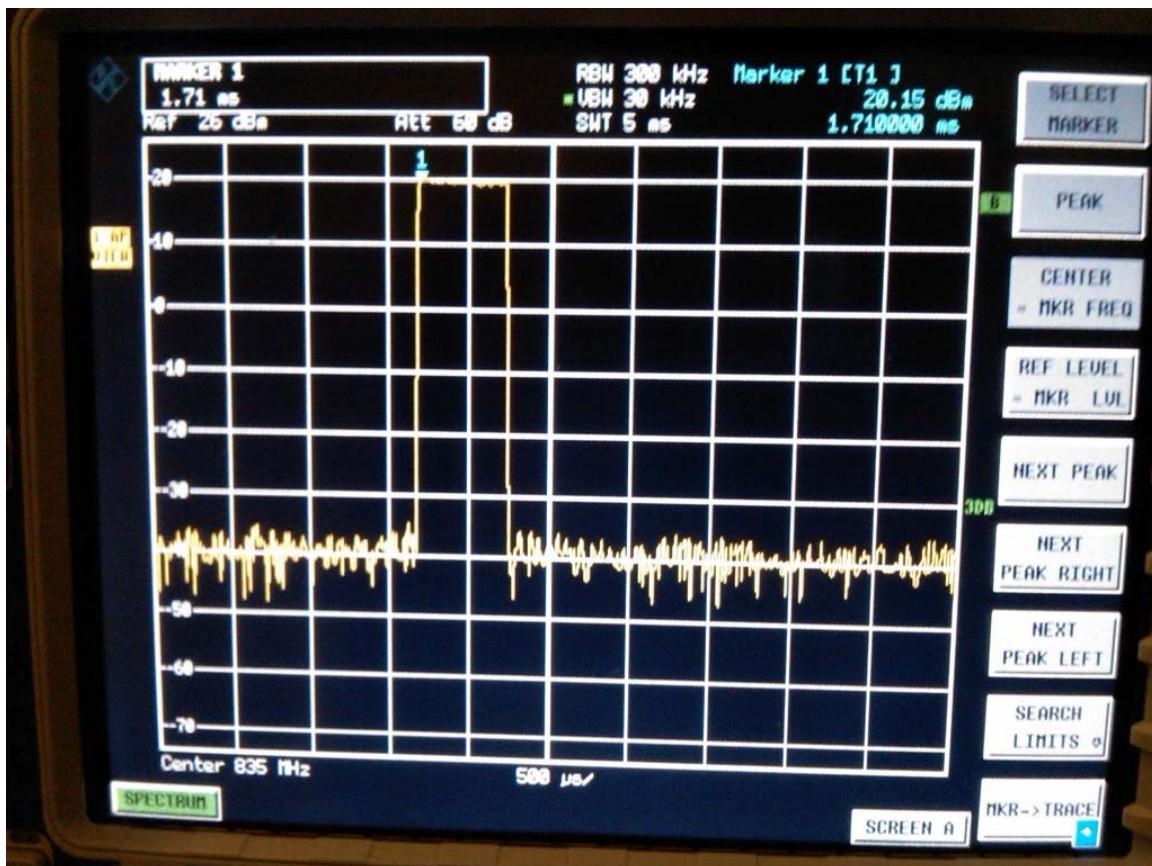


 RIM Testing Services	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDU71CW/RDE71UW	Page
			1 (187)
Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55A RTS-2580-1106-36	FCC ID L6ARDU70CW L6ARDE70UW

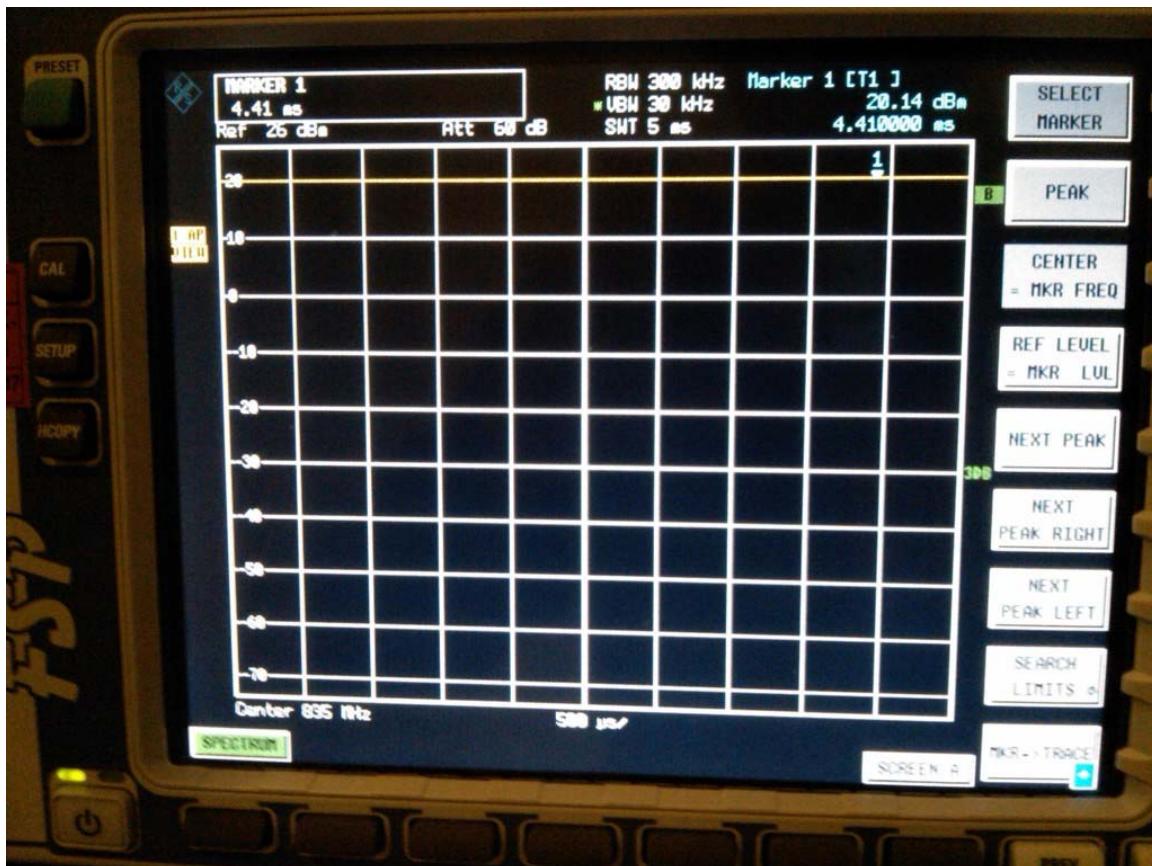
Annex A: Measurement data and plots

A.1 Spectrum analyser plots: GSM/CDMA/UMTS, CW, 80%AM, signals



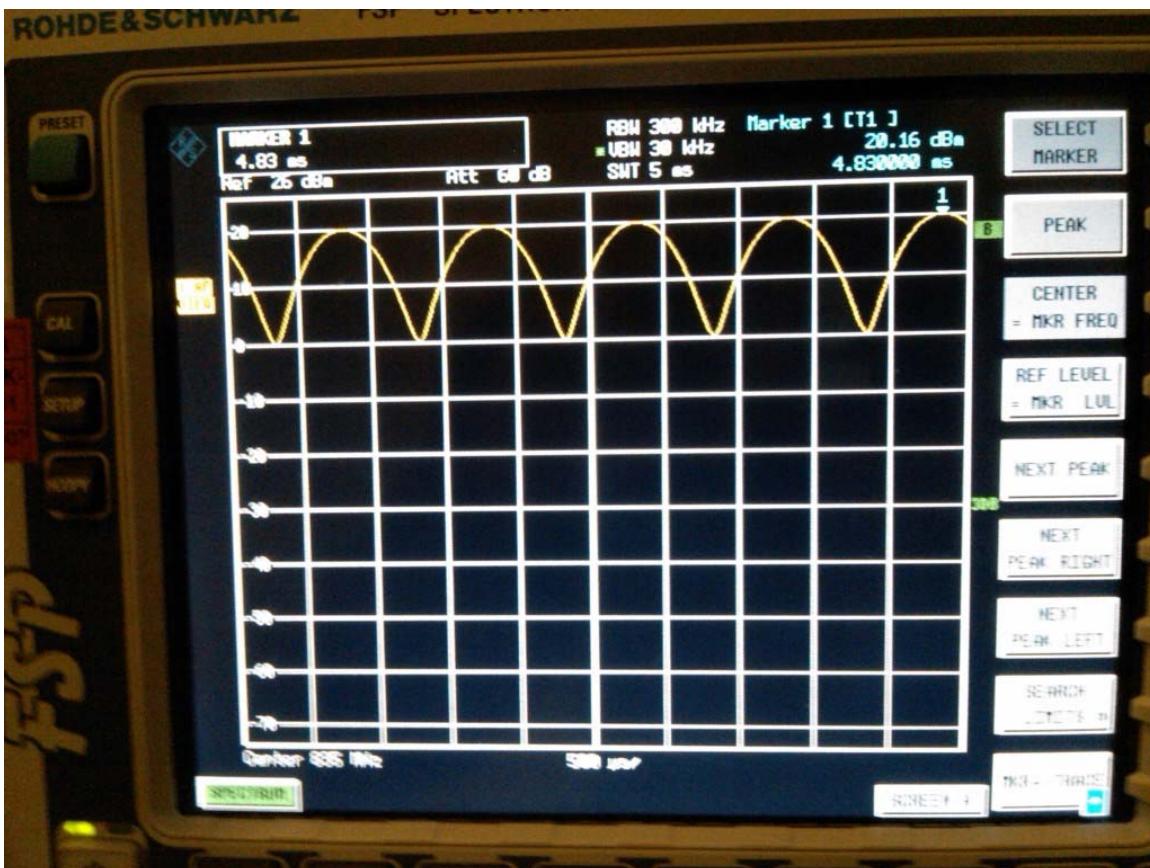
GSM 835 MHz

Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55A RTS-2580-1106-36	FCC ID L6ARDU70CW L6ARDE70UW
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CW 835 MHz

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28 , 2011	



AM 80% 835 MHz



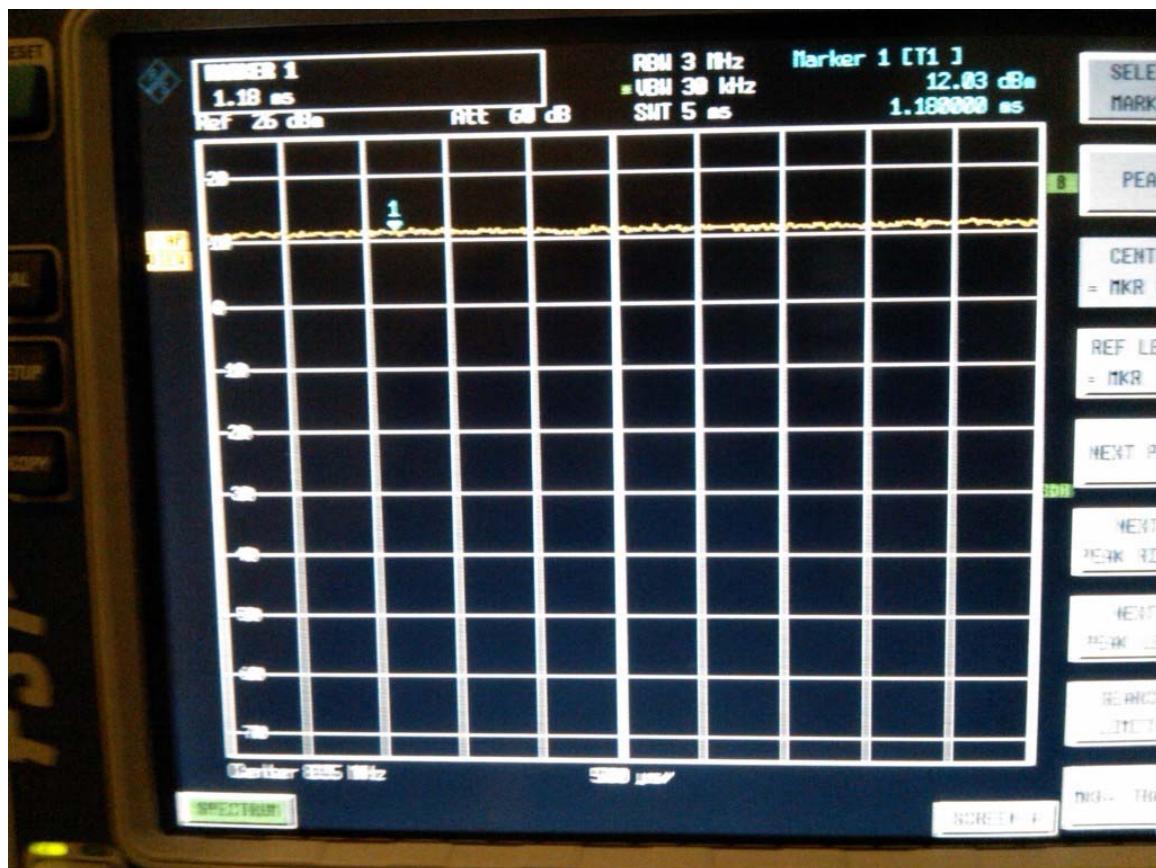
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**CDMA 835 MHz**



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FCC ID

**L6ARDU70CW
L6ARDE70UW****CW 835 MHz**



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6 (187)Author Data
Daoud Attayi

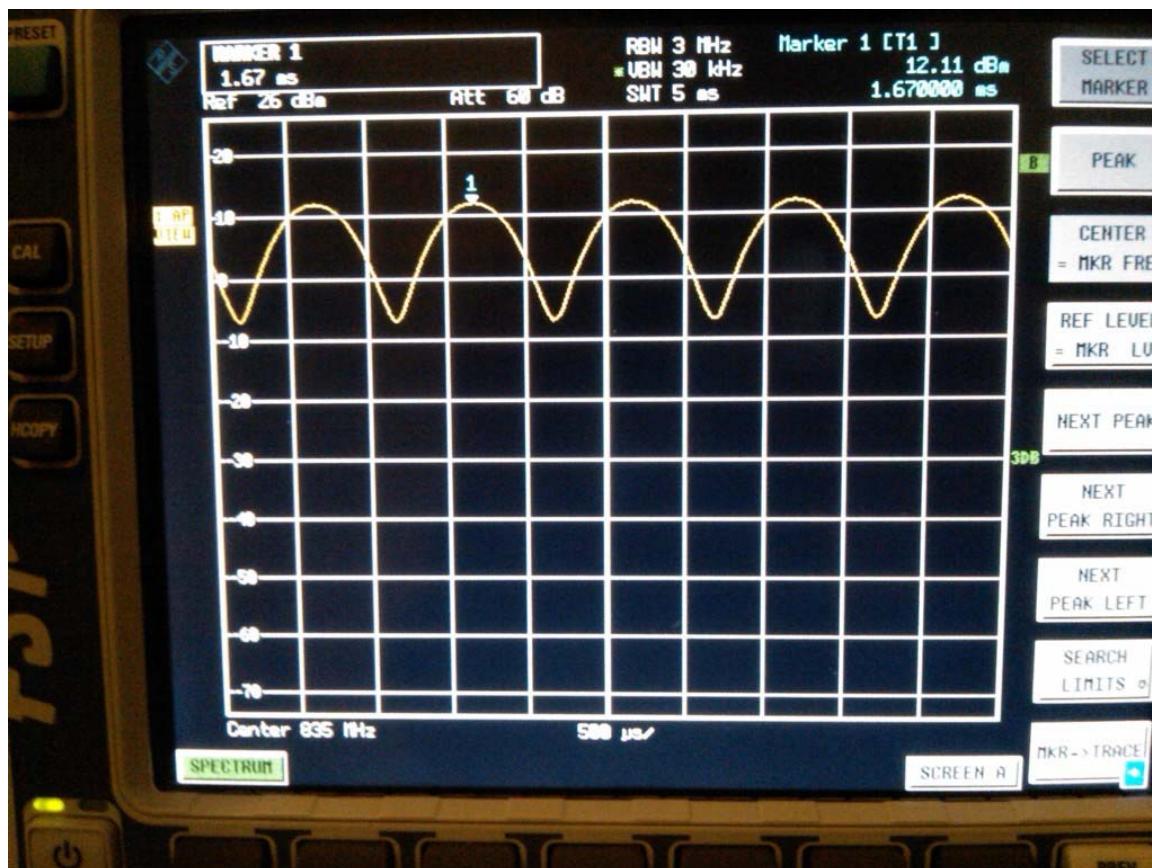
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Mar. 22-23, Apr. 28, 2011

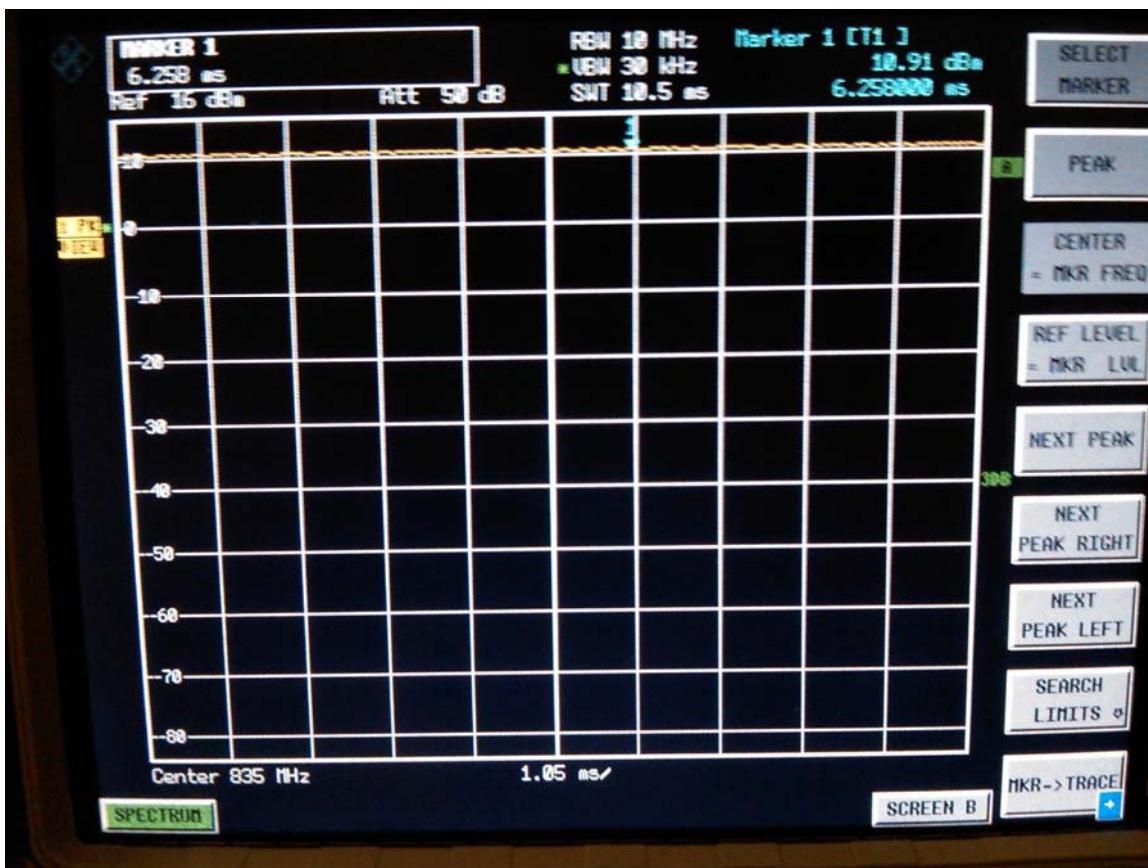
Report No

**RTS-3933-1104-55A
RTS-2580-1106-36**

FCC ID

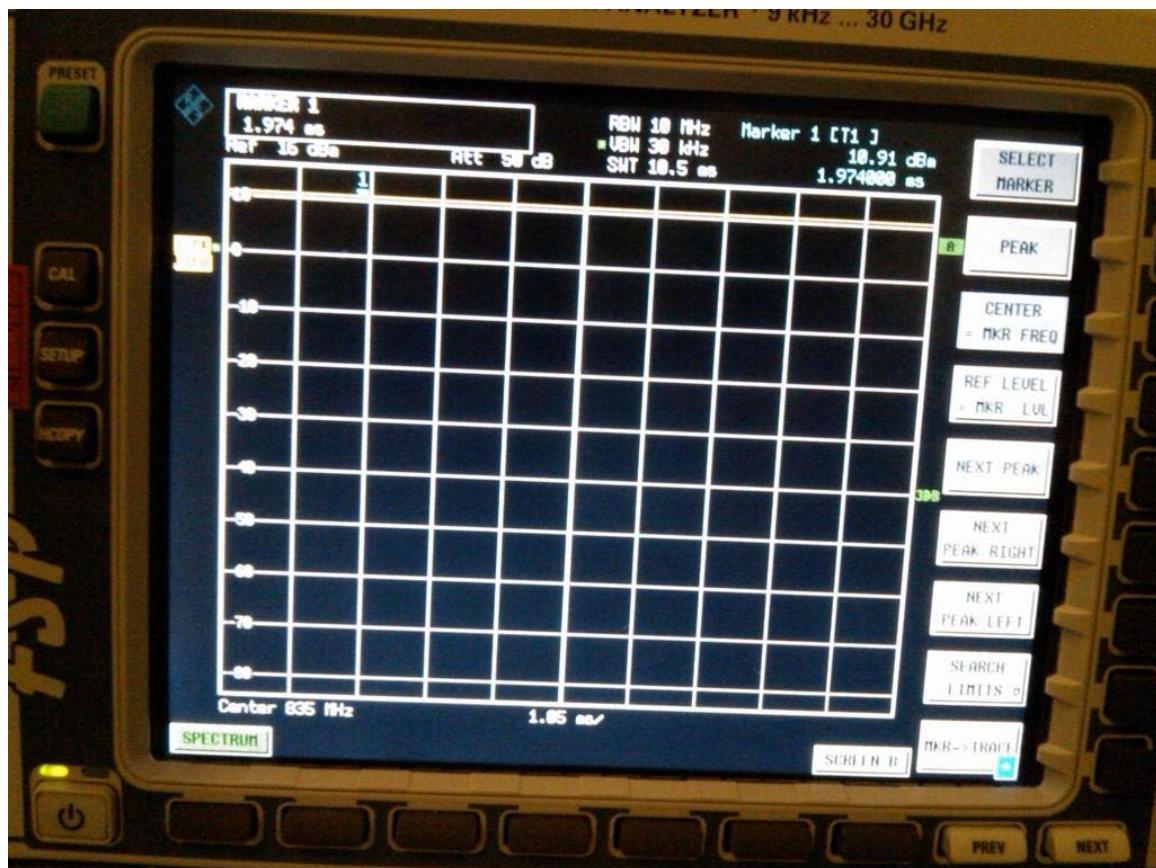
**L6ARDU70CW
L6ARDE70UW****AM 80% 835 MHz**

Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55A RTS-2580-1106-36	FCC ID L6ARDU70CW L6ARDE70UW
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UMTS 835 MHz

Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55A RTS-2580-1106-36	FCC ID L6ARDU70CW L6ARDE70UW
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CW 835 MHz



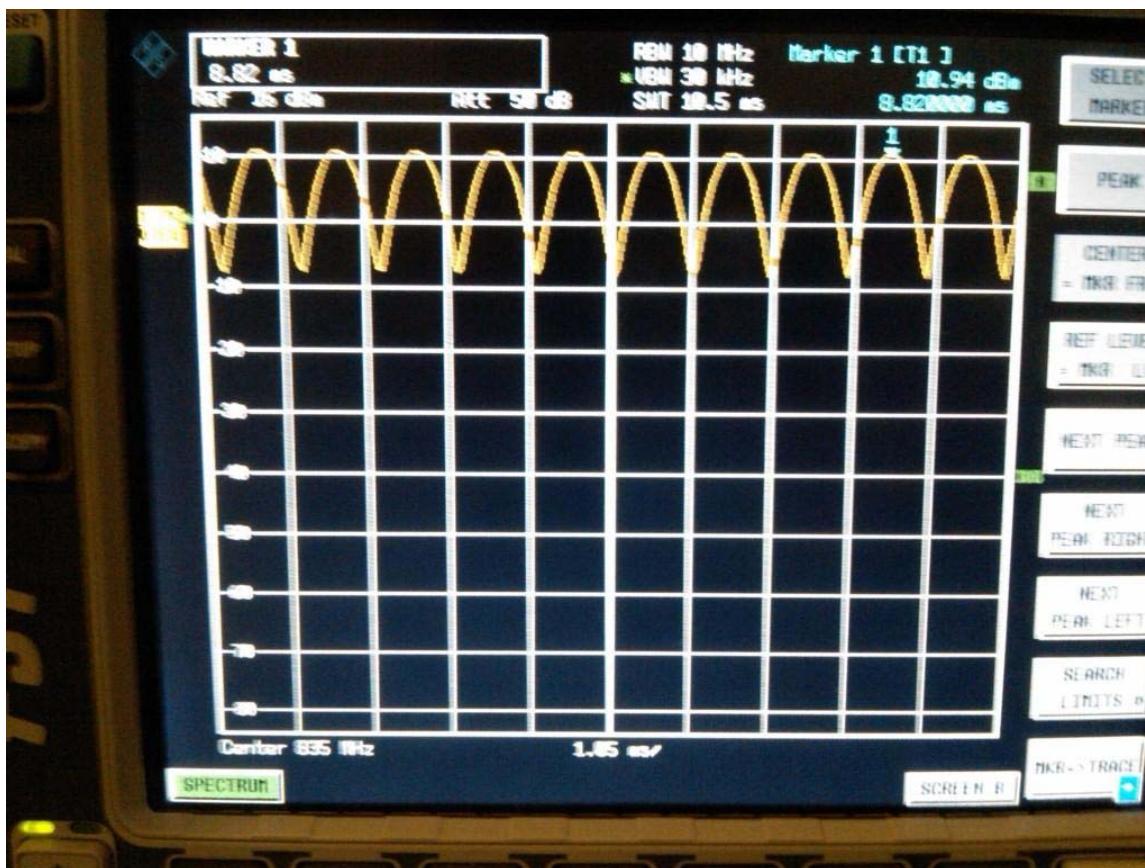
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**AM 80% 835 MHz**

Author Data

Daoud Attayi

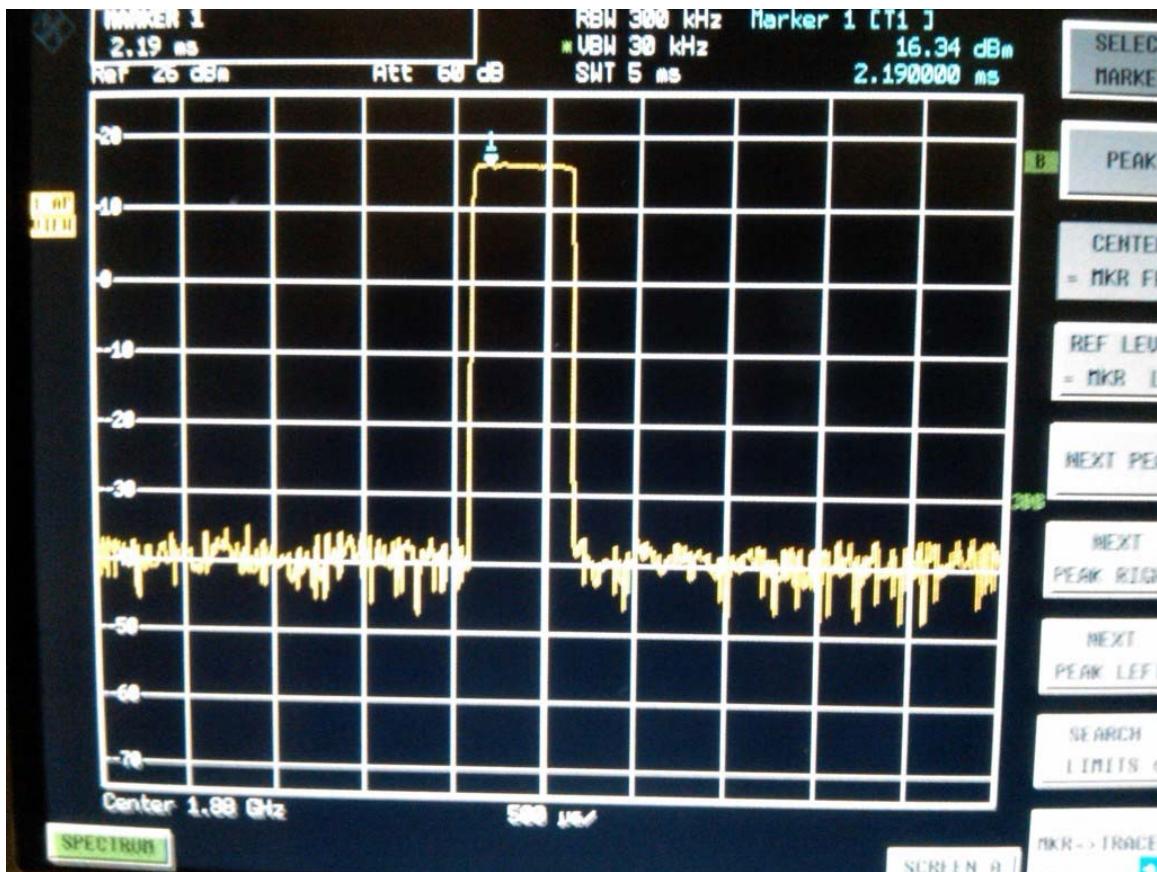
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FCC ID

**L6ARDU70CW
L6ARDE70UW****GSM 1880 MHz**



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Daoud Attayi

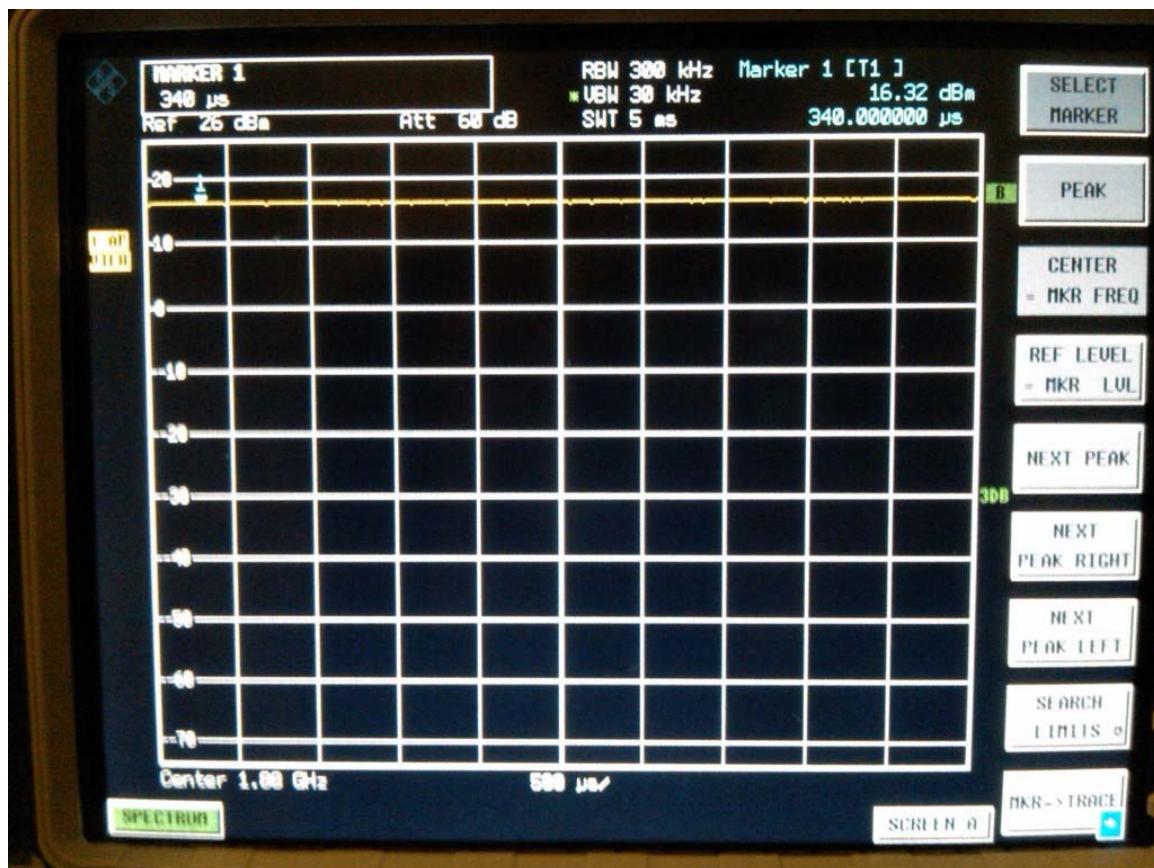
Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

**RTS-3933-1104-55A
RTS-2580-1106-36**

FCC ID

**L6ARDU70CW
L6ARDE70UW****CW 1880 MHz**

Author Data

Daoud Attayi

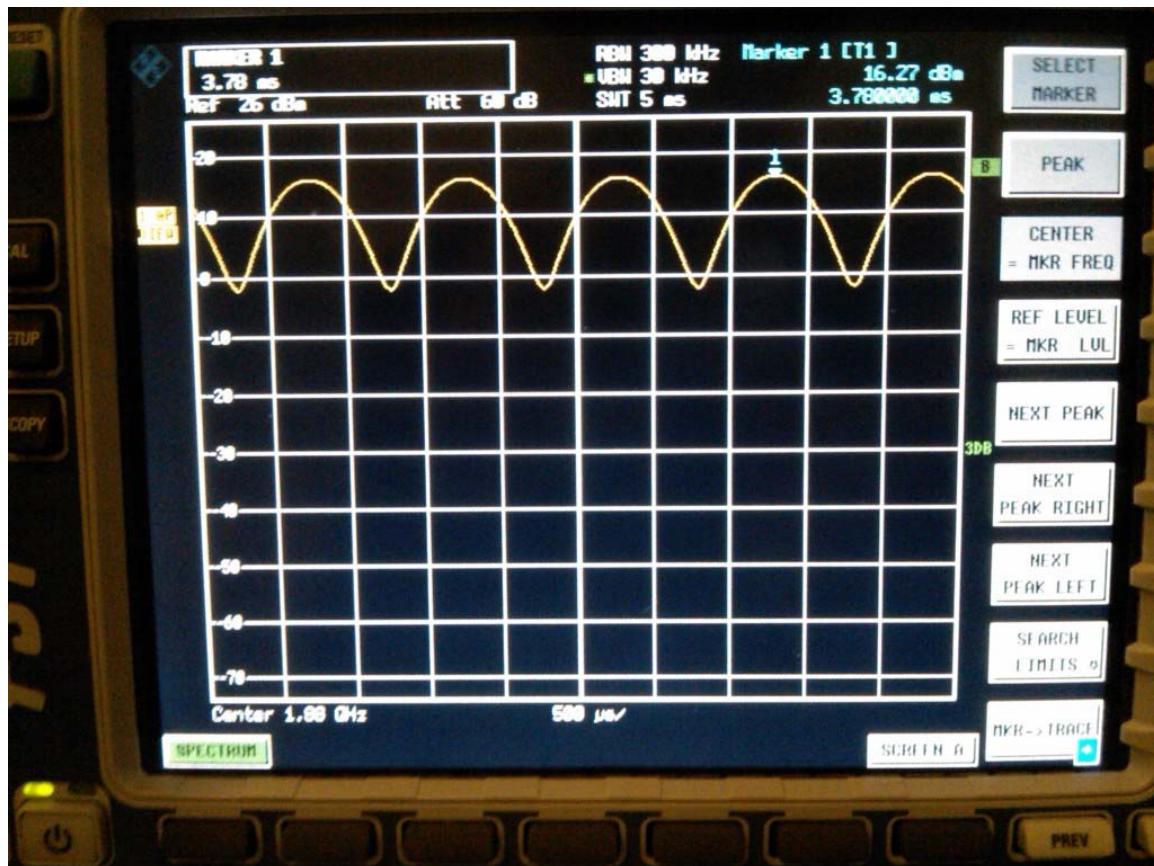
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Mar. 22-23, Apr. 28, 2011

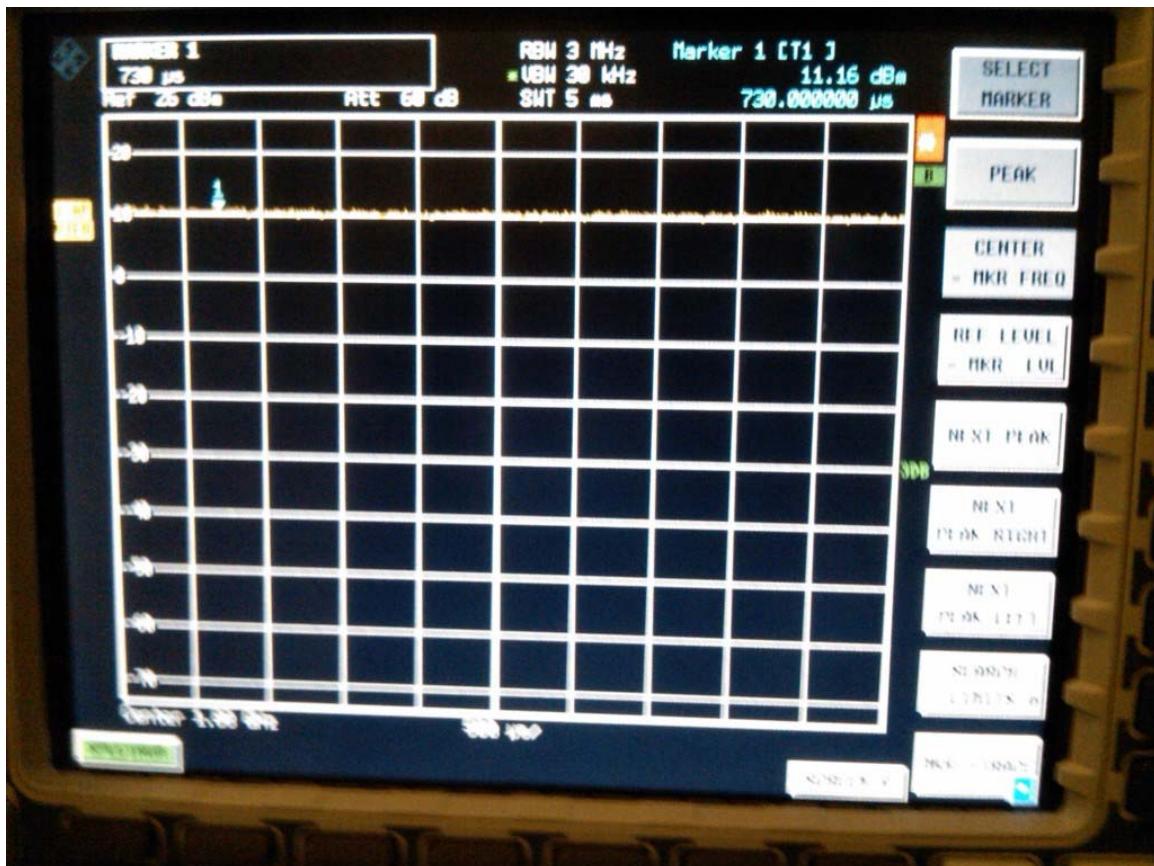
Report No

**RTS-3933-1104-55A
RTS-2580-1106-36**

FCC ID

**L6ARDU70CW
L6ARDE70UW****AM 80 % 1880 MHz**

Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55A RTS-2580-1106-36	FCC ID L6ARDU70CW L6ARDE70UW
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CDMA 1880 MHz



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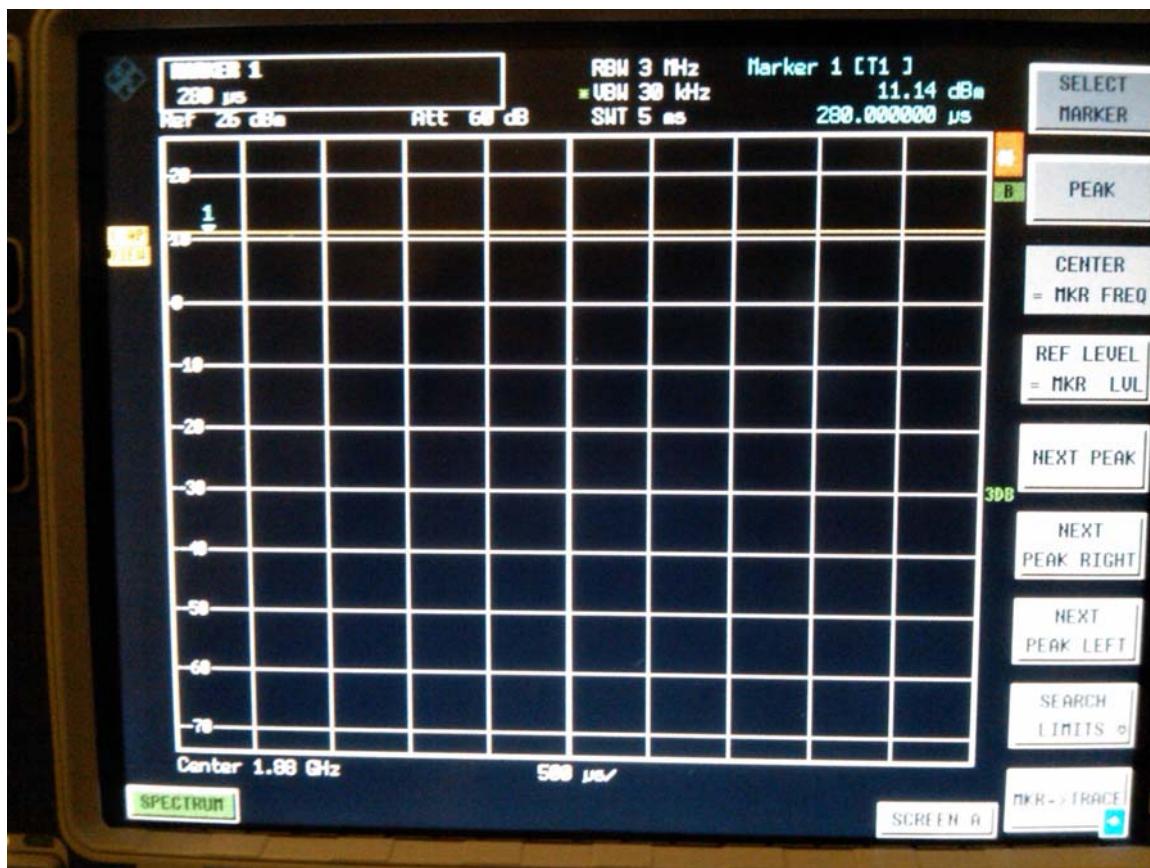
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Mar. 22-23, Apr. 28, 2011

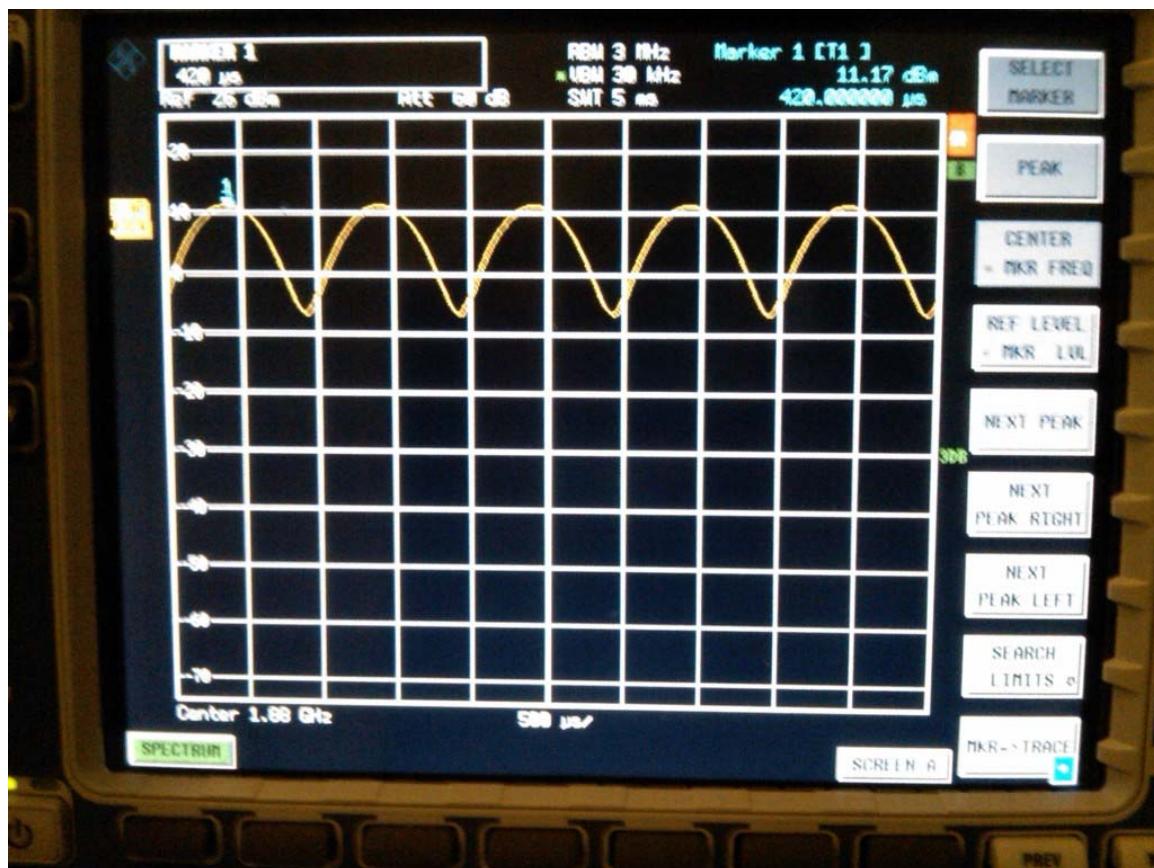
Report No

**RTS-3933-1104-55A
RTS-2580-1106-36**

FCC ID

**L6ARDU70CW
L6ARDE70UW****CW 1880 MHz**

Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55A RTS-2580-1106-36	FCC ID L6ARDU70CW L6ARDE70UW
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AM 80 % 1880 MHz



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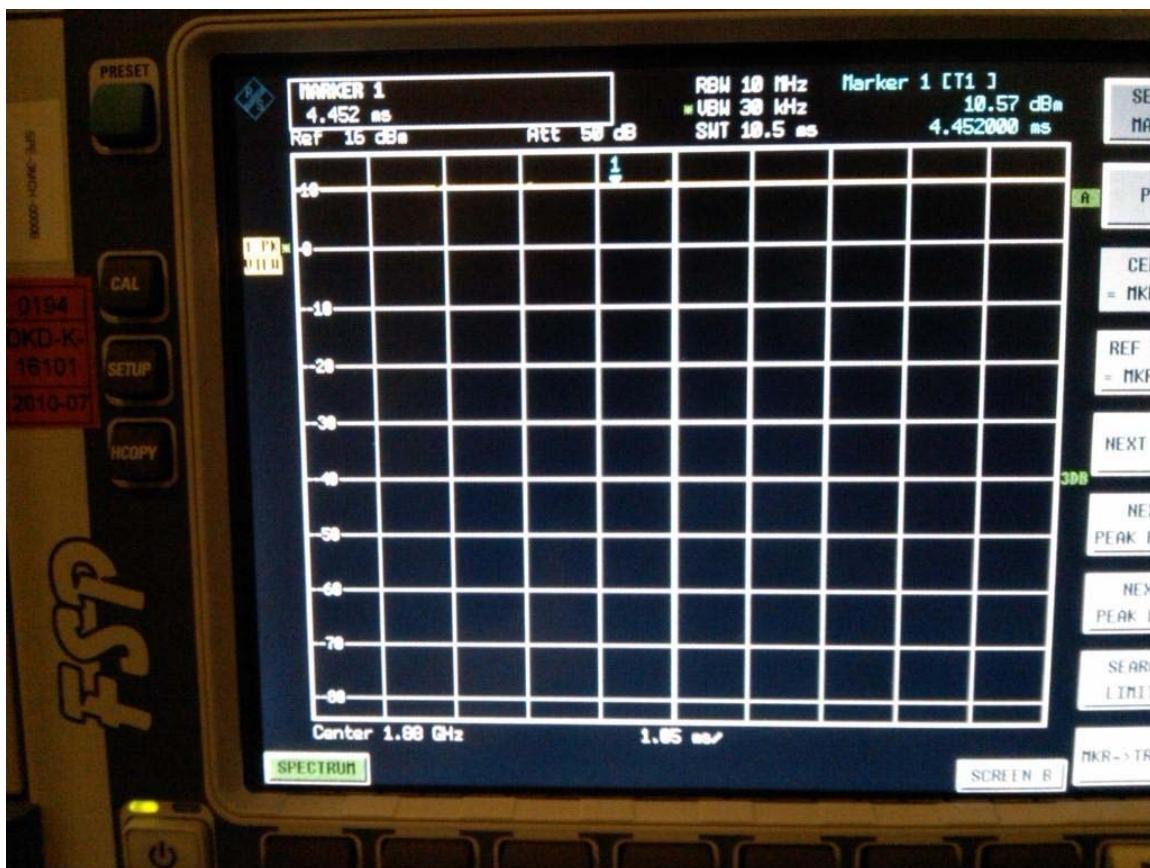
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Mar. 22-23, Apr. 28, 2011

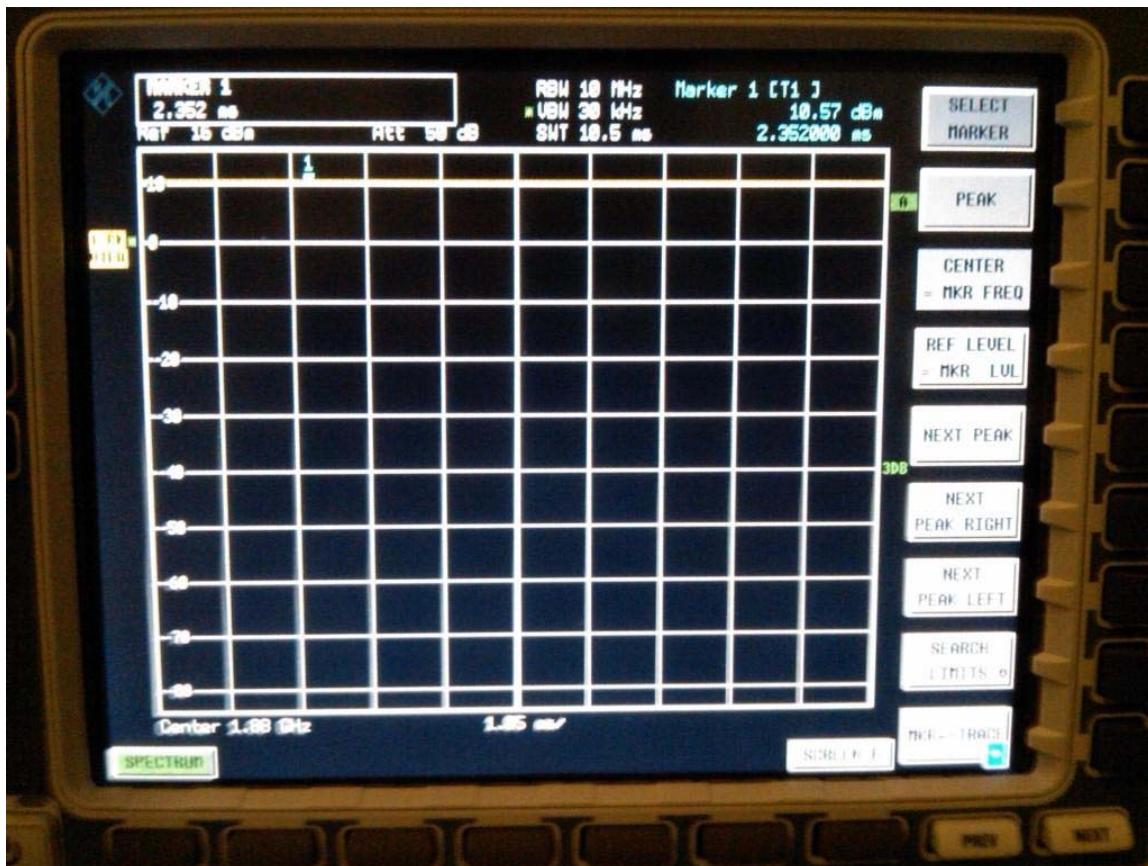
Report No

**RTS-3933-1104-55A
RTS-2580-1106-36**

FCC ID

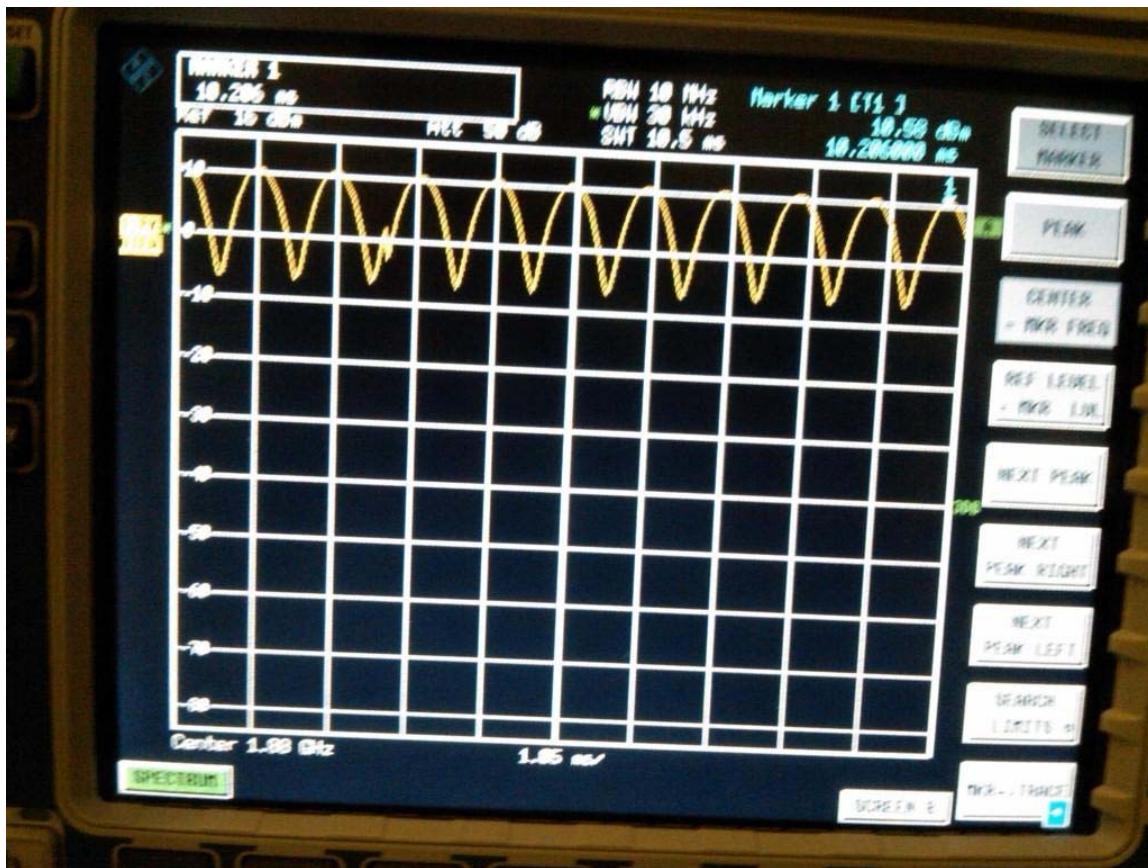
**L6ARDU70CW
L6ARDE70UW****UMTS 1880 MHz**

Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55A RTS-2580-1106-36	FCC ID L6ARDU70CW L6ARDE70UW
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CW 1880 MHz

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AM 80 % 1880 MHz

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A.2 Dipole validation and probe modulation factor plots

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Date/Time: 3/22/2011 3:37:27 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 160.2 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 119.1 V/m; Power Drift = 0.28 dB

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



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**RTS-3933-1104-55A
RTS-2580-1106-36**

FCC ID

**L6ARDU70CW
L6ARDE70UW**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
154.3 M4	160.2 M4	156.7 M4
Grid 4	Grid 5	Grid 6
85.253 M4	88.903 M4	87.202 M4
Grid 7	Grid 8	Grid 9
155.3 M4	158.9 M4	155.3 M4

Cursor:

Total = 160.2 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm

Author Data
Daoud Attayi

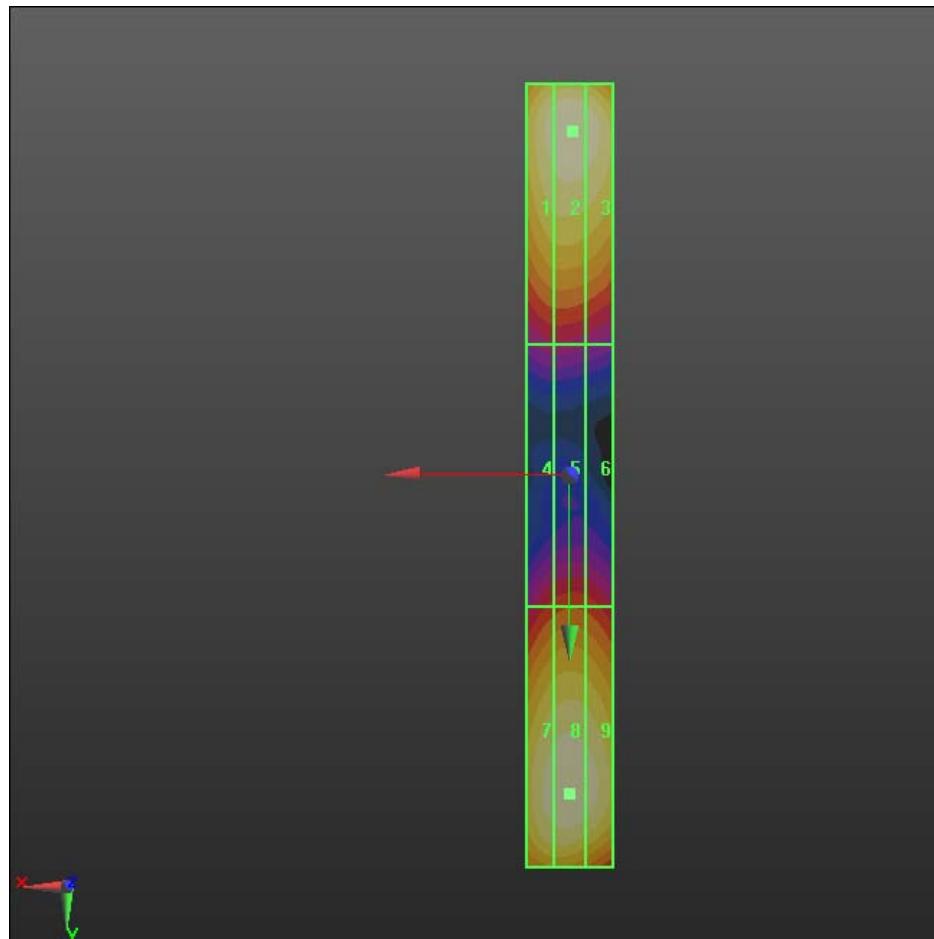
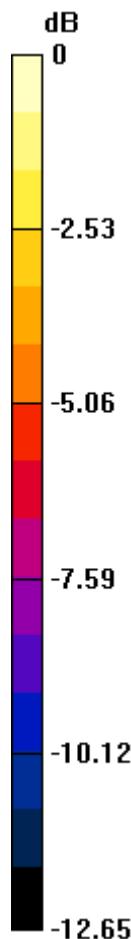
Dates of Test

Mar. 22-23, Apr. 28 , 2011

Report No

RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID

L6ARDU70CW
L6ARDE70UW

0 dB = 160.2V/m

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Date/Time: 3/22/2011 2:40:53 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_GSM_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: GSM 850;; Frequency: 835 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 54.142 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 38.642 V/m; Power Drift = -0.06 dB

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

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Peak E-field in V/m

Grid 1 51.408 M4	Grid 2 54.142 M4	Grid 3 52.509 M4
Grid 4 27.621 M4	Grid 5 27.841 M4	Grid 6 27.144 M4
Grid 7 49.045 M4	Grid 8 49.106 M4	Grid 9 47.011 M4

Cursor:

Total = 54.142 V/m

E Category: M4

Location: -0.5, -79.5, 4.7 mm

Author Data
Daoud Attayi

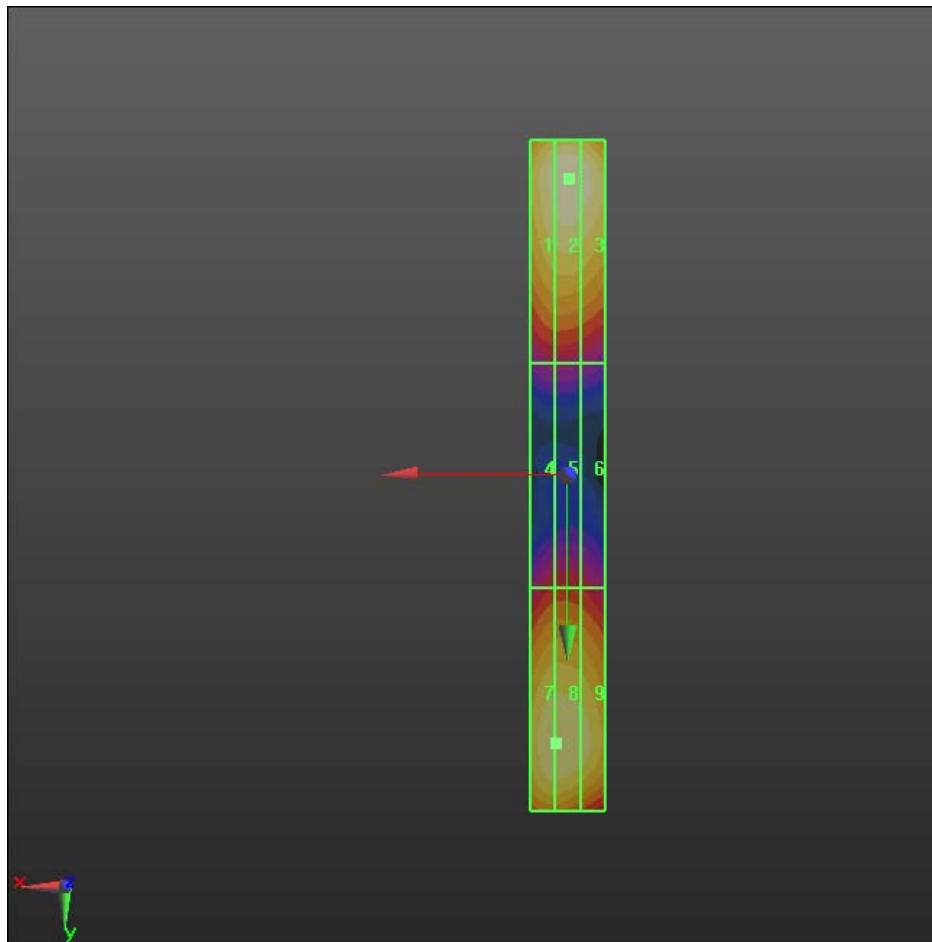
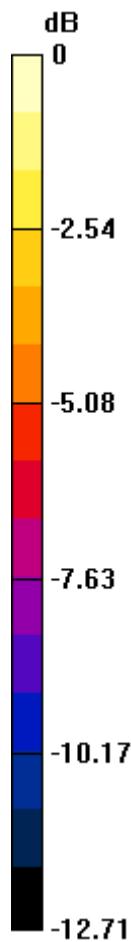
Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID

L6ARDU70CW
L6ARDE70UW

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Date/Time: 3/22/2011 3:01:22 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CW835 MHz_GSM

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe:
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 159.3 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 120.6 V/m; Power Drift = -0.10 dB

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

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Peak E-field in V/m

Grid 1 153.1 M4	Grid 2 159.3 M4	Grid 3 154.5 M4
Grid 4 8066 M4	Grid 5 86.943 M4	Grid 6 84.863 M4
Grid 7 153.2 M4	Grid 8 154.9 M4	Grid 9 151.1 M4

Cursor:

Total = 159.3 V/m

E Category: M4

Location: 0, -79, 4.7 mm

Author Data
Daoud Attayi

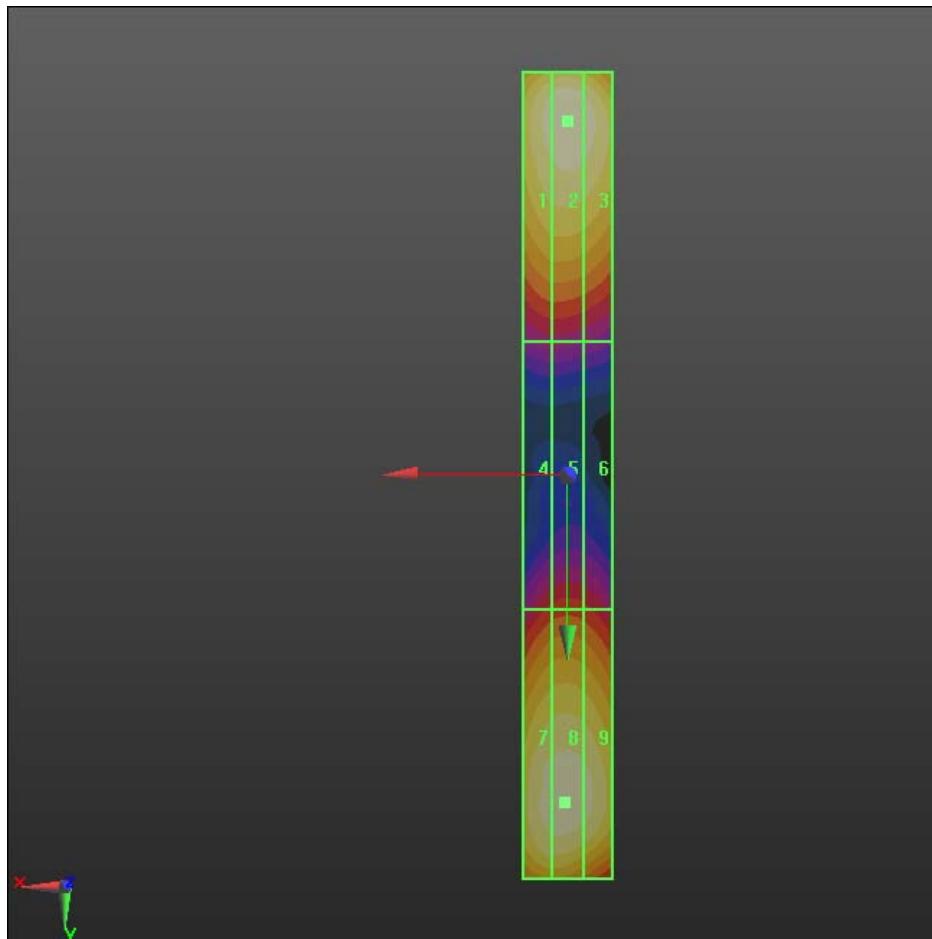
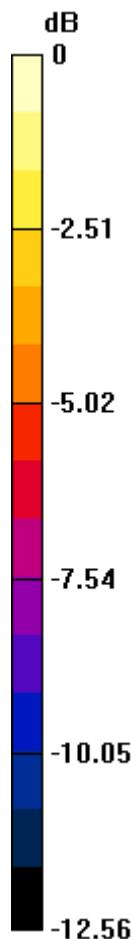
Dates of Test

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RTS-2580-1106-36

FCC ID

L6ARDU70CW
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Date/Time: 3/22/2011 3:09:37 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_AM80%835 MHz_GSM

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: AM 80%; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 99.820 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 74.981 V/m; Power Drift = -0.17 dB

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

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Peak E-field in V/m

Grid 1 96.553 M4	Grid 2 99.820 M4	Grid 3 97.313 M4
Grid 4 54.091 M4	Grid 5 55.431 M4	Grid 6 53.882 M4
Grid 7 95.955 M4	Grid 8 97.176 M4	Grid 9 95.117 M4

Cursor:

Total = 99.821 V/m

E Category: M4

Location: 0, -79, 4.7 mm

Author Data
Daoud Attayi

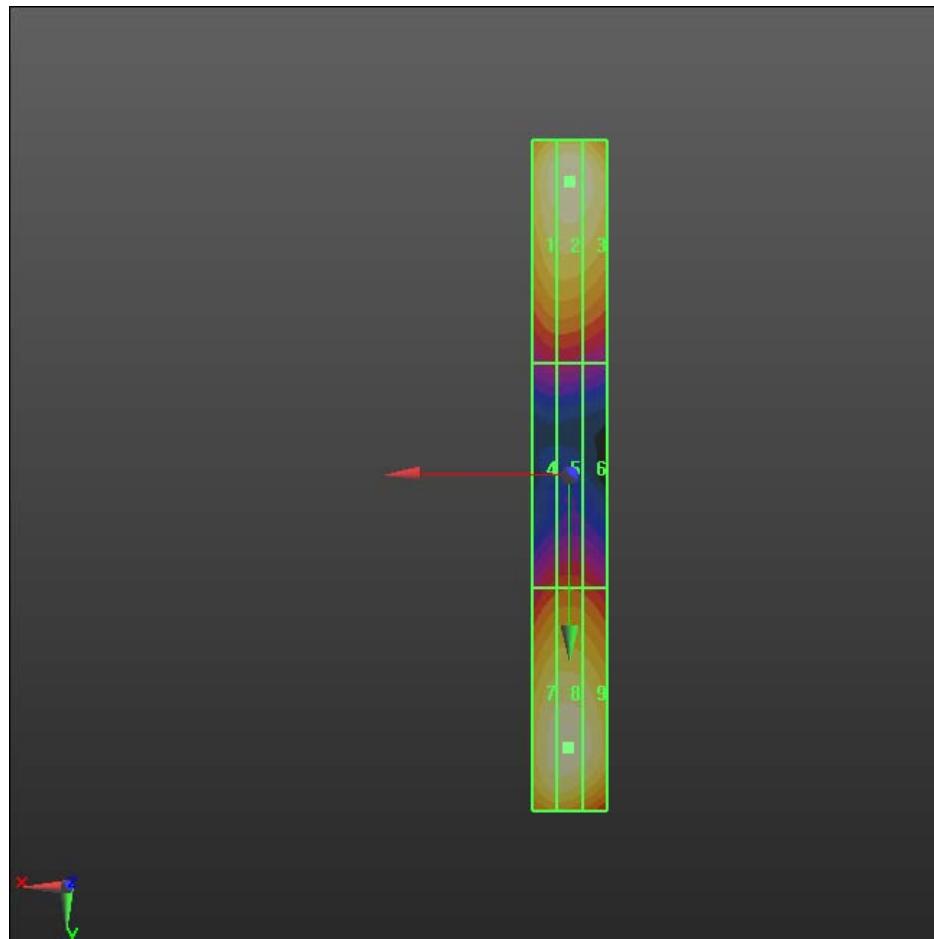
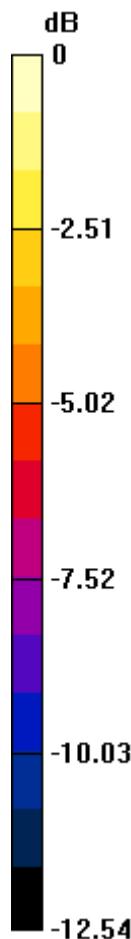
Dates of Test

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RTS-2580-1106-36

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L6ARDE70UW

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Date/Time: 3/22/2011 2:51:34 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CDMA_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CDMA 800; Frequency: 835 MHz; Communication System PAR: 0 dB
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 63.653 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 45.492 V/m; Power Drift = 0.04 dB

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

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Peak E-field in V/m

Grid 1 60.457 M4	Grid 2 63.653 M4	Grid 3 62.702 M4
Grid 4 32.119 M4	Grid 5 32.806 M4	Grid 6 32.009 M4
Grid 7 57.694 M4	Grid 8 58.081 M4	Grid 9 56.094 M4

Cursor:

Total = 63.653 V/m

E Category: M4

Location: -1, -79, 4.7 mm

Author Data
Daoud Attayi

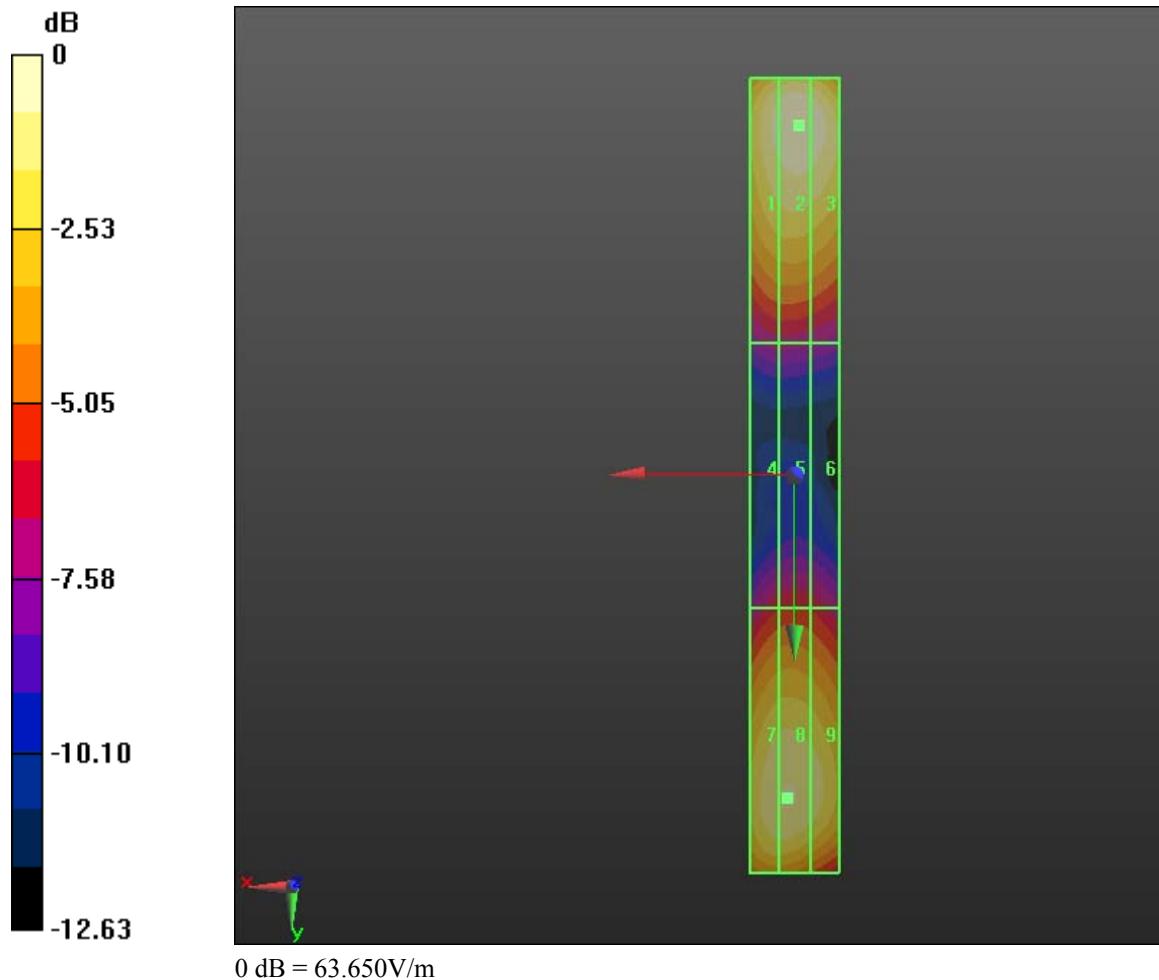
Dates of Test

Mar. 22-23, Apr. 28 , 2011

Report No

**RTS-3933-1104-55A
RTS-2580-1106-36**

FCC ID

**L6ARDU70CW
L6ARDE70UW**

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Date/Time: 3/22/2011 3:23:33 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CW835 MHz_CDMA

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 62.994 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 48.064 V/m; Power Drift = 0.07 dB

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

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Peak E-field in V/m

Grid 1 60.423 M4	Grid 2 62.994 M4	Grid 3 61.497 M4
Grid 4 33.852 M4	Grid 5 34.972 M4	Grid 6 34.054 M4
Grid 7 60.979 M4	Grid 8 62.079 M4	Grid 9 60.453 M4

Cursor:

Total = 62.994 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm

Author Data

Daoud Attayi

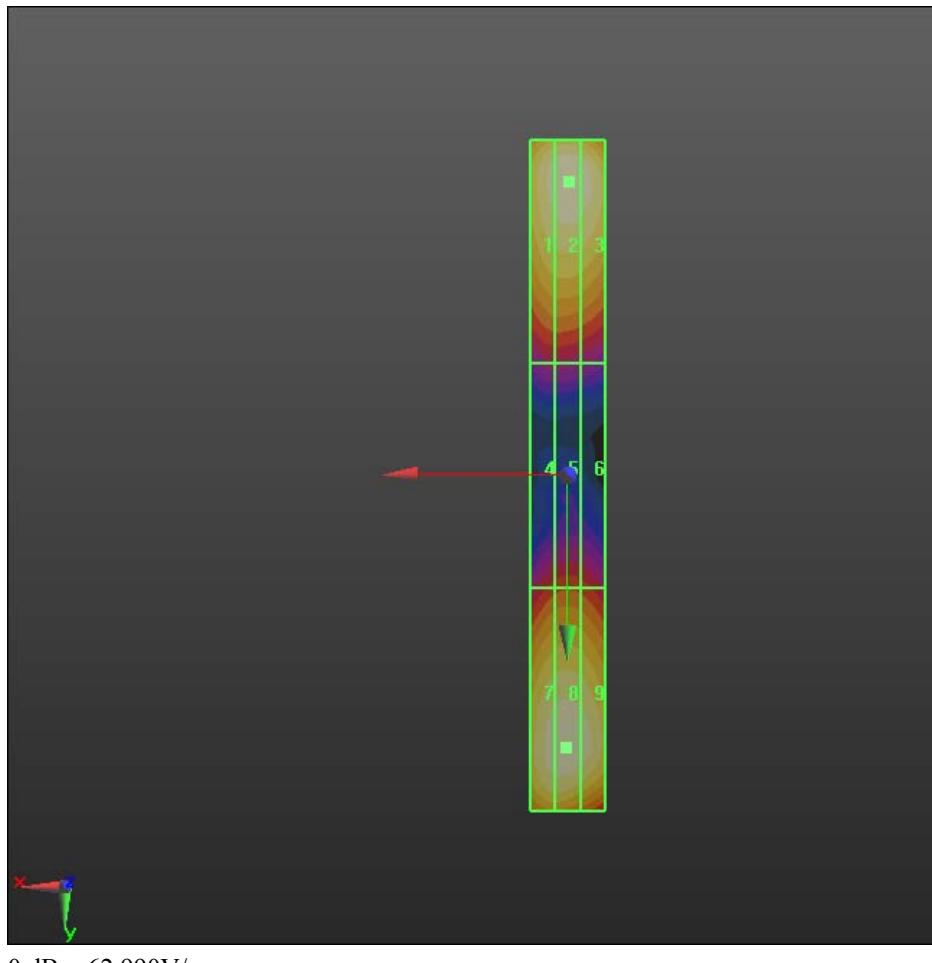
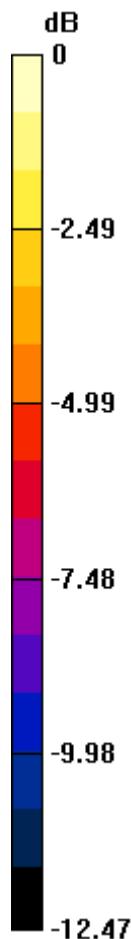
Dates of Test

Mar. 22-23, Apr. 28 , 2011

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**RTS-3933-1104-55A
RTS-2580-1106-36**

FCC ID

**L6ARDU70CW
L6ARDE70UW**

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Date/Time: 3/22/2011 3:31:14 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_AM80%835 MHz_CDMA

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: AM 80%; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 40.248 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 30.394 V/m; Power Drift = 0.02 dB

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



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Peak E-field in V/m

Grid 1	Grid 2	Grid 3
38.736 M4	40.248 M4	39.607 M4
Grid 4	Grid 5	Grid 6
21.813 M4	22.486 M4	21.734 M4
Grid 7	Grid 8	Grid 9
38.792 M4	39.696 M4	38.886 M4

Cursor:

Total = 40.248 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm

Author Data
Daoud Attayi

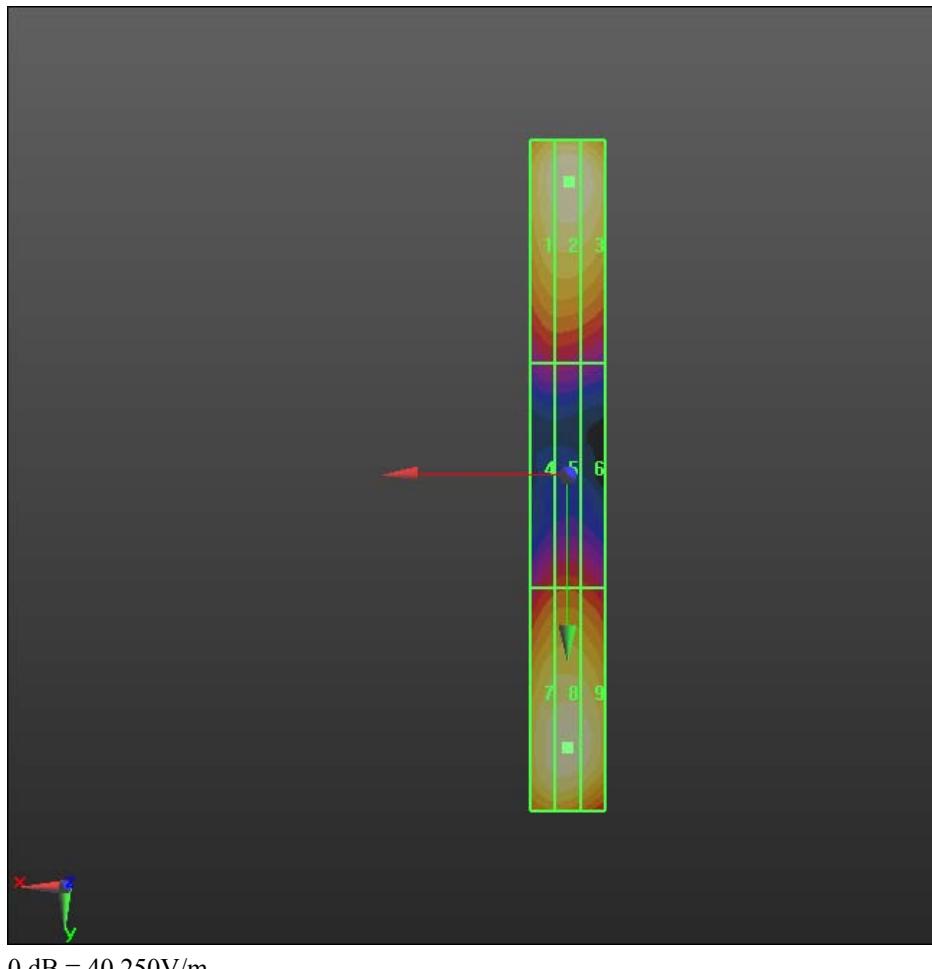
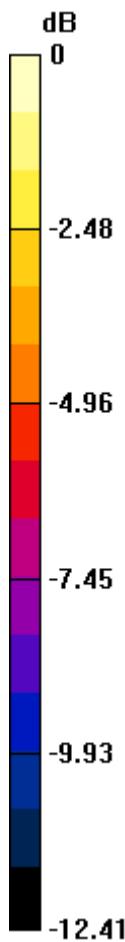
Dates of Test

Mar. 22-23, Apr. 28, 2011

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RTS-2580-1106-36**

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Date/Time: 3/22/2011 4:50:23 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 133.2 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 124.8 V/m; Power Drift = -0.0086 dB

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

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Peak E-field in V/m

Grid 1	Grid 2	Grid 3
130.6 M2	133.2 M2	126.2 M2
Grid 4 83.013 M3	Grid 5 87.500 M3	Grid 6 86.528 M3
Grid 7 121.2 M2	Grid 8 124.7 M2	Grid 9 122.2 M2

Cursor:

Total = 133.2 V/m

E Category: M2

Location: 0.5, -38.5, 4.7 mm

Author Data
Daoud Attayi

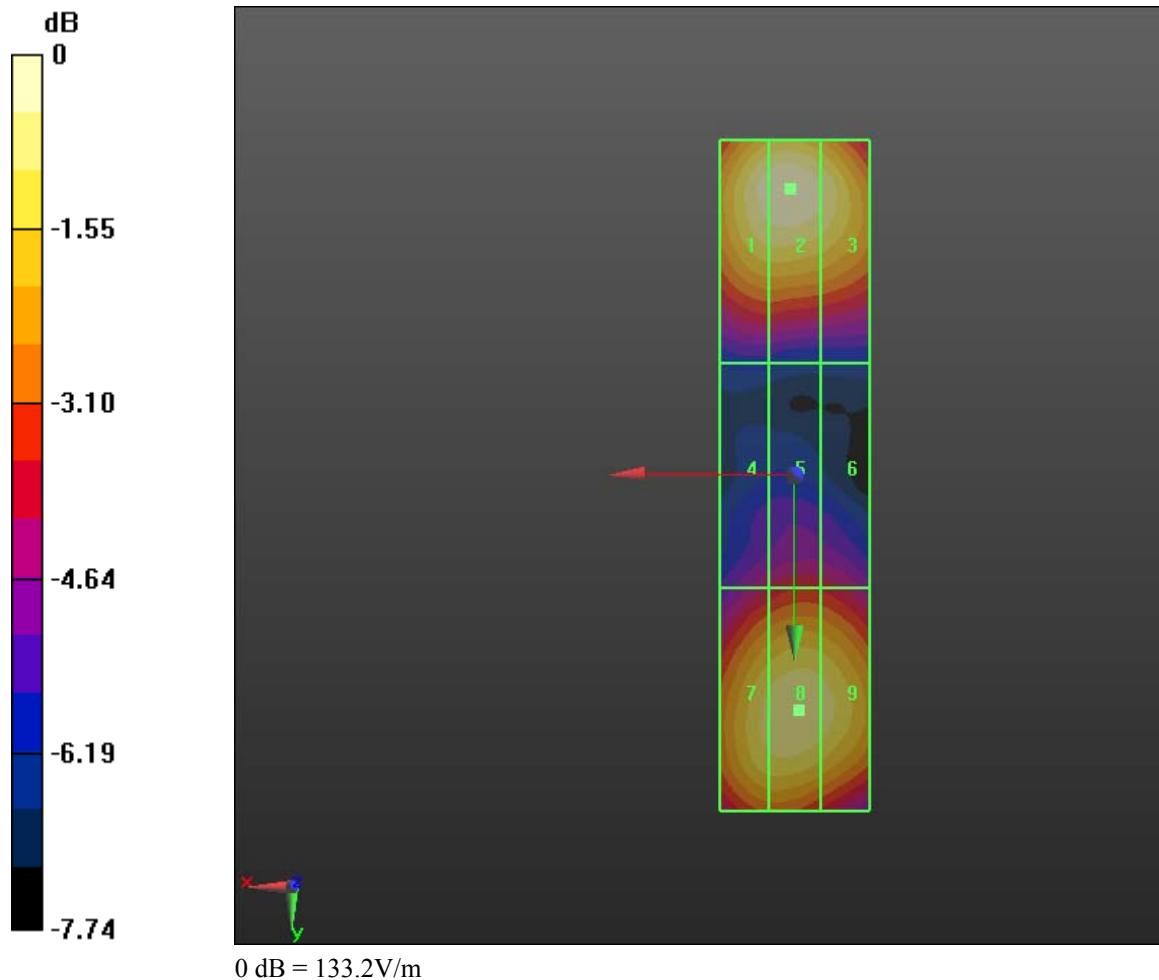
Dates of Test

Mar. 22-23, Apr. 28, 2011

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RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

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Date/Time: 3/22/2011 4:54:49 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_GSM_1880 MHz_R2

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: GSM 1900; Frequency: 1880 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 27.663 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.374 V/m; Power Drift = 0.02 dB

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



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L6ARDE70UW**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
27.050 M4	27.663 M4	26.052 M4
Grid 4	Grid 5	Grid 6
17.031 M4	18.013 M4	17.833 M4
Grid 7	Grid 8	Grid 9
2036 M4	25.539 M4	25.116 M4

Cursor:

Total = 27.663 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm

Author Data
Daoud Attayi

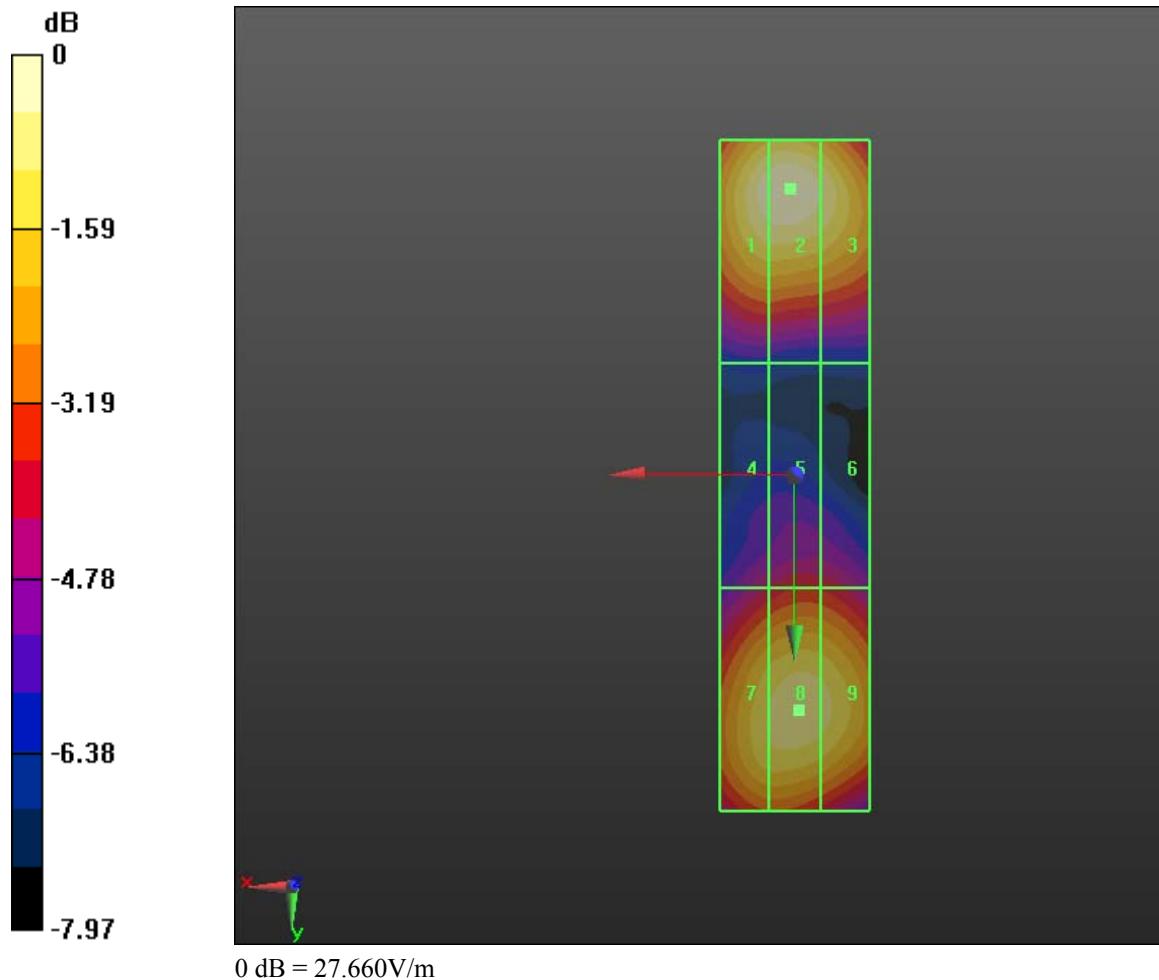
Dates of Test

Mar. 22-23, Apr. 28, 2011

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RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

L6ARDU70CW**L6ARDE70UW**

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Date/Time: 3/23/2011 12:08:40 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CW1880 MHz_GSM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 82.216 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 78.932 V/m; Power Drift = 0.0039 dB

Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Author Data
Daoud Attayi

Dates of Test
Mar. 22-23, Apr. 28, 2011

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RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID
L6ARDU70CW
L6ARDE70UW

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
79.692 M3	82.216 M3	79.228 M3
Grid 4	Grid 5	Grid 6
52.849 M4	55.292 M4	54.232 M4

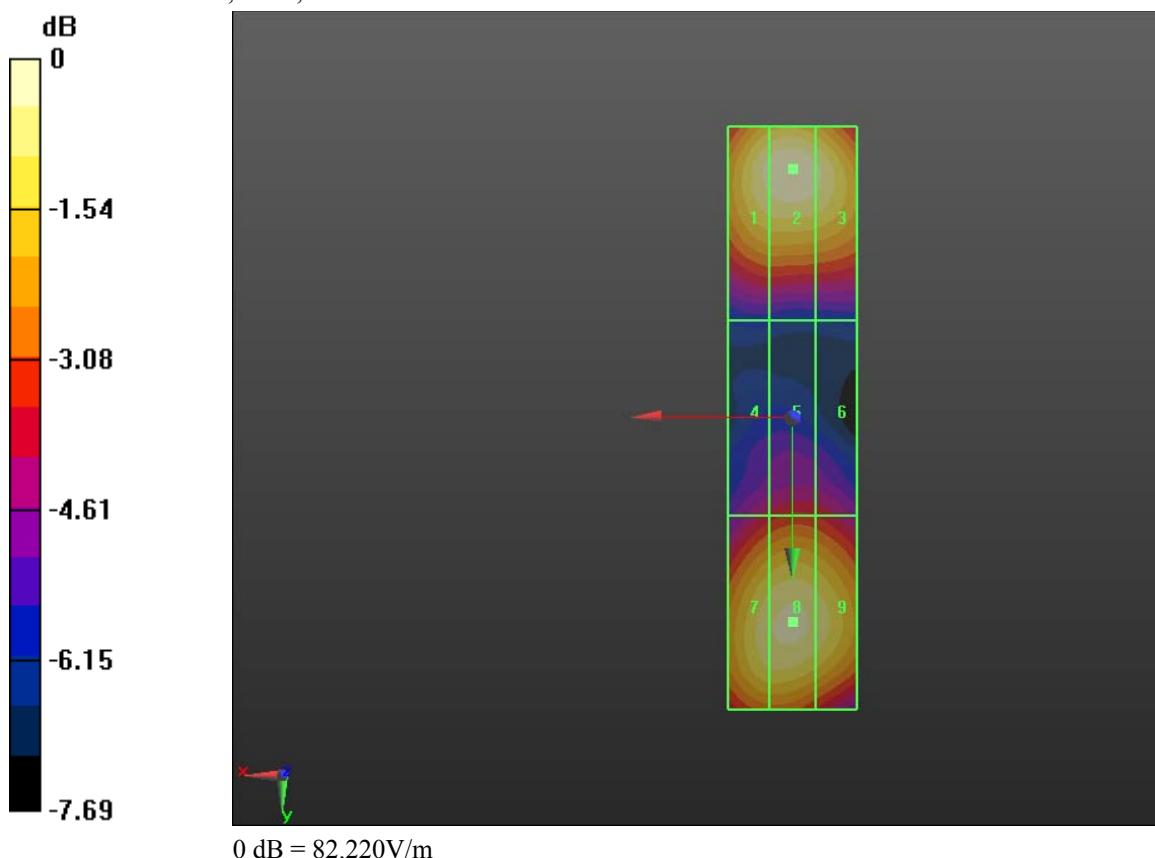
Grid 7	Grid 8	Grid 9
76.960 M3	78.815 M3	76.489 M3

Cursor:

Total = 82.216 V/m

E Category: M3

Location: 0, -38.5, 4.7 mm



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Date/Time: 3/22/2011 4:12:07 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_AM80%1880 MHz_GSM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: AM 80%; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 53.337 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 49.939 V/m; Power Drift = -0.09 dB

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

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Peak E-field in V/m

Grid 1 52.377 M4	Grid 2 53.337 M4	Grid 3 50.671 M4
Grid 4 3062 M4	Grid 5 35.058 M4	Grid 6 3043 M4
Grid 7 48.429 M4	Grid 8 49.374 M4	Grid 9 48.243 M4

Cursor:

Total = 53.337 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm

Author Data
Daoud Attayi

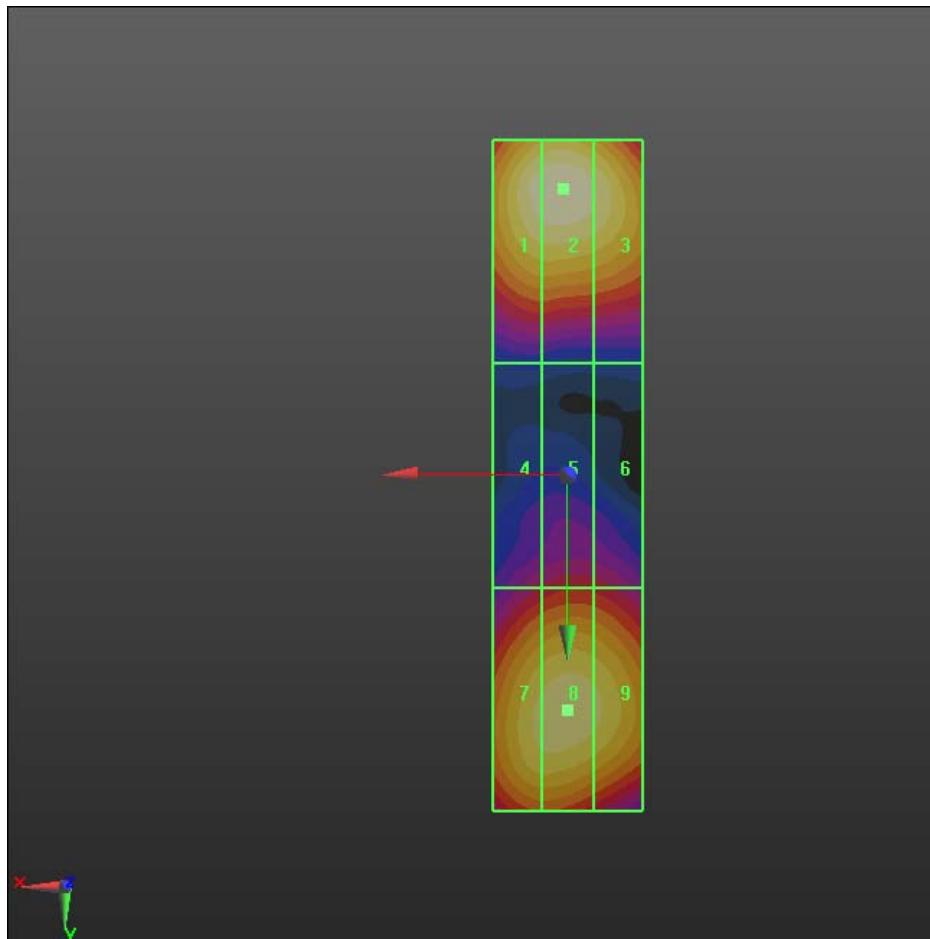
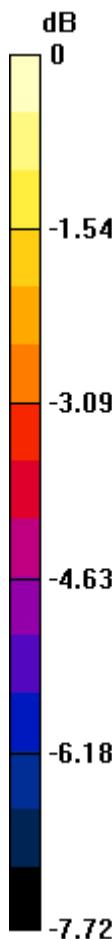
Dates of Test

Mar. 22-23, Apr. 28, 2011

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RTS-2580-1106-36

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L6ARDU70CW
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Date/Time: 3/22/2011 3:54:49 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CDMA_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 43.150 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 40.108 V/m; Power Drift = -0.01 dB

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

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Peak E-field in V/m

Grid 1 41.912 M4	Grid 2 43.150 M4	Grid 3 40.971 M4
Grid 4 26.905 M4	Grid 5 28.223 M4	Grid 6 27.711 M4
Grid 7 39.111 M4	Grid 8 40.205 M4	Grid 9 39.292 M4

Cursor:

Total = 43.150 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm

Author Data
Daoud Attayi

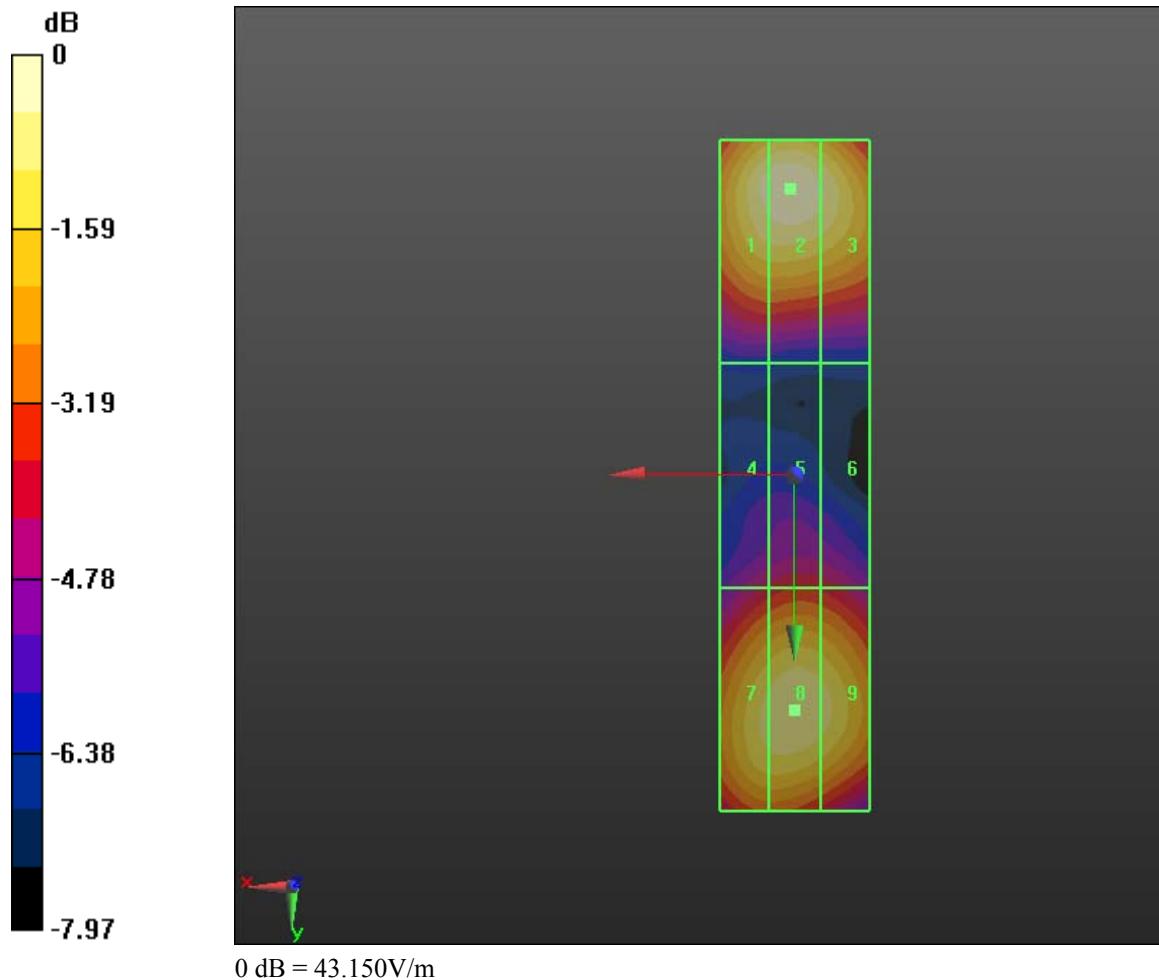
Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

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FCC ID

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Date/Time: 3/23/2011 12:23:00 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CW1880 MHz_CDMA_

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 45.598 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 43.399 V/m; Power Drift = 0.03 dB

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

Author Data
Daoud Attayi

Dates of Test

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FCC ID

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Peak E-field in V/m

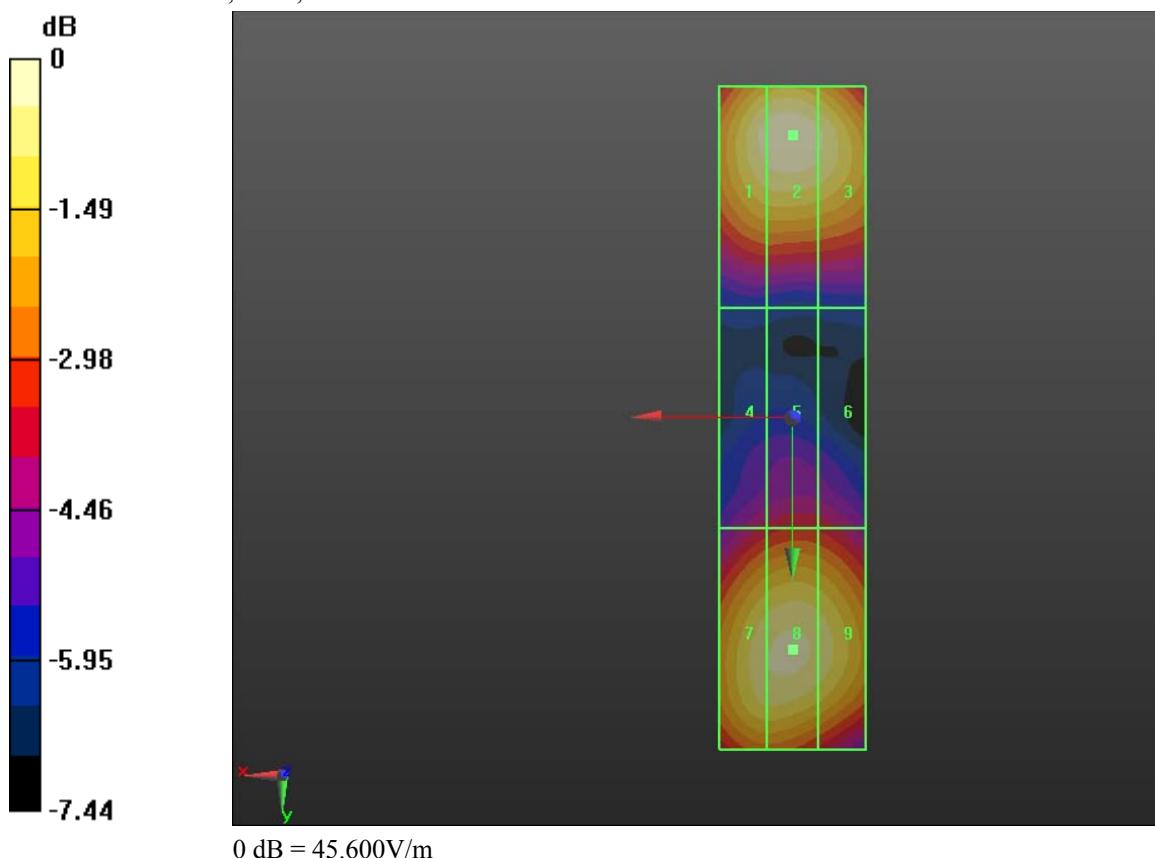
Grid 1	Grid 2	Grid 3
44.340 M4	45.598 M4	43.792 M4
Grid 4	Grid 5	Grid 6
29.598 M4	30.871 M4	30.339 M4
Grid 7	Grid 8	Grid 9
42.981 M4	43.734 M4	42.515 M4

Cursor:

Total = 45.598 V/m

E Category: M4

Location: 0, -38.5, 4.7 mm



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Date/Time: 3/22/2011 4:34:04 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_AM80%1880 MHz_CDMA

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: AM 80%; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 30.486 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 28.158 V/m; Power Drift = 0.06 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID

L6ARDU70CW
L6ARDE70UW

Peak E-field in V/m

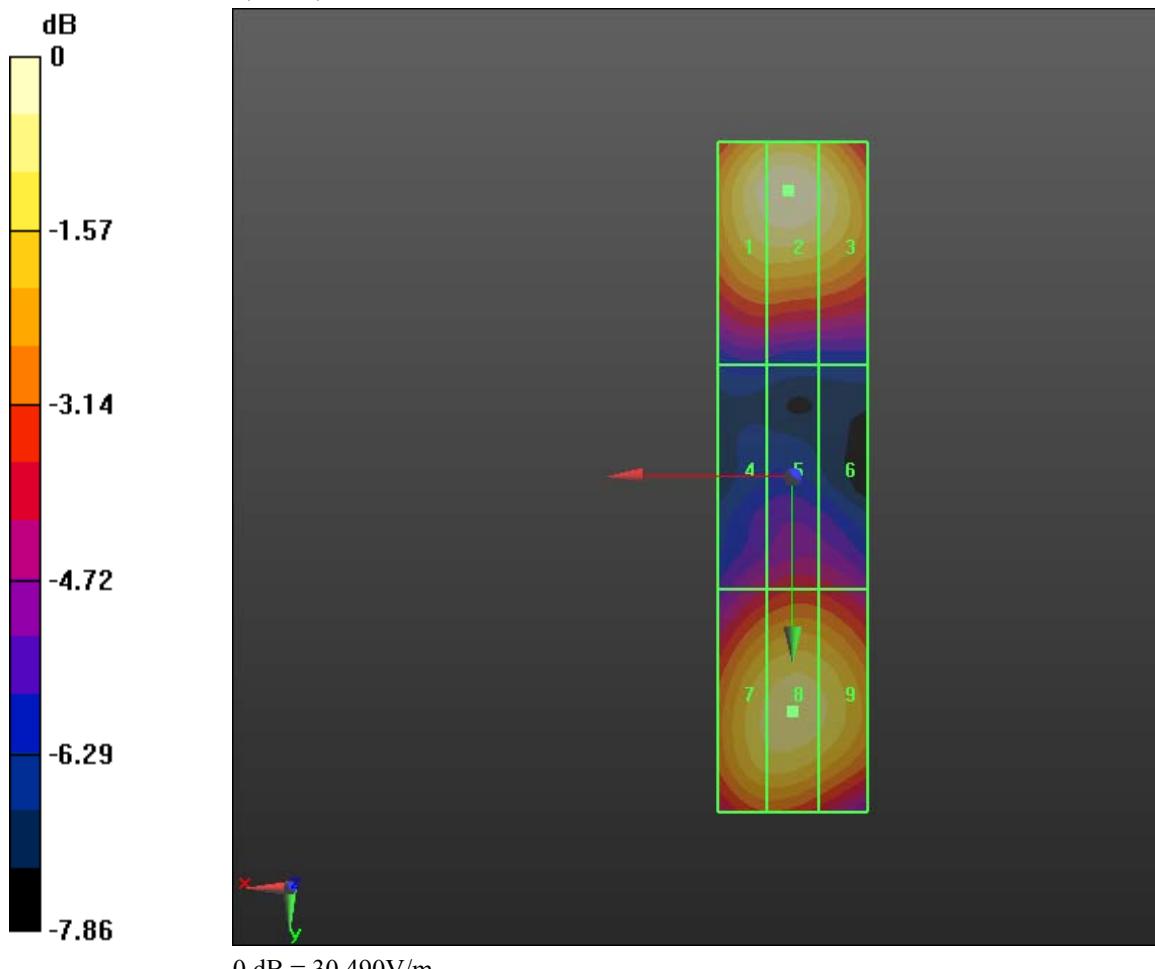
Grid 1	Grid 2	Grid 3
29.713 M4	30.486 M4	29.090 M4
Grid 4	Grid 5	Grid 6
18.962 M4	19.986 M4	19.699 M4
Grid 7	Grid 8	Grid 9
27.492 M4	28.197 M4	27.513 M4

Cursor:

Total = 30.486 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm



 RIM Testing Services	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDU71CW/RDE71UW	Page
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Date/Time: 3/23/2011 3:19:30 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.475 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.514 A/m; Power Drift = -0.08 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak H-field in A/m

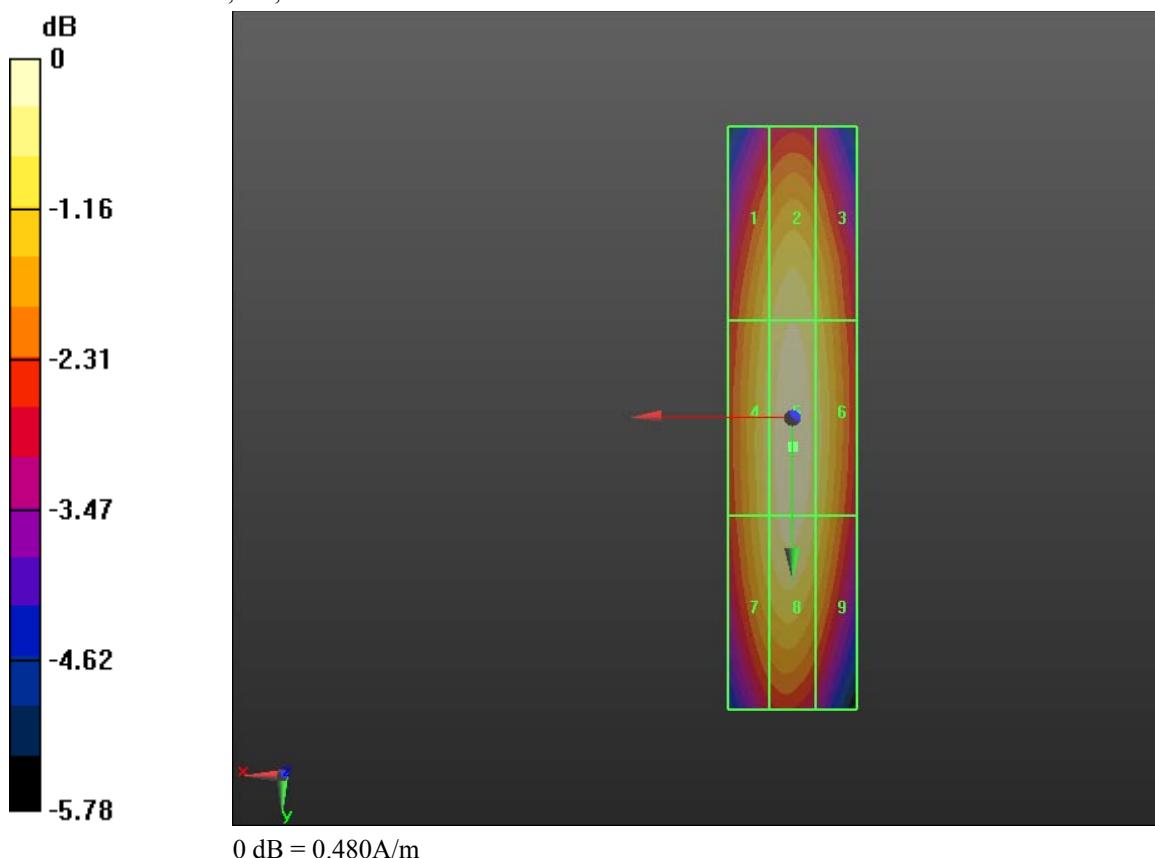
Grid 1	Grid 2	Grid 3
0.437 M4	0.459 M4	0.437 M4
Grid 4	Grid 5	Grid 6
0.453 M4	0.475 M4	0.453 M4
Grid 7	Grid 8	Grid 9
0.447 M4	0.469 M4	0.442 M4

Cursor:

Total = 0.475 A/m

H Category: M4

Location: 0, 4.5, 4.7 mm



 RIM Testing Services	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDU71CW/RDE71UW	Page
			61 (187)
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Date/Time: 3/23/2011 3:06:50 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_GSM_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: GSM 850; Frequency: 835 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.168 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.173 A/m; Power Drift = 0.43 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID

L6ARDU70CW
L6ARDE70UW

Peak H-field in A/m

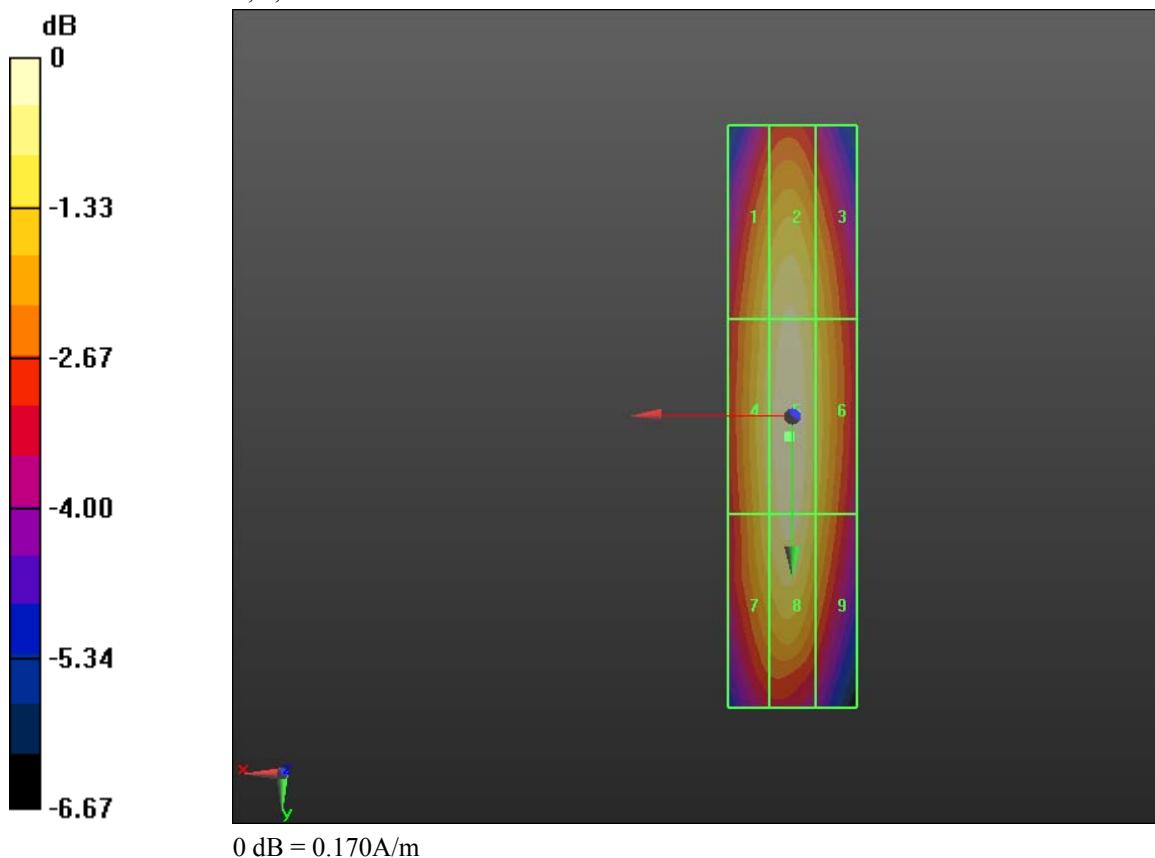
Grid 1	Grid 2	Grid 3
0.154 M4	0.163 M4	0.148 M4
Grid 4	Grid 5	Grid 6
0.159 M4	0.168 M4	0.153 M4
Grid 7	Grid 8	Grid 9
0.155 M4	0.165 M4	0.148 M4

Cursor:

Total = 0.168 A/m

H Category: M4

Location: 0.5, 3, 4.7 mm



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Date/Time: 3/23/2011 3:23:34 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CW835 MHz_GSM

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.482 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.503 A/m; Power Drift = -0.00099 dB

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

Author Data
Daoud Attayi

Dates of Test
Mar. 22-23, Apr. 28, 2011

Report No
RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID
L6ARDU70CW
L6ARDE70UW

Peak H-field in A/m

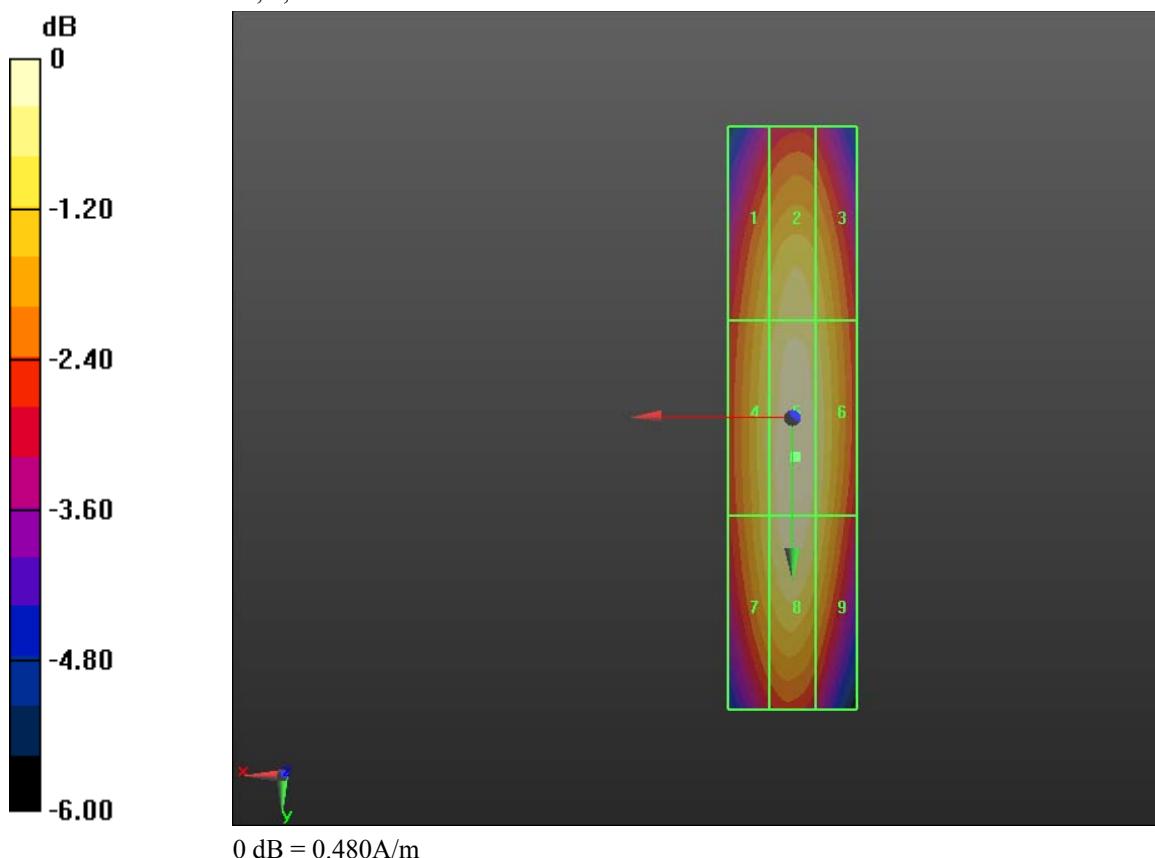
Grid 1	Grid 2	Grid 3
0.429 M4	0.450 M4	0.439 M4
Grid 4	Grid 5	Grid 6
0.449 M4	0.482 M4	0.458 M4
Grid 7	Grid 8	Grid 9
0.441 M4	0.475 M4	0.448 M4

Cursor:

Total = 0.482 A/m

H Category: M4

Location: -0.5, 6, 4.7 mm



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Date/Time: 3/23/2011 3:34:08 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_AM80%835 MHz_GSM

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: AM 80%; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.302 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.326 A/m; Power Drift = -0.16 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak H-field in A/m

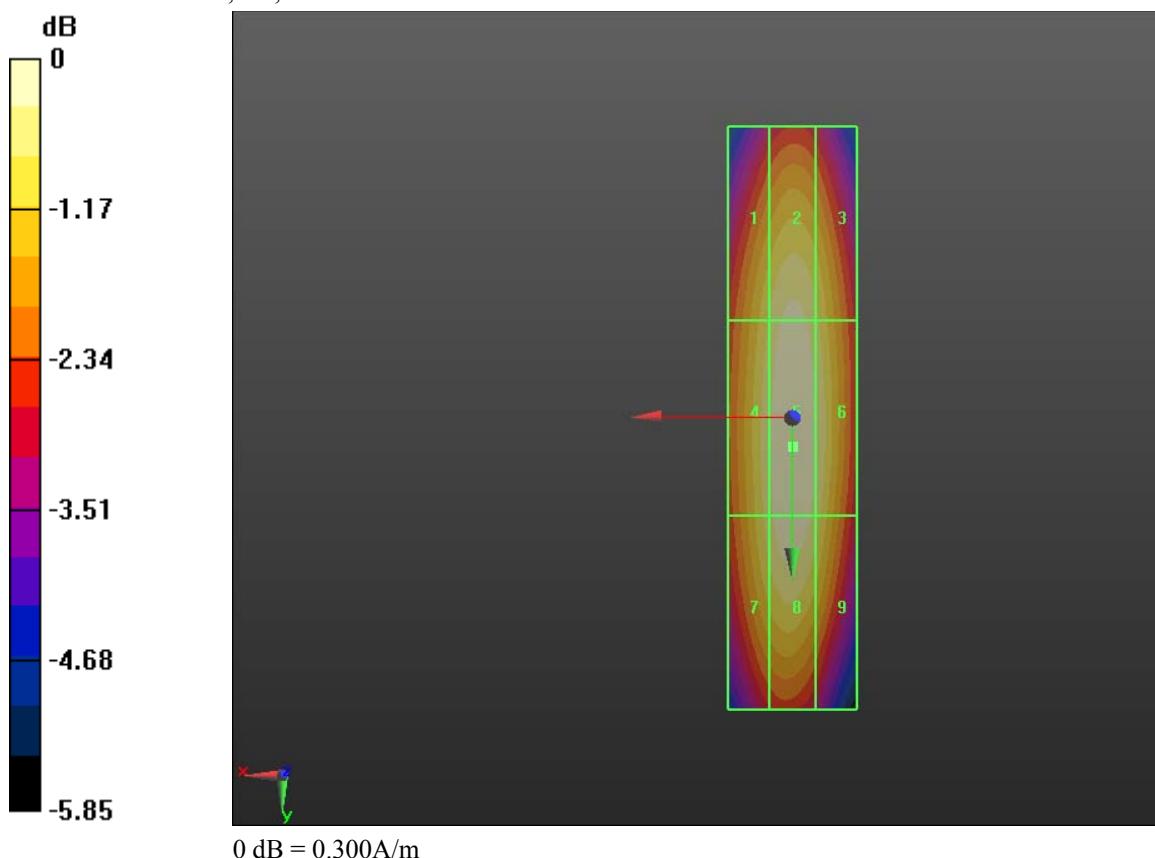
Grid 1	Grid 2	Grid 3
0.276 M4	0.292 M4	0.279 M4
Grid 4	Grid 5	Grid 6
0.286 M4	0.302 M4	0.289 M4
Grid 7	Grid 8	Grid 9
0.283 M4	0.299 M4	0.281 M4

Cursor:

Total = 0.302 A/m

H Category: M4

Location: 0, 4.5, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDU71CW/RDE71UW	Page
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Date/Time: 3/23/2011 3:11:51 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CDMA_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CDMA 800;; Frequency: 835 MHz; Communication System PAR: 0 dB
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.183 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.196 A/m; Power Drift = 0.01 dB

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

Author Data
Daoud Attayi

Dates of Test
Mar. 22-23, Apr. 28, 2011

Report No
RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID
L6ARDU70CW
L6ARDE70UW

Peak H-field in A/m

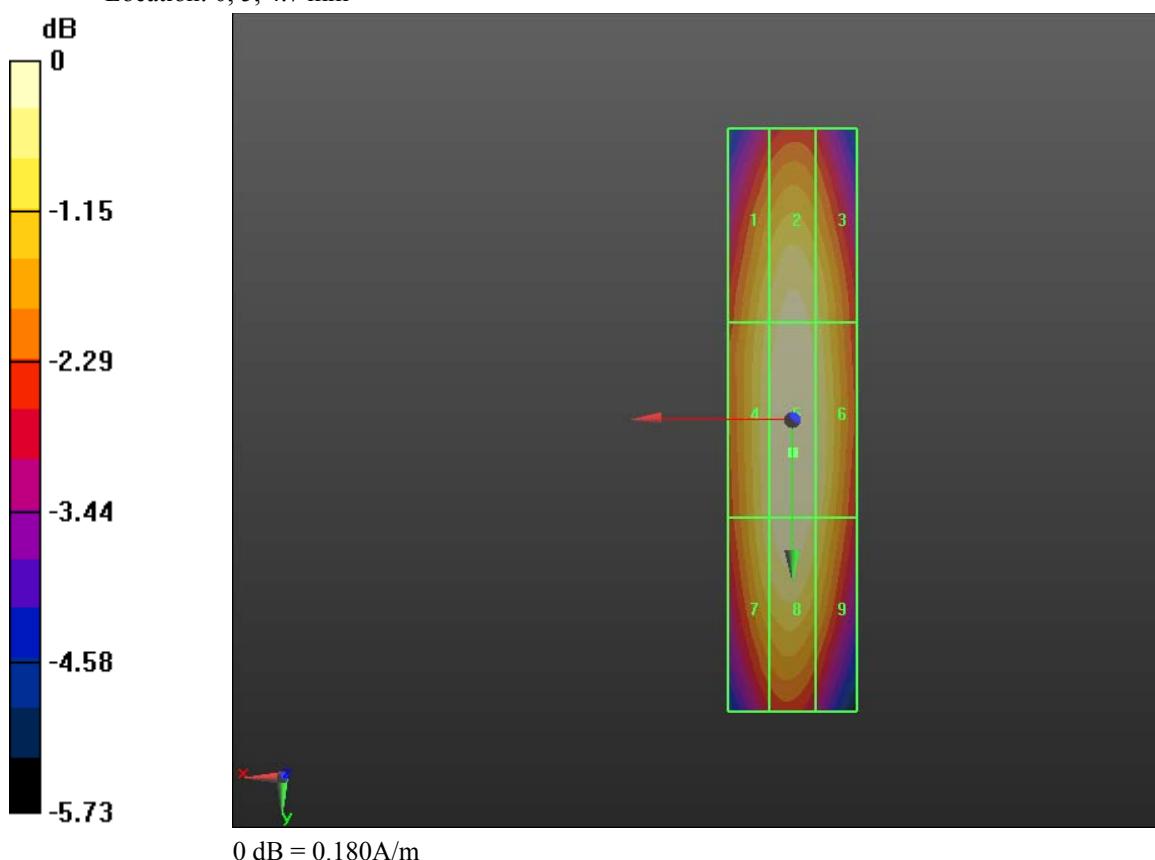
Grid 1	Grid 2	Grid 3
0.168 M4	0.176 M4	0.169 M4
Grid 4	Grid 5	Grid 6
0.173 M4	0.183 M4	0.175 M4
Grid 7	Grid 8	Grid 9
0.171 M4	0.180 M4	0.169 M4

Cursor:

Total = 0.183 A/m

H Category: M4

Location: 0, 5, 4.7 mm



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Date/Time: 3/23/2011 3:28:48 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CW835 MHz_CDMA

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.191 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.202 A/m; Power Drift = -0.03 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID

L6ARDU70CW
L6ARDE70UW

Peak H-field in A/m

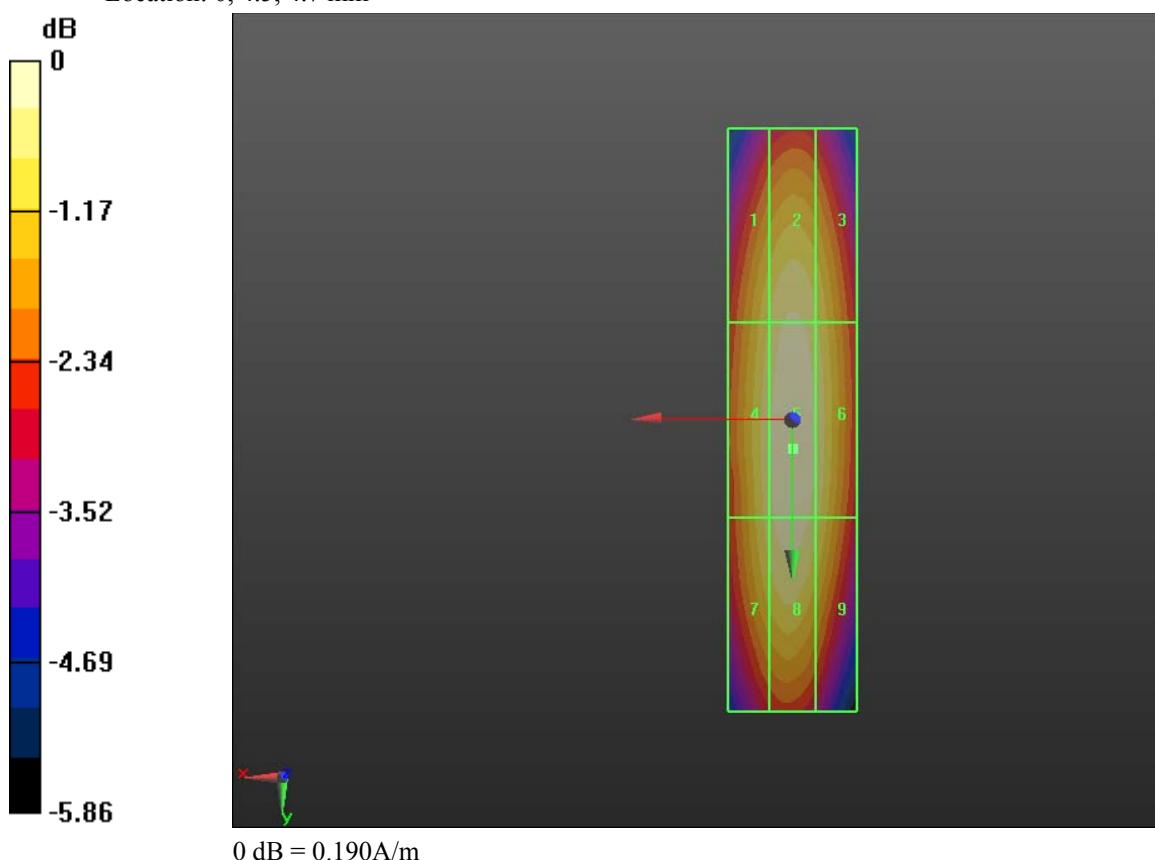
Grid 1	Grid 2	Grid 3
0.175 M4	0.183 M4	0.176 M4
Grid 4	Grid 5	Grid 6
0.182 M4	0.191 M4	0.182 M4
Grid 7	Grid 8	Grid 9
0.179 M4	0.187 M4	0.178 M4

Cursor:

Total = 0.191 A/m

H Category: M4

Location: 0, 4.5, 4.7 mm



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Date/Time: 3/23/2011 3:38:43 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_AM80%835 MHz_CDMA

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: AM 80%; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.121 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.129 A/m; Power Drift = -0.09 dB

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

Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55A RTS-2580-1106-36	FCC ID L6ARDU70CW L6ARDE70UW
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Peak H-field in A/m

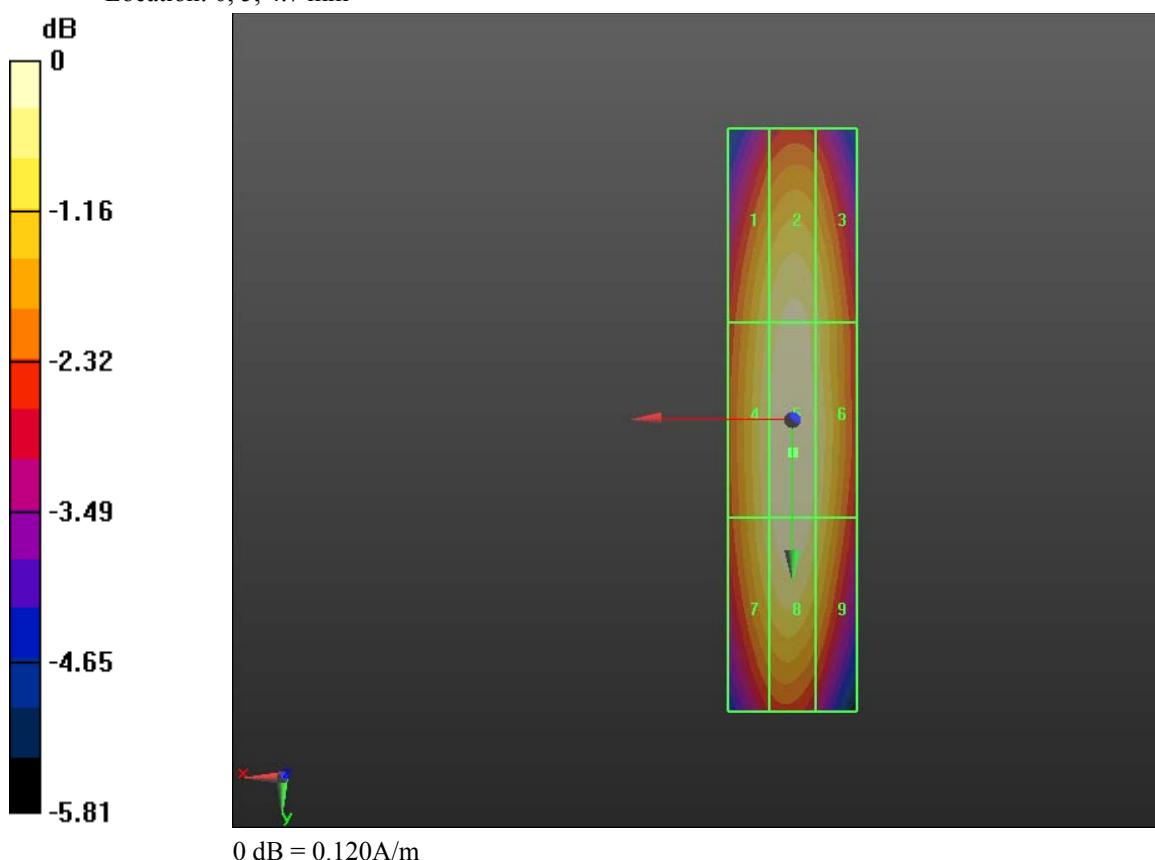
Grid 1 0.111 M4	Grid 2 0.117 M4	Grid 3 0.113 M4
Grid 4 0.115 M4	Grid 5 0.121 M4	Grid 6 0.116 M4
Grid 7 0.114 M4	Grid 8 0.120 M4	Grid 9 0.113 M4

Cursor:

Total = 0.121 A/m

H Category: M4

Location: 0, 5, 4.7 mm



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Date/Time: 3/23/2011 12:47:34 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.451 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.479 A/m; Power Drift = -0.02 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID

L6ARDU70CW
L6ARDE70UW

Peak H-field in A/m

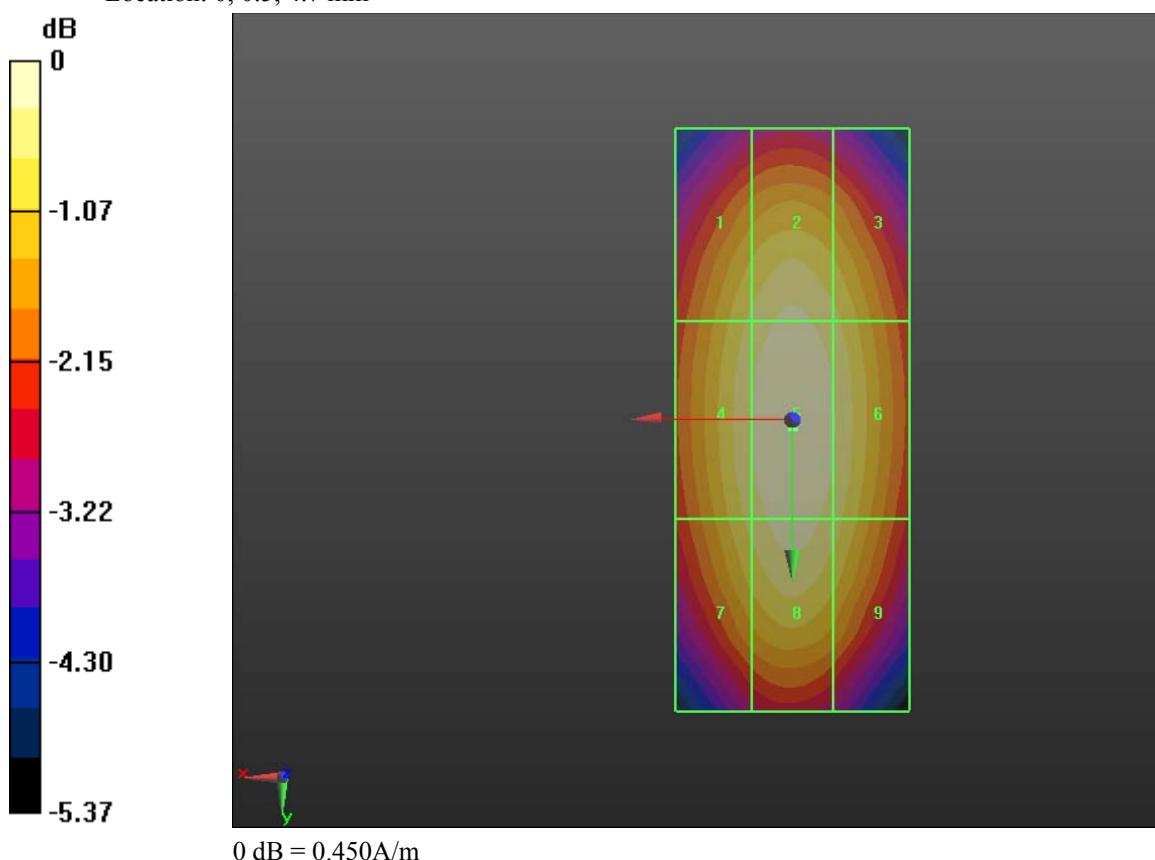
Grid 1	Grid 2	Grid 3
0.419 M2	0.436 M2	0.420 M2
Grid 4	Grid 5	Grid 6
0.432 M2	0.451 M2	0.434 M2
Grid 7	Grid 8	Grid 9
0.421 M2	0.442 M2	0.423 M2

Cursor:

Total = 0.451 A/m

H Category: M2

Location: 0, 0.5, 4.7 mm



 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDU71CW/RDE71UW			Page 75 (187)
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Date/Time: 3/23/2011 1:03:25 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_GSM_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: GSM 1900; Frequency: 1880 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.099 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.105 A/m; Power Drift = 0.04 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak H-field in A/m

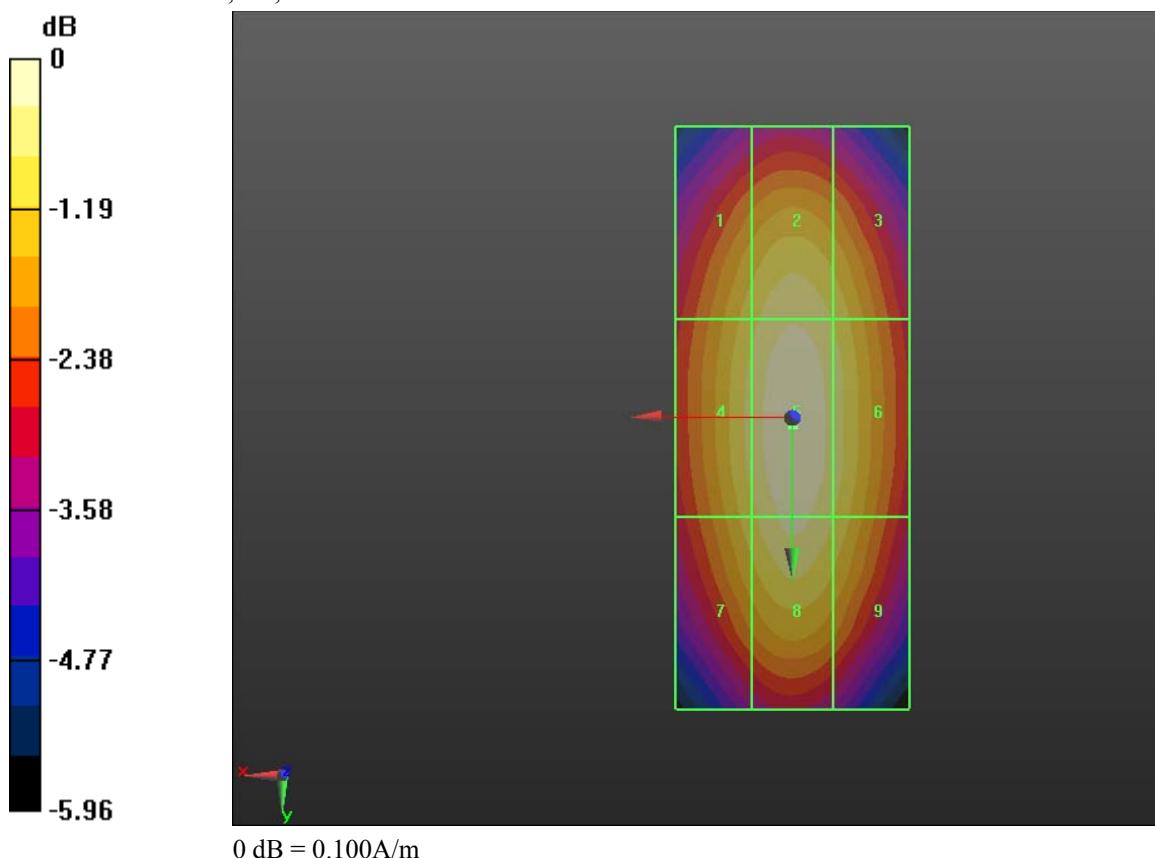
Grid 1	Grid 2	Grid 3
0.090 M4	0.095 M4	0.091 M4
Grid 4	Grid 5	Grid 6
0.093 M4	0.099 M4	0.094 M4
Grid 7	Grid 8	Grid 9
0.090 M4	0.097 M4	0.091 M4

Cursor:

Total = 0.099 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm



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Date/Time: 3/23/2011 12:41:56 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CW1880 MHz_GSM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.284 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.302 A/m; Power Drift = -0.03 dB

Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak H-field in A/m

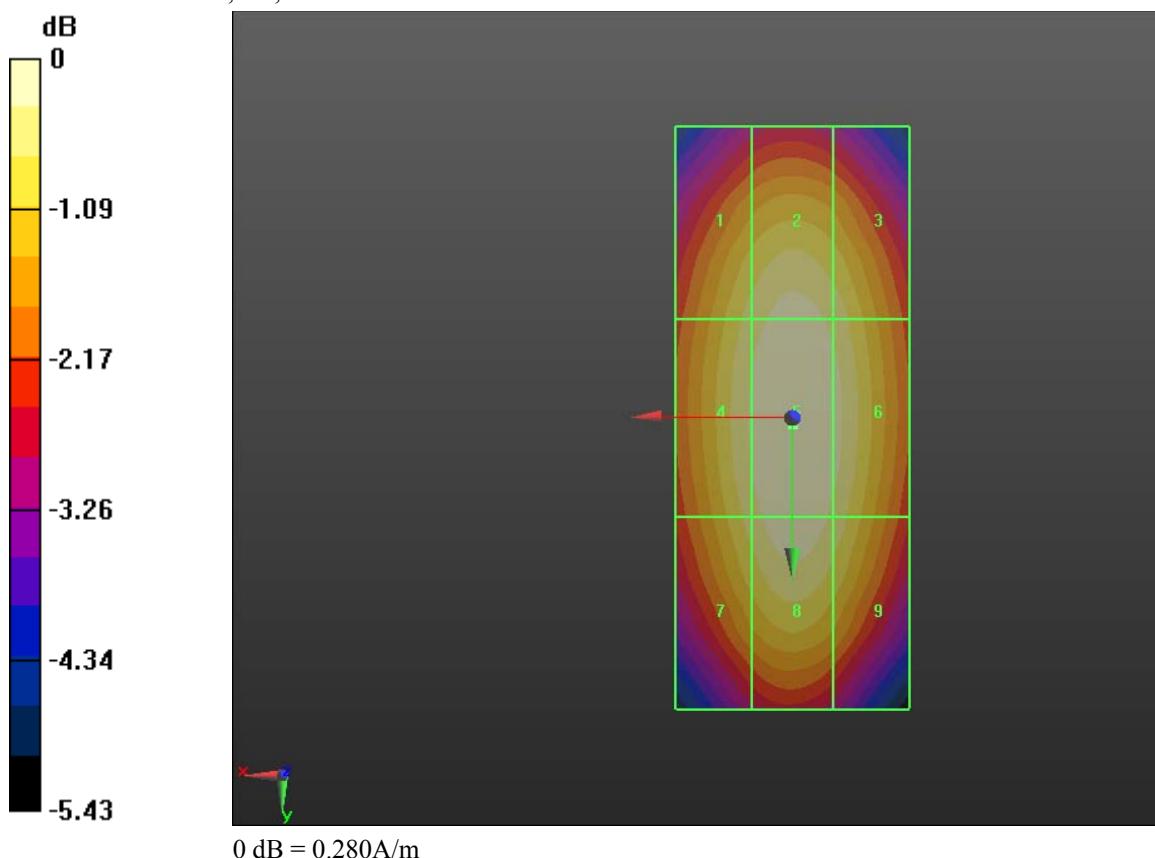
Grid 1	Grid 2	Grid 3
0.263 M3	0.274 M3	0.265 M3
Grid 4	Grid 5	Grid 6
0.271 M3	0.284 M3	0.274 M3
Grid 7	Grid 8	Grid 9
0.263 M3	0.278 M3	0.266 M3

Cursor:

Total = 0.284 A/m

H Category: M3

Location: 0, 0.5, 4.7 mm



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Date/Time: 3/23/2011 12:51:39 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_AM80%1880 MHz_GSM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: AM 80%; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: TCoil Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.184 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.196 A/m; Power Drift = -0.02 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

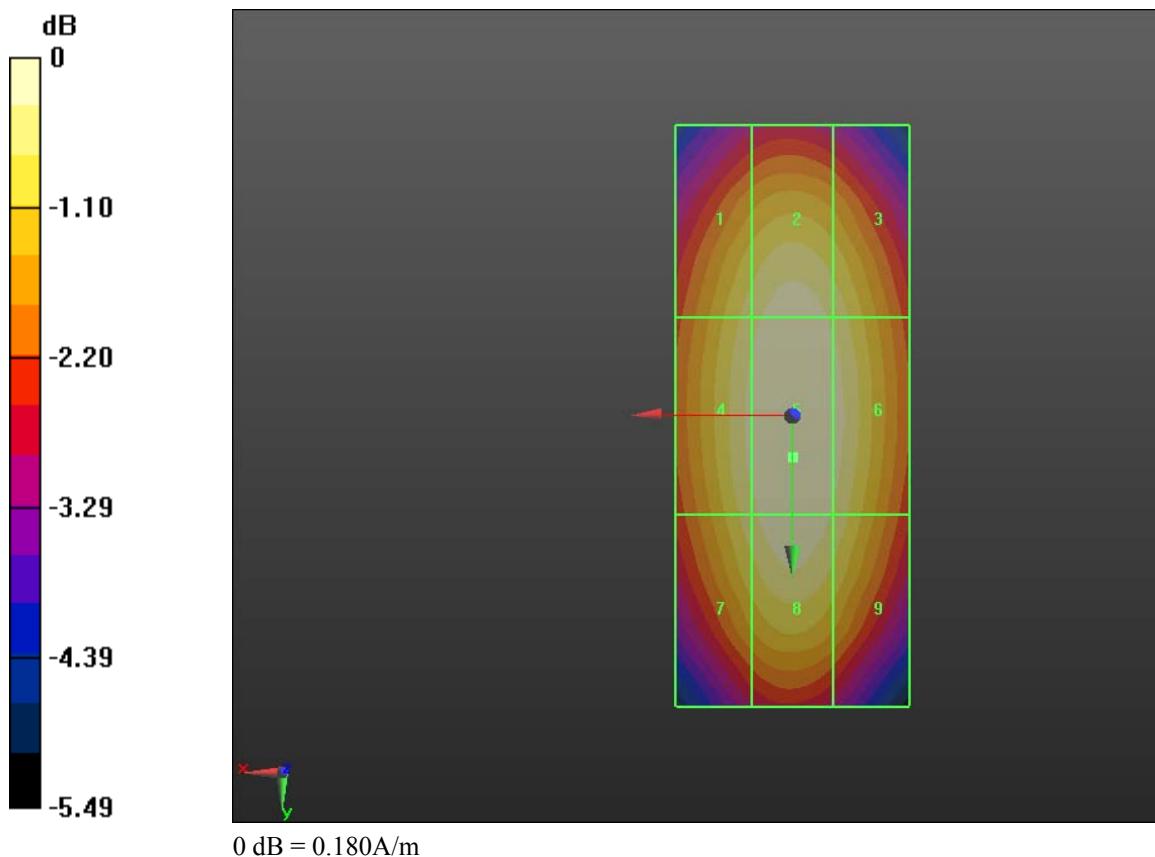
RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID

L6ARDU70CW
L6ARDE70UW

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.170 M4	0.178 M4	0.171 M4
Grid 4	Grid 5	Grid 6
0.175 M4	0.184 M4	0.177 M4
Grid 7	Grid 8	Grid 9
0.170 M4	0.180 M4	0.172 M4



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Date/Time: 3/23/2011 1:10:44 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CDMA_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CDMA 1900; Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.154 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.165 A/m; Power Drift = -0.02 dB

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

Author Data
Daoud Attayi

 Dates of Test
Mar. 22-23, Apr. 28, 2011

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RTS-2580-1106-36

 FCC ID
L6ARDU70CW
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Peak H-field in A/m

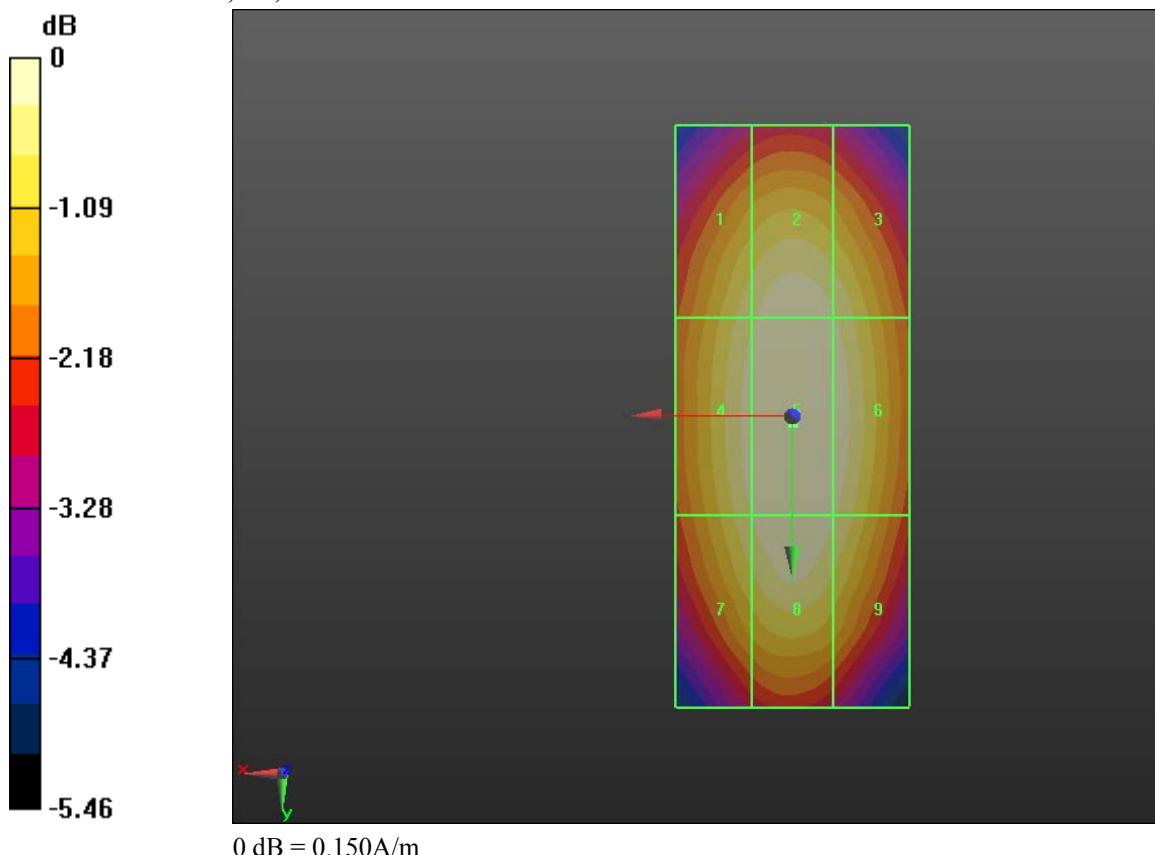
Grid 1	Grid 2	Grid 3
0.143 M4	0.150 M4	0.145 M4
Grid 4	Grid 5	Grid 6
0.147 M4	0.154 M4	0.149 M4
Grid 7	Grid 8	Grid 9
0.144 M4	0.152 M4	0.145 M4

Cursor:

Total = 0.154 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm



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Date/Time: 3/23/2011 12:37:44 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CW1880 MHz_CDMA

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.161 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.170 A/m; Power Drift = 0.03 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

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RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak H-field in A/m

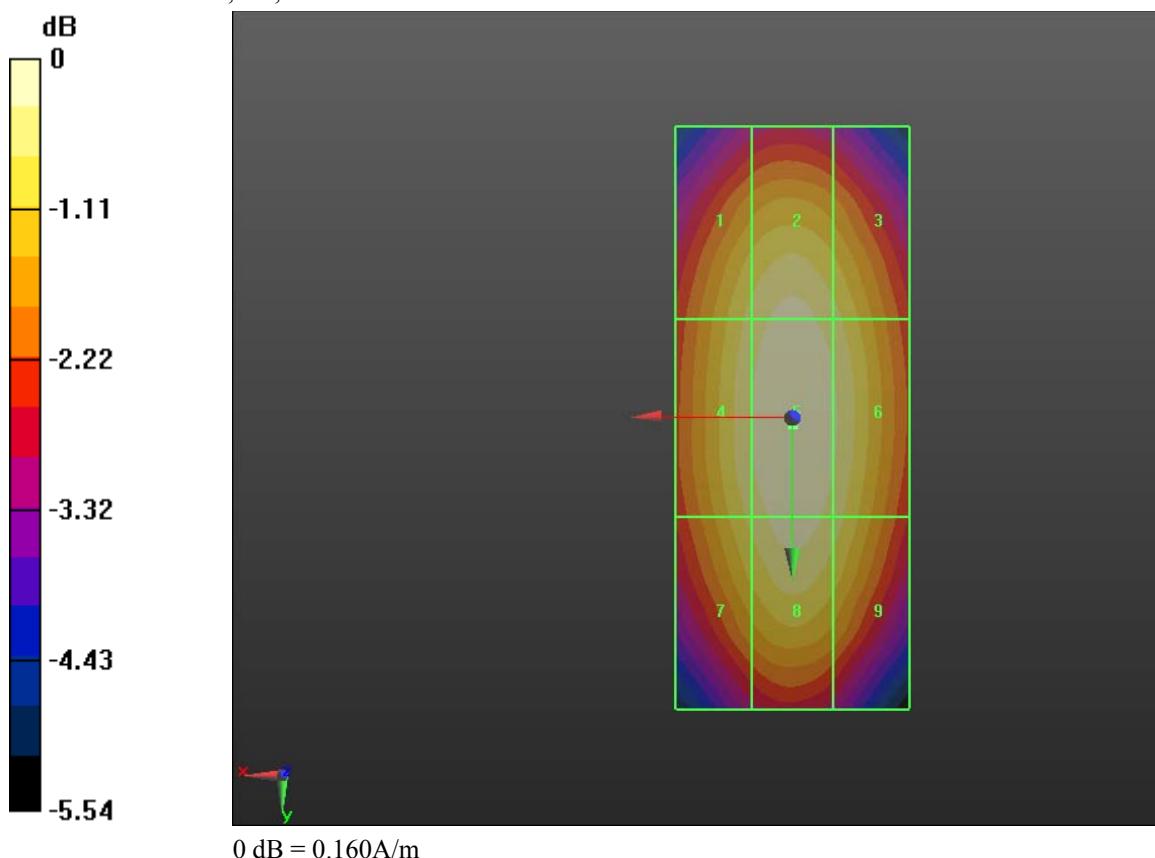
Grid 1	Grid 2	Grid 3
0.149 M4	0.156 M4	0.149 M4
Grid 4	Grid 5	Grid 6
0.153 M4	0.161 M4	0.155 M4
Grid 7	Grid 8	Grid 9
0.149 M4	0.157 M4	0.150 M4

Cursor:

Total = 0.161 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm



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Date/Time: 3/23/2011 12:55:35 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_AM80%1880 MHz_CDMA

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: AM 80%; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: TCoil Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.102 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.108 A/m; Power Drift = 0.06 dB

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

Author Data
Daoud Attayi

Dates of Test

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FCC ID

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Peak H-field in A/m

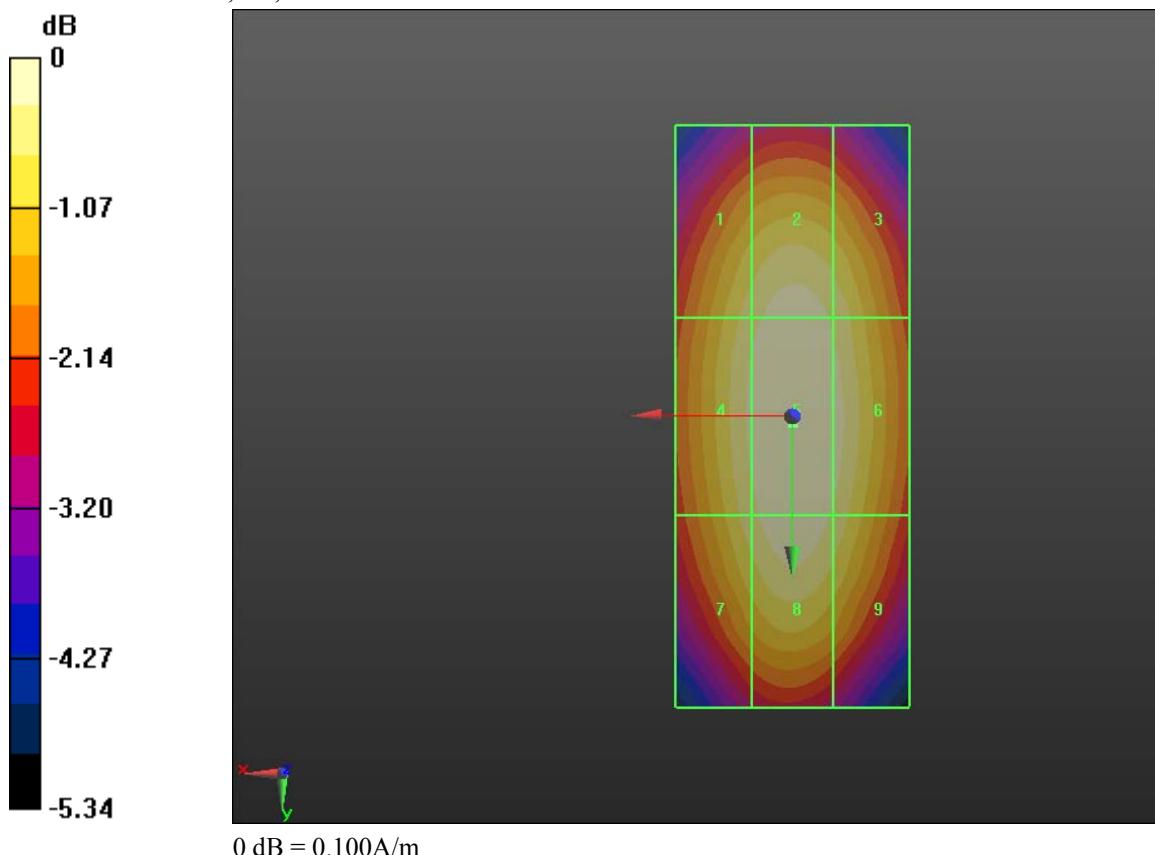
Grid 1	Grid 2	Grid 3
0.094 M4	0.099 M4	0.095 M4
Grid 4	Grid 5	Grid 6
0.097 M4	0.102 M4	0.098 M4
Grid 7	Grid 8	Grid 9
0.095 M4	0.100 M4	0.095 M4

Cursor:

Total = 0.102 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm



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Date/Time: 2/28/2011 1:07:46 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_UMTS_band_V_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: WCDMA FDD V;; Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/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 = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 42.995 V/m; Power Drift = 0.01 dB

Maximum value of Total (measured) = 56.244 V/m

Date/Time: 2/28/2011 1:07:46 PM

Test Laboratory: RIM Testing Services

DUT: HAC-Dipole 835 MHz; Type: D835V3

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Communication System: WCDMA FDD V; Communication System Band:; Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 56.944 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 42.995 V/m; Power Drift = 0.01 dB

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

Peak E-field in V/m

Grid 1 53.505 M4	Grid 2 56.944 M4	Grid 3 56.718 M4
Grid 4 30.372 M4	Grid 5 31.039 M4	Grid 6 30.245 M4
Grid 7 54.971 M4	Grid 8 56.115 M4	Grid 9 54.501 M4

Cursor:

Total = 56.944 V/m

E Category: M4

Location: -2.5, -79.5, 4.7 mm

Author Data
Daoud Attayi

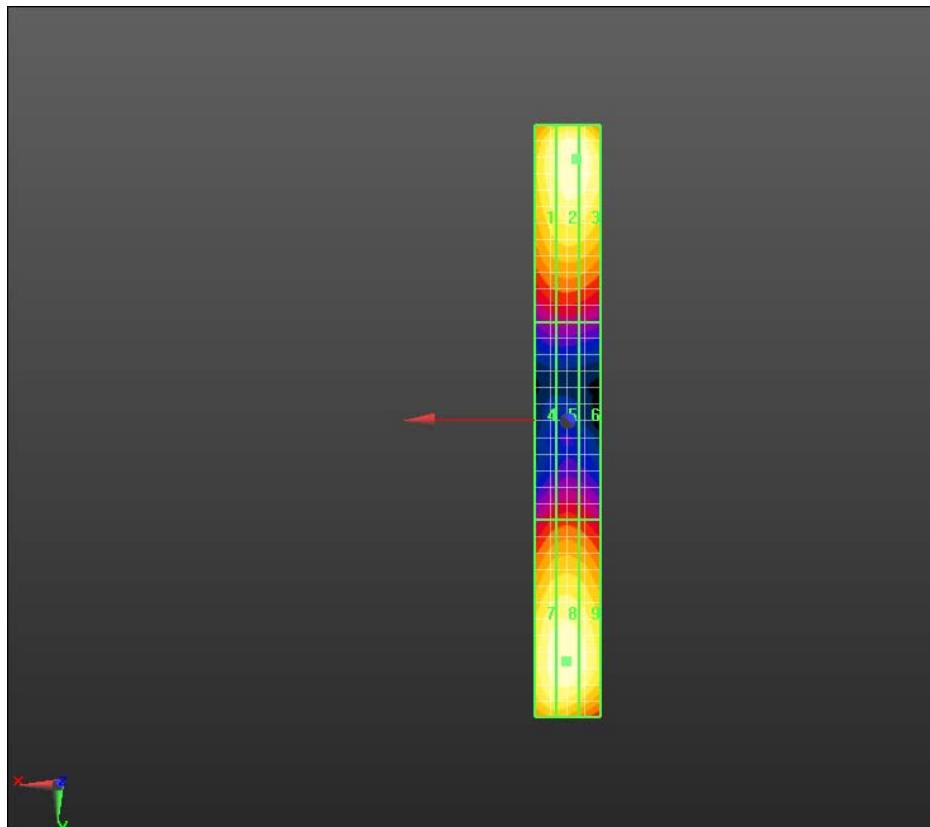
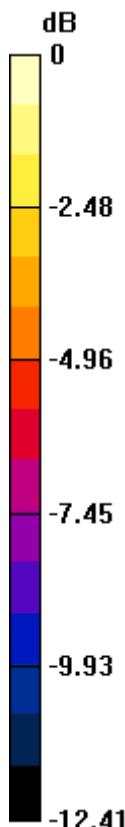
Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

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FCC ID

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Date/Time: 2/28/2011 12:43:40 PM

Test Laboratory: RIM Testing Services

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 57.608 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 42.622 V/m; Power Drift = -0.06 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak E-field in V/m

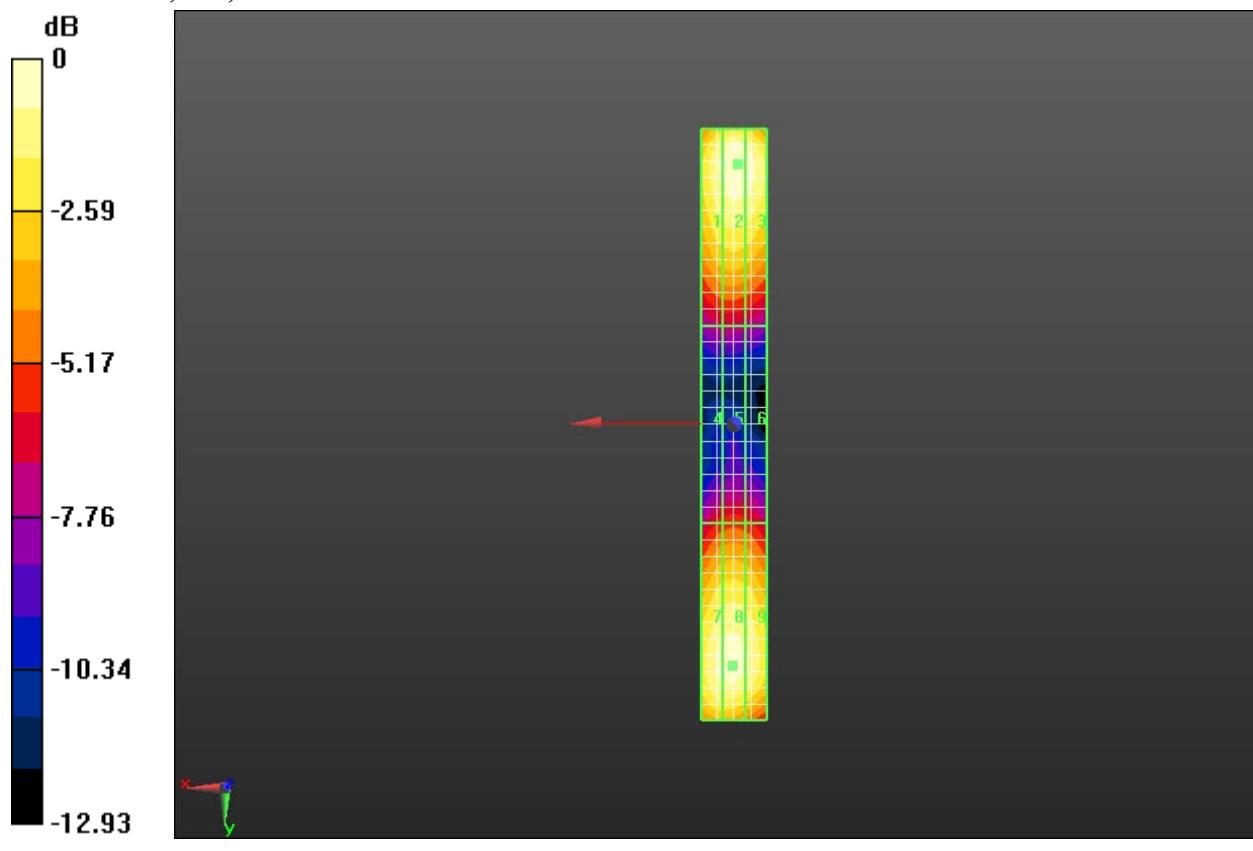
Grid 1	Grid 2	Grid 3
54.388 M4	57.608 M4	56.620 M4
Grid 4	Grid 5	Grid 6
30.355 M4	30.943 M4	30.261 M4
Grid 7	Grid 8	Grid 9
54.334 M4	55.102 M4	5076 M4

Cursor:

Total = 57.608 V/m

E Category: M4

Location: -1, -79, 4.7 mm



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Date/Time: 2/28/2011 12:54:03 PM

Test Laboratory: RIM Testing Services

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: AM 80%; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 37.106 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 26.469 V/m; Power Drift = 0.17 dB

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

Author Data
Daoud Attayi

Dates of Test

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Peak E-field in V/m

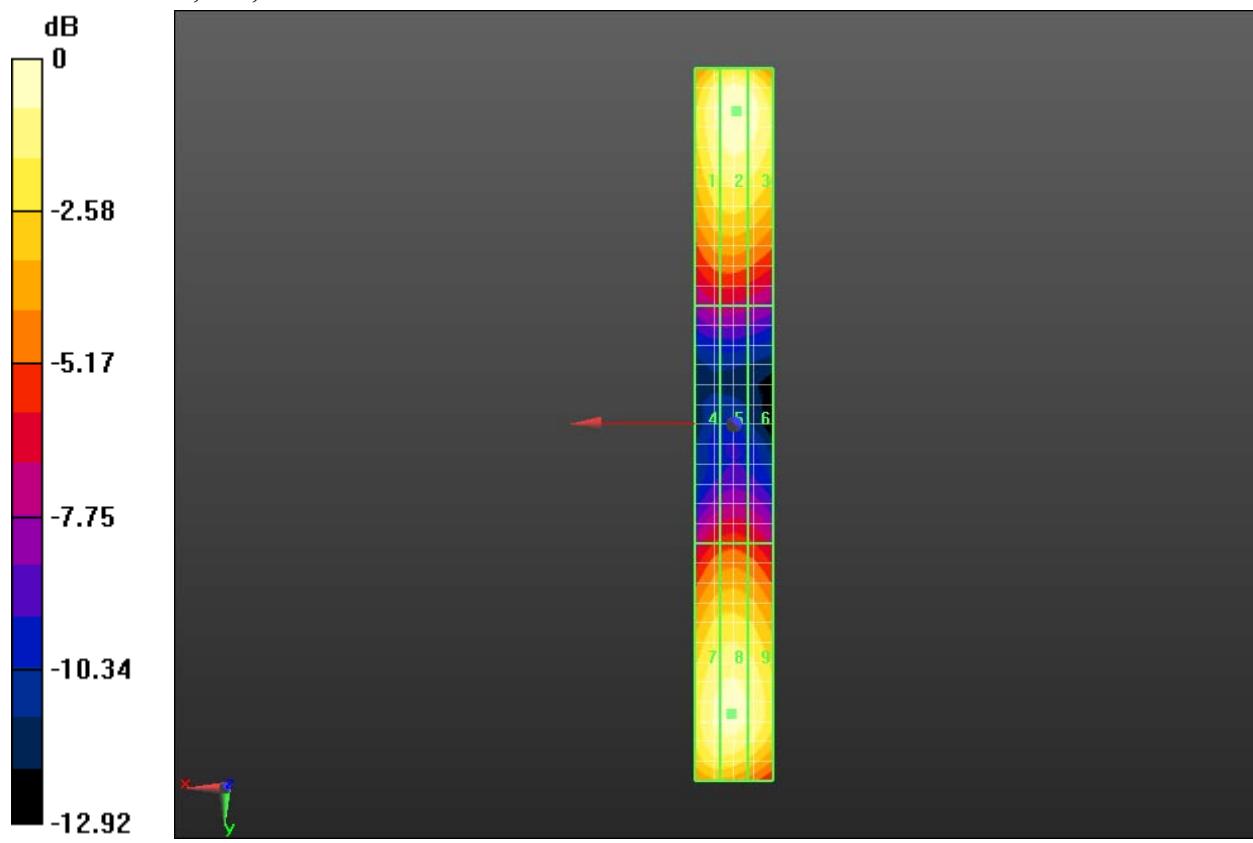
Grid 1	Grid 2	Grid 3
35.158 M4	37.106 M4	36.227 M4
Grid 4	Grid 5	Grid 6
19.445 M4	19.878 M4	19.259 M4
Grid 7	Grid 8	Grid 9
34.812 M4	35.203 M4	34.158 M4

Cursor:

Total = 37.106 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm



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Date/Time: 2/28/2011 2:07:15 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_UMTS_band_II_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial

Communication System: WCDMA FDD II; ; Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 38.483 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 35.028 V/m; Power Drift = 0.10 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID

L6ARDU70CW
L6ARDE70UW

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
36.706 M4	38.483 M4	37.337 M4
Grid 4	Grid 5	Grid 6
24.878 M4	25.643 M4	25.076 M4

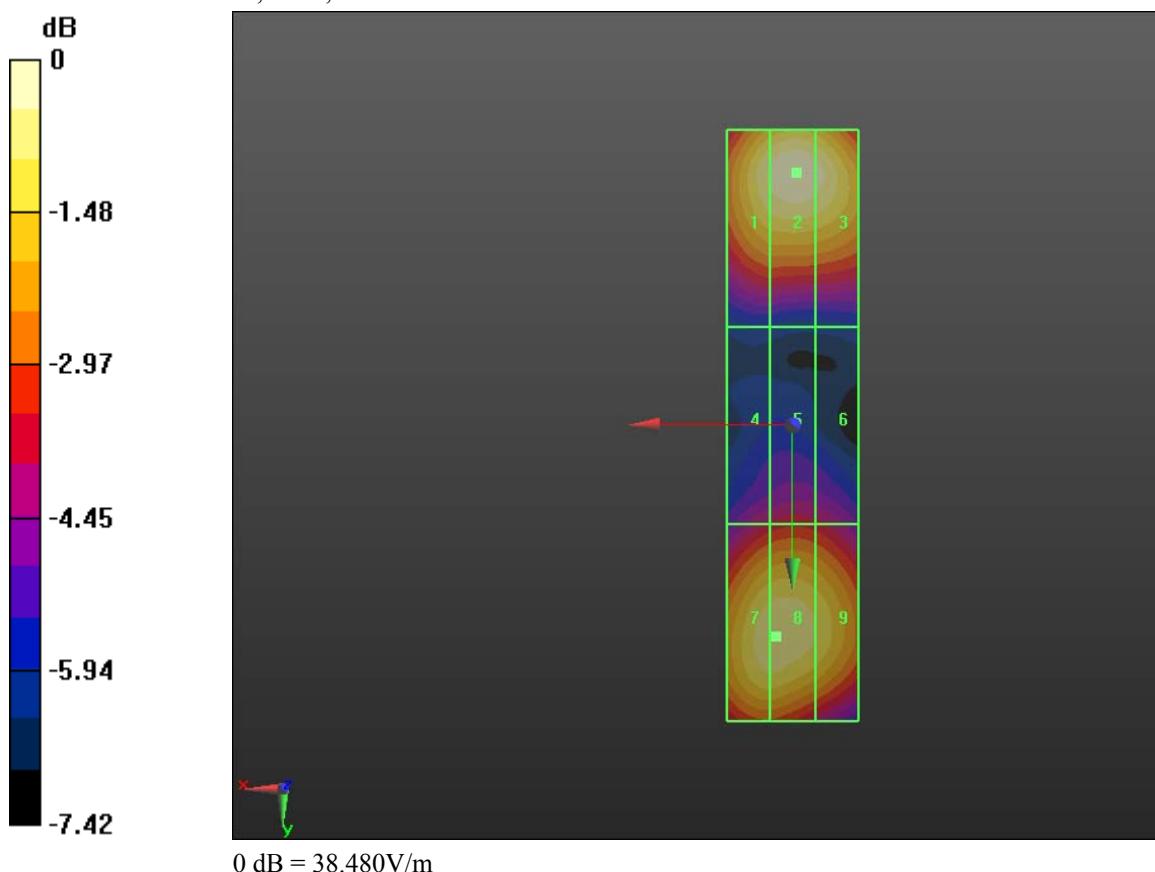
Grid 7	Grid 8	Grid 9
35.871 M4	35.988 M4	34.479 M4

Cursor:

Total = 38.483 V/m

E Category: M4

Location: -0.5, -38.5, 4.7 mm



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Date/Time: 2/28/2011 2:16:59 PM

Test Laboratory: RIM Testing Services

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 43.024 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 38.861 V/m; Power Drift = 0.02 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID

L6ARDU70CW
L6ARDE70UW
Peak E-field in V/m

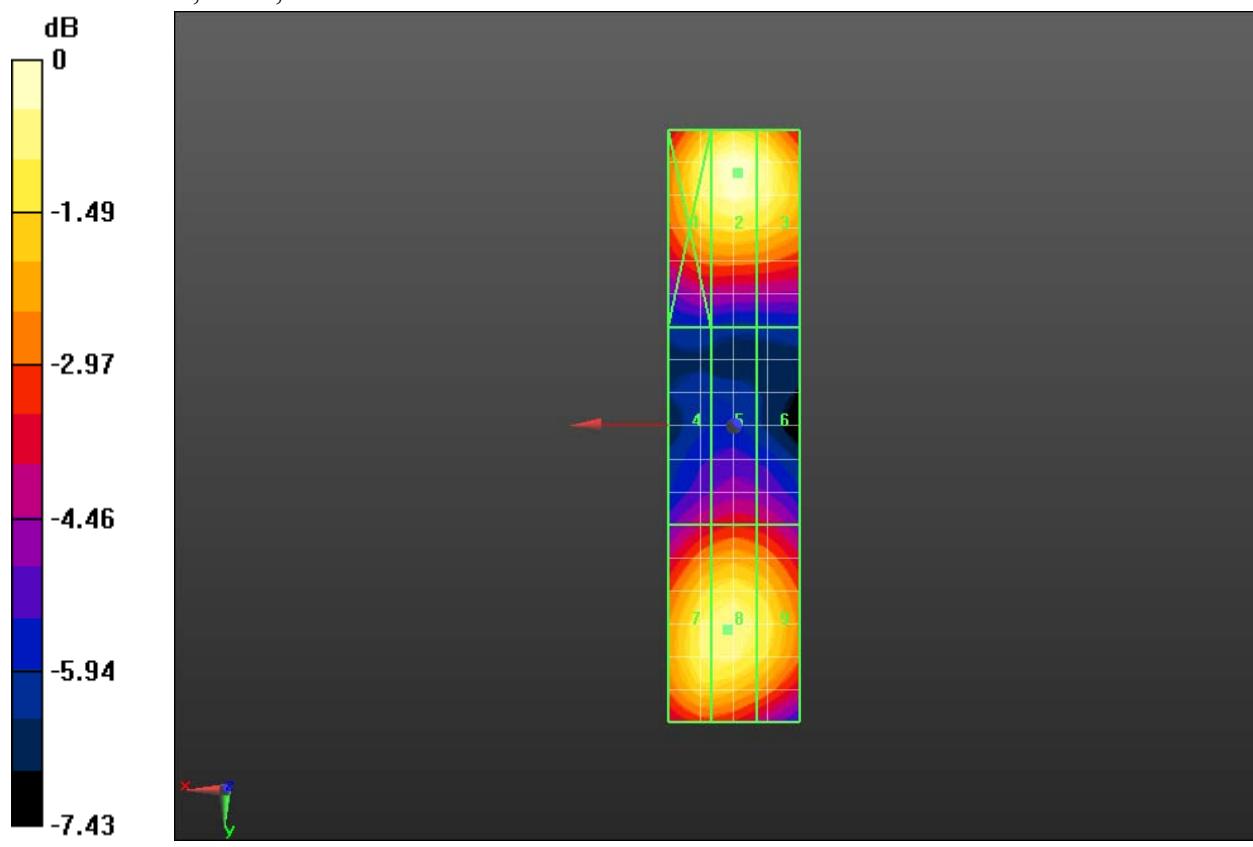
Grid 1	Grid 2	Grid 3
40.897 M4	43.024 M4	41.671 M4
Grid 4	Grid 5	Grid 6
27.919 M4	28.886 M4	28.274 M4
Grid 7	Grid 8	Grid 9
39.759 M4	40.082 M4	38.641 M4

Cursor:

Total = 43.024 V/m

E Category: M4

Location: -0.5, -38.5, 4.7 mm



0 dB = 43.020V/m

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Date/Time: 2/28/2011 2:21:55 PM

Test Laboratory: RIM Testing Services

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: AM 80%; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 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 = 27.543 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.024 V/m; Power Drift = -0.0069 dB

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

Author Data
Daoud Attayi

Dates of Test

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Report No

RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID

L6ARDU70CW
L6ARDE70UW

Peak E-field in V/m

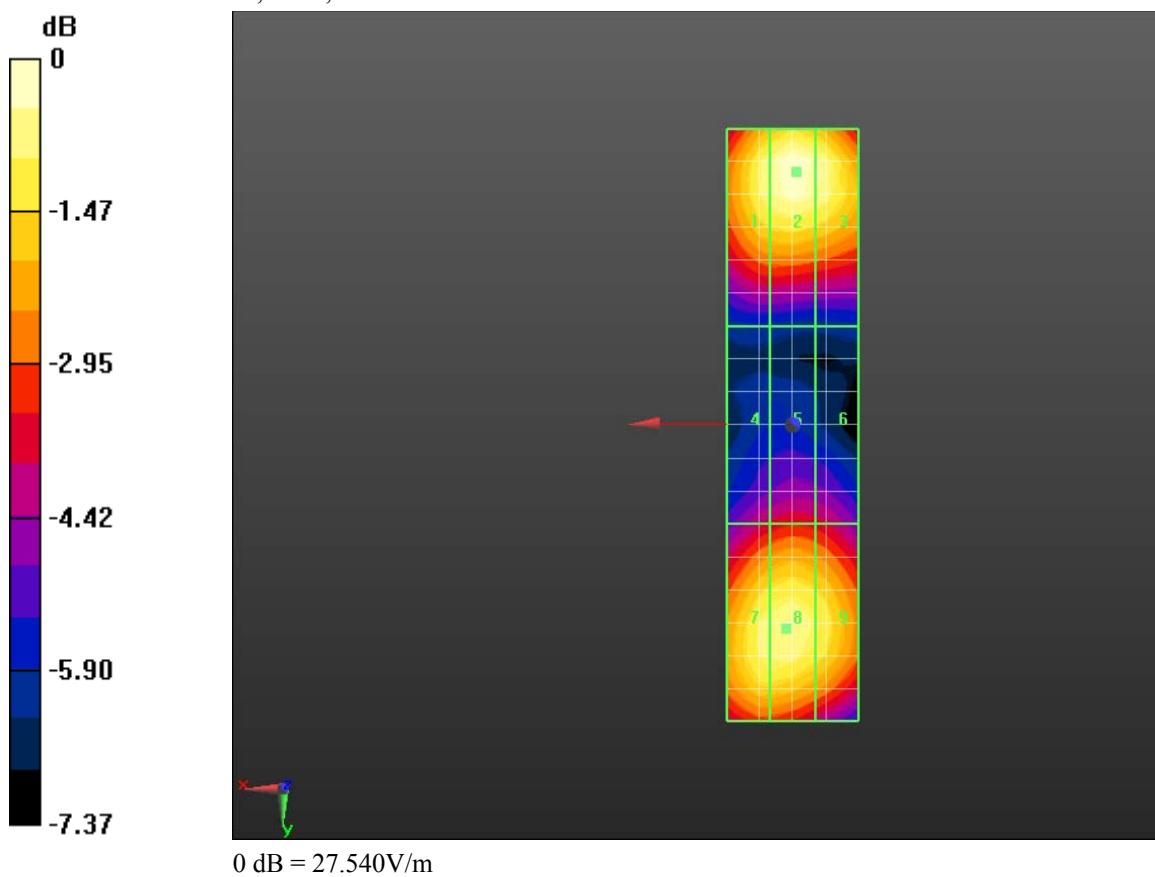
Grid 1	Grid 2	Grid 3
26.151 M4	27.543 M4	26.639 M4
Grid 4	Grid 5	Grid 6
17.904 M4	18.574 M4	18.189 M4
Grid 7	Grid 8	Grid 9
25.506 M4	25.701 M4	24.770 M4

Cursor:

Total = 27.543 V/m

E Category: M4

Location: -0.5, -38.5, 4.7 mm



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Date/Time: 2/28/2011 2:57:08 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_UMTS_band II_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: WCDMA FDD II; Communication System Band:; Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.138 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.147 A/m; Power Drift = 0.04 dB

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

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Peak H-field in A/m

Grid 1 0.127 M4	Grid 2 0.134 M4	Grid 3 0.128 M4
Grid 4 0.132 M4	Grid 5 0.138 M4	Grid 6 0.132 M4
Grid 7 0.129 M4	Grid 8 0.136 M4	Grid 9 0.127 M4

Cursor:

Total = 0.138 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm

Author Data
Daoud Attayi

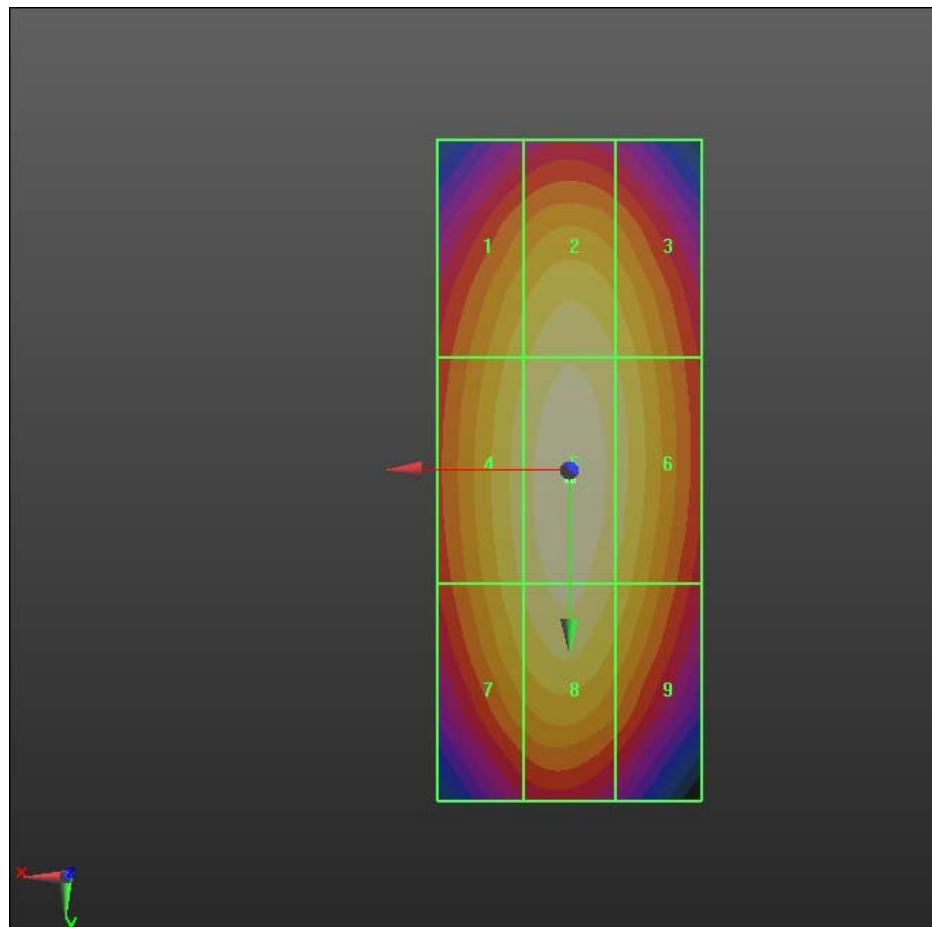
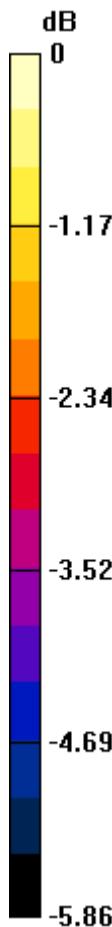
Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

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Date/Time: 3/23/2011 1:10:44 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CDMA_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CDMA 1900; Communication System Band: Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.154 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.165 A/m; Power Drift = -0.02 dB

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

Author Data
Daoud Attayi

Dates of Test

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Report No

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FCC ID

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Peak H-field in A/m

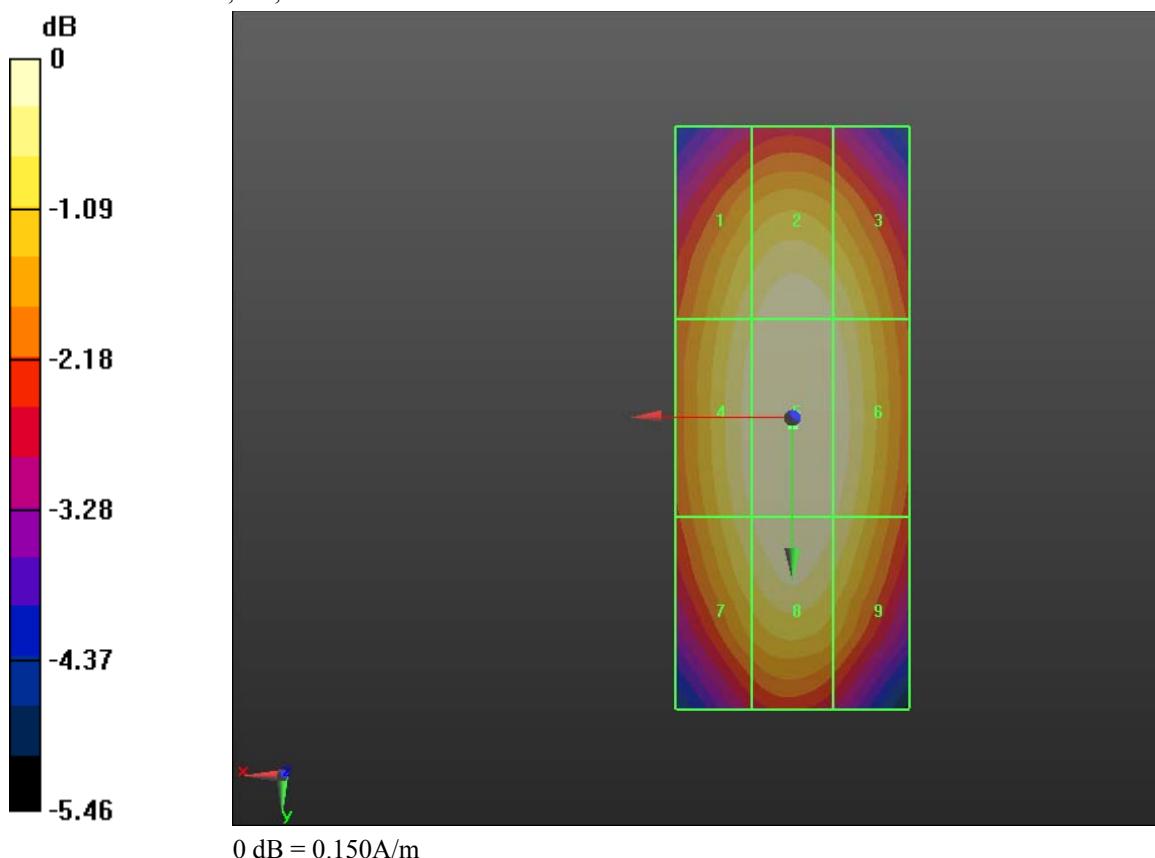
Grid 1	Grid 2	Grid 3
0.143 M4	0.150 M4	0.145 M4
Grid 4	Grid 5	Grid 6
0.147 M4	0.154 M4	0.149 M4
Grid 7	Grid 8	Grid 9
0.144 M4	0.152 M4	0.145 M4

Cursor:

Total = 0.154 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm



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A.3 RF emission field plots

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Date/Time: 3/23/2011 4:33:26 PM, Date/Time: 3/23/2011 4:38:37 PM, Date/Time: 3/23/2011 4:43:10 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM 850

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 850; ; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 MHz; Communication System PAR: 9.191 dB
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 140.3 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 53.962 V/m; Power Drift = -0.12 dB

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



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FCC ID

**L6ARDU70CW
L6ARDE70UW**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
118.0 M4	136.7 M4	131.6 M4
121.5 M4	140.3 M4	134.4 M4
122.9 M4	139.4 M4	133.1 M4

Cursor:

Total = 140.3 V/m

E Category: M4

Location: -3, -2.5, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007:**15 mm from Probe Center to the Device 2/Hearing Aid****Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 154.3 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 59.107 V/m; Power Drift = 0.19 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
116.8 M4	150.4 M3	150.5 M3
121.9 M4	154.3 M3	154.3 M3
128.6 M4	154.4 M3	154.4 M3

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Cursor:

Total = 154.4 V/m

E Category: M3

Location: -8.5, 13.5, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2 2/Hearing Aid**

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 165.7 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 64.371 V/m; Power Drift = -0.34 dB

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

Author Data
Daoud Attayi

Dates of Test

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FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak E-field in V/m

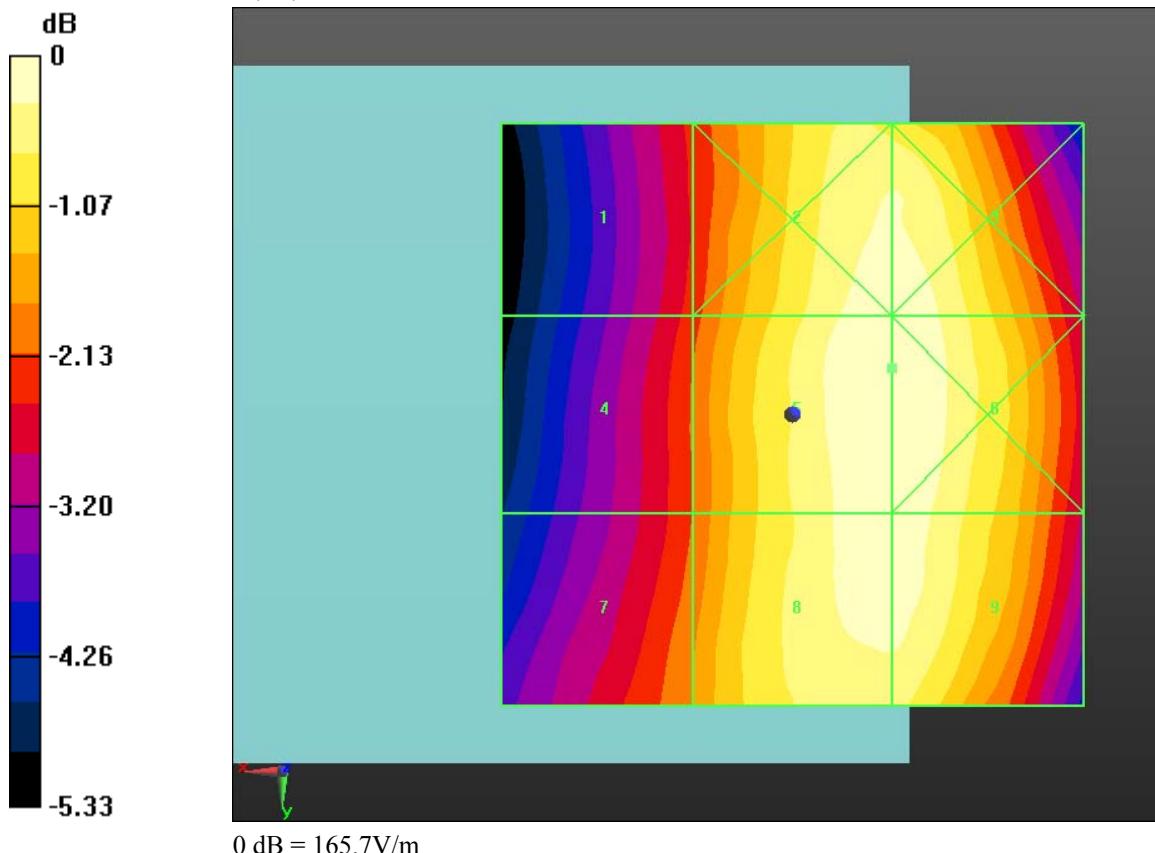
Grid 1	Grid 2	Grid 3
127.5 M4	164.1 M3	164.1 M3
Grid 4	Grid 5	Grid 6
130.7 M4	165.7 M3	165.7 M3
Grid 7	Grid 8	Grid 9
135.6 M4	162.9 M3	162.9 M3

Cursor:

Total = 165.7 V/m

E Category: M3

Location: -8.5, -4, 8.7 mm



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Date/Time: 3/23/2011 4:52:16 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM 850_high_chan_Telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 850; ; Frequency: 848.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Telecoil cent/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 159.4 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 64.183 V/m; Power Drift = -0.02 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

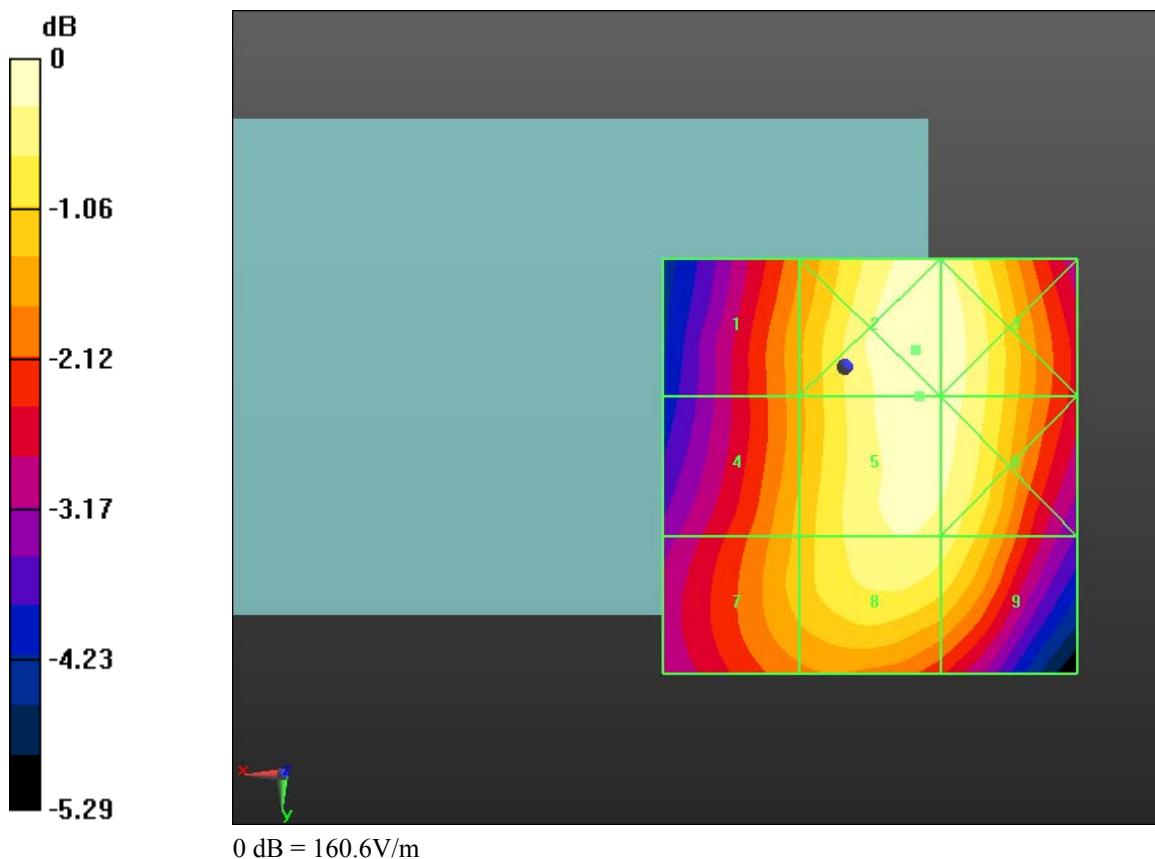
RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
135.7 M4	160.6 M3	159.1 M3
Grid 4	Grid 5	Grid 6
138.5 M4	159.4 M3	158.3 M3
Grid 7	Grid 8	Grid 9
139.4 M4	154.3 M3	151.6 M3



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Date/Time: 3/23/2011 5:02:28 PM, Date/Time: 3/23/2011 5:06:54 PM, Date/Time: 3/23/2011 5:10:57 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 1900; ; Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 73.806 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 19.960 V/m; Power Drift = 0.19 dB

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

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Peak E-field in V/m

Grid 1 71.549 M3	Grid 2 58.794 M3	Grid 3 62.906 M3
Grid 4 63.524 M3	Grid 5 73.806 M3	Grid 6 77.966 M3
Grid 7 60.542 M3	Grid 8 83.257 M3	Grid 9 84.405 M2

Cursor:

Total = 84.405 V/m

E Category: M2

Location: -12.5, 22.5, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2/Hearing Aid**

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 81.563 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 21.360 V/m; Power Drift = 0.06 dB

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

Peak E-field in V/m

Grid 1 68.321 M3	Grid 2 62.046 M3	Grid 3 66.802 M3
Grid 4 59.229 M3	Grid 5 81.563 M3	Grid 6 82.987 M3
Grid 7 64.252 M3	Grid 8 91.201 M2	Grid 9 91.215 M2

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Cursor:

Total = 91.214 V/m

E Category: M2

Location: -9, 23.5, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2 2/Hearing Aid**

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 76.911 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 22.361 V/m; Power Drift = 0.27 dB

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

Author Data	Dates of Test	Report No	FCC ID
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Peak E-field in V/m

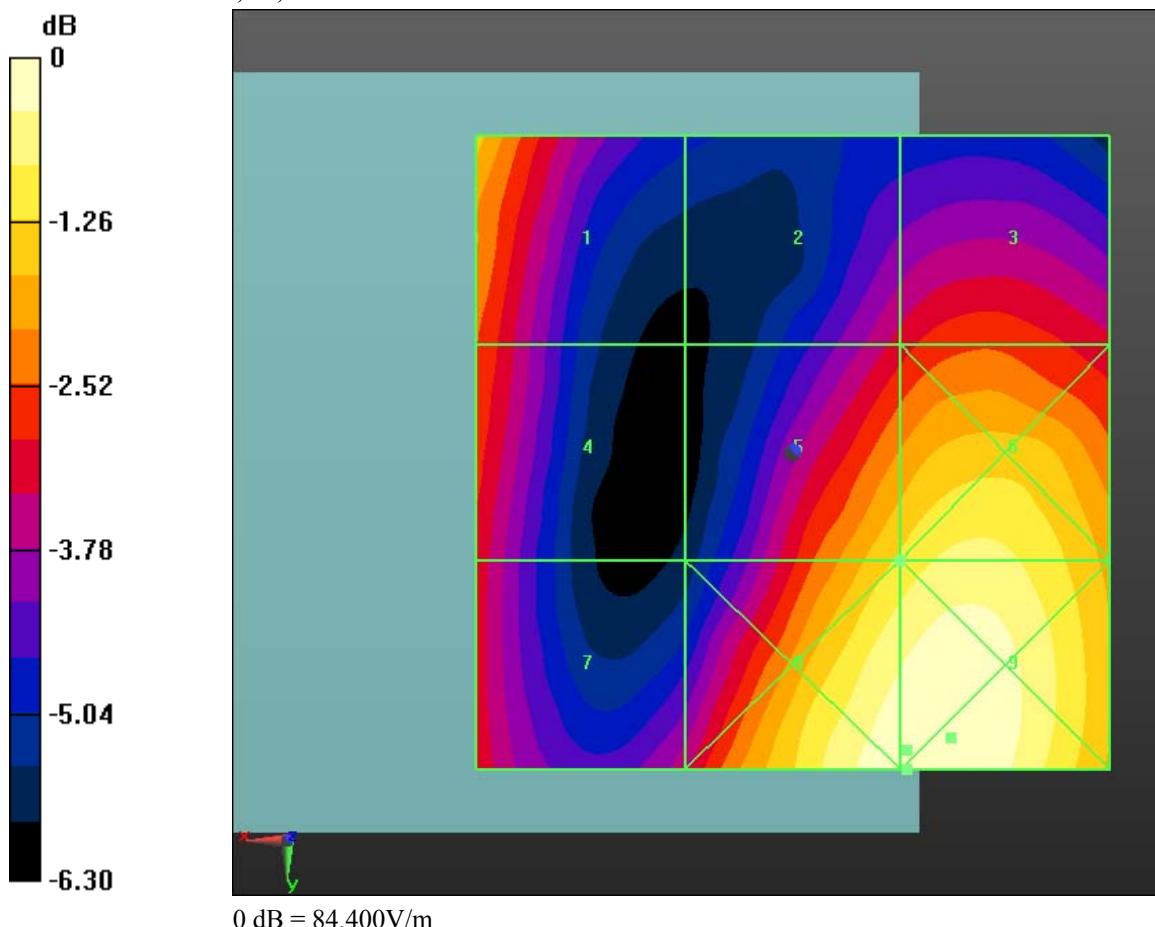
Grid 1 63.086 M3	Grid 2 55.906 M3	Grid 3 58.028 M3
Grid 4 59.991 M3	Grid 5 76.911 M3	Grid 6 79.327 M3
Grid 7 68.615 M3	Grid 8 90.494 M2	Grid 9 90.499 M2

Cursor:

Total = 90.499 V/m

E Category: M2

Location: -9, 25, 8.7 mm



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Date/Time: 4/27/2011 2:32:34 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 1900; .; Frequency: 1880 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Telecoil cent/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 81.717 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.233 V/m; Power Drift = 0.73 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak E-field in V/m

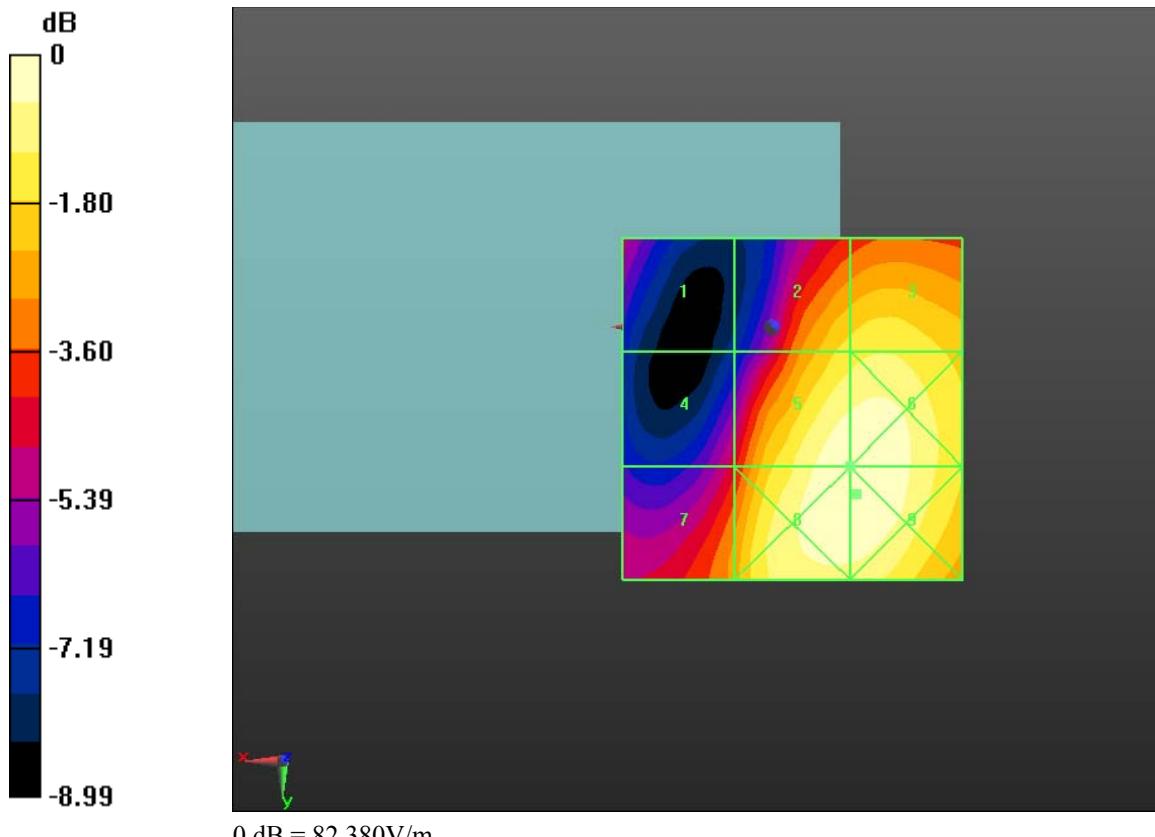
Grid 1	Grid 2	Grid 3
46.664 M4	69.198 M3	71.497 M3
Grid 4	Grid 5	Grid 6
50.027 M3	81.717 M3	82.056 M3
Grid 7	Grid 8	Grid 9
60.503 M3	82.292 M3	82.376 M3

$$[-5 < 149.6 < 0.45]$$
Cursor:

Total = 82.376 V/m

E Category: M3

Location: -12.5, 24.5, 8.7 mm



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Date/Time: 3/23/2011 5:31:24 PM, Date/Time: 3/23/2011 5:34:58 PM, Date/Time: 3/23/2011 5:38:34 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA800

DUT: BlackBerry Smartphone; Type: Sample

Communication System: CDMA 800; ; Frequency: 824.7 MHz, Frequency: 836.52 MHz,

Frequency: 848.52 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 58.257 V/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 70.405 V/m; Power Drift = 0.08 dB

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



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Peak E-field in V/m

Grid 1	Grid 2	Grid 3
48.315 M4	57.299 M4	57.331 M4
49.702 M4	58.257 M4	58.257 M4
51.212 M4	57.631 M4	57.676 M4

Cursor:

Total = 58.257 V/m

E Category: M4

Location: -8.5, -0.5, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007:**15 mm from Probe Center to the Device 2/Hearing Aid****Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 65.799 V/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 78.501 V/m; Power Drift = -0.02 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
50.455 M4	63.980 M4	64.048 M4
52.894 M4	65.799 M4	65.842 M4
56.196 M4	65.900 M4	65.942 M4

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Cursor:

Total = 65.942 V/m

E Category: M4

Location: -9, 10, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2 2/Hearing Aid**

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 66.716 V/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 82.434 V/m; Power Drift = -0.11 dB

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

Author Data
Daoud Attayi

Dates of Test

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Peak E-field in V/m

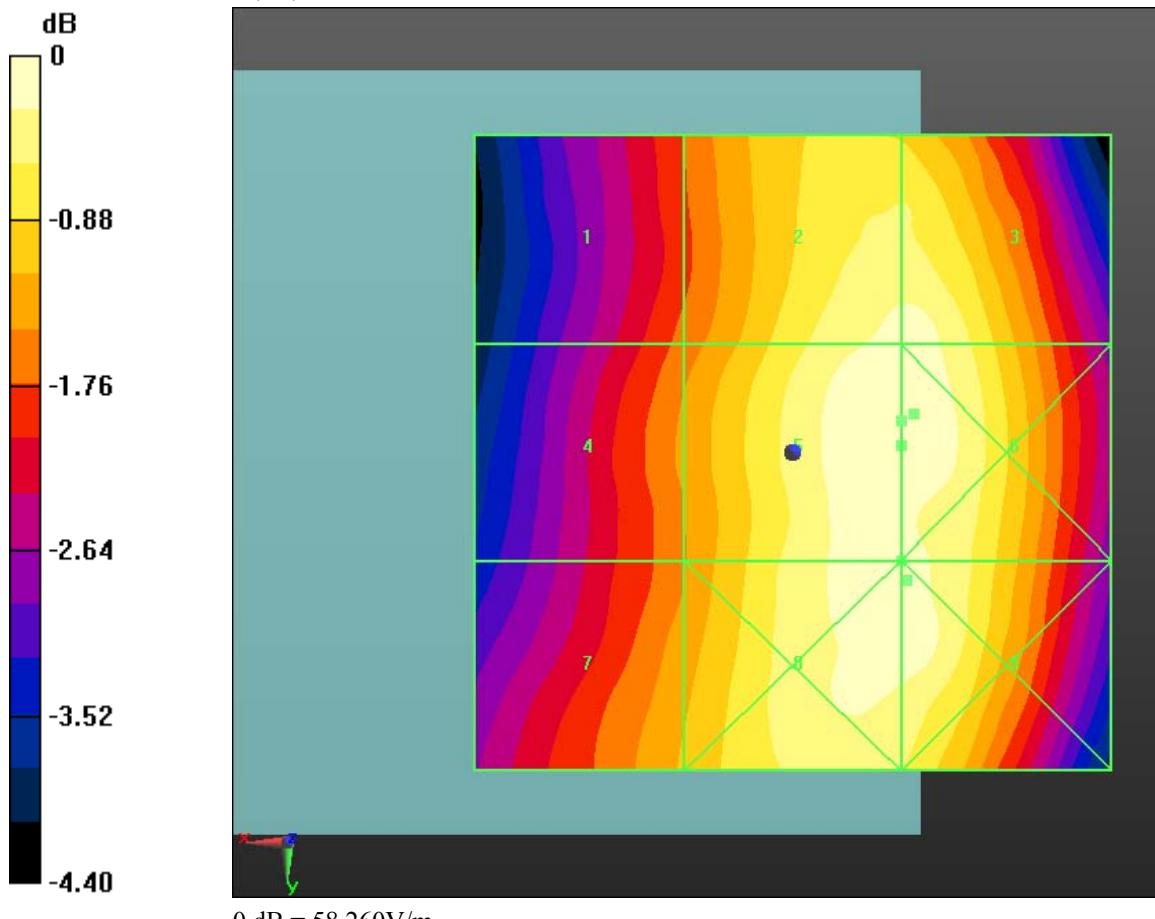
Grid 1	Grid 2	Grid 3
53.873 M4	65.647 M4	65.743 M4
Grid 4	Grid 5	Grid 6
55.139 M4	66.716 M4	66.755 M4
Grid 7	Grid 8	Grid 9
56.044 M4	65.974 M4	65.987 M4

Cursor:

Total = 66.755 V/m

E Category: M4

Location: -9.5, -3, 8.7 mm



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Date/Time: 3/23/2011 5:43:48 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA800_high_chan_Telecoil_Center

DUT: BlackBerry Smartphone; Type: Sample

Communication System: CDMA 800; ; Frequency: 848.52 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Telecoil cent/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 68.338 V/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 81.494 V/m; Power Drift = 0.08 dB

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

Author Data
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Peak E-field in V/m

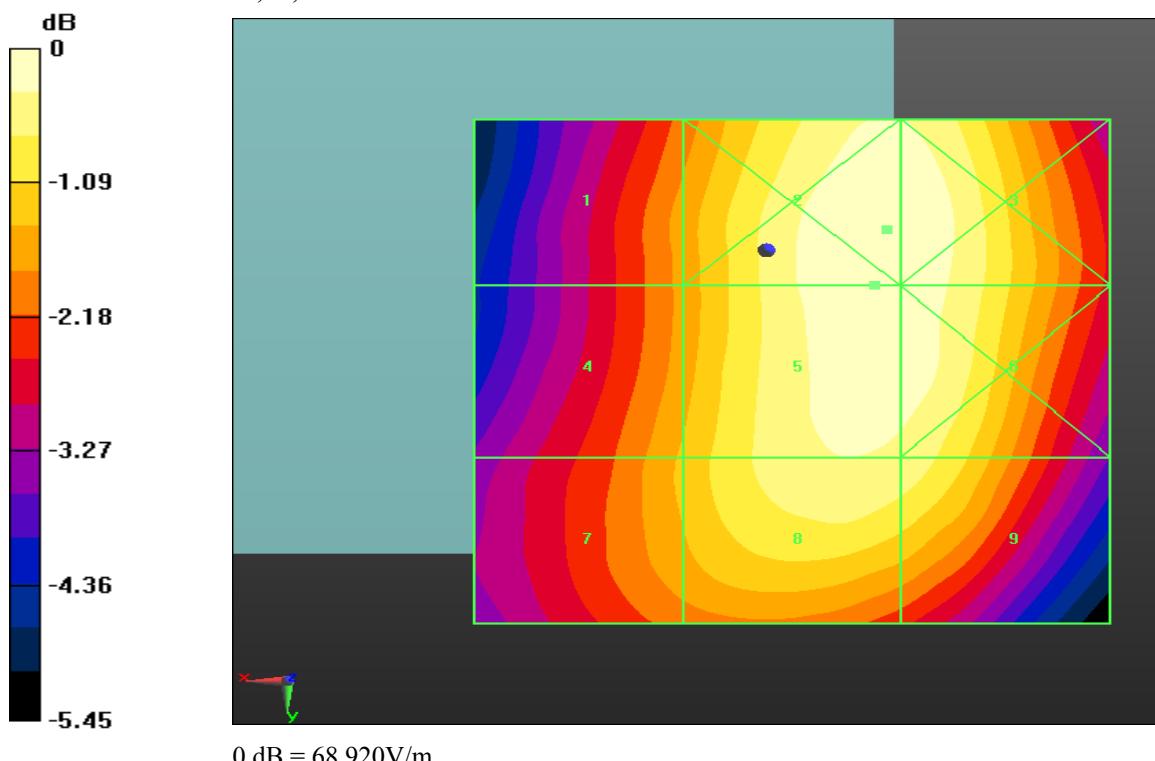
Grid 1	Grid 2	Grid 3
57.179 M4	68.919 M4	68.863 M4
Grid 4	Grid 5	Grid 6
58.849 M4	68.338 M4	68.100 M4
Grid 7	Grid 8	Grid 9
59.002 M4	66.118 M4	65.449 M4

Cursor:

Total = 68.919 V/m

E Category: M4

Location: -9.5, -2, 8.7 mm



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Date/Time: 3/23/2011 6:02:17 PM, Date/Time: 3/23/2011 6:10:14 PM, Date/Time: 3/23/2011 6:26:17 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA1900

DUT: BlackBerry Smartphone; Type: Sample

Communication System: CDMA 1900; ; Frequency: 1851.25 MHz, Frequency: 1880 MHz, Frequency: 1908.5 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 38.833 V/m

Probe Modulation Factor = 1.060

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 31.653 V/m; Power Drift = -0.27 dB

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

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Peak E-field in V/m

Grid 1 34.416 M4	Grid 2 31.153 M4	Grid 3 33.214 M4
Grid 4 31.627 M4	Grid 5 38.833 M4	Grid 6 40.747 M4
Grid 7 32.684 M4	Grid 8 43.564 M4	Grid 9 43.739 M4

Cursor:

Total = 43.738 V/m

E Category: M4

Location: -10.5, 25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2/Hearing Aid**

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 39.926 V/m

Probe Modulation Factor = 1.060

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 30.557 V/m; Power Drift = 0.03 dB

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

Peak E-field in V/m

Grid 1 34.963 M4	Grid 2 29.889 M4	Grid 3 32.594 M4
Grid 4 29.385 M4	Grid 5 39.926 M4	Grid 6 41.342 M4
Grid 7 32.233 M4	Grid 8 45.424 M4	Grid 9 45.533 M4

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Cursor:

Total = 45.533 V/m

E Category: M4

Location: -10, 24, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007:

15 mm from Probe Center to the Device 2 2/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 38.945 V/m

Probe Modulation Factor = 1.060

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 30.729 V/m; Power Drift = 0.28 dB

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

Peak E-field in V/m

Grid 1 34.127 M4	Grid 2 28.319 M4	Grid 3 28.934 M4
Grid 4 32.603 M4	Grid 5 38.945 M4	Grid 6 39.630 M4
Grid 7 33.799 M4	Grid 8 45.132 M4	Grid 9 45.137 M4

Cursor:

Total = 45.137 V/m

E Category: M4

Location: -9, 25, 8.7 mm

Author Data
Daoud Attayi

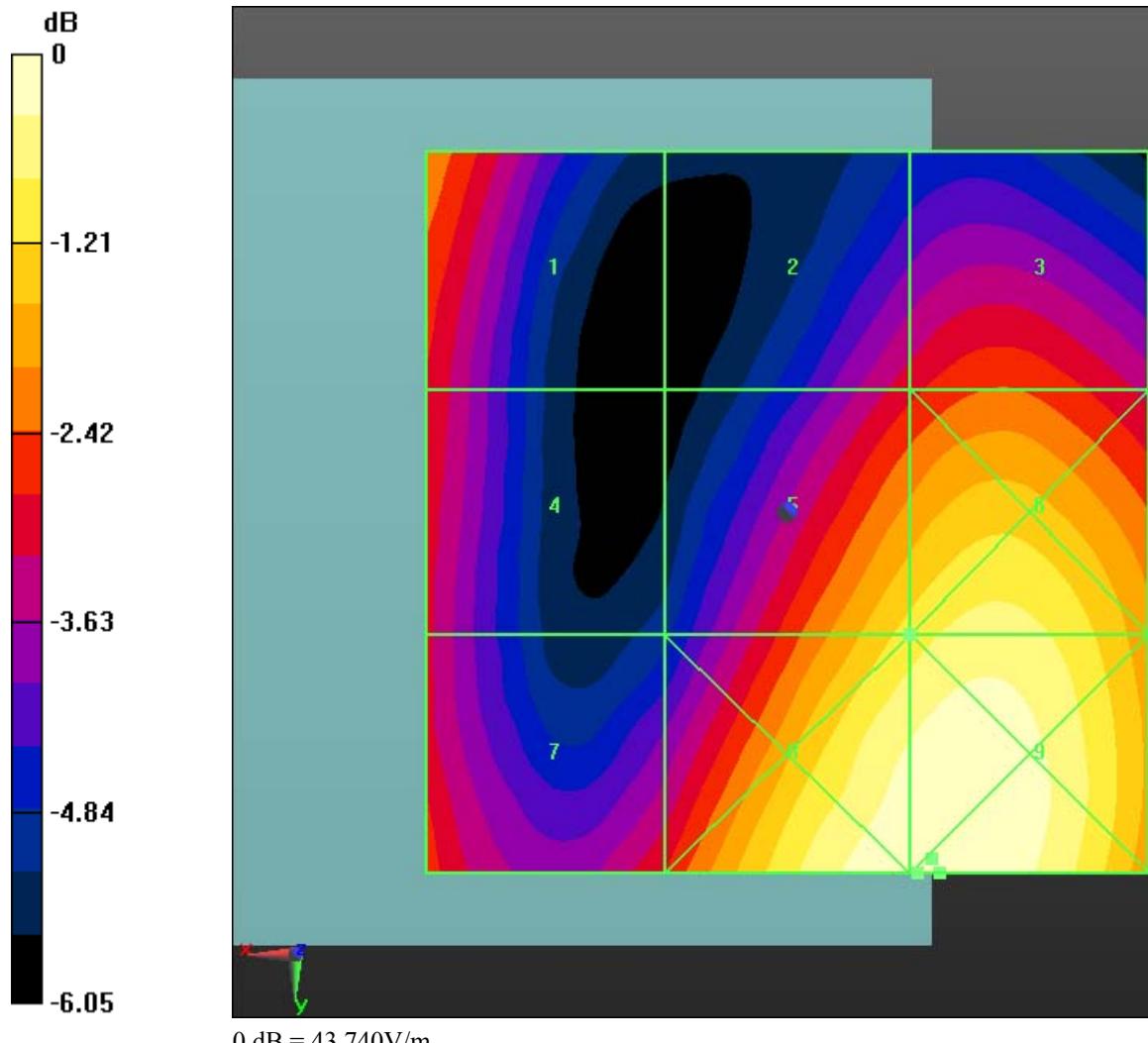
Dates of Test

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Date/Time: 3/23/2011 6:37:00 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA1900_mid_chan_Telecoil_Center

DUT: BlackBerry Smartphone; Type: Sample

Communication System: CDMA 1900; Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Telecoil cent/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 46.042 V/m

Probe Modulation Factor = 1.060

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 30.894 V/m; Power Drift = -0.06 dB

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



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Peak E-field in V/m

Grid 1	Grid 2	Grid 3
27.846 M4	38.794 M4	39.000 M4
Grid 4	Grid 5	Grid 6
34.722 M4	46.042 M4	45.978 M4
Grid 7	Grid 8	Grid 9
40.119 M4	46.442 M4	46.234 M4

Cursor:

Total = 46.442 V/m

E Category: M4

Location: -11.5, 22.5, 8.7 mm

Author Data
Daoud Attayi

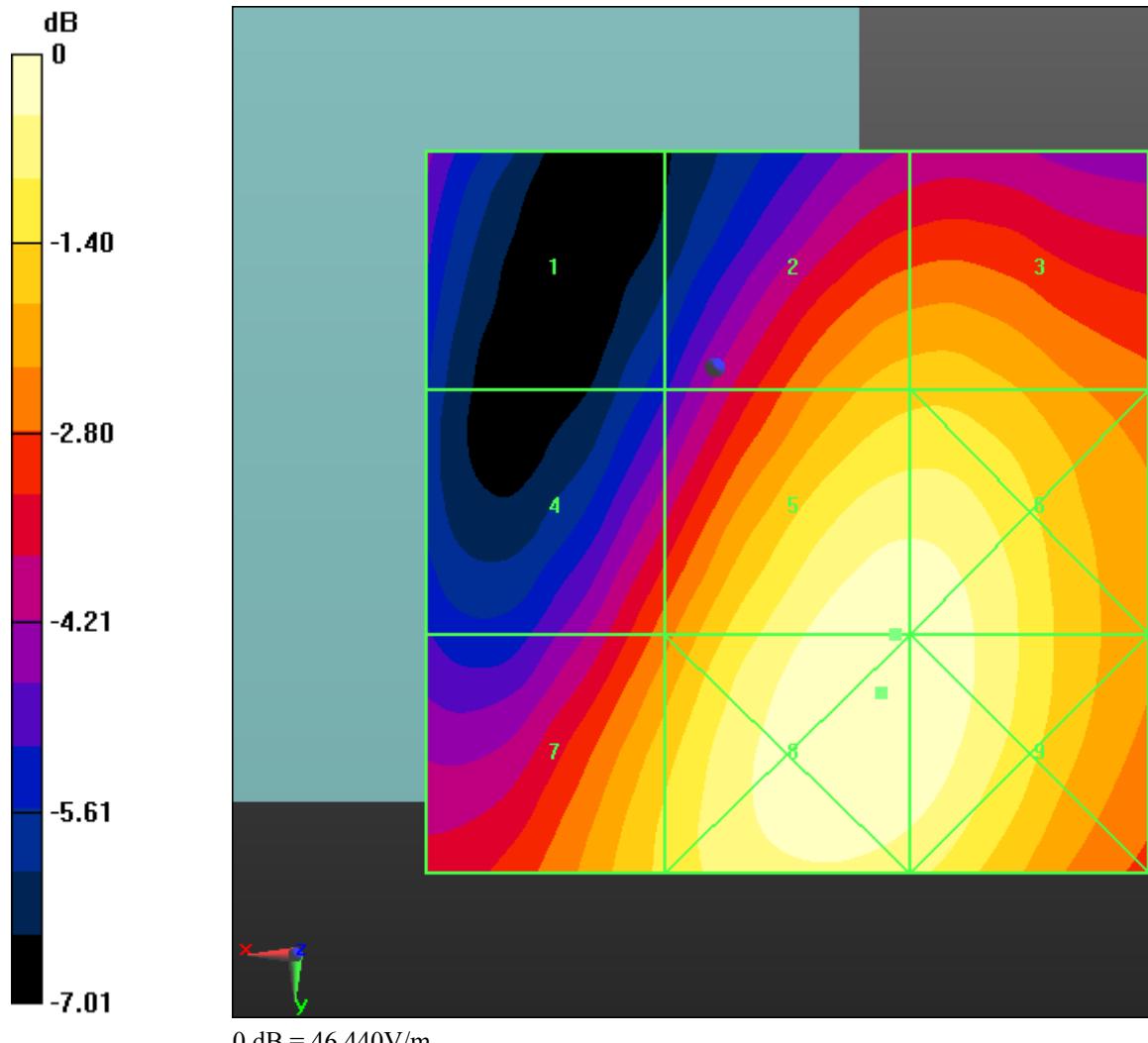
Dates of Test

Mar. 22-23, Apr. 28, 2011

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Date/Time: 3/23/2011 10:52:43 PM, Date/Time: 3/23/2011 10:56:48 PM, Date/Time: 3/23/2011 11:00:47 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM850

DUT: BlackBerry Smartphone; Type: Sample ;

Communication System: GSM 850; ; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.278 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.046 A/m; Power Drift = 0.21 dB

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



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Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.278 M4	0.200 M4	0.129 M4
Grid 4	Grid 5	Grid 6
0.238 M4	0.173 M4	0.106 M4
Grid 7	Grid 8	Grid 9
0.255 M4	0.183 M4	0.114 M4

Cursor:

Total = 0.278 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid**Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.332 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.058 A/m; Power Drift = 0.28 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.332 M4	0.252 M4	0.167 M4
Grid 4	Grid 5	Grid 6
0.286 M4	0.220 M4	0.141 M4
Grid 7	Grid 8	Grid 9
0.310 M4	0.233 M4	0.146 M4

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Cursor:

Total = 0.332 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.387 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.071 A/m; Power Drift = -0.35 dB

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

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Peak H-field in A/m

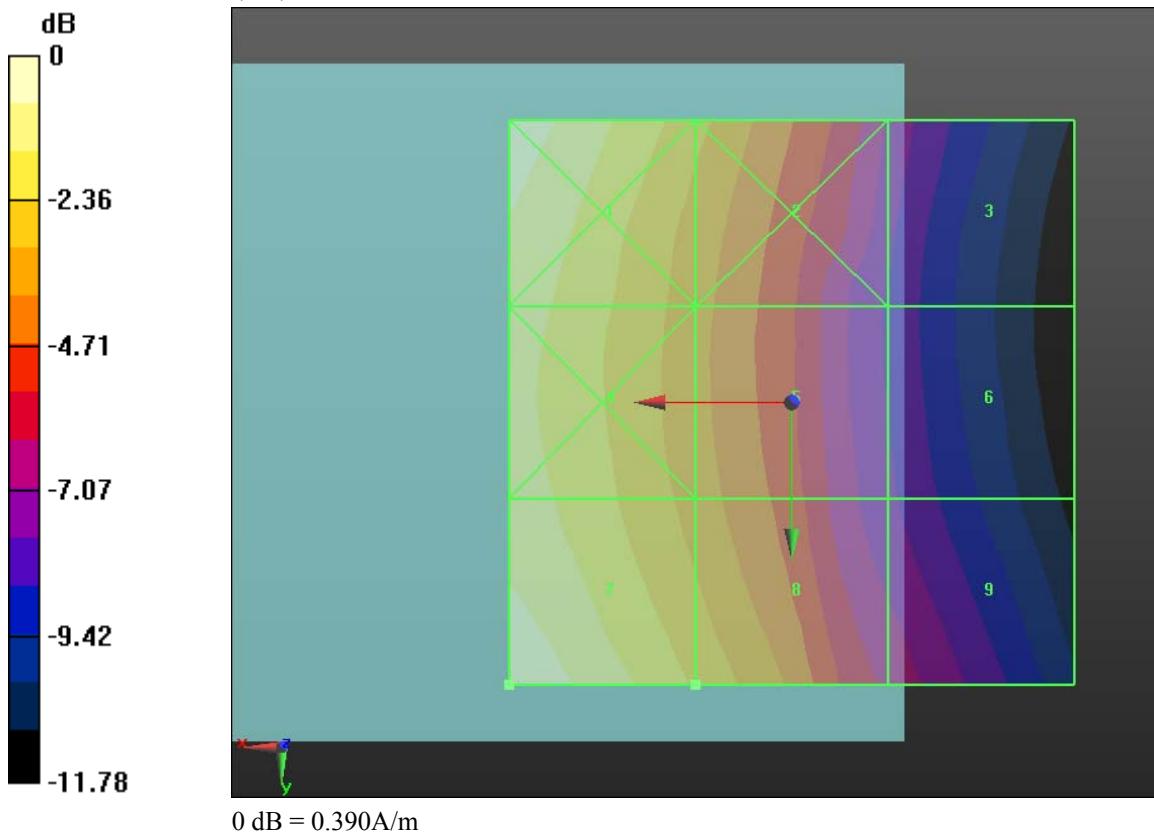
Grid 1	Grid 2	Grid 3
0.377 M4	0.281 M4	0.171 M4
Grid 4	Grid 5	Grid 6
0.342 M4	0.262 M4	0.162 M4
Grid 7	Grid 8	Grid 9
0.387 M4	0.294 M4	0.186 M4

Cursor:

Total = 0.387 A/m

H Category: M4

Location: 25, 25, 8.7 mm



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Date/Time: 3/23/2011 11:06:16 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM850_high_chan_Telecoil_Center

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 850; ; Frequency: 848.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.374 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.068 A/m; Power Drift = 0.17 dB

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

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Peak H-field in A/m

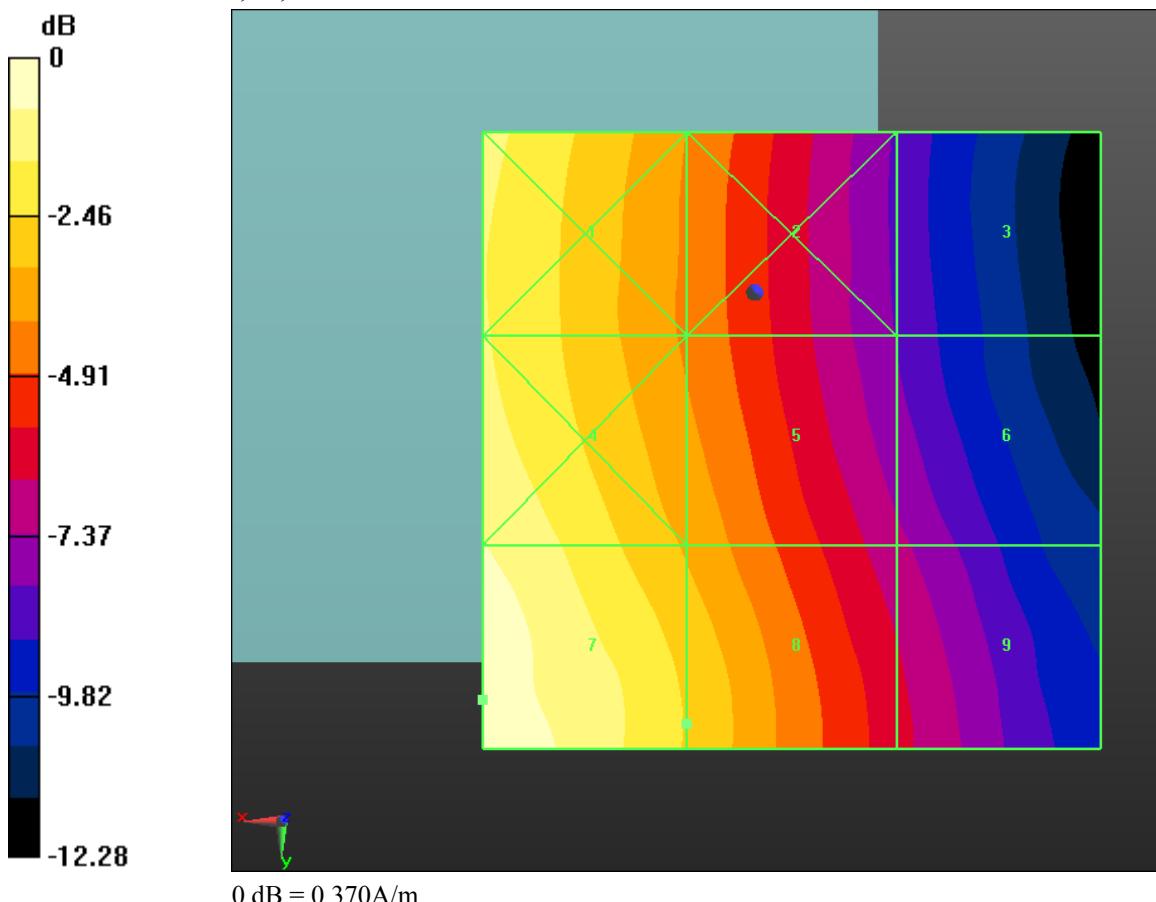
Grid 1	Grid 2	Grid 3
0.318 M4	0.231 M4	0.144 M4
Grid 4	Grid 5	Grid 6
0.338 M4	0.251 M4	0.163 M4
Grid 7	Grid 8	Grid 9
0.374 M4	0.277 M4	0.181 M4

Cursor:

Total = 0.374 A/m

H Category: M4

Location: 22, 33, 8.7 mm



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Date/Time: 3/23/2011 11:13:00 PM, Date/Time: 3/23/2011 11:16:23 PM, Date/Time: 3/23/2011 11:19:51 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM1900

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 1900; ; Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.200 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.061 A/m; Power Drift = 0.63 dB

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



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FCC ID

**L6ARDU70CW
L6ARDE70UW**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.197 M3	0.186 M3	0.163 M3
Grid 4	Grid 5	Grid 6
0.221 M3	0.200 M3	0.157 M3

Cursor:

Total = 0.261 A/m

H Category: M2

Location: 25, 25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid**Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.242 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.075 A/m; Power Drift = 0.15 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.223 M3	0.218 M3	0.193 M3
Grid 4	Grid 5	Grid 6
0.259 M2	0.242 M3	0.194 M3

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Cursor:

Total = 0.306 A/m

H Category: M2

Location: 24.5, 25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.226 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.073 A/m; Power Drift = -0.14 dB

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

Author Data
Daoud Attayi

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RTS-2580-1106-36

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Peak H-field in A/m

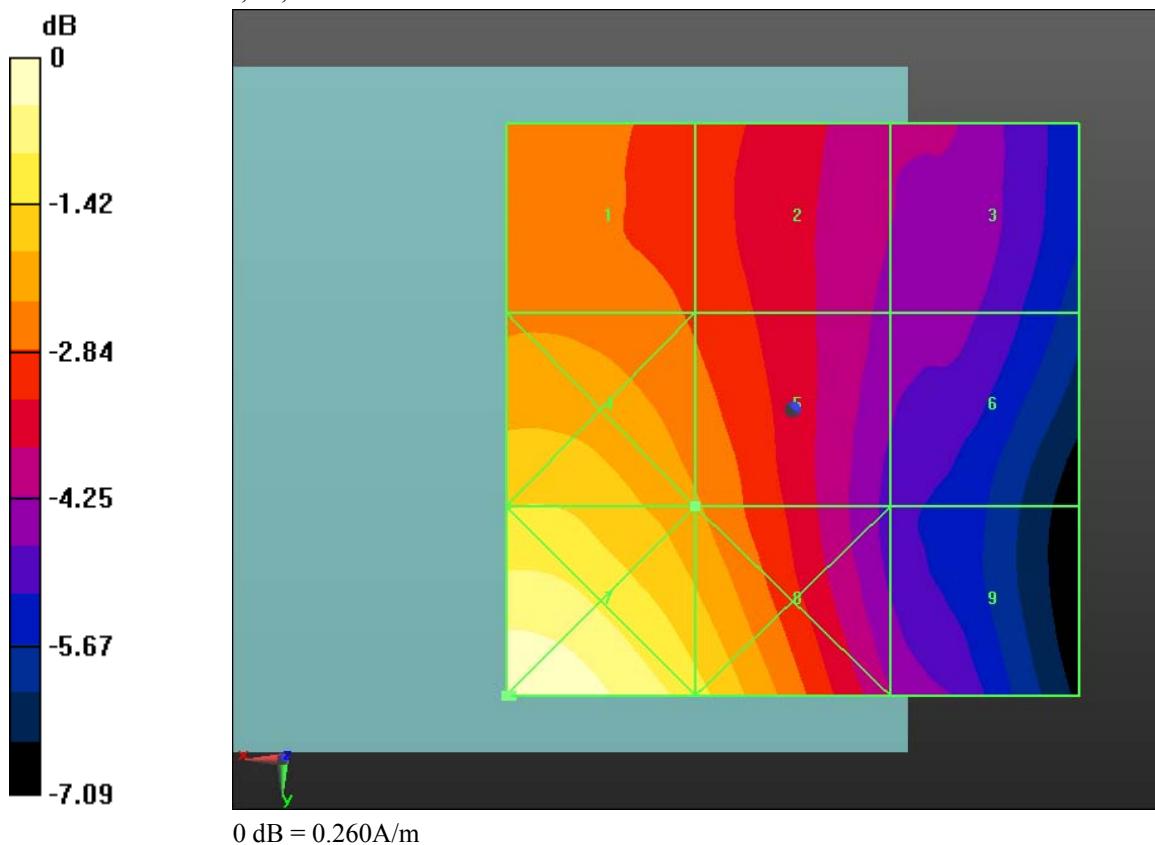
Grid 1	Grid 2	Grid 3
0.200 M3	0.197 M3	0.170 M3
Grid 4	Grid 5	Grid 6
0.240 M3	0.226 M3	0.172 M3
Grid 7	Grid 8	Grid 9
0.299 M2	0.264 M2	0.181 M3

Cursor:

Total = 0.299 A/m

H Category: M2

Location: 25, 25, 8.7 mm



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Date/Time: 4/27/2011 3:05:33 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM1900_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 1900; .; Frequency: 1880 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.213 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.065 A/m; Power Drift = 0.10 dB

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

Author Data
Daoud Attayi

Dates of Test

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Peak H-field in A/m

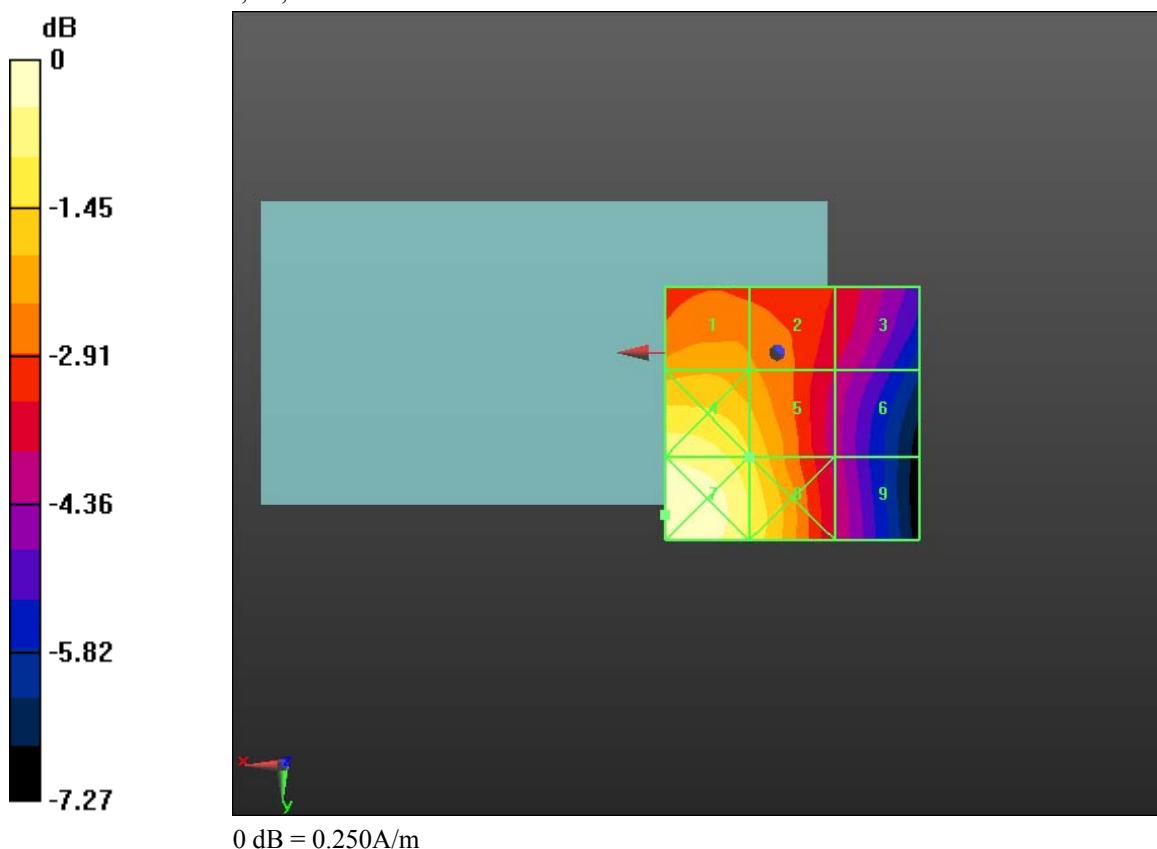
Grid 1 0.199 M3	Grid 2 0.192 M3	Grid 3 0.169 M3
Grid 4 0.234 M3	Grid 5 0.213 M3	Grid 6 0.160 M3
Grid 7 0.254 M2	Grid 8 0.223 M3	Grid 9 0.161 M3

Cursor:

Total = 0.254 A/m

H Category: M2

Location: 22, 32, 8.7 mm



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Date/Time: 3/23/2011 9:54:08 PM, Date/Time: 3/23/2011 9:58:10 PM, Date/Time: 3/23/2011 10:01:52 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA800

DUT: BlackBerry Smartphone; Type: Sample

Communication System: CDMA 800; Frequency: 824.7 MHz, Frequency: 836.52 MHz, Frequency: 848.52 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.049 A/m

Probe Modulation Factor = 1.040

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.019 A/m; Power Drift = 1.06 dB

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



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FCC ID

**L6ARDU70CW
L6ARDE70UW**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.049 M4	0.034 M4	0.019 M4
Grid 4	Grid 5	Grid 6
0.041 M4	0.028 M4	0.017 M4
Grid 7	Grid 8	Grid 9
0.040 M4	0.030 M4	0.018 M4

Cursor:

Total = 0.049 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid**Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.051 A/m

Probe Modulation Factor = 1.040

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.025 A/m; Power Drift = -0.16 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.051 M4	0.041 M4	0.025 M4
Grid 4	Grid 5	Grid 6
0.050 M4	0.036 M4	0.024 M4
Grid 7	Grid 8	Grid 9
0.050 M4	0.037 M4	0.025 M4

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Cursor:

Total = 0.051 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.047 A/m

Probe Modulation Factor = 1.040

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.030 A/m; Power Drift = 0.99 dB

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

Author Data
Daoud Attayi

Dates of Test

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FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.055 M4	0.047 M4	0.030 M4
Grid 4	Grid 5	Grid 6
0.052 M4	0.042 M4	0.027 M4

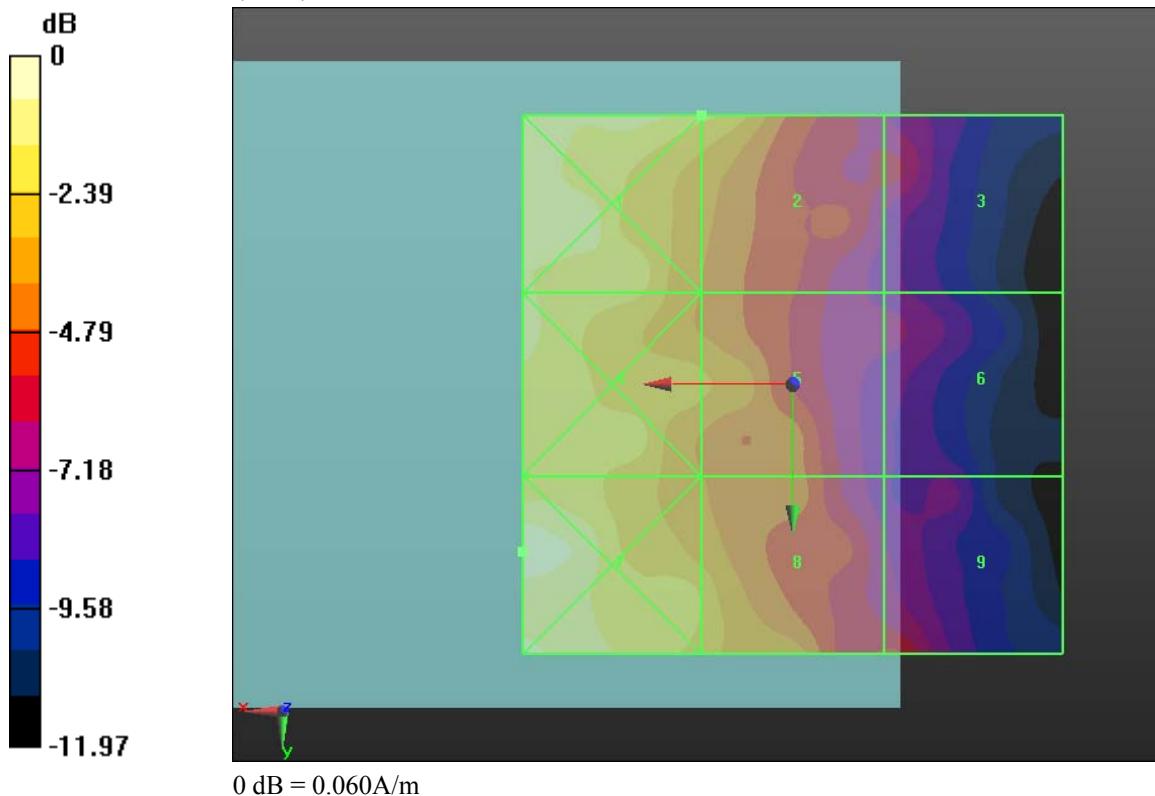
Grid 7	Grid 8	Grid 9
0.058 M4	0.046 M4	0.033 M4

Cursor:

Total = 0.058 A/m

H Category: M4

Location: 25, 15.5, 8.7 mm



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Date/Time: 3/23/2011 10:07:55 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA800_mid_chan_Telecoil_Center

DUT: BlackBerry Smartphone; Type: Sample

Communication System: CDMA 800; Communication System Band:; Frequency: 836.52 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.052 A/m

Probe Modulation Factor = 1.040

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.024 A/m; Power Drift = 1.07 dB

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

Author Data
Daoud Attayi

Dates of Test

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Peak H-field in A/m

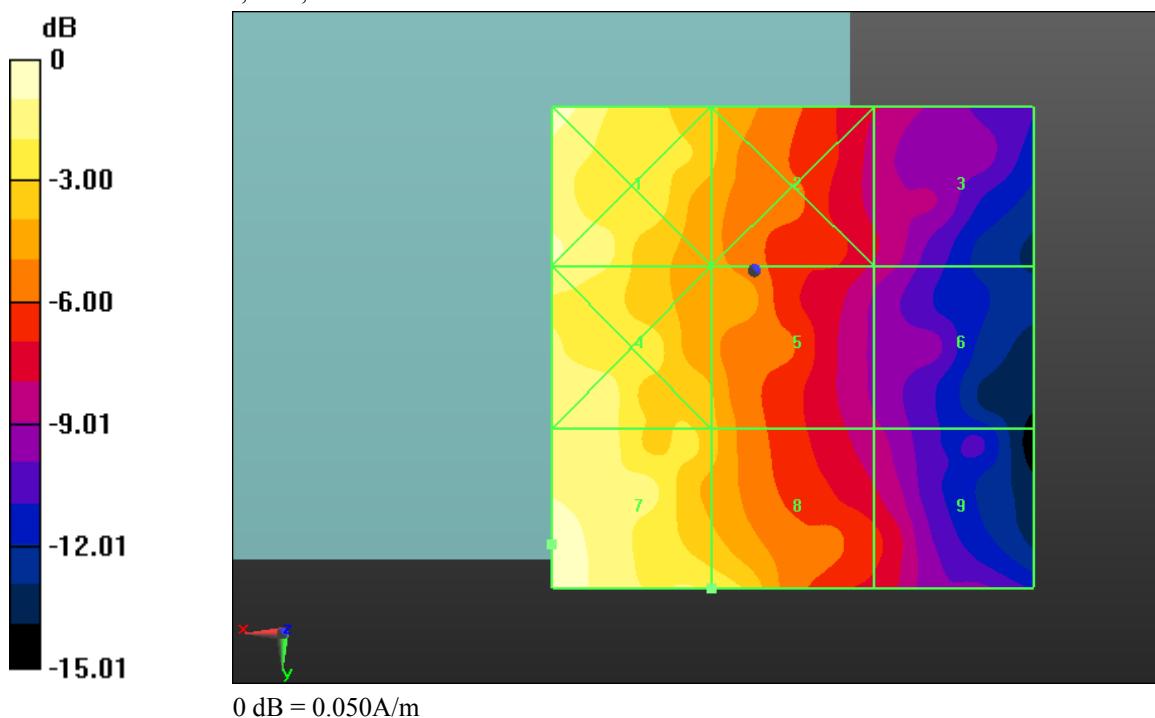
Grid 1 0.050 M4	Grid 2 0.033 M4	Grid 3 0.020 M4
Grid 4 0.044 M4	Grid 5 0.033 M4	Grid 6 0.020 M4
Grid 7 0.052 M4	Grid 8 0.039 M4	Grid 9 0.023 M4

Cursor:

Total = 0.052 A/m

H Category: M4

Location: 21, 28.5, 8.7 mm



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Date/Time: 3/23/2011 10:15:39 PM, Date/Time: 3/23/2011 10:28:50 PM, Date/Time: 3/23/2011 10:34:20 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA1900

DUT: BlackBerry Smartphone; Type: Sample

Communication System: CDMA 1900;; Frequency: 1851.25 MHz, Frequency: 1880 MHz, Frequency: 1908.5 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.037 A/m

Probe Modulation Factor = 1.040

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.031 A/m; Power Drift = -0.02 dB

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



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Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.036 M4	0.035 M4	0.031 M4
Grid 4	Grid 5	Grid 6
0.041 M4	0.037 M4	0.030 M4
Grid 7	Grid 8	Grid 9
0.047 M4	0.042 M4	0.029 M4

Cursor:

Total = 0.047 A/m

H Category: M4

Location: 22.5, 25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid**Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.121 A/m

Probe Modulation Factor = 1.040

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.105 A/m; Power Drift = -0.02 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.111 M4	0.108 M4	0.094 M4
Grid 4	Grid 5	Grid 6
0.130 M4	0.121 M4	0.094 M4
Grid 7	Grid 8	Grid 9
0.152 M4	0.135 M4	0.096 M4

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Cursor:

Total = 0.152 A/m

H Category: M4

Location: 25, 25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.120 A/m

Probe Modulation Factor = 1.040

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.104 A/m; Power Drift = 0.03 dB

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

Author Data
Daoud Attayi

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 FCC ID
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Peak H-field in A/m

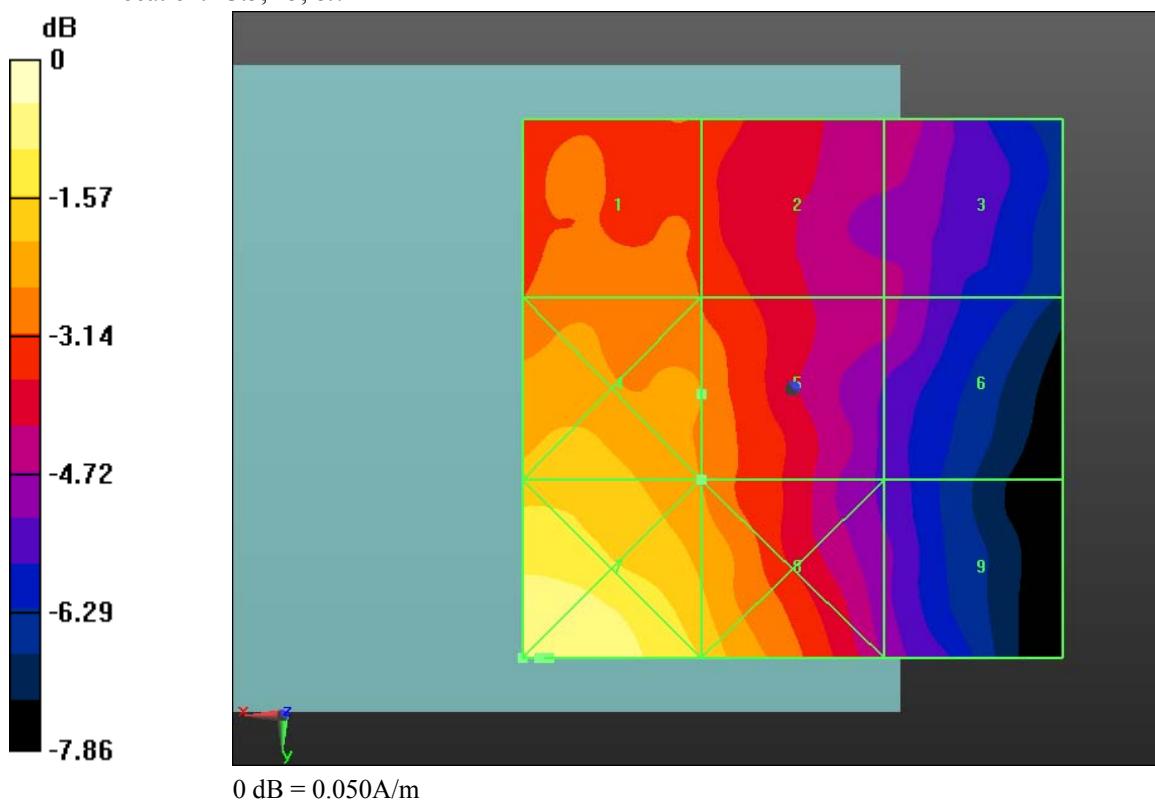
Grid 1	Grid 2	Grid 3
0.103 M4	0.103 M4	0.092 M4
Grid 4	Grid 5	Grid 6
0.127 M4	0.120 M4	0.094 M4
Grid 7	Grid 8	Grid 9
0.156 M4	0.139 M4	0.097 M4

Cursor:

Total = 0.156 A/m

H Category: M4

Location: 23.5, 25, 8.7 mm



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Date/Time: 3/23/2011 10:40:20 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA1900_mid_chan_Telecoil_Center

DUT: BlackBerry Smartphone; Type: Sample

Communication System: CDMA 1900; Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.105 A/m

Probe Modulation Factor = 1.040

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.100 A/m; Power Drift = 0.08 dB

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

Author Data
Daoud Attayi

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L6ARDU70CW
L6ARDE70UW

Peak H-field in A/m

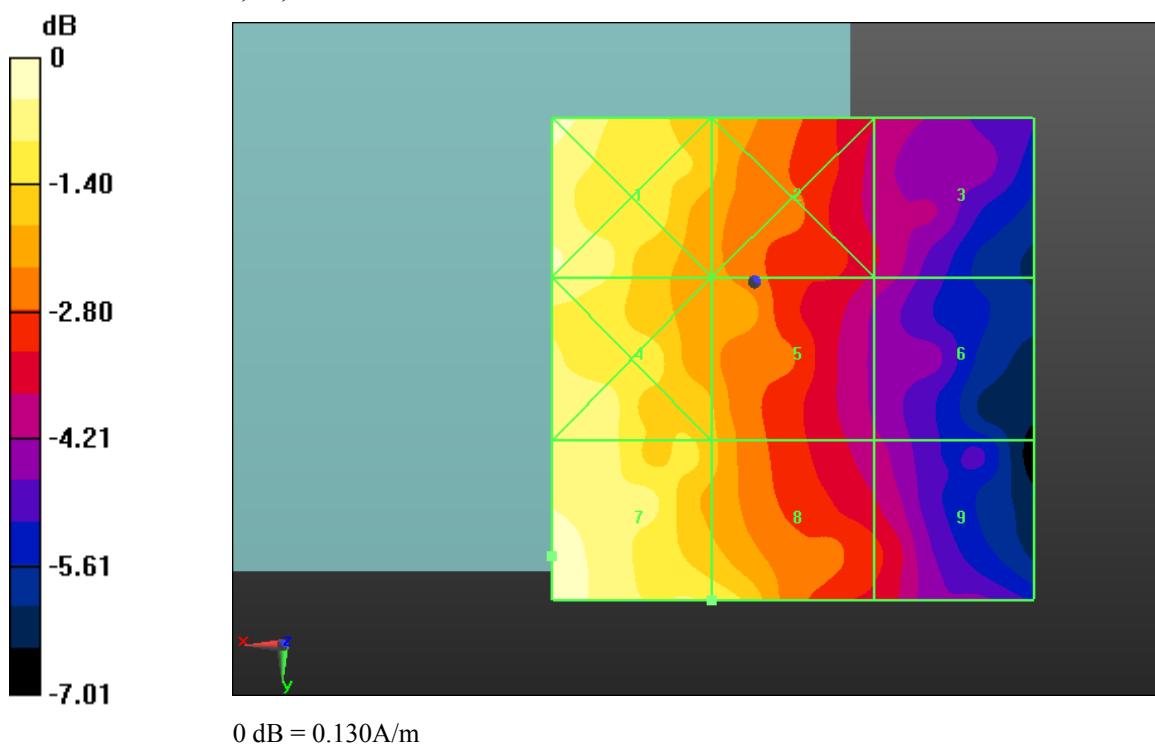
Grid 1 0.100 M4	Grid 2 0.097 M4	Grid 3 0.086 M4
Grid 4 0.113 M4	Grid 5 0.105 M4	Grid 6 0.087 M4
Grid 7 0.131 M4	Grid 8 0.113 M4	Grid 9 0.086 M4

Cursor:

Total = 0.131 A/m

H Category: M4

Location: 20, 15, 8.7 mm



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Date/Time: 4/28/2011 6:01:59 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_V_low_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD V;; Frequency: 826.4 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 53.150 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 63.044 V/m; Power Drift = -0.16 dB

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

Author Data
Daoud Attayi

Dates of Test

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FCC ID

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Peak E-field in V/m

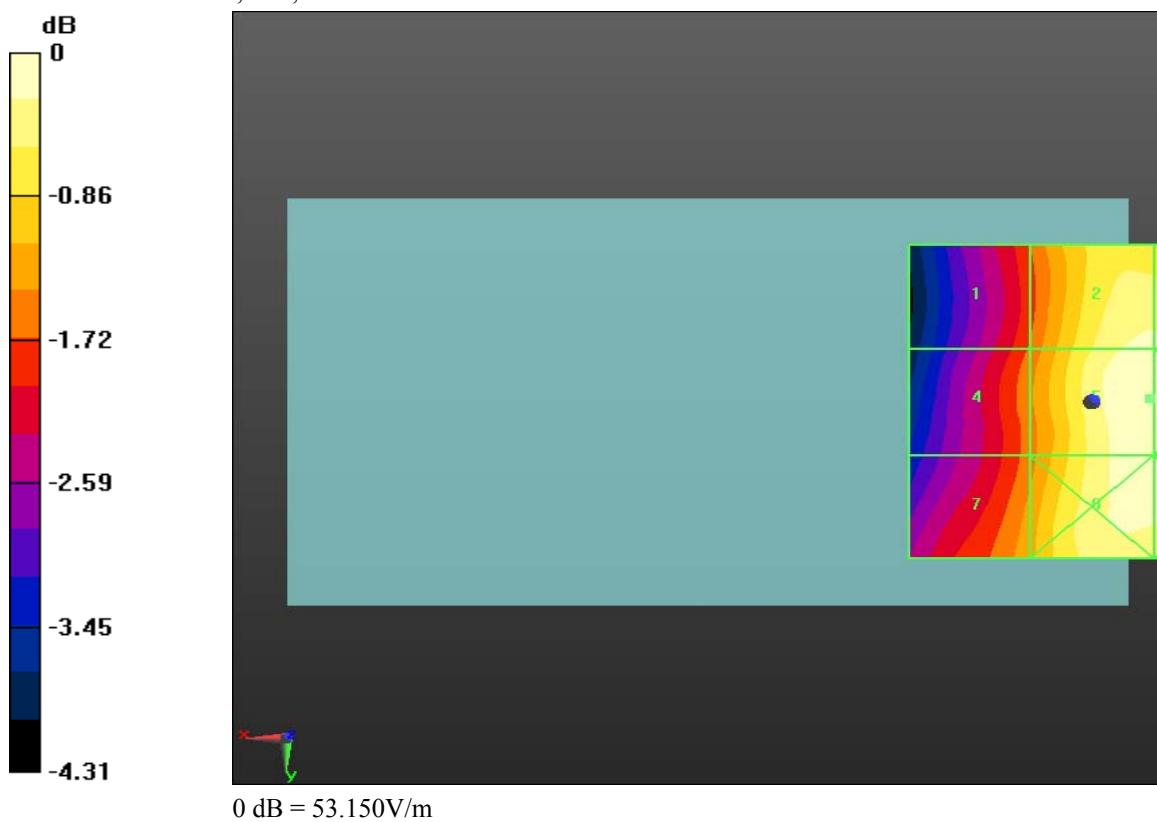
Grid 1	Grid 2	Grid 3
43.827 M4	52.082 M4	52.079 M4
Grid 4	Grid 5	Grid 6
44.778 M4	53.150 M4	53.136 M4
Grid 7	Grid 8	Grid 9
46.154 M4	52.479 M4	52.453 M4

Cursor:

Total = 53.150 V/m

E Category: M4

Location: -8, -0.5, 8.7 mm



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Date/Time: 4/28/2011 6:05:28 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_V_mid_chan

DUT: BlackBerry Smartphone; Type: Sample ;

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 58.048 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 66.643 V/m; Power Drift = 0.07 dB

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

Author Data
Daoud Attayi

Dates of Test

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FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak E-field in V/m

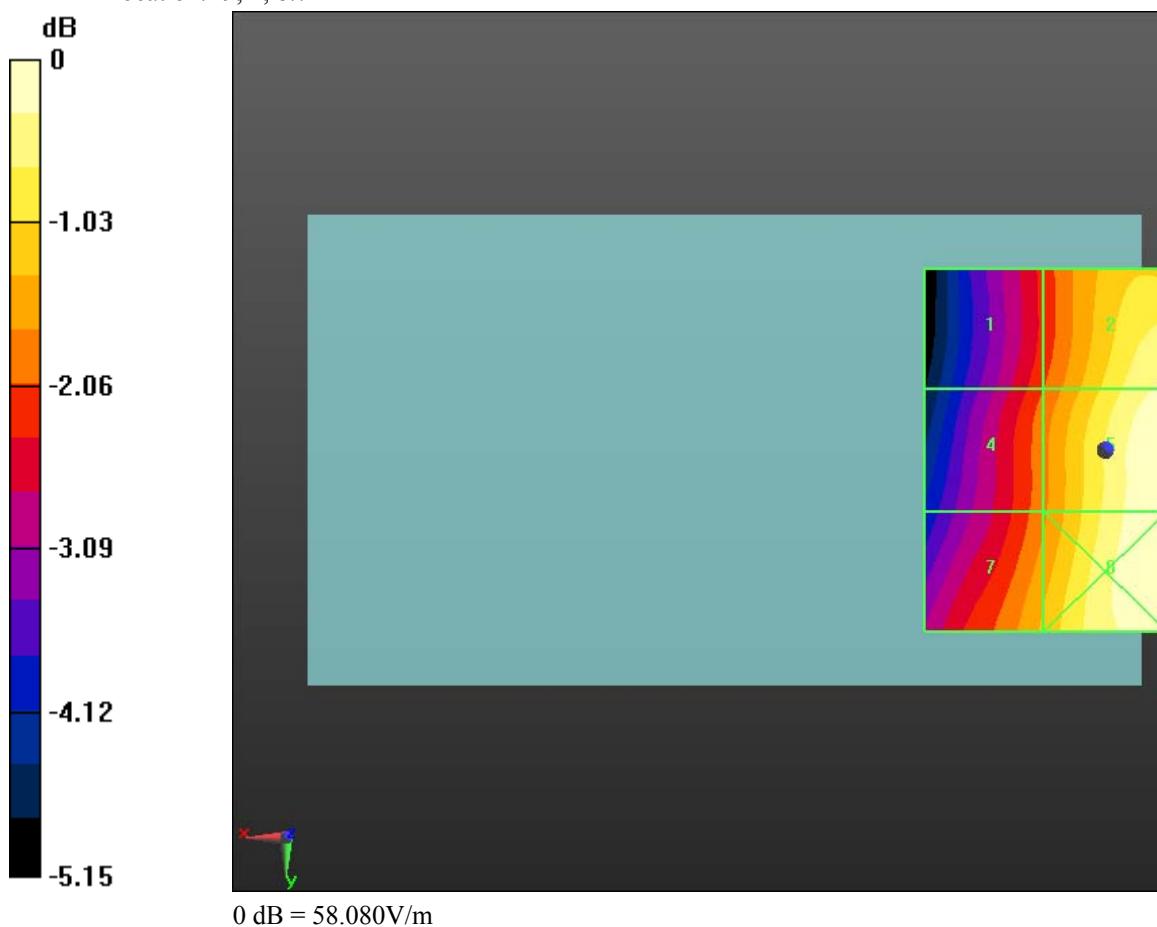
Grid 1	Grid 2	Grid 3
45.867 M4	56.235 M4	56.249 M4
Grid 4	Grid 5	Grid 6
47.353 M4	58.048 M4	58.085 M4
Grid 7	Grid 8	Grid 9
50.062 M4	57.881 M4	57.881 M4

Cursor:

Total = 58.085 V/m

E Category: M4

Location: -9, 1, 8.7 mm



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Date/Time: 4/28/2011 6:09:21 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_V_high_chan

DUT: BlackBerry Smartphone; Type: Sample ;

Communication System: WCDMA FDD V;; Frequency: 846.6 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 60.970 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 69.960 V/m; Power Drift = 0.10 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

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RTS-3933-1104-55A**RTS-2580-1106-36**

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Peak E-field in V/m

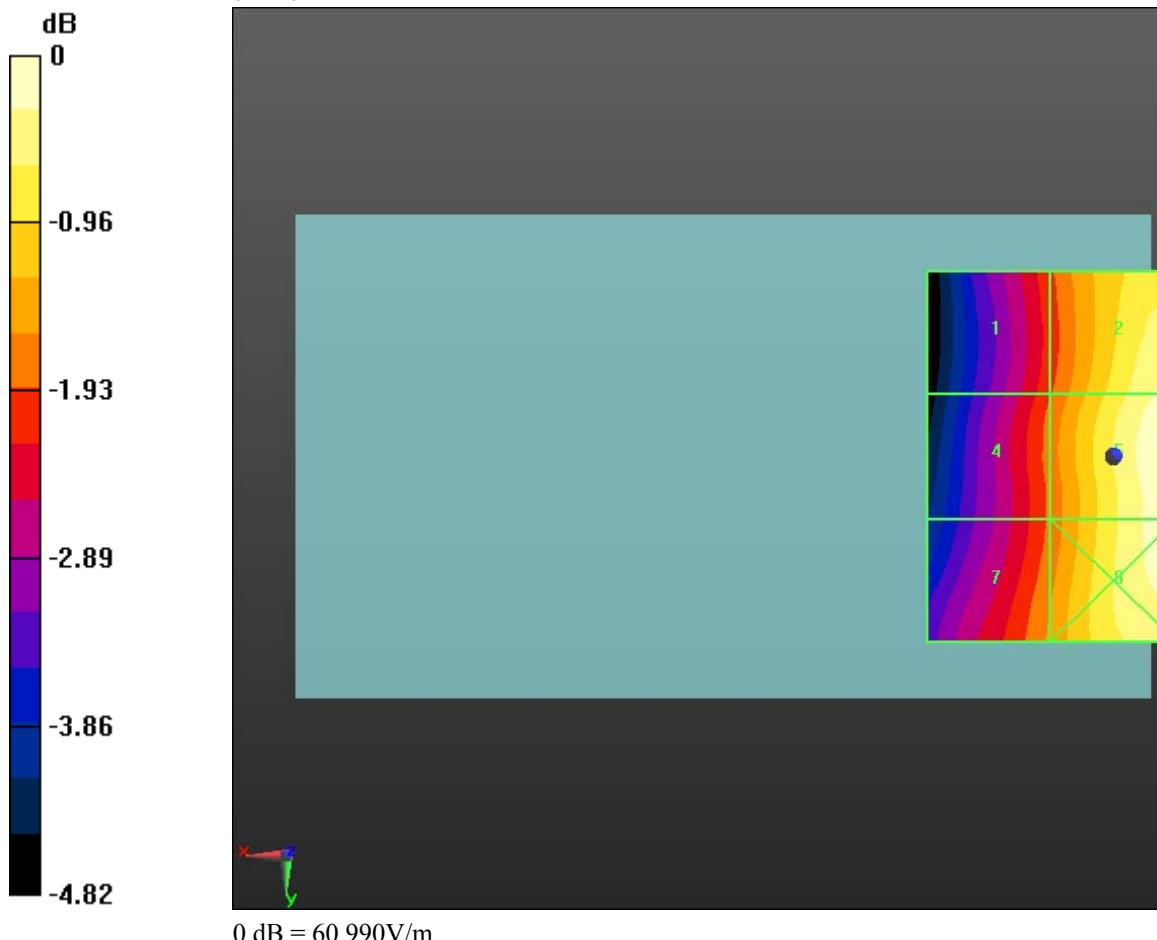
Grid 1 48.697 M4	Grid 2 59.549 M4	Grid 3 59.549 M4
Grid 4 49.795 M4	Grid 5 60.970 M4	Grid 6 60.985 M4
Grid 7 51.111 M4	Grid 8 59.782 M4	Grid 9 59.780 M4

Cursor:

Total = 60.985 V/m

E Category: M4

Location: -9, -0.5, 8.7 mm



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Date/Time: 4/28/2011 6:13:37 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_V_high_chan_telecoil_center

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD V;; Frequency: 846.6 MHz; Communication System PAR: 0 dB
 Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Telecoil cent/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 60.037 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 69.862 V/m; Power Drift = -0.10 dB

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

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Peak E-field in V/m

Grid 1 48.094 M4	Grid 2 57.445 M4	Grid 3 57.445 M4
Grid 4 49.292 M4	Grid 5 60.037 M4	Grid 6 60.045 M4
Grid 7 49.767 M4	Grid 8 59.932 M4	Grid 9 59.939 M4

Cursor:

Total = 60.045 V/m

E Category: M4

Location: -9, -2, 8.7 mm

Author Data
Daoud Attayi

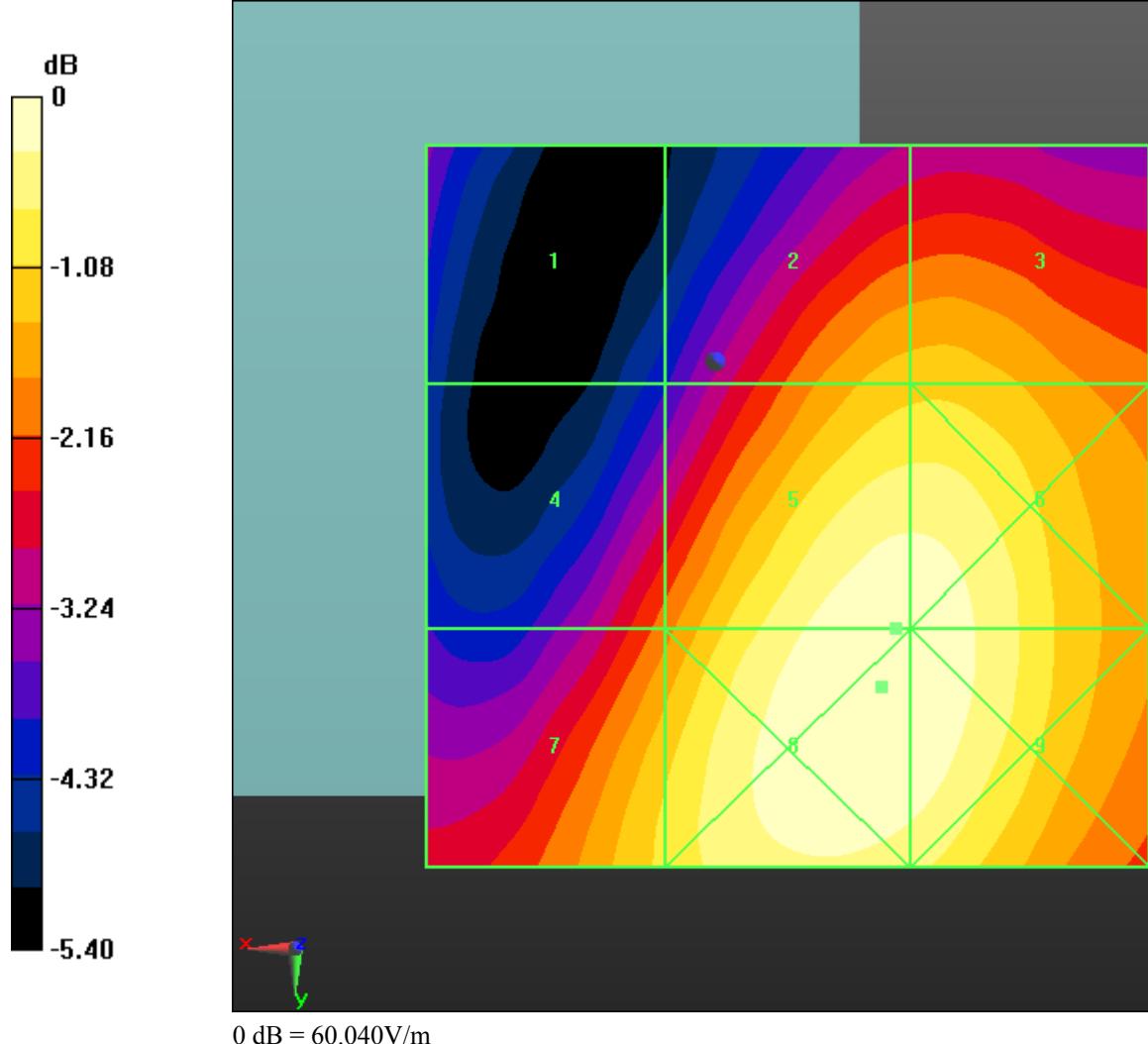
Dates of Test

Mar. 22-23, Apr. 28, 2011

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FCC ID

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Date/Time: 4/28/2011 6:27:09 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_II_low_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD II; ; Frequency: 1852.4 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 26.748 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.724 V/m; Power Drift = -0.08 dB

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



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FCC ID

**L6ARDU70CW
L6ARDE70UW**

Peak E-field in V/m

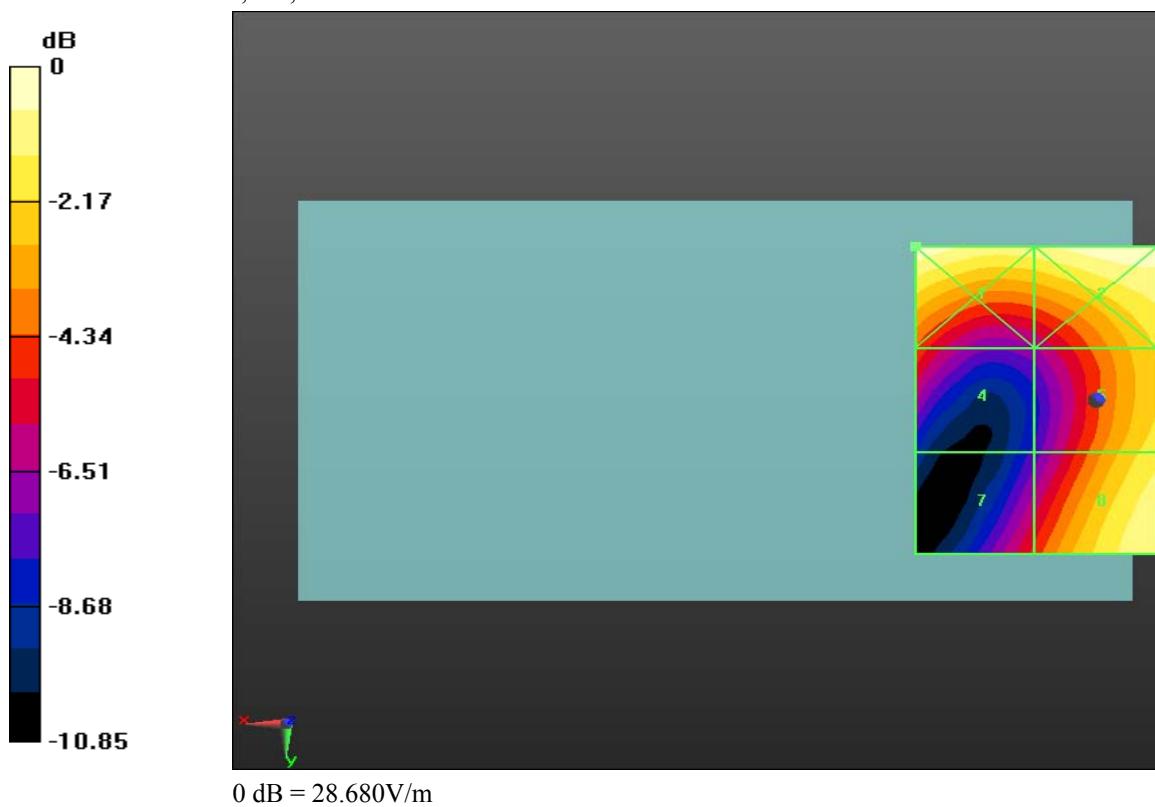
Grid 1	Grid 2	Grid 3
28.684 M4	28.195 M4	27.724 M4
Grid 4	Grid 5	Grid 6
17.480 M4	23.673 M4	25.140 M4
Grid 7	Grid 8	Grid 9
16.671 M4	26.458 M4	26.748 M4

Cursor:

Total = 28.684 V/m

E Category: M4

Location: 25, -25, 8.7 mm



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Date/Time: 4/28/2011 6:30:30 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_II_mid_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 25.642 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 15.839 V/m; Power Drift = 0.06 dB

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

Author Data
Daoud Attayi

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FCC ID

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Peak E-field in V/m

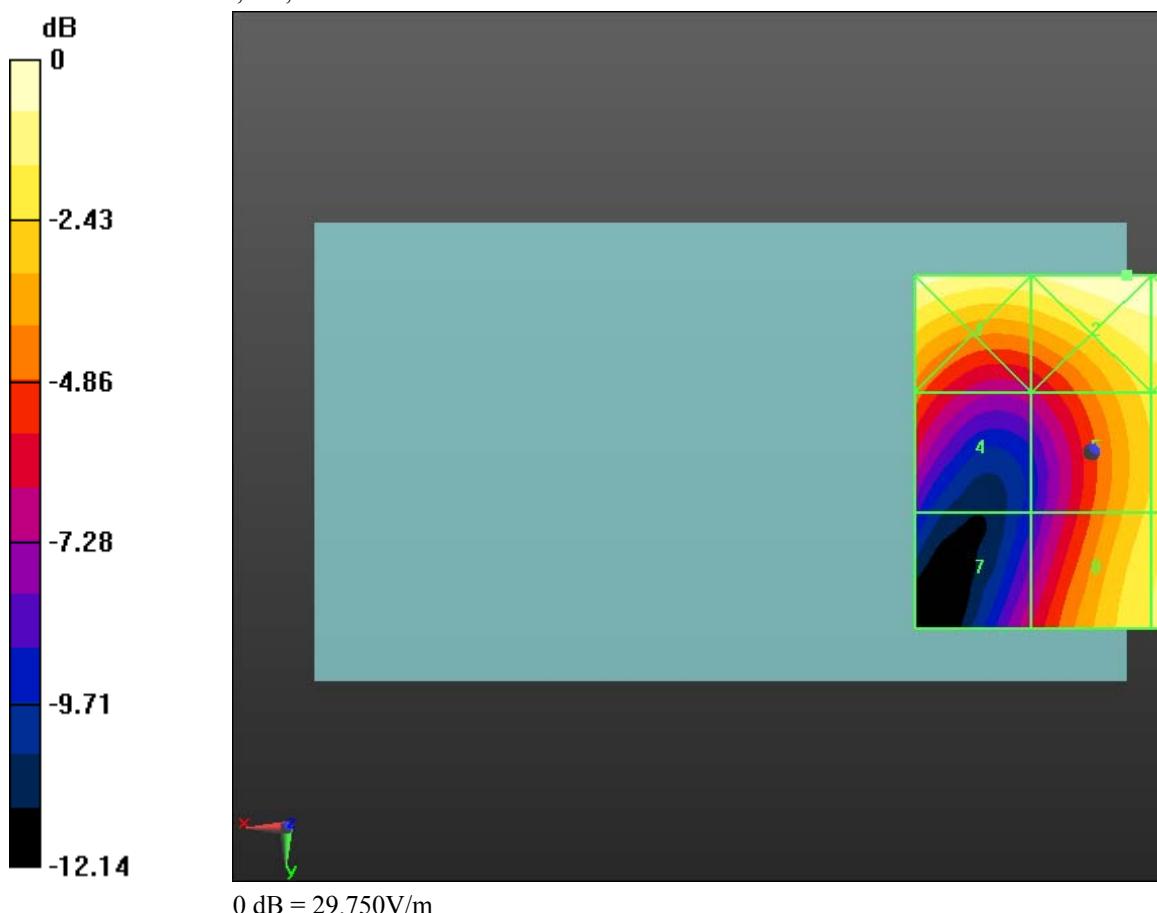
Grid 1	Grid 2	Grid 3
28.994 M4	29.755 M4	29.518 M4
Grid 4	Grid 5	Grid 6
18.013 M4	2013 M4	24.974 M4
Grid 7	Grid 8	Grid 9
14.336 M4	24.701 M4	25.642 M4

Cursor:

Total = 29.755 V/m

E Category: M4

Location: -5, -25, 8.7 mm



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Date/Time: 4/28/2011 6:36:20 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_II_high_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD II;; Frequency: 1907.6 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
 - Modulation Compensation: **Not calibrated**
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 22.382 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 13.813 V/m; Power Drift = 0.02 dB

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

Author Data
Daoud Attayi

Dates of Test

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Report No

RTS-3933-1104-55A**RTS-2580-1106-36**

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Peak E-field in V/m

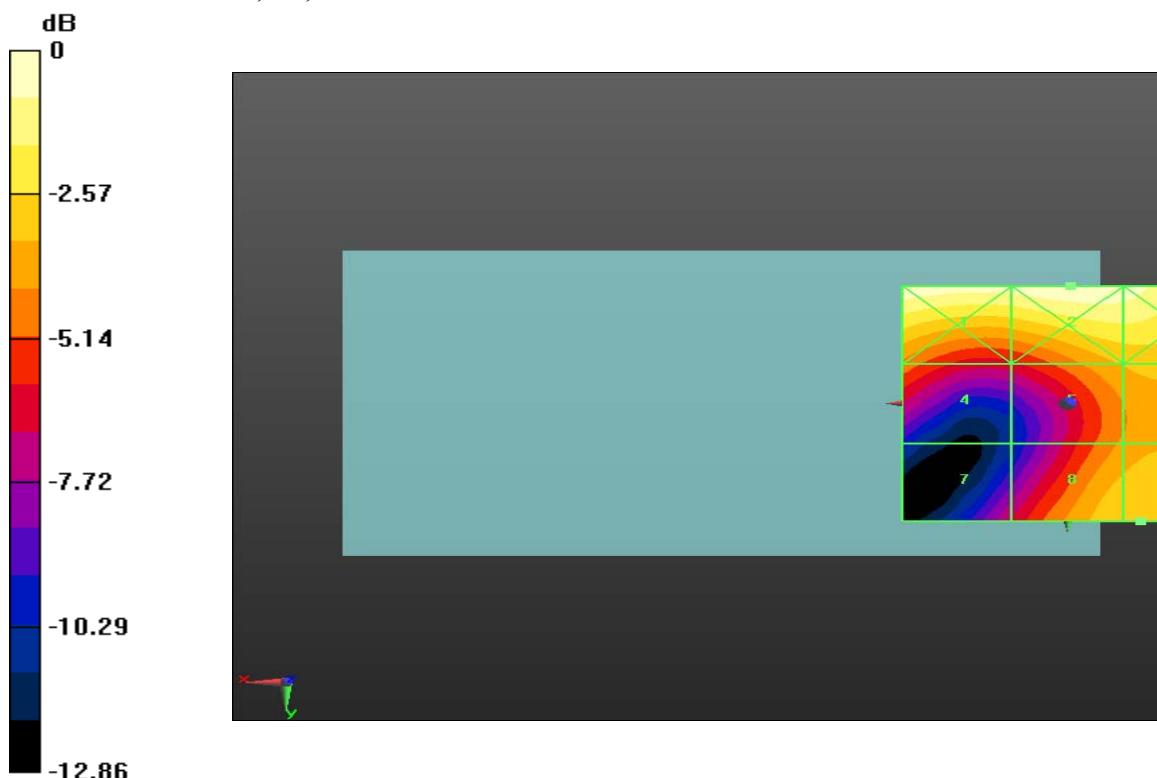
Grid 1	Grid 2	Grid 3
30.381 M4	30.457 M4	29.298 M4
Grid 4	Grid 5	Grid 6
18.154 M4	20.760 M4	21.349 M4
Grid 7	Grid 8	Grid 9
14.053 M4	22.160 M4	22.382 M4

Cursor:

Total = 30.457 V/m

E Category: M4

Location: -0.5, -25, 8.7 mm



0 dB = 30.460V/m

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Date/Time: 4/28/2011 6:52:00 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_II_low_chan_telecoil_center

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD II; ; Frequency: 1852.4 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Telecoil cent/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 26.169 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.654 V/m; Power Drift = -0.22 dB

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

Author Data
Daoud Attayi

Dates of Test

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FCC ID

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L6ARDE70UW

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
35.499 M4	33.617 M4	30.067 M4
Grid 4	Grid 5	Grid 6
22.228 M4	2077 M4	24.905 M4

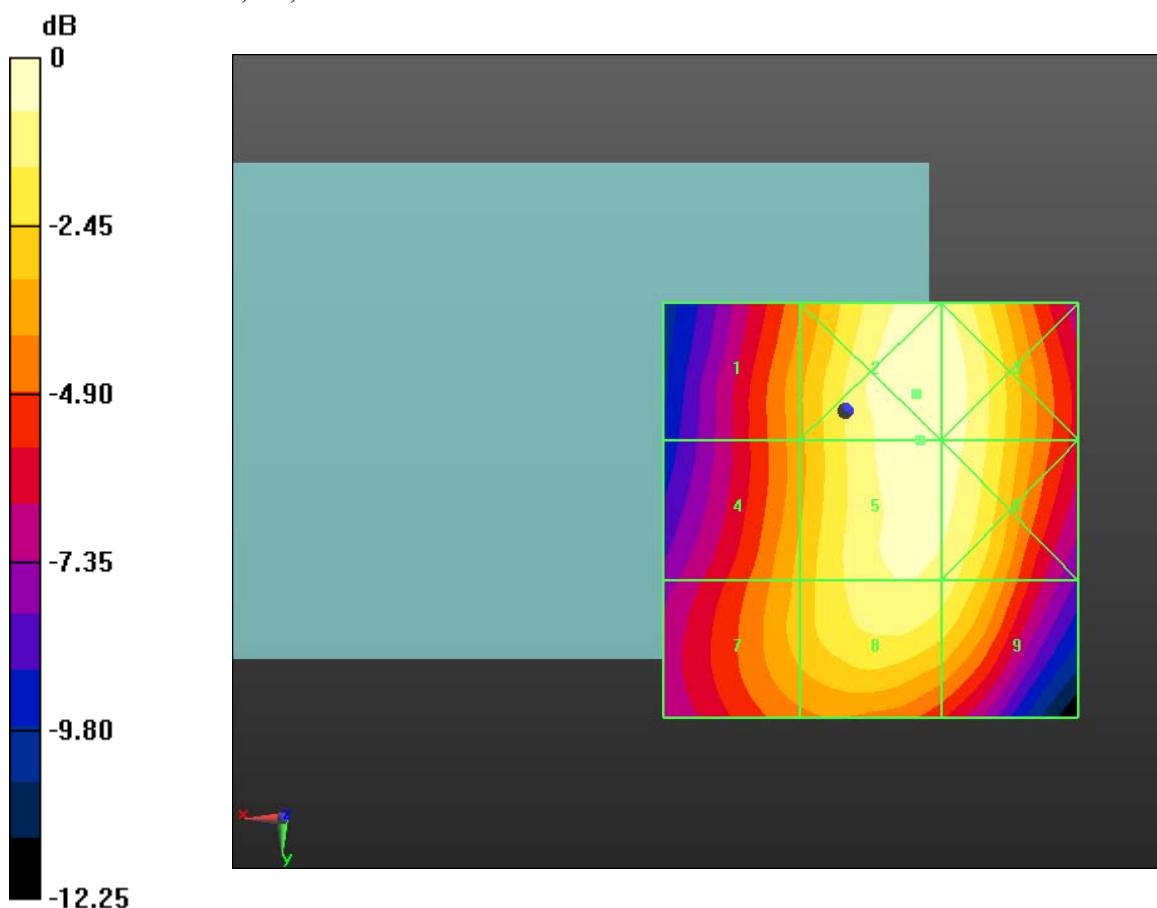
Grid 7	Grid 8	Grid 9
14.094 M4	25.345 M4	26.169 M4

Cursor:

Total = 35.499 V/m

E Category: M4

Location: 25, -33, 8.7 mm



0 dB = 35.500V/m

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Date/Time: 4/28/2011 8:13:17 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band V_low_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.102 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.048 A/m; Power Drift = 0.07 dB

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

Author Data
Daoud Attayi

Dates of Test

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FCC ID

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Peak H-field in A/m

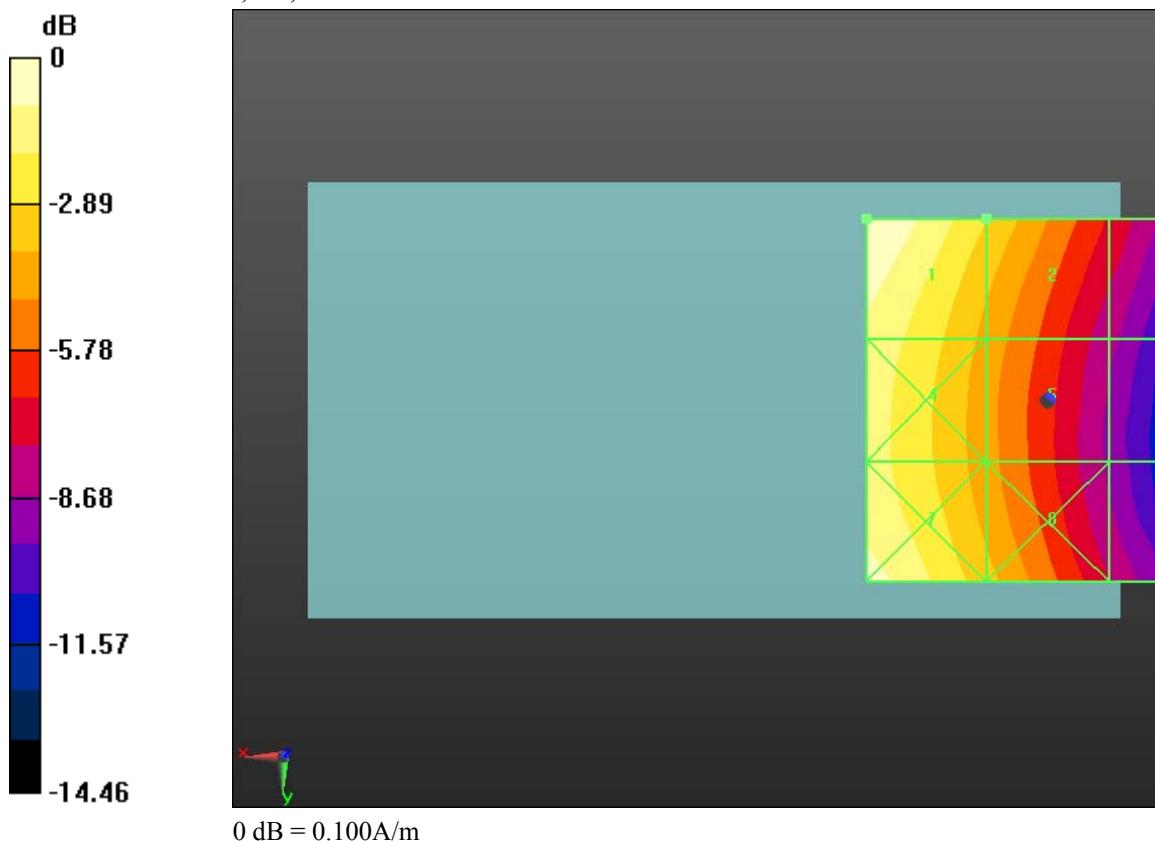
Grid 1	Grid 2	Grid 3
0.102 M4	0.072 M4	0.045 M4
Grid 4	Grid 5	Grid 6
0.088 M4	0.062 M4	0.038 M4
Grid 7	Grid 8	Grid 9
0.094 M4	0.067 M4	0.041 M4

Cursor:

Total = 0.102 A/m

H Category: M4

Location: 25, -25, 8.7 mm



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Date/Time: 4/28/2011 8:16:52 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band V_mid_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.111 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.055 A/m; Power Drift = 0.06 dB

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

Author Data
Daoud Attayi

Dates of Test

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RTS-3933-1104-55A**RTS-2580-1106-36**

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Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.111 M4	0.081 M4	0.054 M4
Grid 4	Grid 5	Grid 6
0.095 M4	0.071 M4	0.045 M4

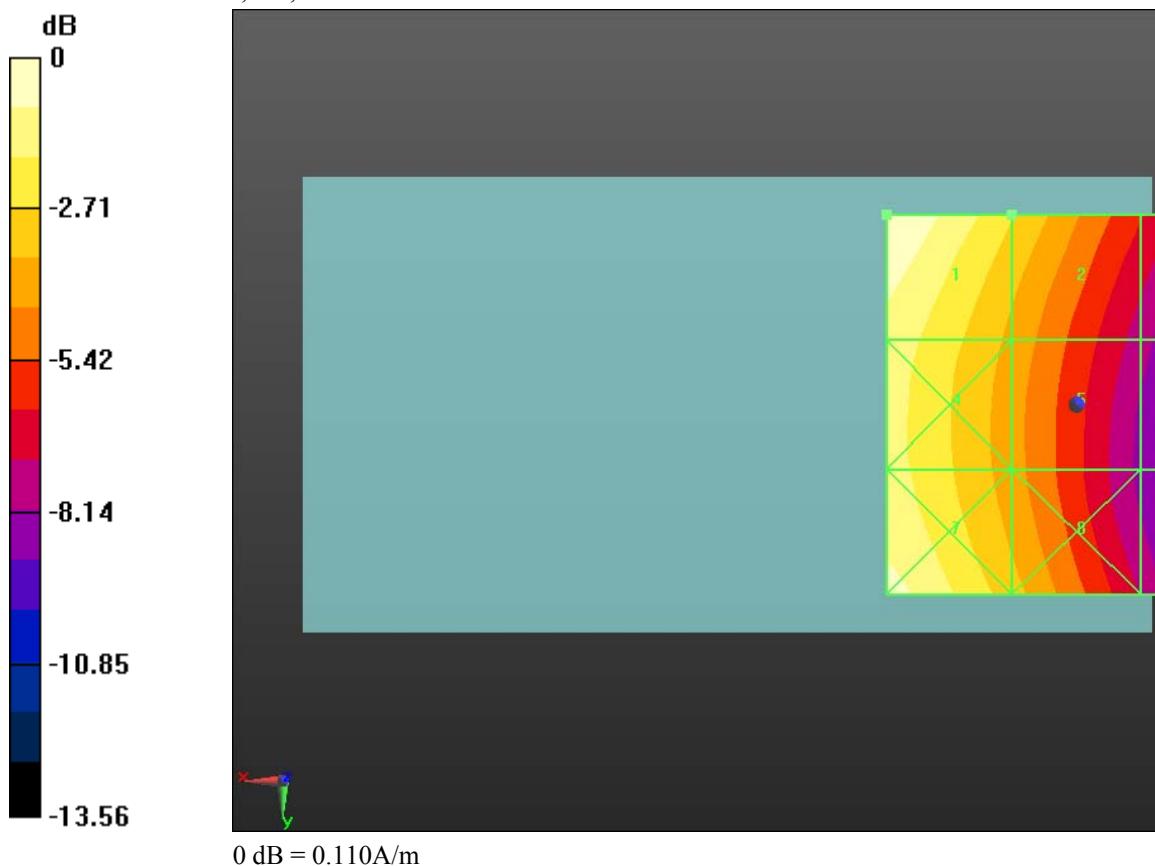
Grid 7	Grid 8	Grid 9
0.104 M4	0.076 M4	0.048 M4

Cursor:

Total = 0.111 A/m

H Category: M4

Location: 25, -25, 8.7 mm



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Date/Time: 4/28/2011 8:20:26 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band V_high_chan

DUT: BlackBerry Smartphone; Type: Sample ;

Communication System: WCDMA FDD V; ; Frequency: 846.6 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.120 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.066 A/m; Power Drift = -0.07 dB

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

Author Data
Daoud Attayi

Dates of Test

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FCC ID

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Peak H-field in A/m

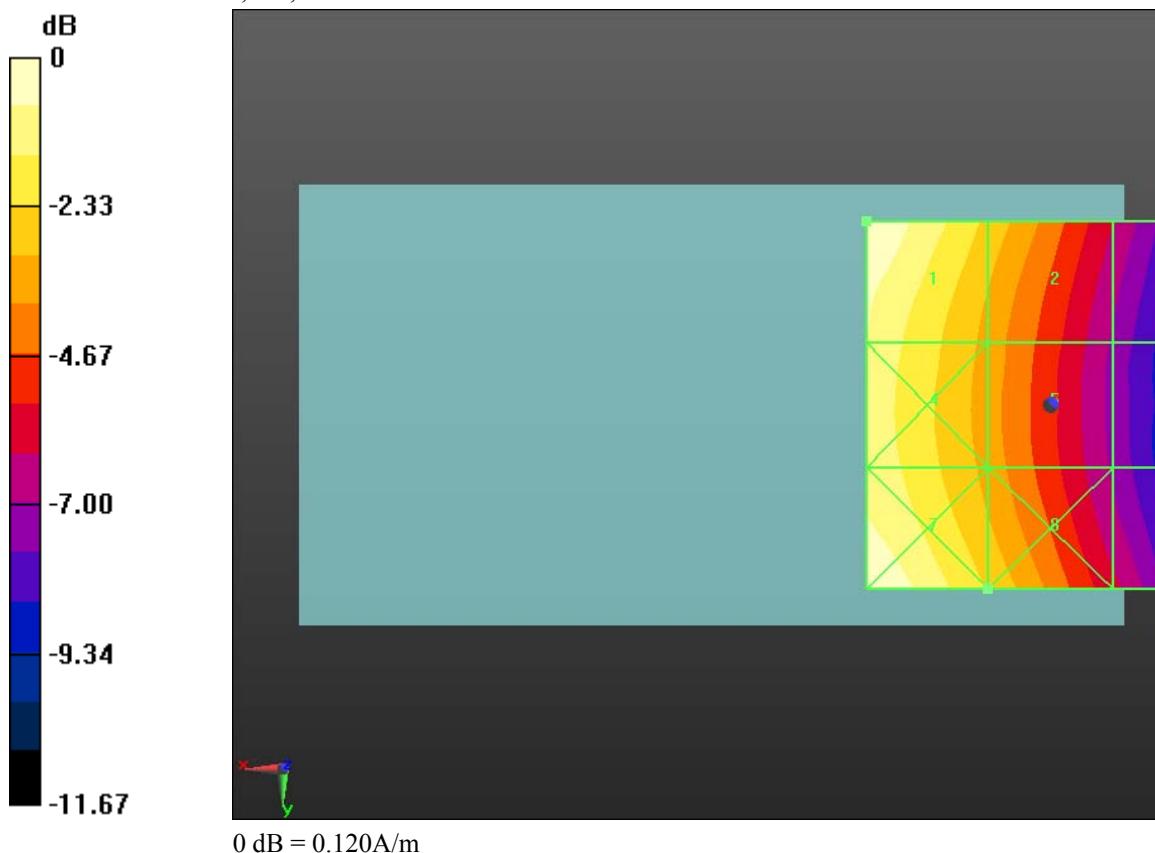
Grid 1	Grid 2	Grid 3
0.120 M4	0.090 M4	0.059 M4
Grid 4	Grid 5	Grid 6
0.110 M4	0.081 M4	0.053 M4
Grid 7	Grid 8	Grid 9
0.120 M4	0.091 M4	0.061 M4

Cursor:

Total = 0.120 A/m

H Category: M4

Location: 25, -25, 8.7 mm



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Date/Time: 4/28/2011 8:26:50 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band V_high_chan_telecoil_center

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.118 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.065 A/m; Power Drift = 0.10 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID

L6ARDU70CW
L6ARDE70UW

Peak H-field in A/m

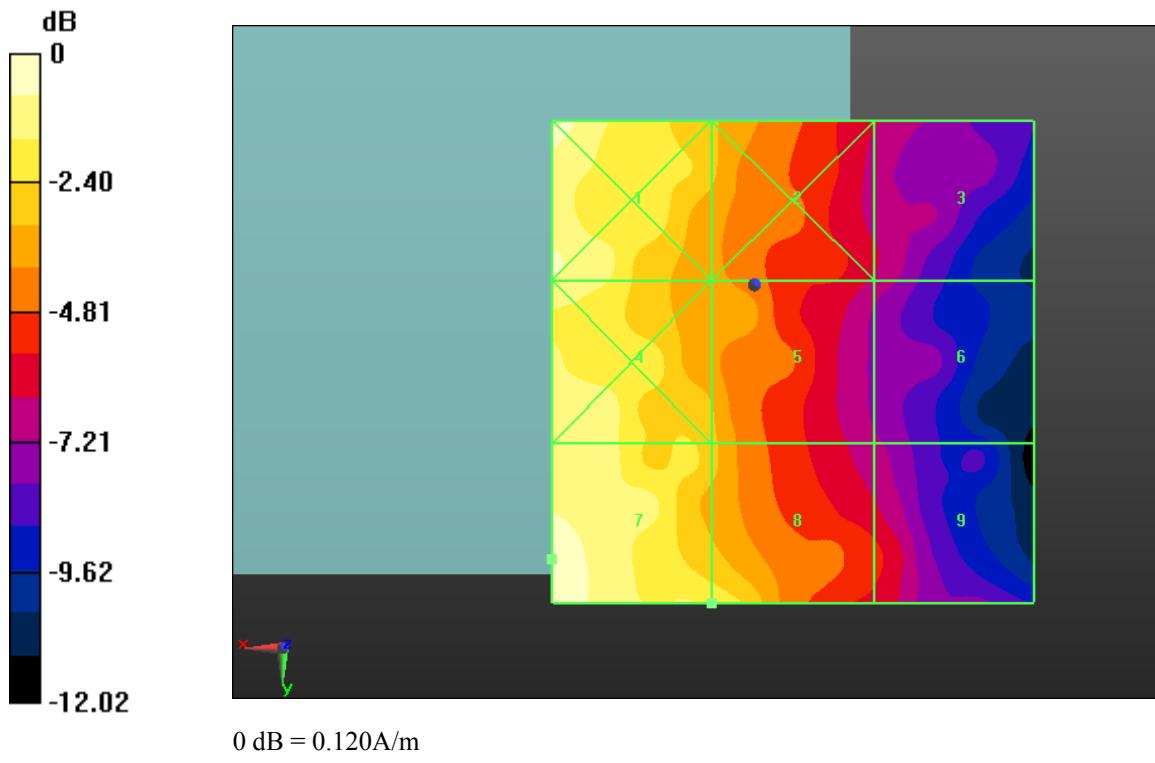
Grid 1	Grid 2	Grid 3
0.118 M4	0.088 M4	0.056 M4
Grid 4	Grid 5	Grid 6
0.108 M4	0.081 M4	0.052 M4
Grid 7	Grid 8	Grid 9
0.108 M4	0.082 M4	0.053 M4

Cursor:

Total = 0.118 A/m

H Category: M4

Location: 23, -31, 8.7 mm



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Date/Time: 4/28/2011 7:47:21 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band II_low_chan

DUT: BlackBerry Smartphone; Type: Sample ; S

Communication System: WCDMA FDD II; ; Frequency: 1852.4 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.080 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.068 A/m; Power Drift = 0.06 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A
RTS-2580-1106-36

FCC ID

L6ARDU70CW
L6ARDE70UW

Peak H-field in A/m

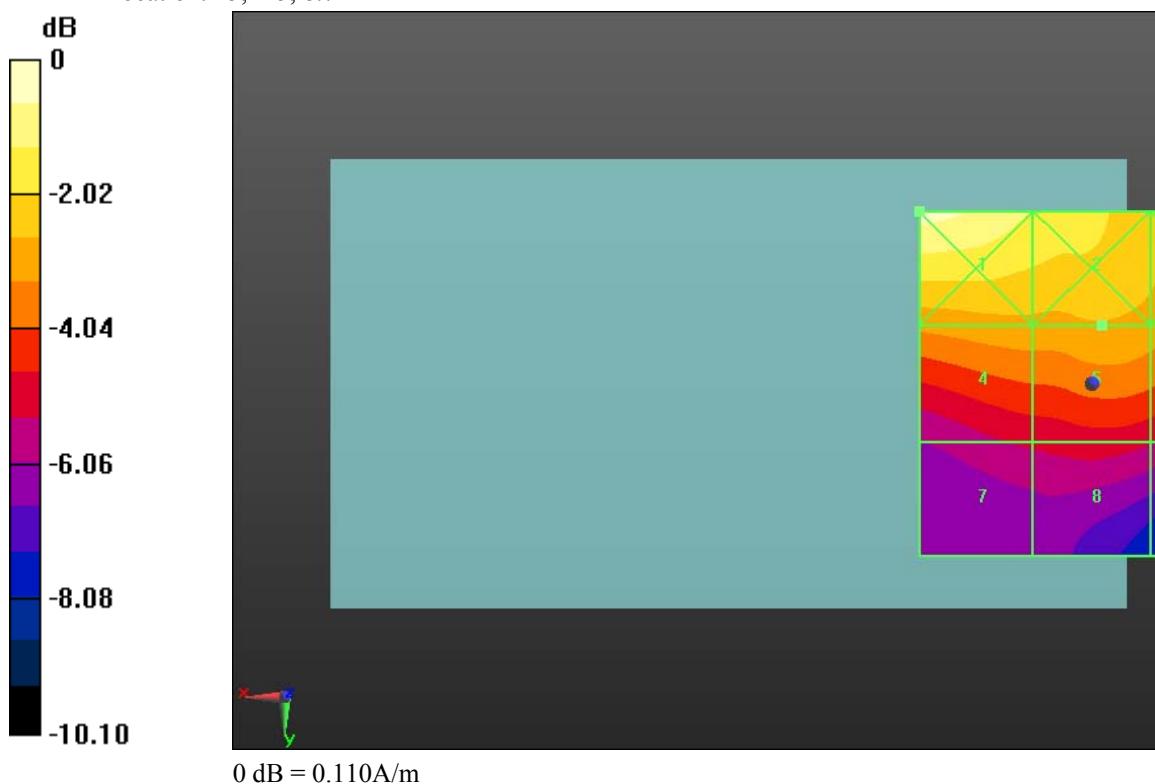
Grid 1	Grid 2	Grid 3
0.105 M4	0.094 M4	0.082 M4
Grid 4	Grid 5	Grid 6
0.079 M4	0.080 M4	0.078 M4
Grid 7	Grid 8	Grid 9
0.060 M4	0.062 M4	0.060 M4

Cursor:

Total = 0.105 A/m

H Category: M4

Location: 25, -25, 8.7 mm



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Date/Time: 4/28/2011 7:51:36 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band II_mid_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.088 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.076 A/m; Power Drift = 0.07 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

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Peak H-field in A/m

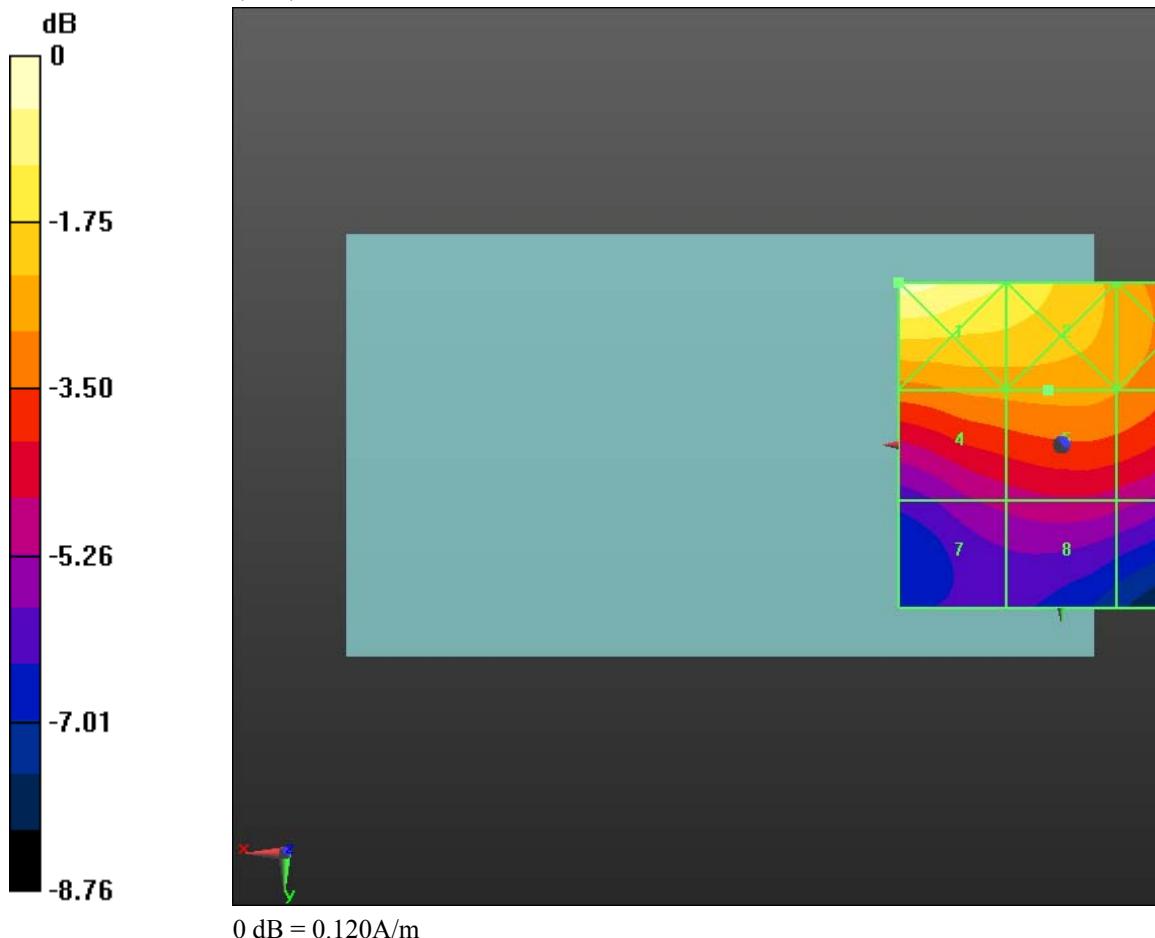
Grid 1	Grid 2	Grid 3
0.116 M4	0.105 M4	0.090 M4
Grid 4	Grid 5	Grid 6
0.088 M4	0.088 M4	0.086 M4
Grid 7	Grid 8	Grid 9
0.068 M4	0.070 M4	0.068 M4

Cursor:

Total = 0.116 A/m

H Category: M4

Location: 25, -25, 8.7 mm



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Date/Time: 4/28/2011 7:55:02 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band II_high_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD II;; Frequency: 1907.6 MHz; Communication System PAR: 0 dB
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.091 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.079 A/m; Power Drift = 0.27 dB

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



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Report No

RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak H-field in A/m

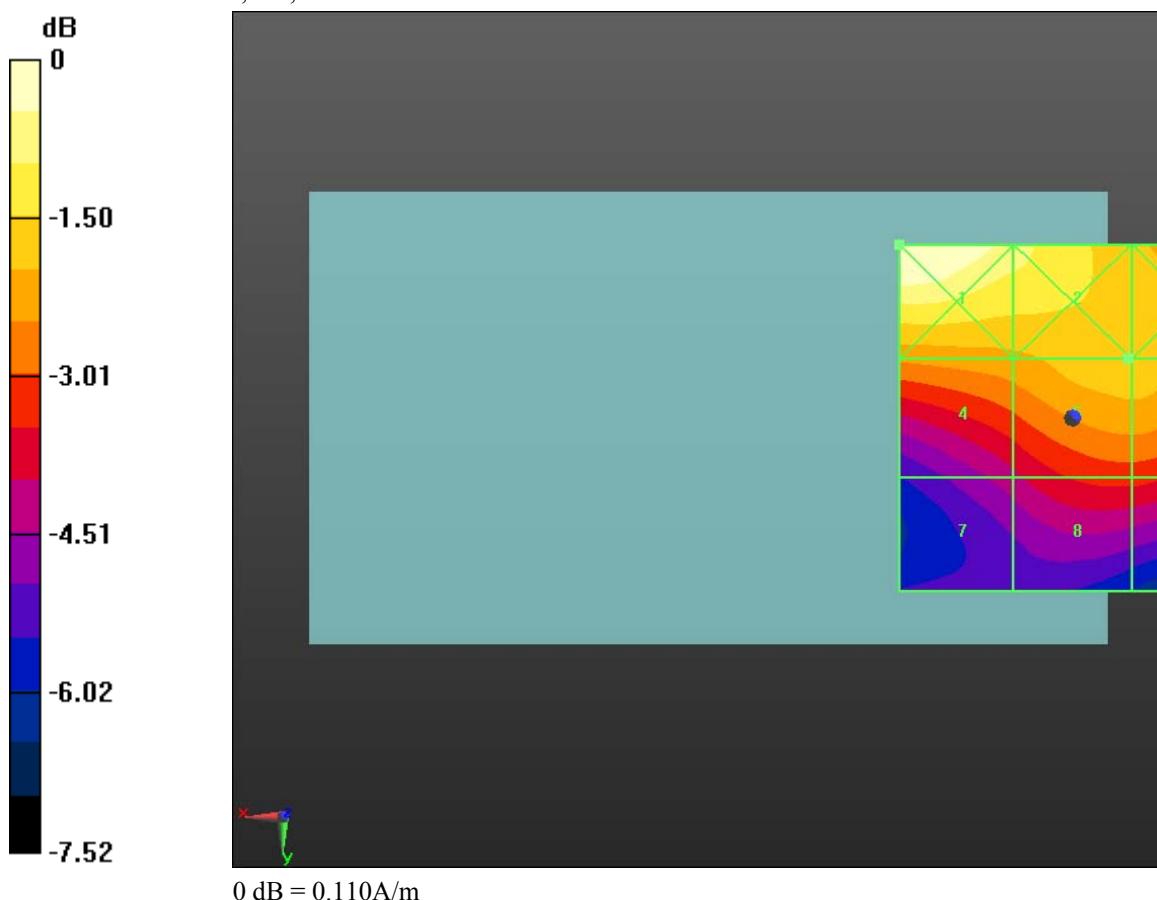
Grid 1	Grid 2	Grid 3
0.115 M4	0.101 M4	0.092 M4
Grid 4	Grid 5	Grid 6
0.086 M4	0.091 M4	0.091 M4
Grid 7	Grid 8	Grid 9
0.068 M4	0.075 M4	0.075 M4

Cursor:

Total = 0.115 A/m

H Category: M4

Location: 25, -25, 8.7 mm



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Date/Time: 4/28/2011 8:31:37 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band II_high_chan_telecoil_center

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.093 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.079 A/m; Power Drift = 0.05 dB

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

Author Data
Daoud Attayi

Dates of Test

Mar. 22-23, Apr. 28, 2011

Report No

RTS-3933-1104-55A**RTS-2580-1106-36**

FCC ID

L6ARDU70CW**L6ARDE70UW**

Peak H-field in A/m

Grid 1 0.122 M4	Grid 2 0.101 M4	Grid 3 0.089 M4
Grid 4 0.098 M4	Grid 5 0.093 M4	Grid 6 0.089 M4
Grid 7 0.076 M4	Grid 8 0.083 M4	Grid 9 0.082 M4

Cursor:

Total = 0.122 A/m

H Category: M4

Location: 25, -33, 8.7 mm

