 171.7 M4	Grid 3 164.8 M4
Grid 4 90.9 M4	Grid 5 91.4 M4	Grid 6 87.0 M4
Grid 7 164.1 M4	Grid 8 171.1 M4	Grid 9 168.0 M4

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0 dB = 171.7V/m

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Date/Time: 6/30/2010 9:21:21 AM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_20dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 150.7 V/m; Power Drift = 0.035 dB

Maximum value of Total (measured) = 130.5 V/m

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

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Maximum value of peak Total field = 132.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

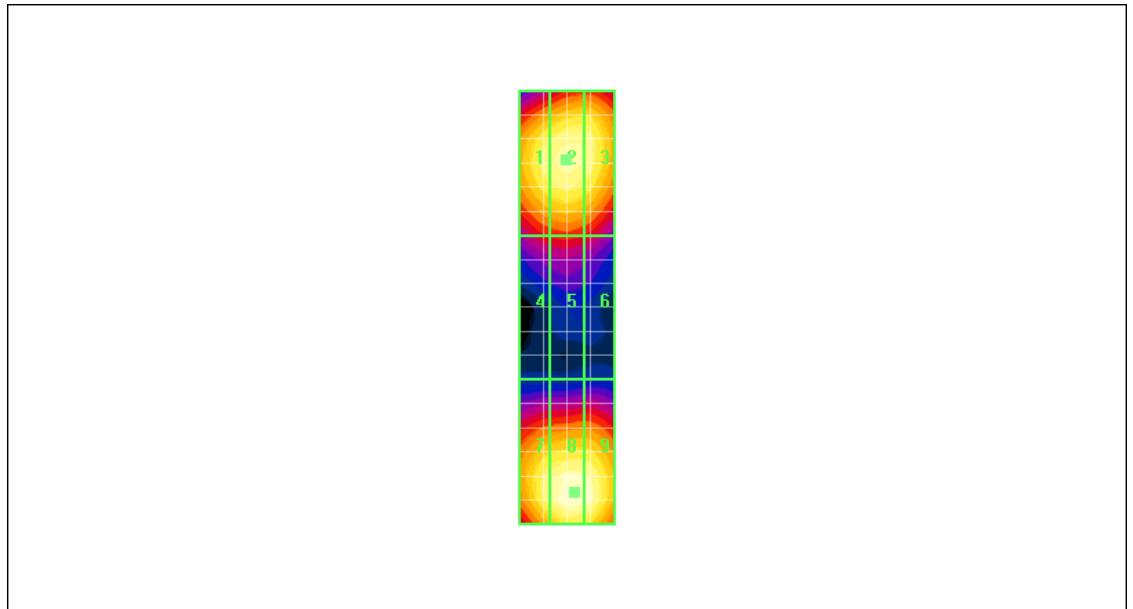
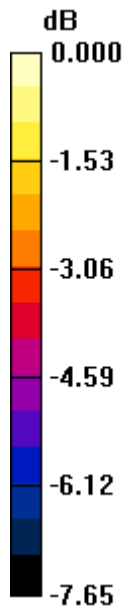
Reference Value = 150.7 V/m; Power Drift = 0.035 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1 123.9 M2	Grid 2 127.1 M2	Grid 3 125.3 M2
Grid 4 89.4 M3	Grid 5 91.3 M3	Grid 6 88.4 M3
Grid 7 125.5 M2	Grid 8 132.8 M2	Grid 9 131.7 M2

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0 dB = 132.7V/m

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Date/Time: 6/30/2010 10:34:30 AM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_20dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x13x1):

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

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.526 A/m; Power Drift = -0.030 dB

Maximum value of Total (measured) = 0.490 A/m

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x121x1):

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

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Maximum value of peak Total field = 0.491 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

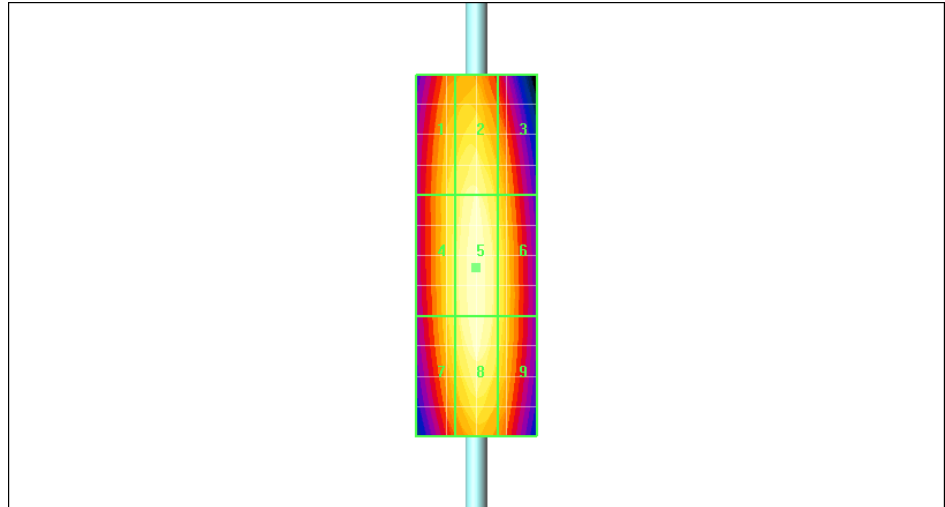
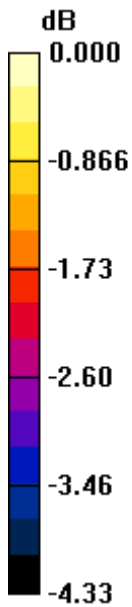
Reference Value = 0.526 A/m; Power Drift = -0.030 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.464 M4	Grid 2 0.479 M4	Grid 3 0.452 M4
Grid 4 0.469 M4	Grid 5 0.491 M4	Grid 6 0.466 M4
Grid 7 0.466 M4	Grid 8 0.489 M4	Grid 9 0.465 M4

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0 dB = 0.491A/m

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Date/Time: 6/30/2010 8:51:06 AM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_20dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.499 A/m; Power Drift = -0.048 dB

Maximum value of Total (measured) = 0.467 A/m

H Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

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Maximum value of peak Total field = 0.467 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

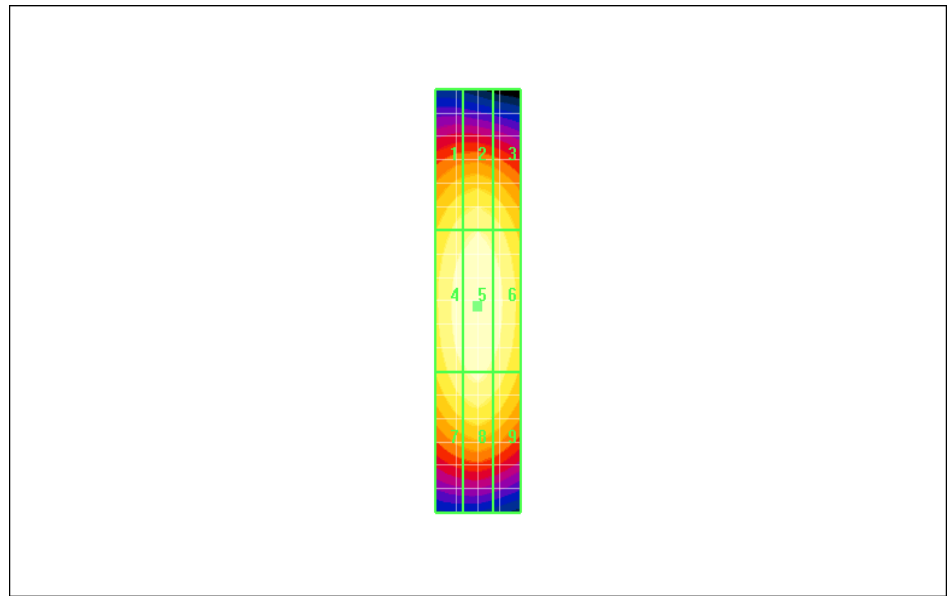
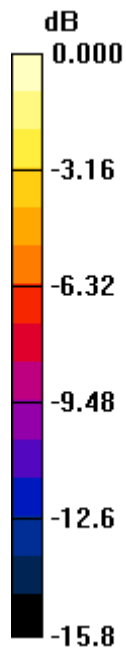
Reference Value = 0.499 A/m; Power Drift = -0.048 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.396 M2	Grid 2 0.413 M2	Grid 3 0.394 M2
Grid 4 0.447 M2	Grid 5 0.467 M2	Grid 6 0.442 M2
Grid 7 0.411 M2	Grid 8 0.431 M2	Grid 9 0.405 M2

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0 dB = 0.467A/m

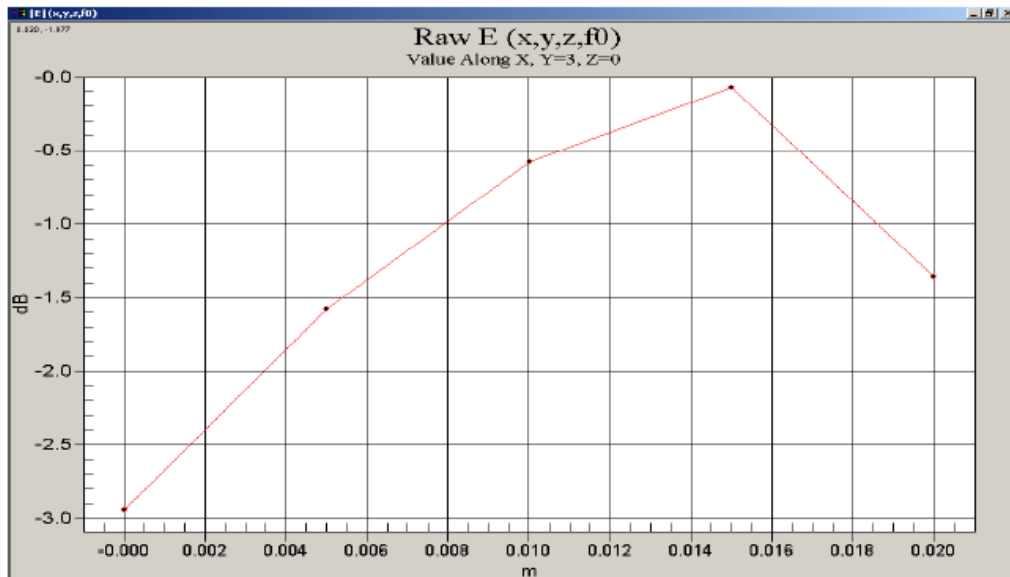
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCN72UW		Page 15 (98)
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Please refer to Annex A.2 of the report number RTS-1689-0908-36 for the probe modulation factor plots

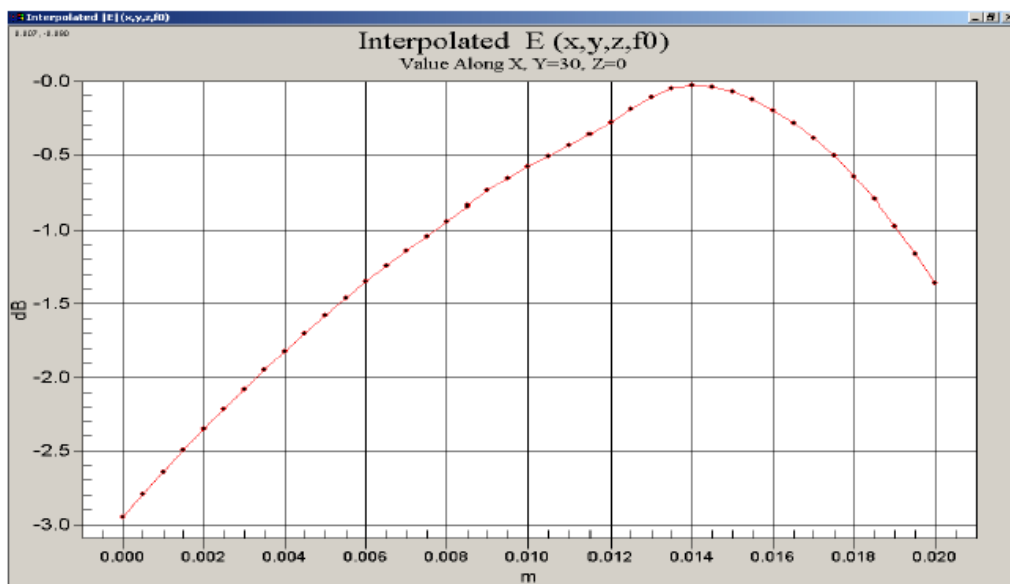
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Justification of Step Size and Interpolation

This section demonstrates that a 5mm step size with interpolation provides sufficient resolution for RF emissions measurements. The DASY 4 uses interpolation algorithms to derive 9 interpolated points between every measured point.

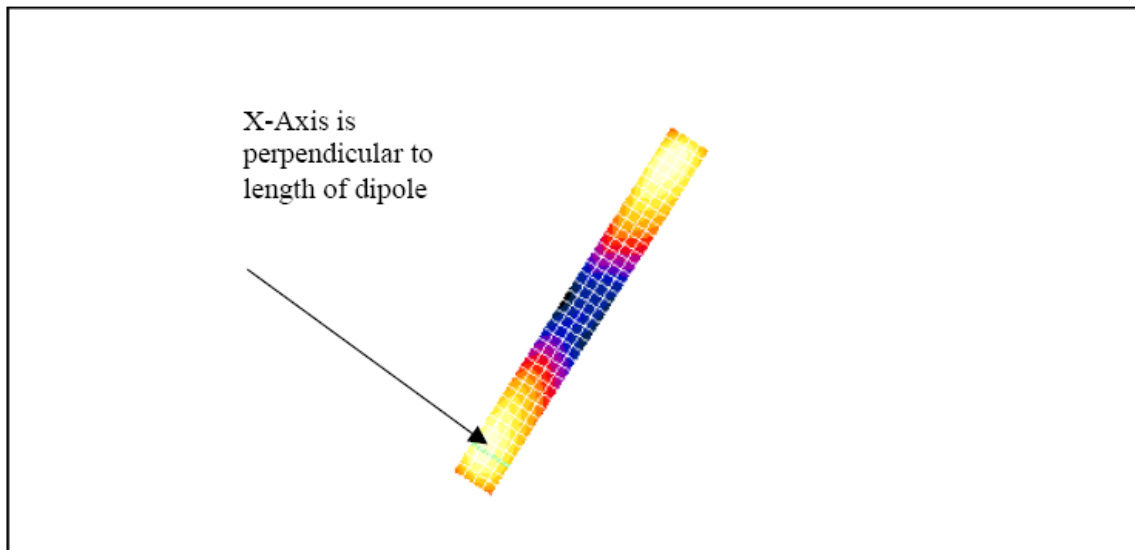


The figure above shows the raw measured field strength perpendicular to the length of the validation dipole. The TCB guidance slides require the 3dB width to be much larger than the step size. The width between -3dB points is > 21mm, at least 4 times the step size.



This figure shows the interpolated field strength perpendicular to the dipole. The interpolated points follow the raw points with no inconsistencies.

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The green line in this figure shows the axis along which the points lie.

Comparison of 5mm and 2mm step sizes

An additional set of measurements was taken: dipole validations were performed using 5mm and 2mm step sizes. The delta between the two readings is insignificant for both field types (< 0.4% for E and 0% for H), demonstrating that 5mm is sufficient. The plots follow.

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Date/Time: 14/07/2005 11:35:24 AM

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Date/Time: 14/07/2005 11:35:24 AM

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):

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

Maximum value of Total (measured) = 134.8 V/m

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of Total field (slot averaged) = 131.0 V/m

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.2	138.1	138.4	123.2	138.1	138.4
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
80.9	92.3	92.2	80.9	92.3	92.2
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
119.8	131.0	130.7	119.8	131.0	130.7

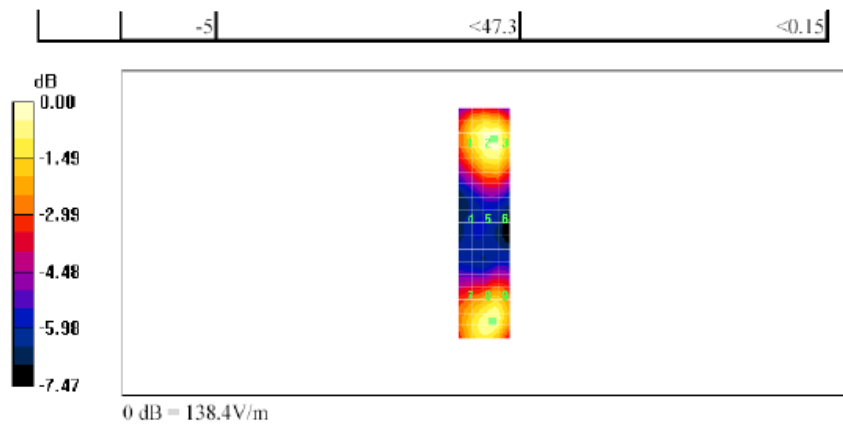
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):

Measurement grid: dx=2mm, dy=2mm

Maximum value of Total (measured) = 138.0 V/m

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):

Measurement grid: dx=2mm, dy=2mm

Maximum value of Total field (slot averaged) = 131.2 V/m

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.1	138.6	138.6	123.1	138.6	138.6
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
81.4	92.1	91.6	81.4	92.1	91.6
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
121.3	131.2	131.0	121.3	131.2	131.0

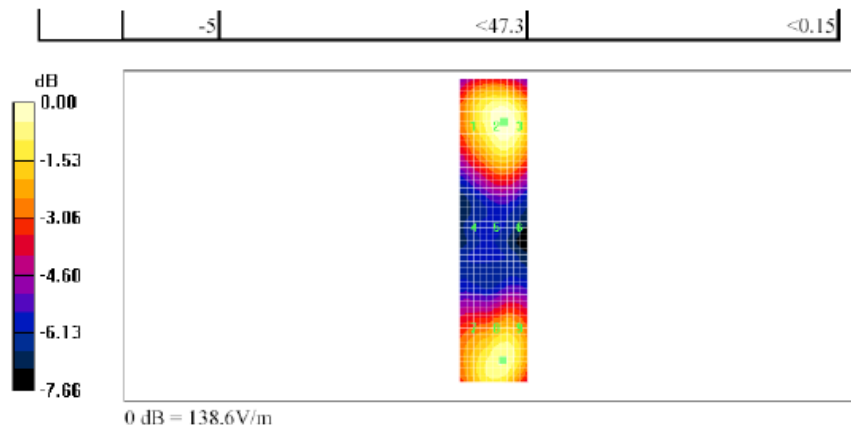
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Date/Time: 14/07/2005 12:43:02 PM

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Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_5 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):

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

Maximum value of Total (measured) = 0.406 A/m

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of Total field (slot averaged) = 0.406 A/m

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.342	0.359	0.344	0.342	0.359	0.344
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.389	0.406	0.389	0.389	0.406	0.389
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.363	0.378	0.363	0.363	0.378	0.363

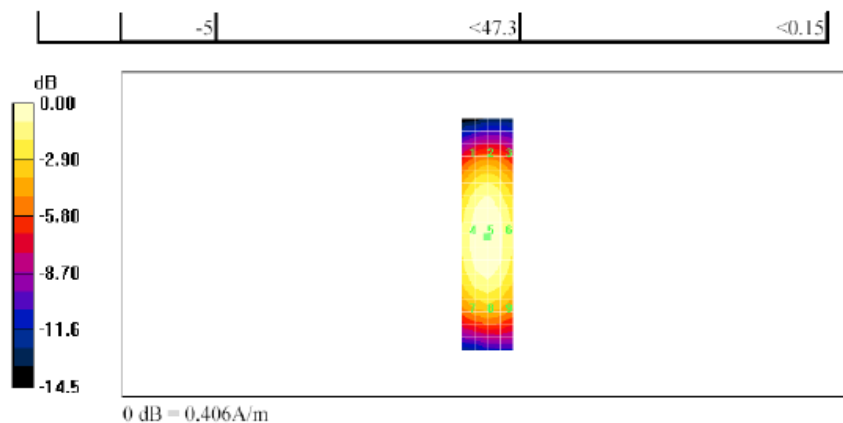
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

file://C:\Program%20Files\DASY4\Print_Templates\HAC_H_Dipole_CW%201880_5%... 14/07/2005

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCN72UW			23 (98)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW	

Date/Time: 14/07/2005 12:43:02 PM

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file://C:\Program%20Files\DASY4\Print_Templates\HAC_H_Dipole_CW%201880_5%... 14/07/2005

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCN72UW		24 (98)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW

Date/Time: 14/07/2005 12:53:40 PM

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Date/Time: 14/07/2005 12:53:40 PM

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):

Measurement grid: dx=2mm, dy=2mm

Maximum value of Total (measured) = 0.406 A/m

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):

Measurement grid: dx=2mm, dy=2mm

Maximum value of Total field (slot averaged) = 0.406 A/m

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3
0.347	0.361	0.348
Grid 4	Grid 5	Grid 6
0.394	0.406	0.391
Grid 7	Grid 8	Grid 9
0.367	0.380	0.365

Grid 1	Grid 2	Grid 3
0.347	0.361	0.348
Grid 4	Grid 5	Grid 6
0.394	0.406	0.391
Grid 7	Grid 8	Grid 9
0.367	0.380	0.365

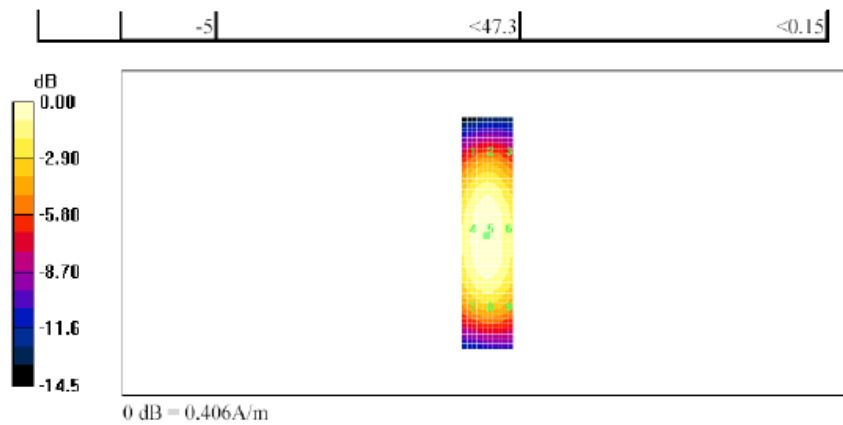
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

file://C:\Program%20Files\DASY4\Print_Templates\HAC_H_Dipole_CW%201880_2%... 14/07/2005

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCN72UW			25 (98)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW	

Date/Time: 14/07/2005 12:53:40 PM

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file://C:\Program%20Files\DASY4\Print_Templates\HAC_H_Dipole_CW%201880_2%... 14/07/2005

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A.3 RF emission field plots

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW	

Date/Time: 6/30/2010 2:17:43 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_850_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 89.0 V/m; Power Drift = 0.097 dB

Maximum value of Total (measured) = 69.6 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW

Maximum value of peak Total field = 199.2 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, -6.30 mm

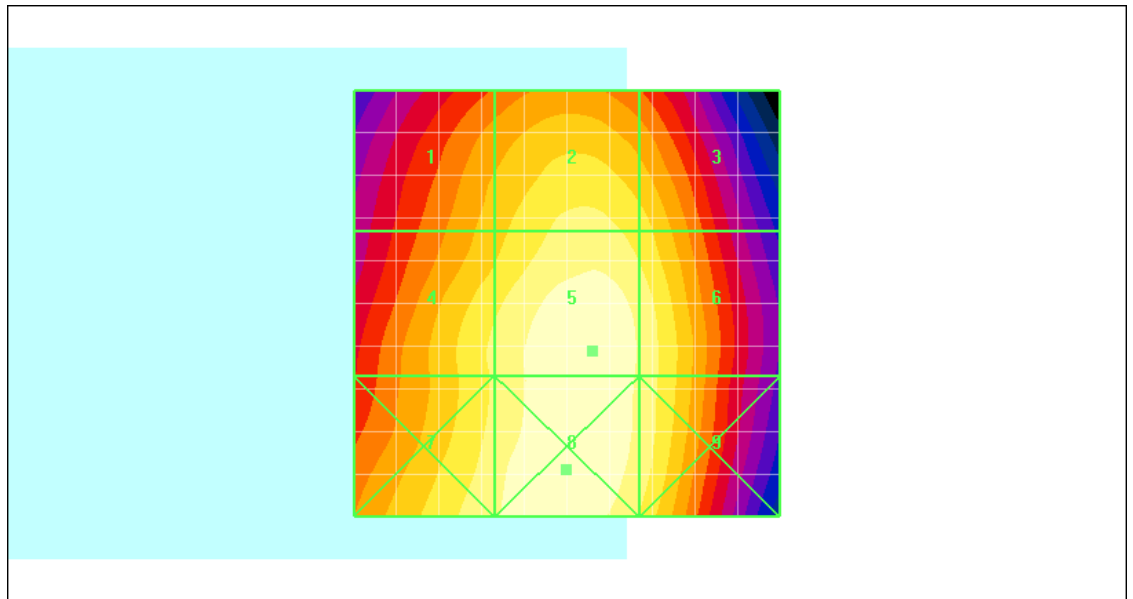
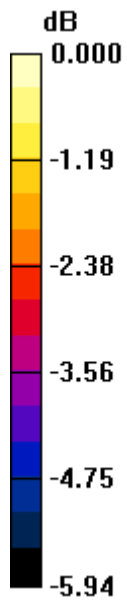
Reference Value = 89.0 V/m; Power Drift = 0.097 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 171.4 M3	Grid 2 185.7 M3	Grid 3 178.7 M3
Grid 4 184.4 M3	Grid 5 199.2 M3	Grid 6 190.0 M3
Grid 7 190.1 M3	Grid 8 199.9 M3	Grid 9 189.6 M3

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0 dB = 199.9V/m

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW	

Date/Time: 6/30/2010 2:24:41 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_850_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 95.6 V/m; Power Drift = -0.023 dB

Maximum value of Total (measured) = 74.5 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW

Maximum value of peak Total field = 211.8 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, -6.30 mm

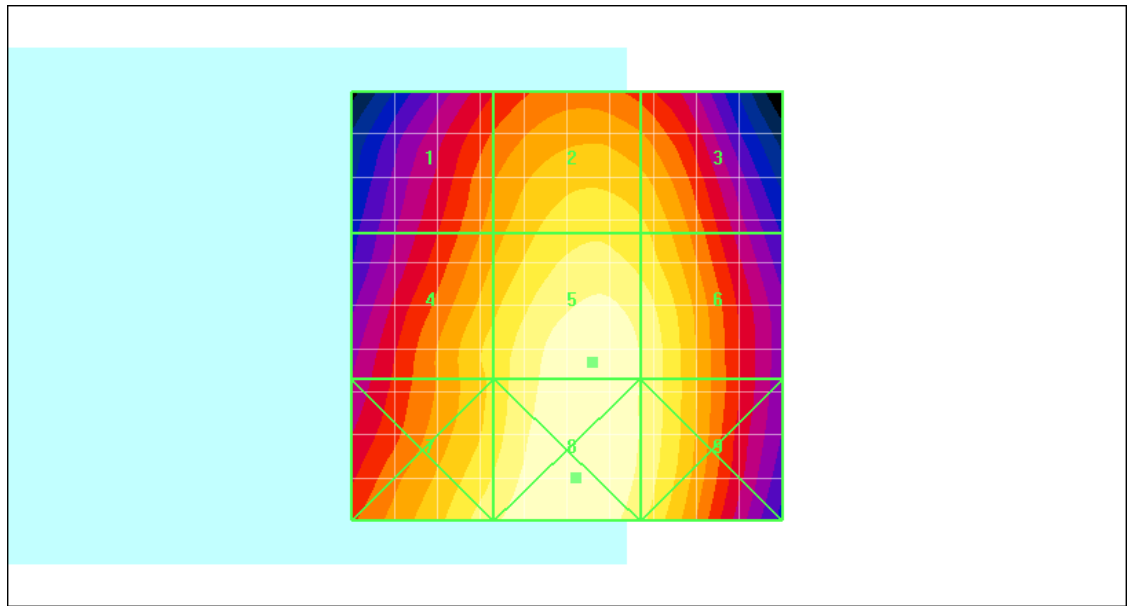
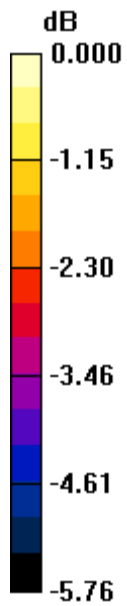
Reference Value = 95.6 V/m; Power Drift = -0.023 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 176.1 M3	Grid 2 195.0 M3	Grid 3 190.1 M3
Grid 4 191.4 M3	Grid 5 211.8 M3	Grid 6 204.8 M3
Grid 7 203.1 M3	Grid 8 214.1 M3	Grid 9 204.5 M3

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0 dB = 214.1V/m

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Date/Time: 6/30/2010 2:29:36 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_850_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 96.2 V/m; Power Drift = -0.043 dB

Maximum value of Total (measured) = 74.5 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW

Maximum value of peak Total field = 214.4 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, -6.30 mm

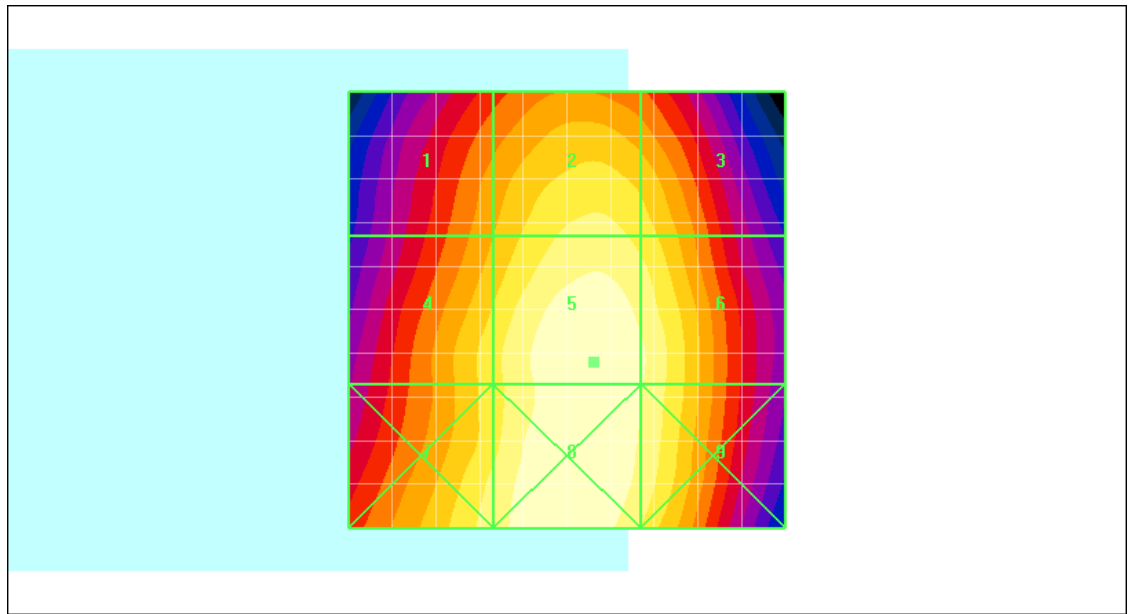
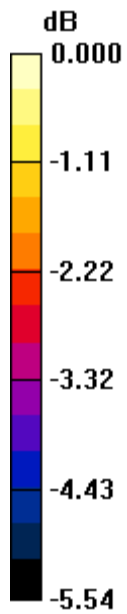
Reference Value = 96.2 V/m; Power Drift = -0.043 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 180.8 M3	Grid 2 200.4 M3	Grid 3 194.0 M3
Grid 4 194.2 M3	Grid 5 214.4 M3	Grid 6 206.9 M3
Grid 7 201.4 M3	Grid 8 214.1 M3	Grid 9 206.1 M3

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0 dB = 214.4V/m

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Date/Time: 6/30/2010 2:35:30 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_850_high_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 95.5 V/m; Power Drift = 0.008 dB

Maximum value of Total (measured) = 73.7 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW

Maximum value of peak Total field = 211.6 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, -6.30 mm

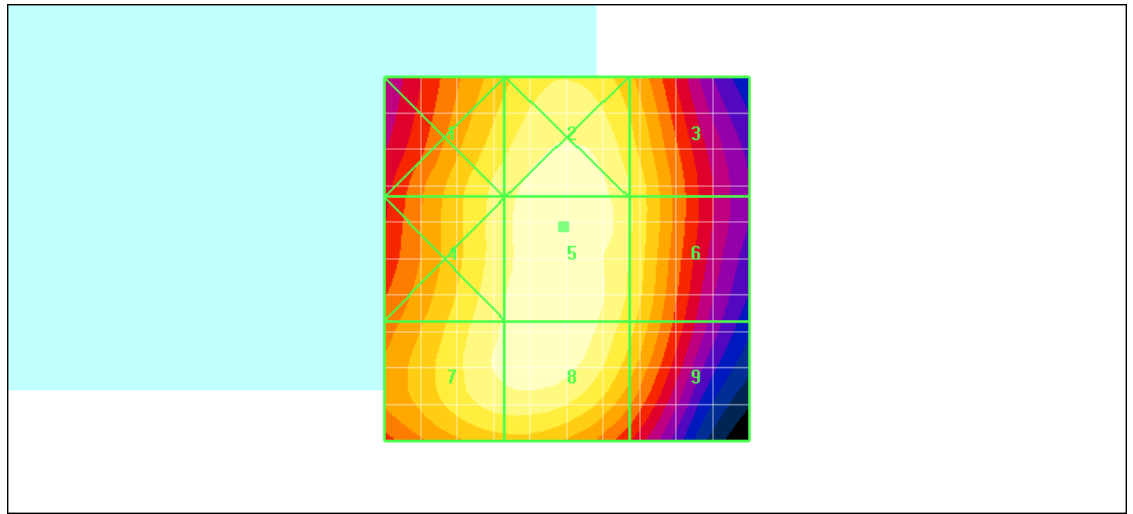
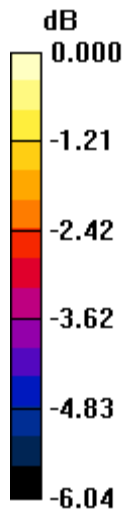
Reference Value = 95.5 V/m; Power Drift = 0.008 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 198.8 M3	Grid 2 211.1 M3	Grid 3 194.2 M3
Grid 4 203.5 M3	Grid 5 211.6 M3	Grid 6 194.6 M3
Grid 7 205.0 M3	Grid 8 210.8 M3	Grid 9 188.3 M3

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0 dB = 211.6V/m

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Date/Time: 6/30/2010 2:43:12 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_1900_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 13.4 V/m; Power Drift = 0.116 dB

Maximum value of Total (measured) = 28.8 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Maximum value of peak Total field = 55.7 V/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

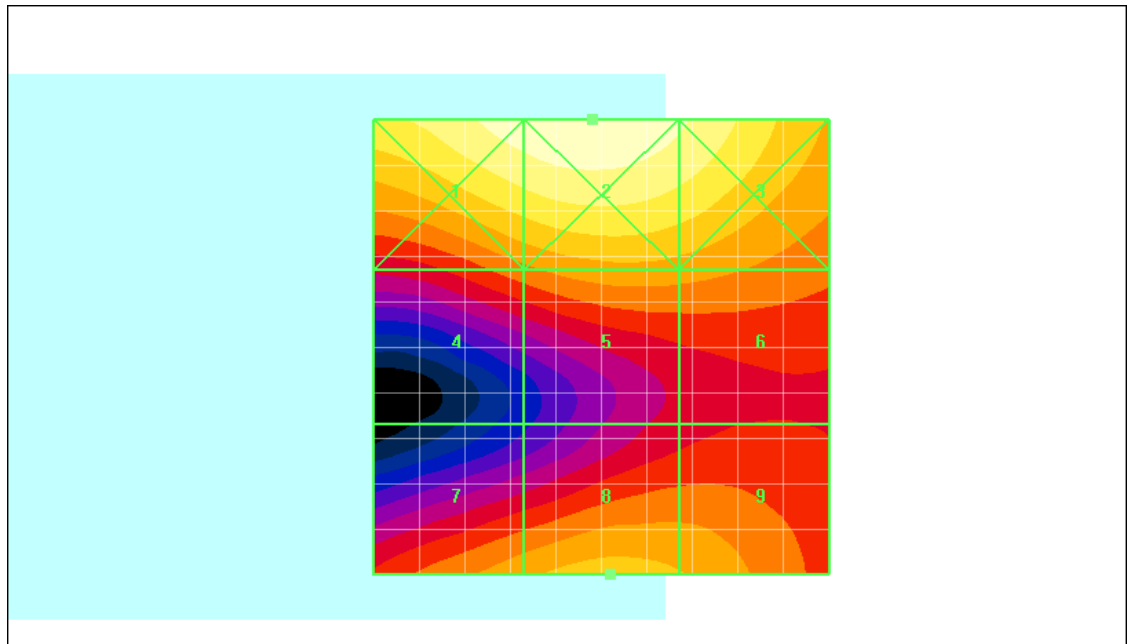
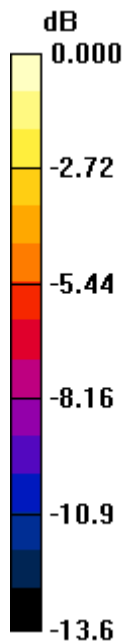
Reference Value = 13.4 V/m; Power Drift = 0.116 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 77.6 M3	Grid 2 80.4 M3	Grid 3 73.9 M3
Grid 4 46.4 M4	Grid 5 51.5 M3	Grid 6 50.5 M3
Grid 7 51.7 M3	Grid 8 55.7 M3	Grid 9 53.5 M3

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0 dB = 80.4V/m

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Date/Time: 6/30/2010 2:49:16 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_1900_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 12.8 V/m; Power Drift = -0.061 dB

Maximum value of Total (measured) = 24.6 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW

Maximum value of peak Total field = 47.2 V/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

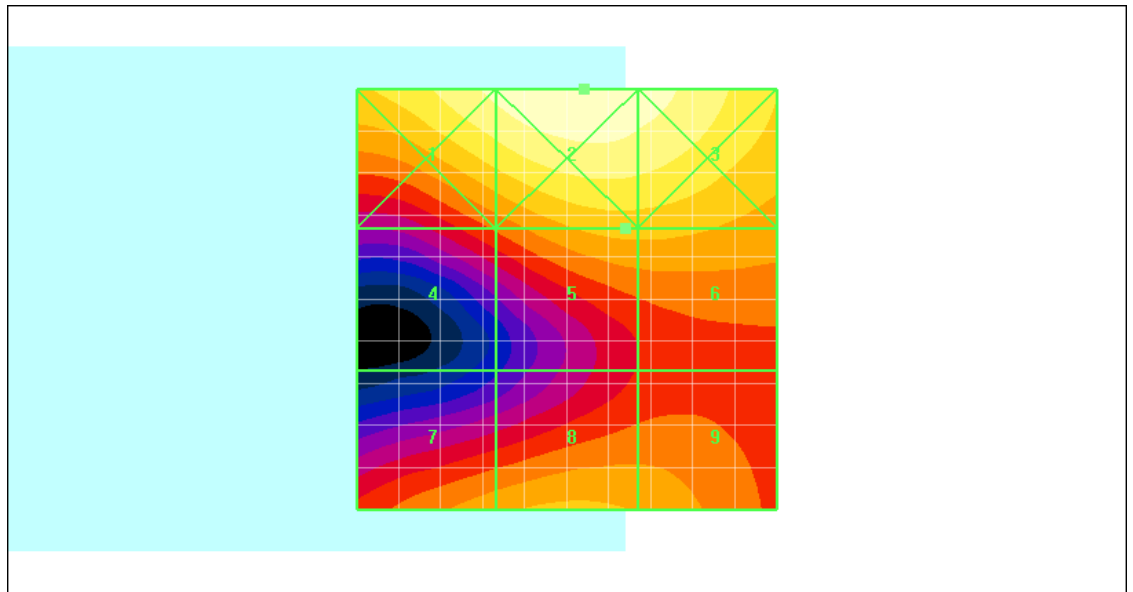
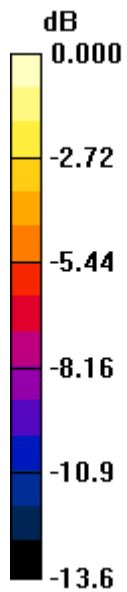
Reference Value = 12.8 V/m; Power Drift = -0.061 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

Grid 1 63.6 M3	Grid 2 68.6 M3	Grid 3 66.1 M3
Grid 4 37.6 M4	Grid 5 47.2 M4	Grid 6 47.2 M4
Grid 7 43.9 M4	Grid 8 46.4 M4	Grid 9 44.9 M4

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0 dB = 68.6V/m

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW	

Date/Time: 6/30/2010 2:57:37 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_1900_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 14.2 V/m; Power Drift = 0.121 dB

Maximum value of Total (measured) = 23.8 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW

Maximum value of peak Total field = 49.3 V/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

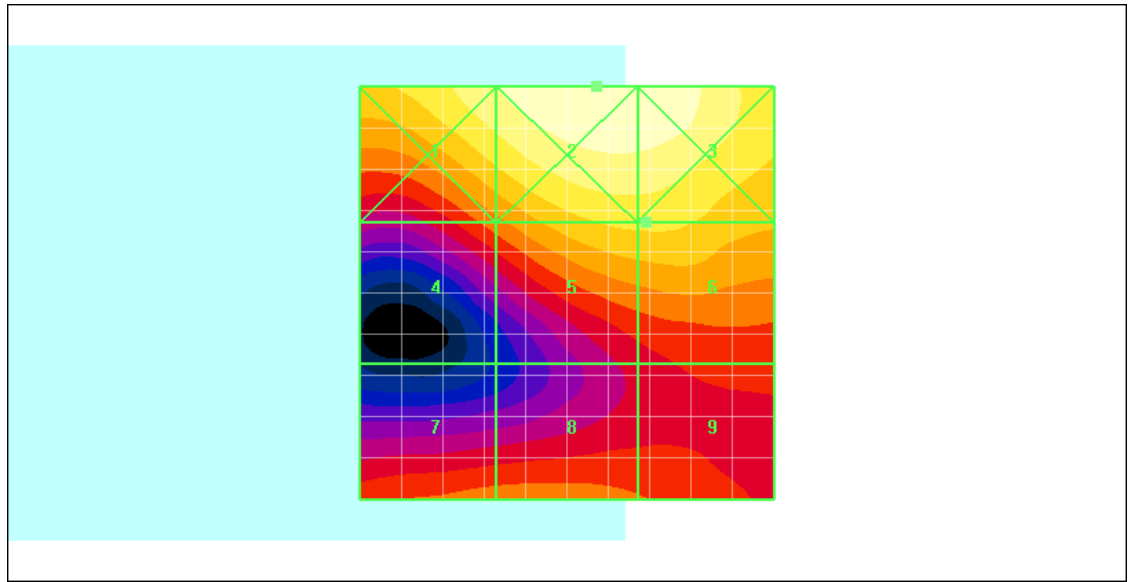
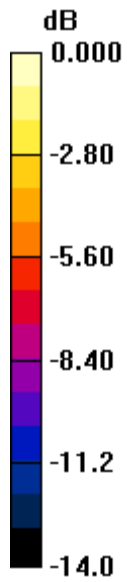
Reference Value = 14.2 V/m; Power Drift = 0.121 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 59.7 M3	Grid 2 66.4 M3	Grid 3 65.7 M3
Grid 4 37.3 M4	Grid 5 49.3 M3	Grid 6 49.3 M3
Grid 7 37.1 M4	Grid 8 37.6 M4	Grid 9 35.4 M4

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0 dB = 66.4V/m

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Date/Time: 6/30/2010 3:42:45 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_1900_low_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 12.6 V/m; Power Drift = 0.222 dB

Maximum value of Total (measured) = 22.1 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Maximum value of peak Total field = 62.0 V/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

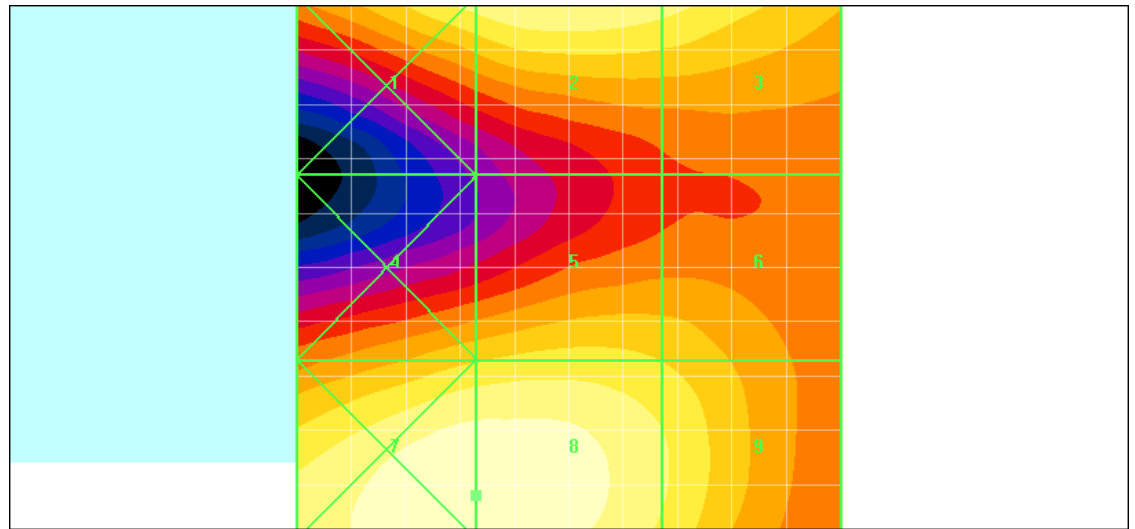
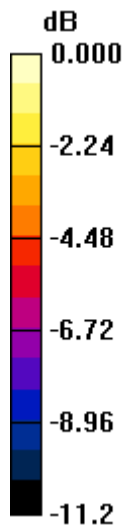
Reference Value = 12.6 V/m; Power Drift = 0.222 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 55.8 M3	Grid 2 58.6 M3	Grid 3 55.5 M3
Grid 4 47.6 M3	Grid 5 49.6 M3	Grid 6 47.9 M3
Grid 7 62.0 M3	Grid 8 62.0 M3	Grid 9 53.0 M3

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0 dB = 62.0V/m

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Date/Time: 6/30/2010 3:16:22 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_IV_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.4 V/m; Power Drift = 0.000 dB

Maximum value of Total (measured) = 38.6 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

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dx=5mm, dy=5mm

Maximum value of peak Total field = 28.4 V/m

Probe Modulation Factor = 0.950

Device Reference Point: 0.000, 0.000, -6.30 mm

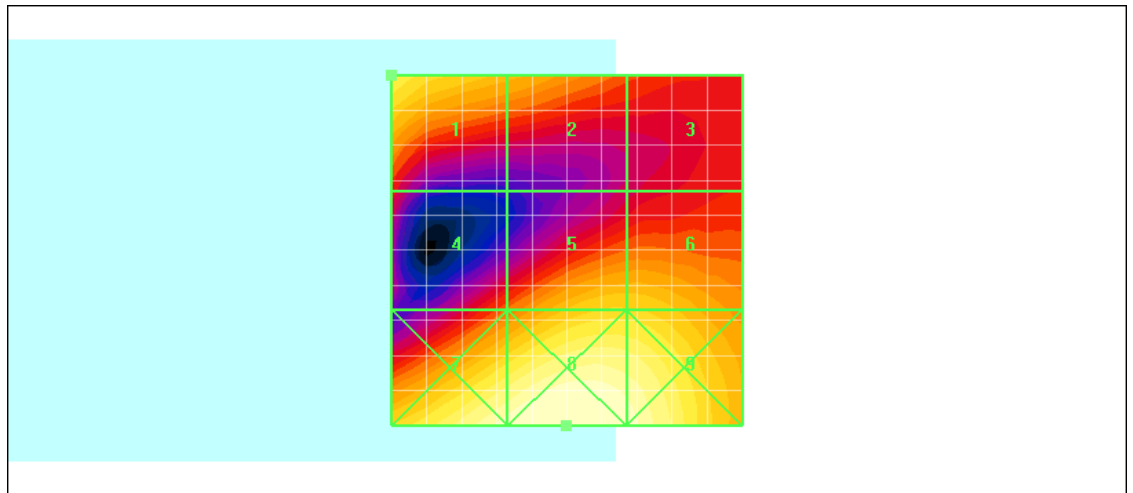
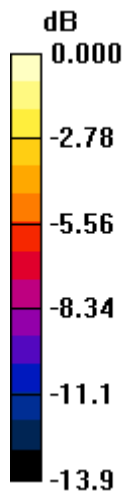
Reference Value = 20.4 V/m; Power Drift = 0.000 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 28.4 M4	Grid 2 23.5 M4	Grid 3 19.0 M4
Grid 4 19.7 M4	Grid 5 25.8 M4	Grid 6 25.7 M4
Grid 7 34.1 M4	Grid 8 36.7 M4	Grid 9 34.0 M4

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0 dB = 36.7V/m

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Date/Time: 6/30/2010 3:22:02 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_IV_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.4 V/m; Power Drift = -0.318 dB

Maximum value of Total (measured) = 42.3 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

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dx=5mm, dy=5mm

Maximum value of peak Total field = 29.5 V/m

Probe Modulation Factor = 0.950

Device Reference Point: 0.000, 0.000, -6.30 mm

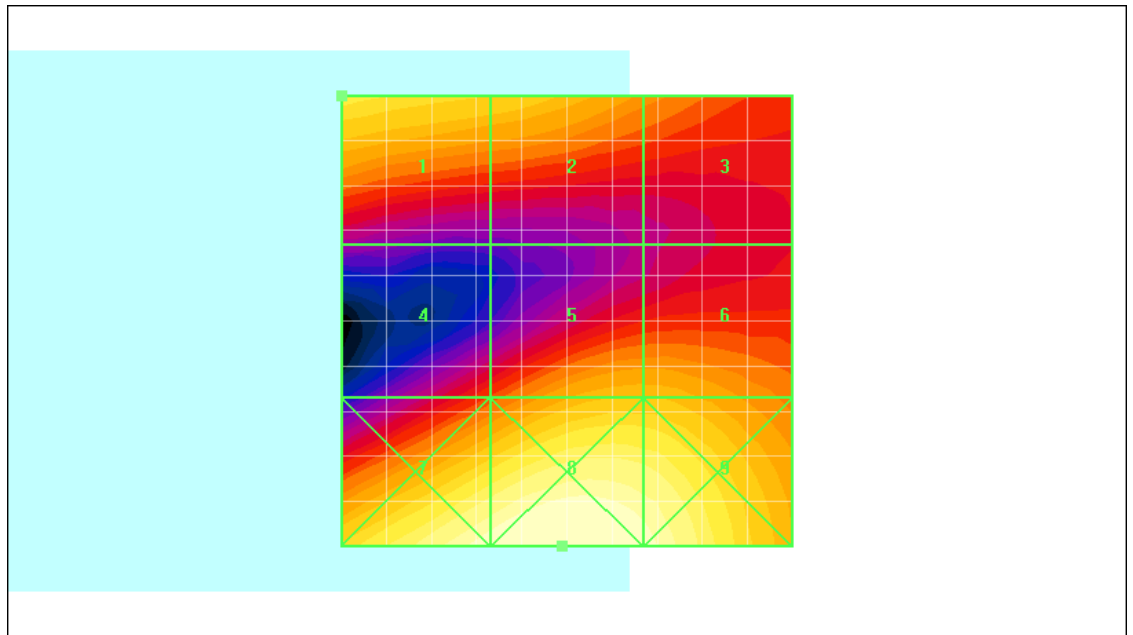
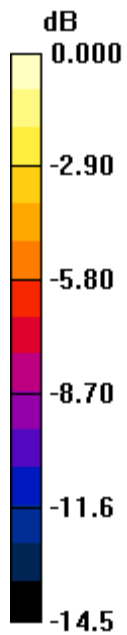
Reference Value = 18.4 V/m; Power Drift = -0.318 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 29.5 M4	Grid 2 27.4 M4	Grid 3 22.8 M4
Grid 4 20.0 M4	Grid 5 26.0 M4	Grid 6 26.0 M4
Grid 7 37.5 M4	Grid 8 40.2 M4	Grid 9 37.0 M4

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0 dB = 40.2V/m

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Date/Time: 6/30/2010 3:27:25 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_IV_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: WCDMA FDD IV; Frequency: 1752.5 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 14.7 V/m; Power Drift = -0.076 dB

Maximum value of Total (measured) = 38.8 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

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dx=5mm, dy=5mm

Maximum value of peak Total field = 36.8 V/m

Probe Modulation Factor = 0.950

Device Reference Point: 0.000, 0.000, -6.30 mm

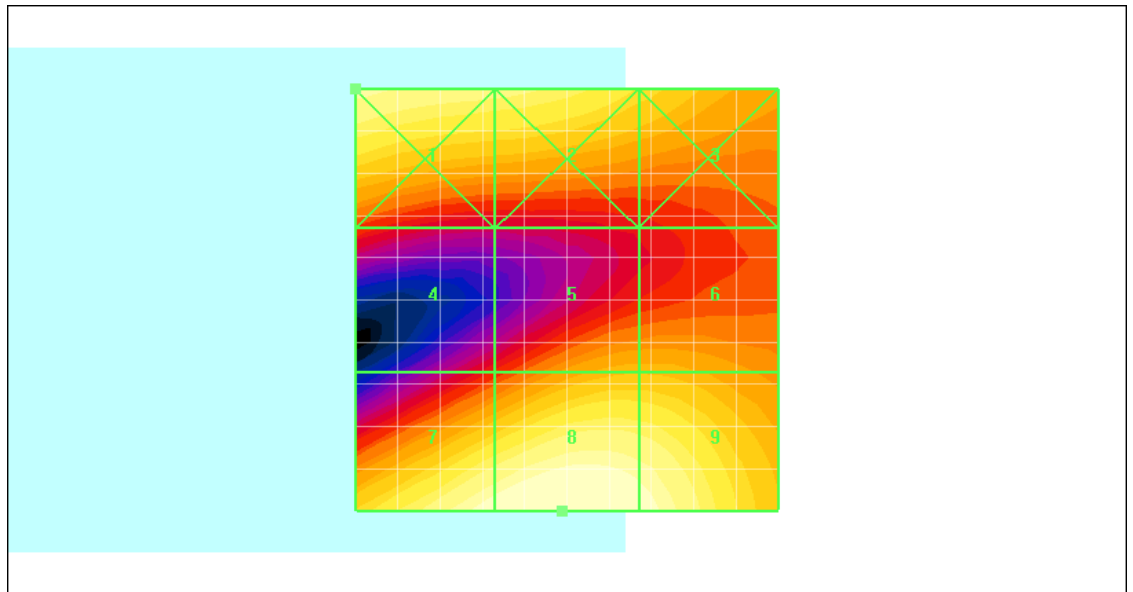
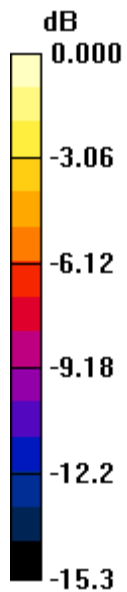
Reference Value = 14.7 V/m; Power Drift = -0.076 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 32.0 M4	Grid 2 29.9 M4	Grid 3 25.7 M4
Grid 4 17.1 M4	Grid 5 22.8 M4	Grid 6 22.8 M4
Grid 7 34.4 M4	Grid 8 36.8 M4	Grid 9 34.2 M4

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0 dB = 36.8V/m

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Date/Time: 6/30/2010 3:33:08 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_IV_high_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: WCDMA FDD IV; Frequency: 1752.5 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 14.3 V/m; Power Drift = 0.340 dB

Maximum value of Total (measured) = 40.3 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 38.3 V/m

Probe Modulation Factor = 0.950

Device Reference Point: 0.000, 0.000, -6.30 mm

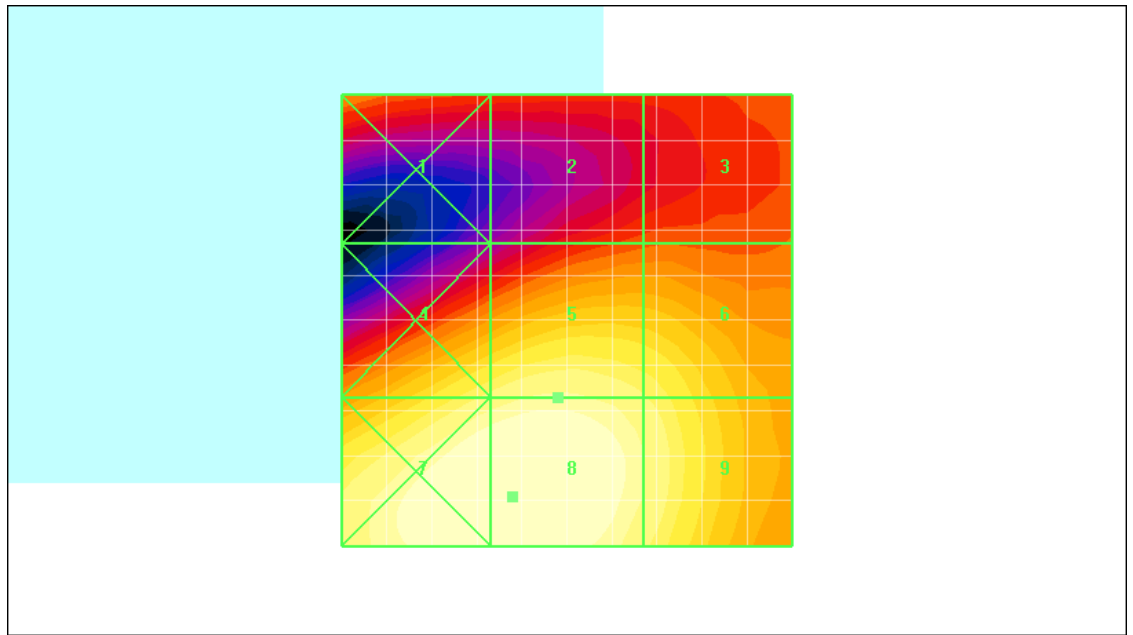
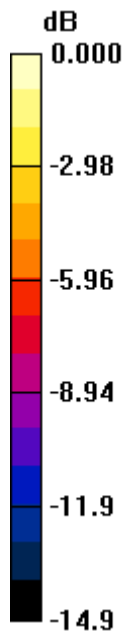
Reference Value = 14.3 V/m; Power Drift = 0.340 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 20.7 M4	Grid 2 19.0 M4	Grid 3 19.5 M4
Grid 4 31.1 M4	Grid 5 33.1 M4	Grid 6 30.7 M4
Grid 7 38.1 M4	Grid 8 38.3 M4	Grid 9 32.8 M4

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0 dB = 38.3V/m

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Date/Time: 6/30/2010 12:55:34 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.075 A/m; Power Drift = 0.115 dB

Maximum value of Total (measured) = 0.156 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Maximum value of peak Total field = 0.295 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

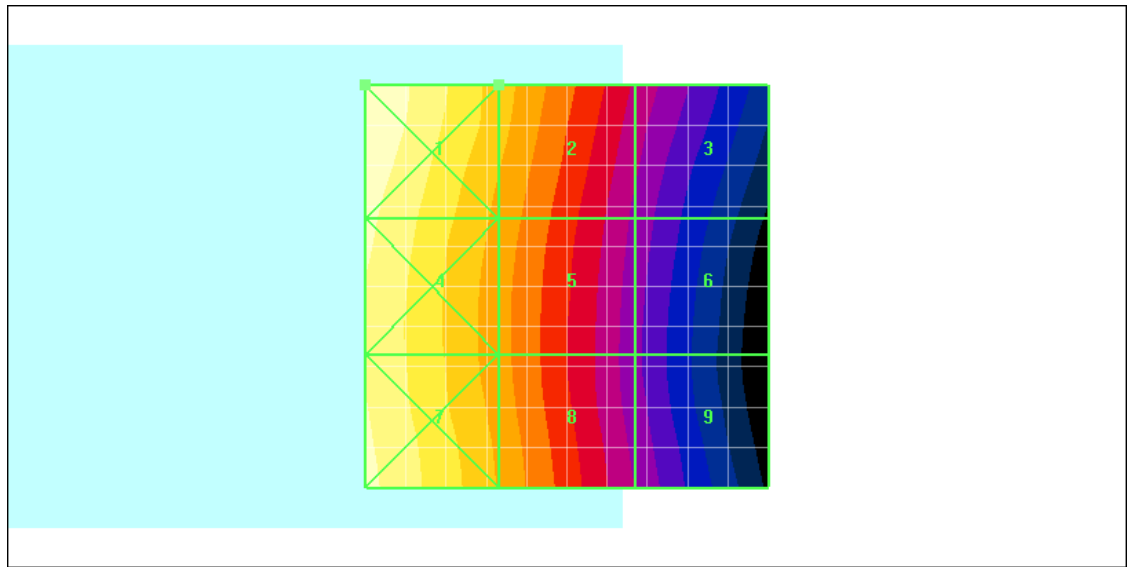
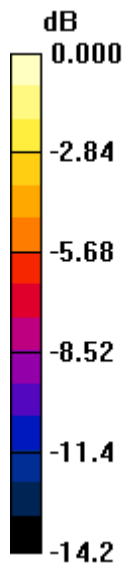
Reference Value = 0.075 A/m; Power Drift = 0.115 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.431 M4	Grid 2 0.295 M4	Grid 3 0.177 M4
Grid 4 0.398 M4	Grid 5 0.271 M4	Grid 6 0.158 M4
Grid 7 0.401 M4	Grid 8 0.277 M4	Grid 9 0.162 M4

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0 dB = 0.431A/m

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Date/Time: 6/30/2010 1:02:10 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.089 A/m; Power Drift = -0.065 dB

Maximum value of Total (measured) = 0.171 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Maximum value of peak Total field = 0.333 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

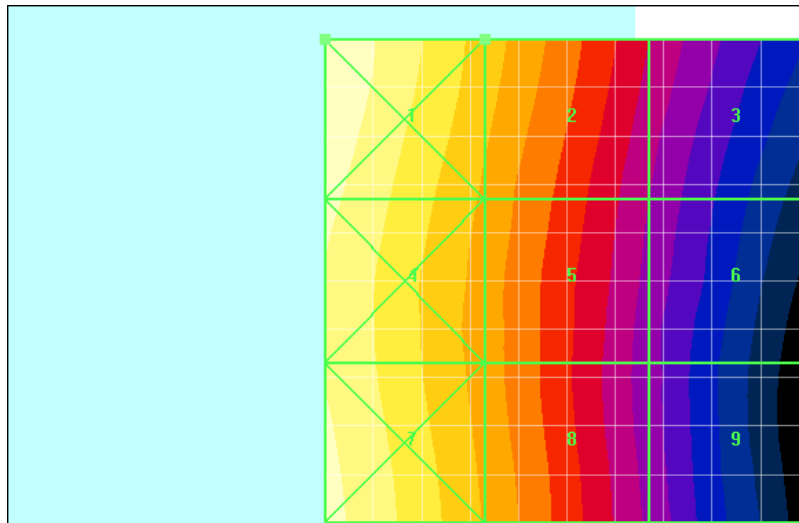
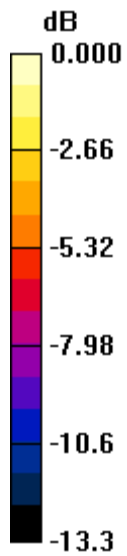
Reference Value = 0.089 A/m; Power Drift = -0.065 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.473 M3	Grid 2 0.333 M4	Grid 3 0.209 M4
Grid 4 0.441 M4	Grid 5 0.309 M4	Grid 6 0.189 M4
Grid 7 0.444 M4	Grid 8 0.312 M4	Grid 9 0.185 M4

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0 dB = 0.473A/m

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Date/Time: 6/30/2010 1:06:55 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.097 A/m; Power Drift = -0.146 dB

Maximum value of Total (measured) = 0.177 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Maximum value of peak Total field = 0.356 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

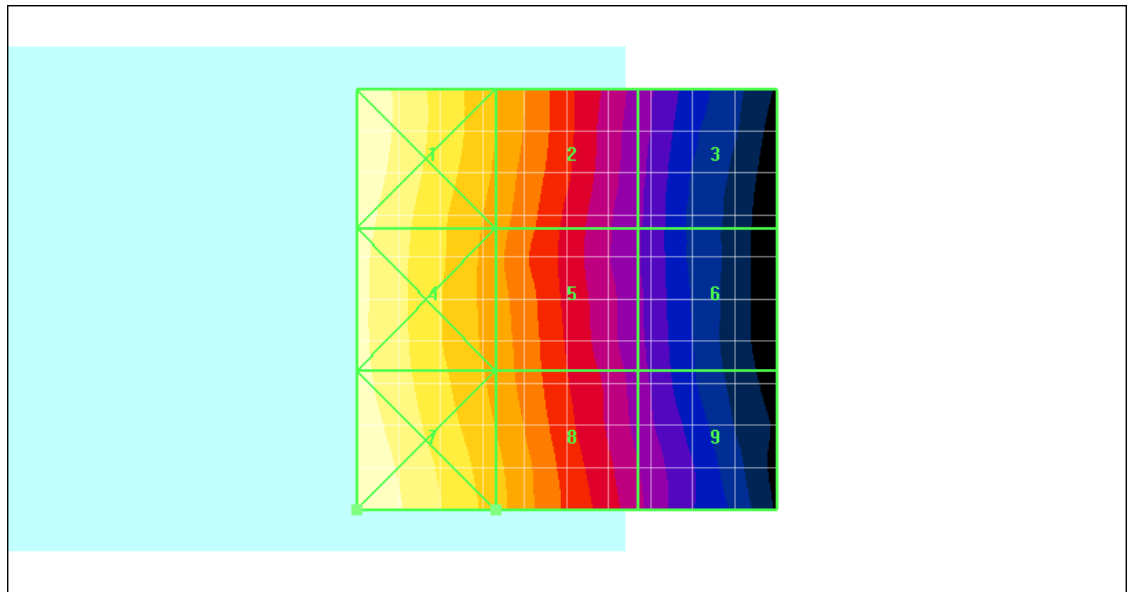
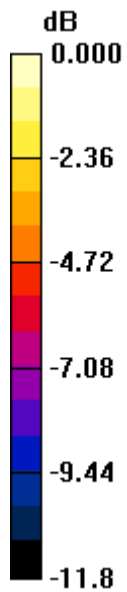
Reference Value = 0.097 A/m; Power Drift = -0.146 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.487 M3	Grid 2 0.344 M4	Grid 3 0.209 M4
Grid 4 0.468 M3	Grid 5 0.331 M4	Grid 6 0.207 M4
Grid 7 0.491 M3	Grid 8 0.356 M4	Grid 9 0.222 M4

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW



0 dB = 0.491A/m

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW

Date/Time: 6/30/2010 1:12:58 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_high_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.096 A/m; Power Drift = 0.113 dB

Maximum value of Total (measured) = 0.168 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW

Maximum value of peak Total field = 0.333 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

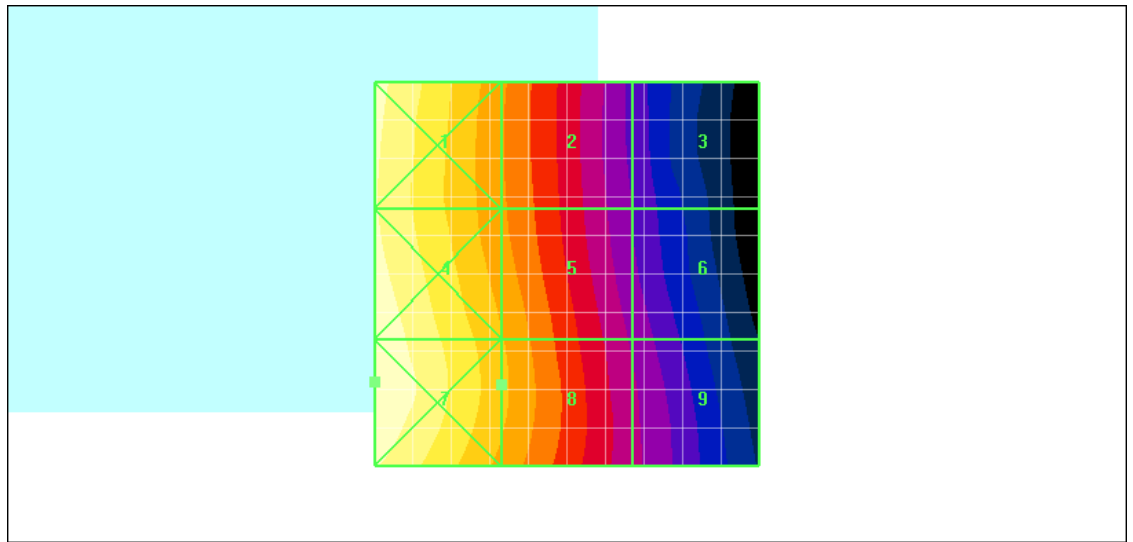
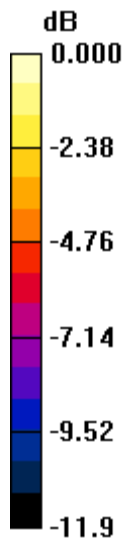
Reference Value = 0.096 A/m; Power Drift = 0.113 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.441 M4	Grid 2 0.302 M4	Grid 3 0.188 M4
Grid 4 0.459 M3	Grid 5 0.327 M4	Grid 6 0.203 M4
Grid 7 0.467 M3	Grid 8 0.333 M4	Grid 9 0.212 M4

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW



0 dB = 0.467A/m

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW

Date/Time: 6/30/2010 1:20:27 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.079 A/m; Power Drift = 0.035 dB

Maximum value of Total (measured) = 0.096 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW

Maximum value of peak Total field = 0.177 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

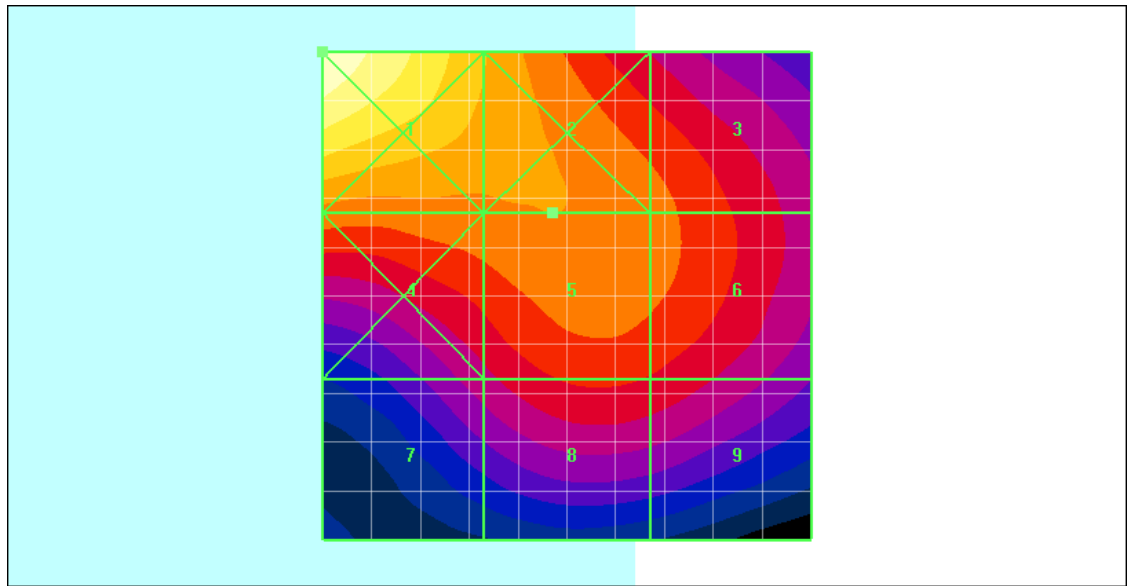
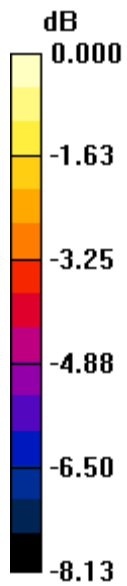
Reference Value = 0.079 A/m; Power Drift = 0.035 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.242 M3	Grid 2 0.189 M3	Grid 3 0.171 M3
Grid 4 0.175 M3	Grid 5 0.177 M3	Grid 6 0.171 M3
Grid 7 0.144 M3	Grid 8 0.159 M3	Grid 9 0.156 M3

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0 dB = 0.242A/m

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW

Date/Time: 6/30/2010 1:26:49 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.068 A/m; Power Drift = 0.068 dB

Maximum value of Total (measured) = 0.087 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW

Maximum value of peak Total field = 0.158 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

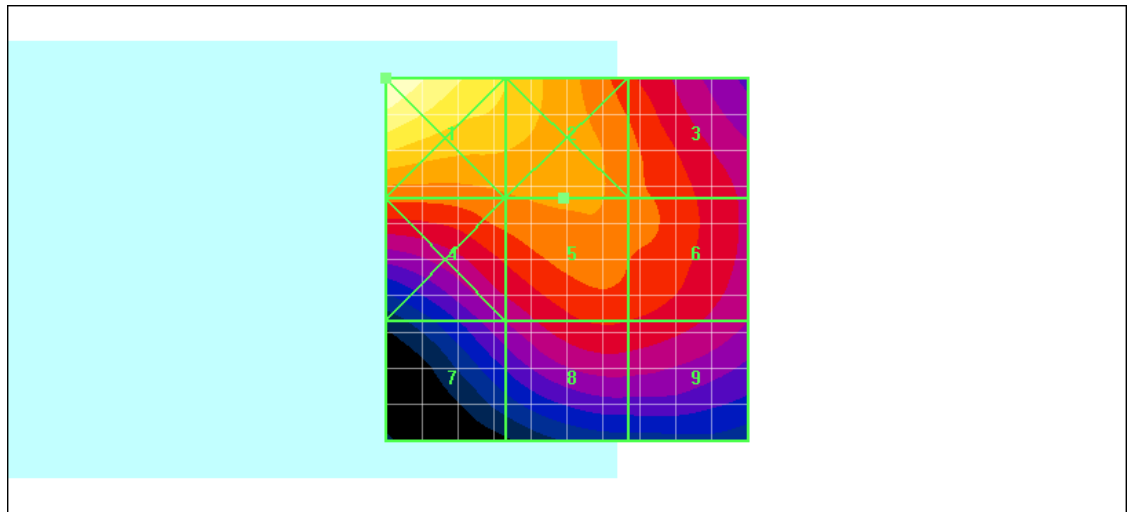
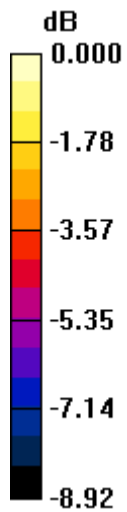
Reference Value = 0.068 A/m; Power Drift = 0.068 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.219 M3	Grid 2 0.180 M3	Grid 3 0.150 M3
Grid 4 0.154 M3	Grid 5 0.158 M3	Grid 6 0.152 M3
Grid 7 0.119 M4	Grid 8 0.137 M4	Grid 9 0.136 M4

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW



0 dB = 0.219A/m

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW

Date/Time: 6/30/2010 1:32:25 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.062 A/m; Power Drift = -0.093 dB

Maximum value of Total (measured) = 0.088 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW

Maximum value of peak Total field = 0.149 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

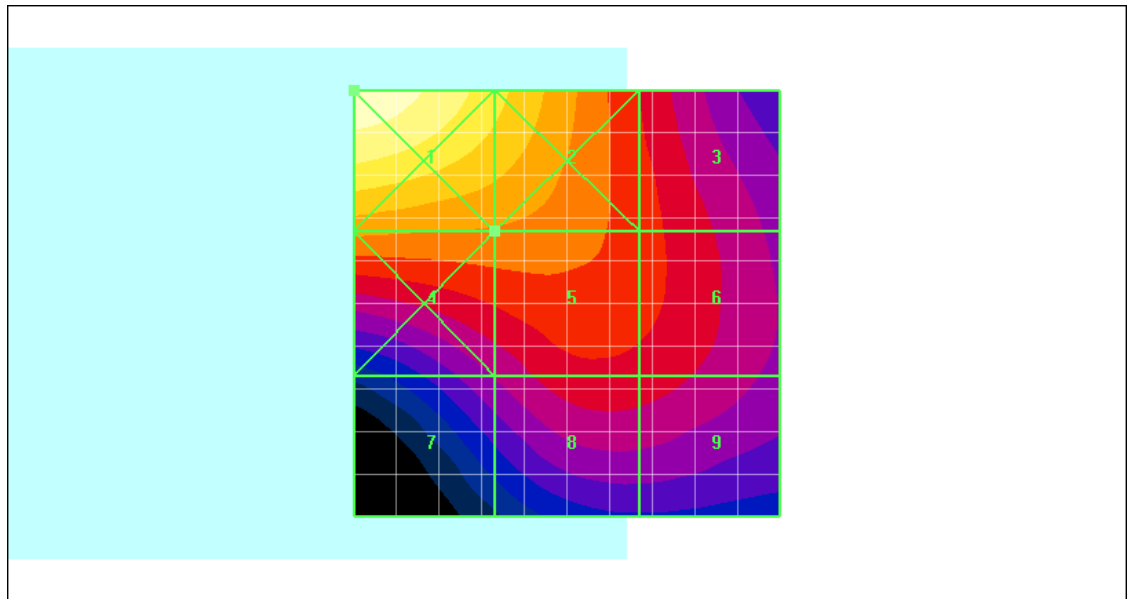
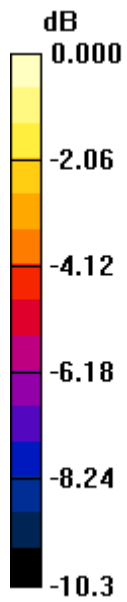
Reference Value = 0.062 A/m; Power Drift = -0.093 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.222 M3	Grid 2 0.181 M3	Grid 3 0.133 M4
Grid 4 0.153 M3	Grid 5 0.149 M3	Grid 6 0.133 M4
Grid 7 0.110 M4	Grid 8 0.125 M4	Grid 9 0.124 M4

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0 dB = 0.222A/m

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW

Date/Time: 6/30/2010 1:38:40 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_low_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.079 A/m; Power Drift = 0.304 dB

Maximum value of Total (measured) = 0.076 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW

Maximum value of peak Total field = 0.173 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

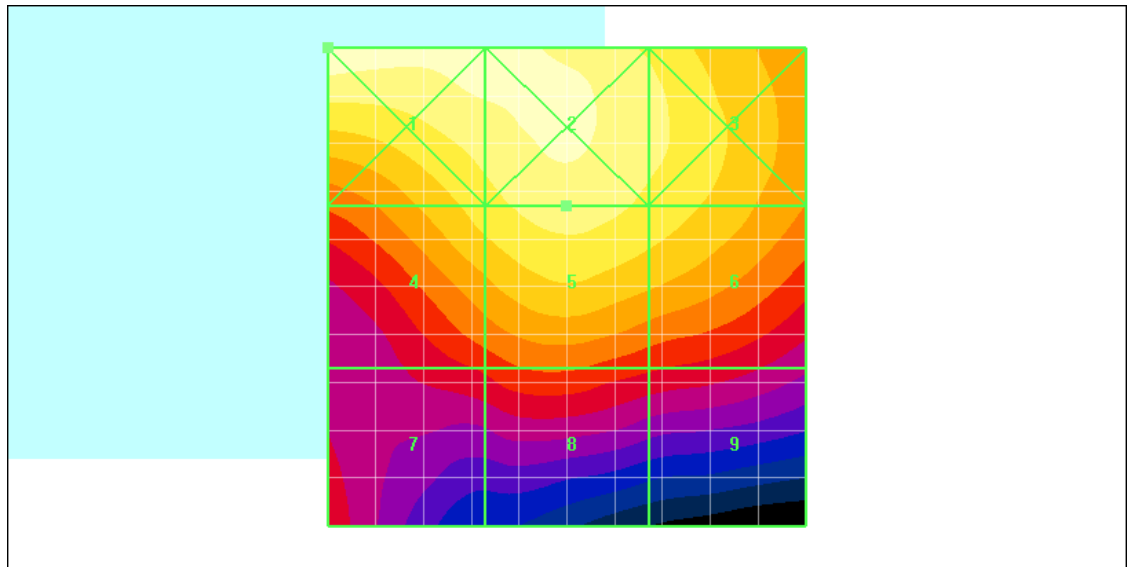
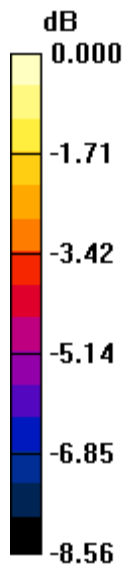
Reference Value = 0.079 A/m; Power Drift = 0.304 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.191 M3	Grid 2 0.184 M3	Grid 3 0.171 M3
Grid 4 0.162 M3	Grid 5 0.173 M3	Grid 6 0.165 M3
Grid 7 0.123 M4	Grid 8 0.130 M4	Grid 9 0.122 M4

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0 dB = 0.191A/m

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW	

Date/Time: 6/30/2010 1:46:20 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_IV_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.100 A/m; Power Drift = 0.010 dB

Maximum value of Total (measured) = 0.106 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.086 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0.000, 0.000, -6.30 mm

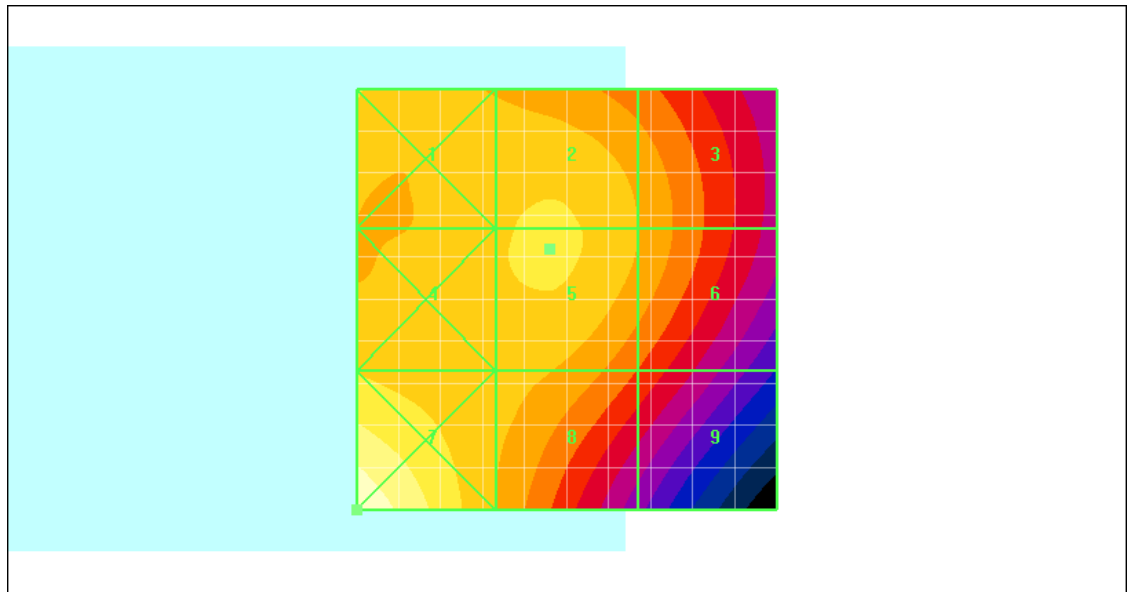
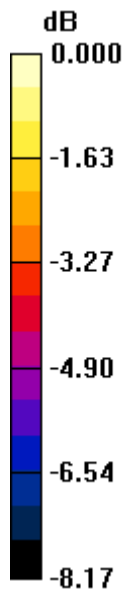
Reference Value = 0.100 A/m; Power Drift = 0.010 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.086 M4	Grid 2 0.086 M4	Grid 3 0.080 M4
Grid 4 0.085 M4	Grid 5 0.086 M4	Grid 6 0.080 M4
Grid 7 0.103 M4	Grid 8 0.082 M4	Grid 9 0.071 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCN72UW		Page 89 (98)
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0 dB = 0.103A/m

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARC70UW	

Date/Time: 6/30/2010 1:51:51 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_IV_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.114 A/m; Power Drift = 0.033 dB

Maximum value of Total (measured) = 0.109 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.097 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0.000, 0.000, -6.30 mm

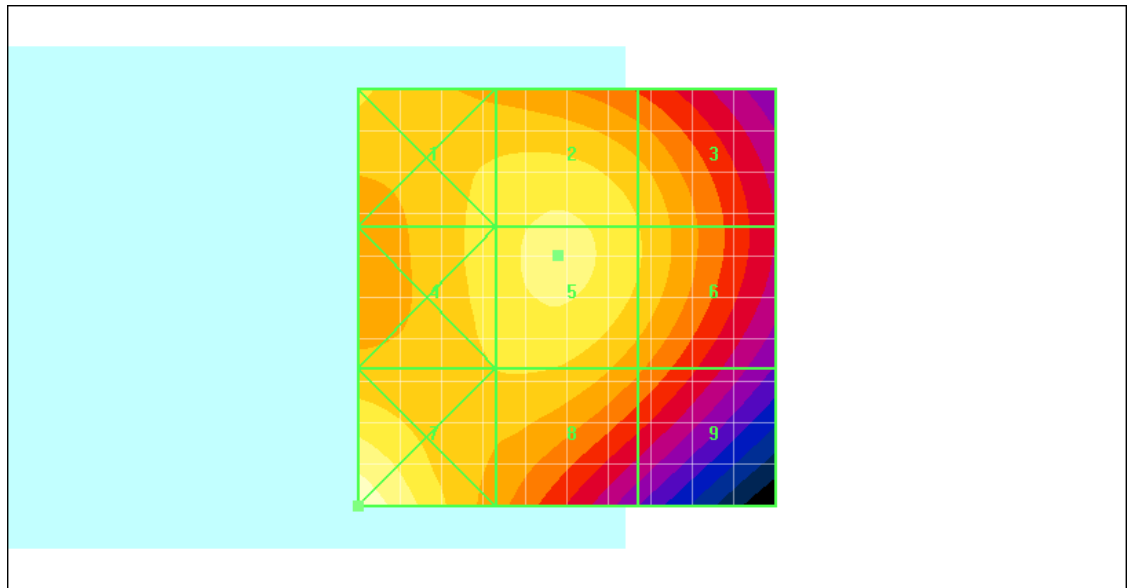
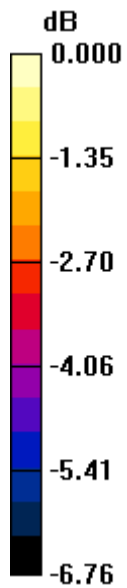
Reference Value = 0.114 A/m; Power Drift = 0.033 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.094 M4	Grid 2 0.096 M4	Grid 3 0.091 M4
Grid 4 0.094 M4	Grid 5 0.097 M4	Grid 6 0.091 M4
Grid 7 0.106 M4	Grid 8 0.091 M4	Grid 9 0.083 M4

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0 dB = 0.106A/m

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Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-35	FCC ID L6ARCN70UW	

Date/Time: 6/30/2010 1:58:39 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_IV_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.118 A/m; Power Drift = -0.025 dB

Maximum value of Total (measured) = 0.104 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.100 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0.000, 0.000, -6.30 mm

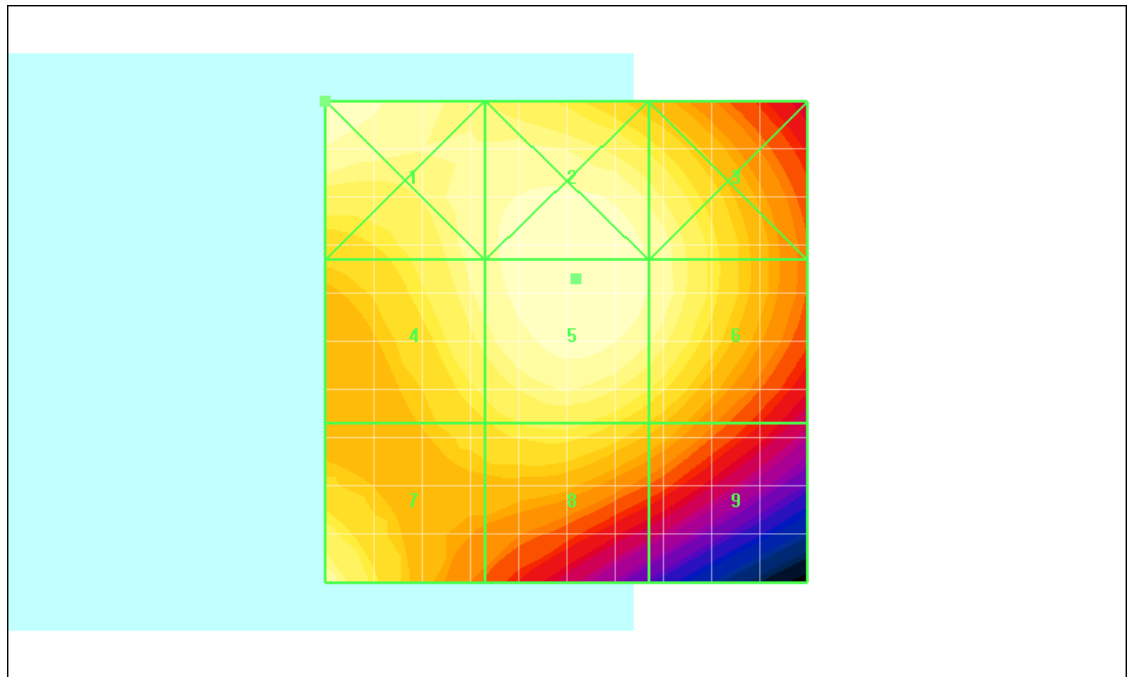
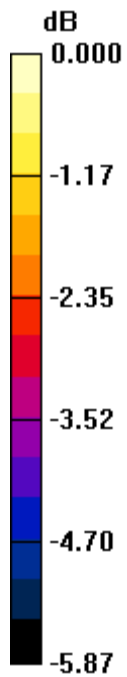
Reference Value = 0.118 A/m; Power Drift = -0.025 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.101 M4	Grid 2 0.100 M4	Grid 3 0.096 M4
Grid 4 0.095 M4	Grid 5 0.100 M4	Grid 6 0.097 M4
Grid 7 0.095 M4	Grid 8 0.090 M4	Grid 9 0.086 M4

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0 dB = 0.101A/m

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Date/Time: 6/30/2010 2:04:36 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_IV_high_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.117 A/m; Power Drift = 0.034 dB

Maximum value of Total (measured) = 0.103 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.095 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0.000, 0.000, -6.30 mm

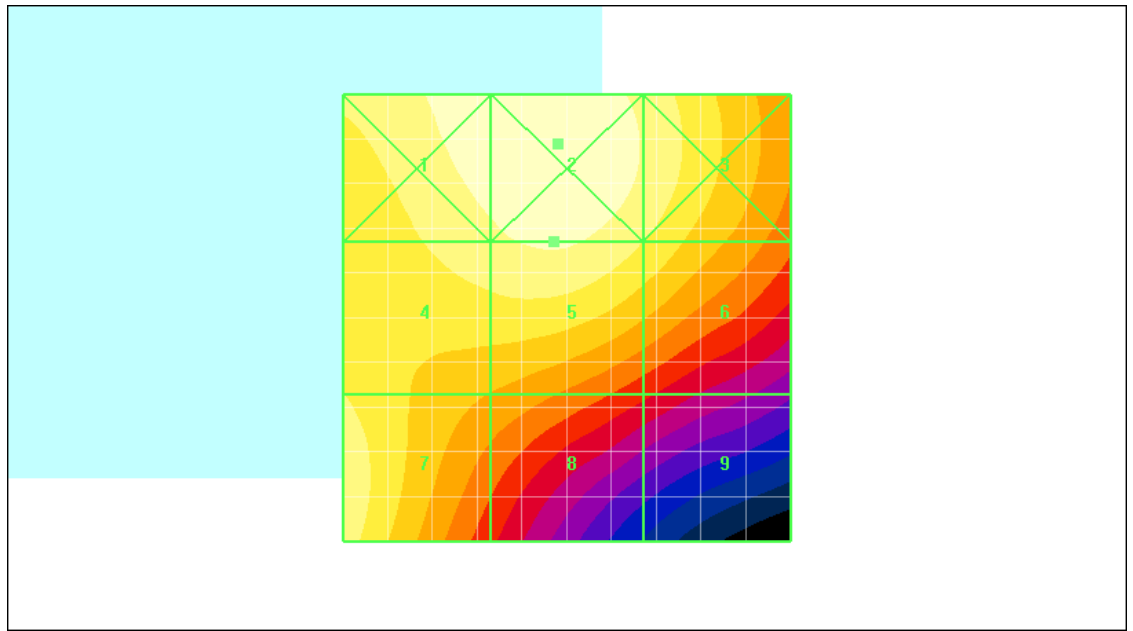
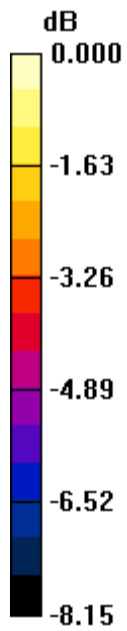
Reference Value = 0.117 A/m; Power Drift = 0.034 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.097 M4	Grid 2 0.100 M4	Grid 3 0.094 M4
Grid 4 0.092 M4	Grid 5 0.095 M4	Grid 6 0.088 M4
Grid 7 0.093 M4	Grid 8 0.078 M4	Grid 9 0.066 M4

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0 dB = 0.100A/m