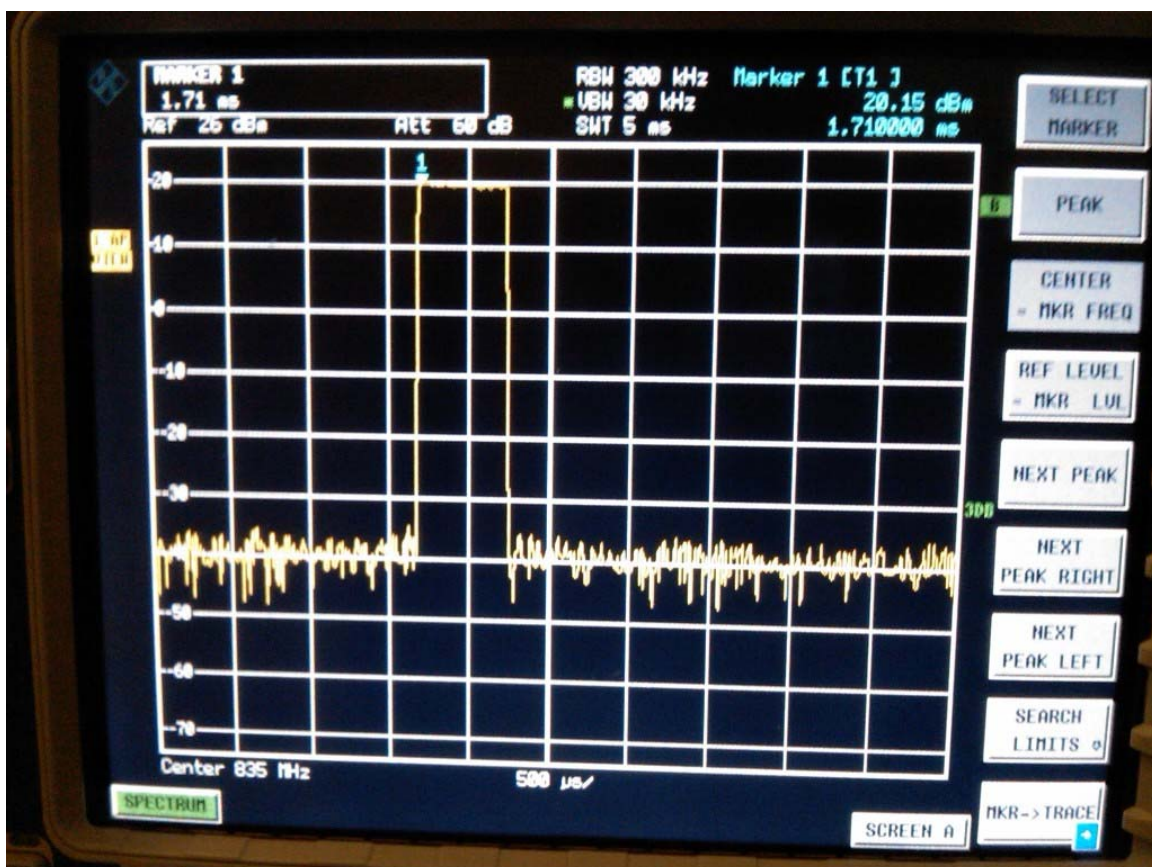

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW

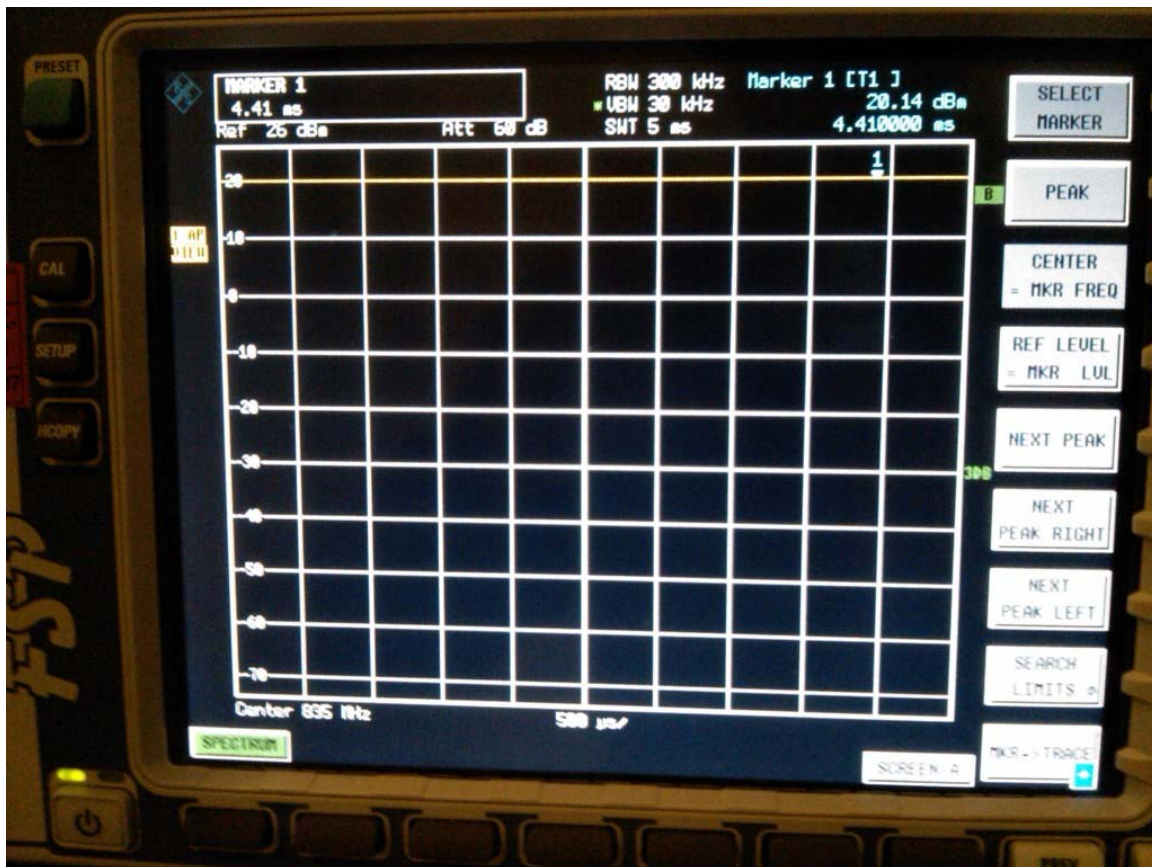
Annex A: Measurement data and plots

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




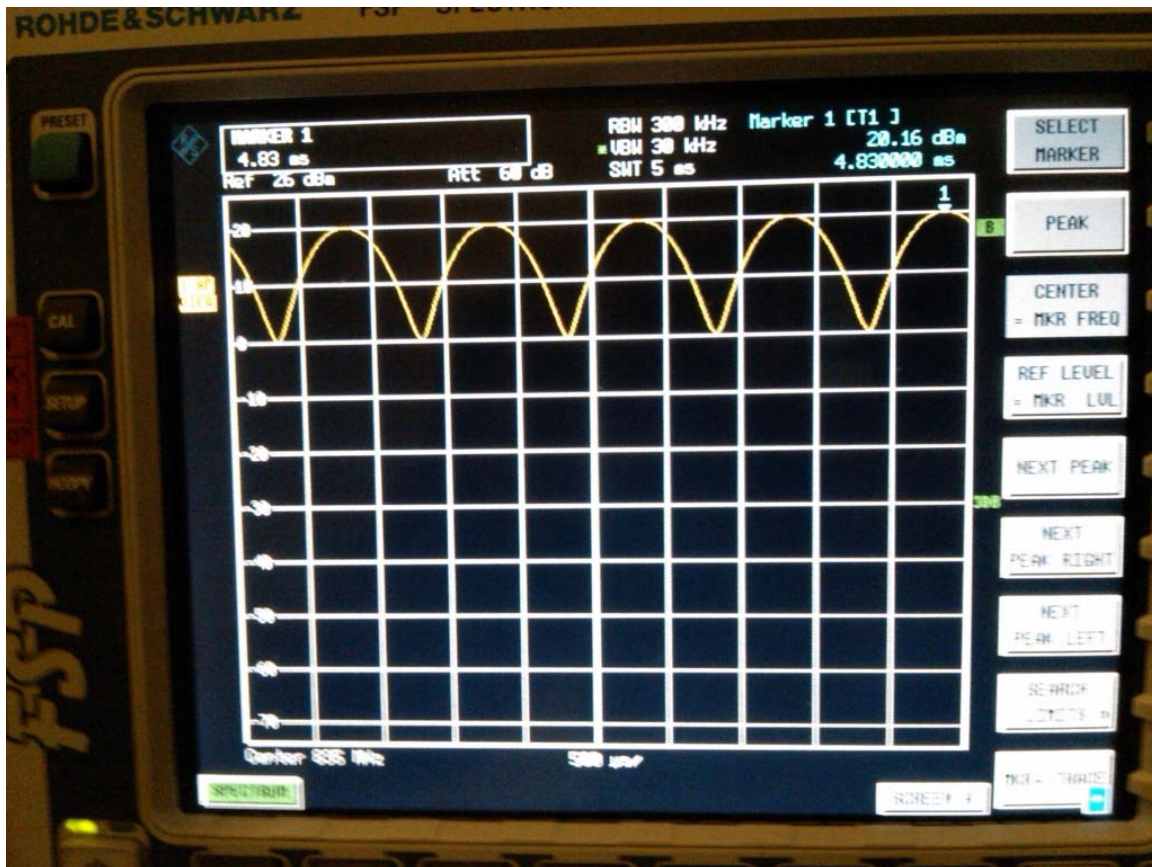
GSM 835 MHz

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW




CW 835 MHz

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AM 80% 835 MHz

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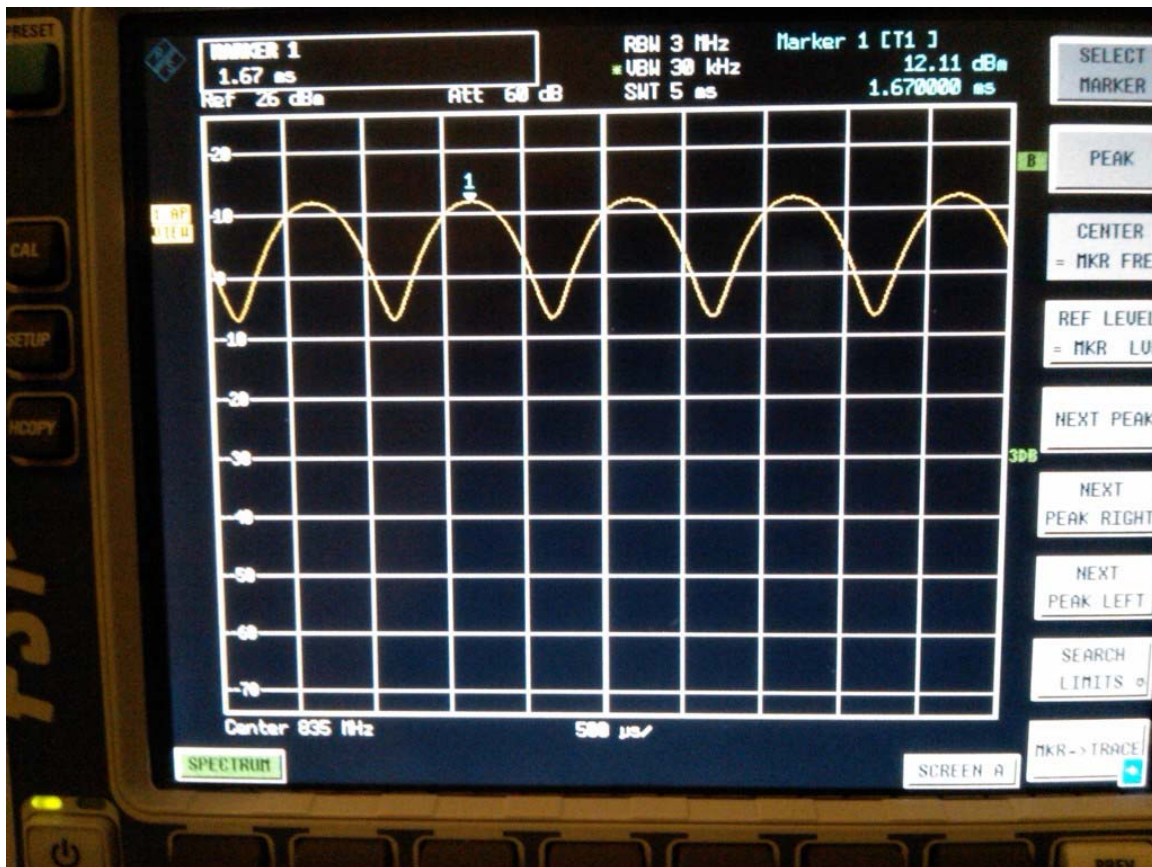
CDMA 835 MHz

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW




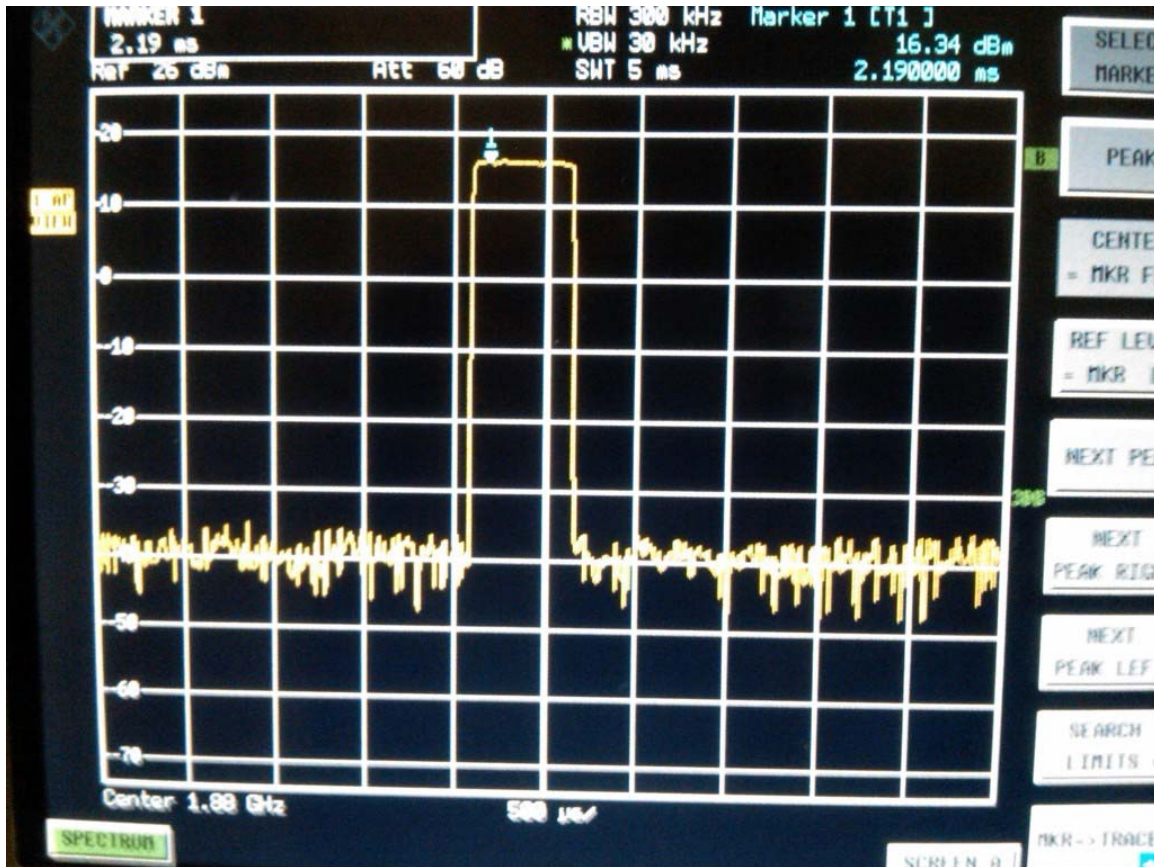
CW 835 MHz

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW




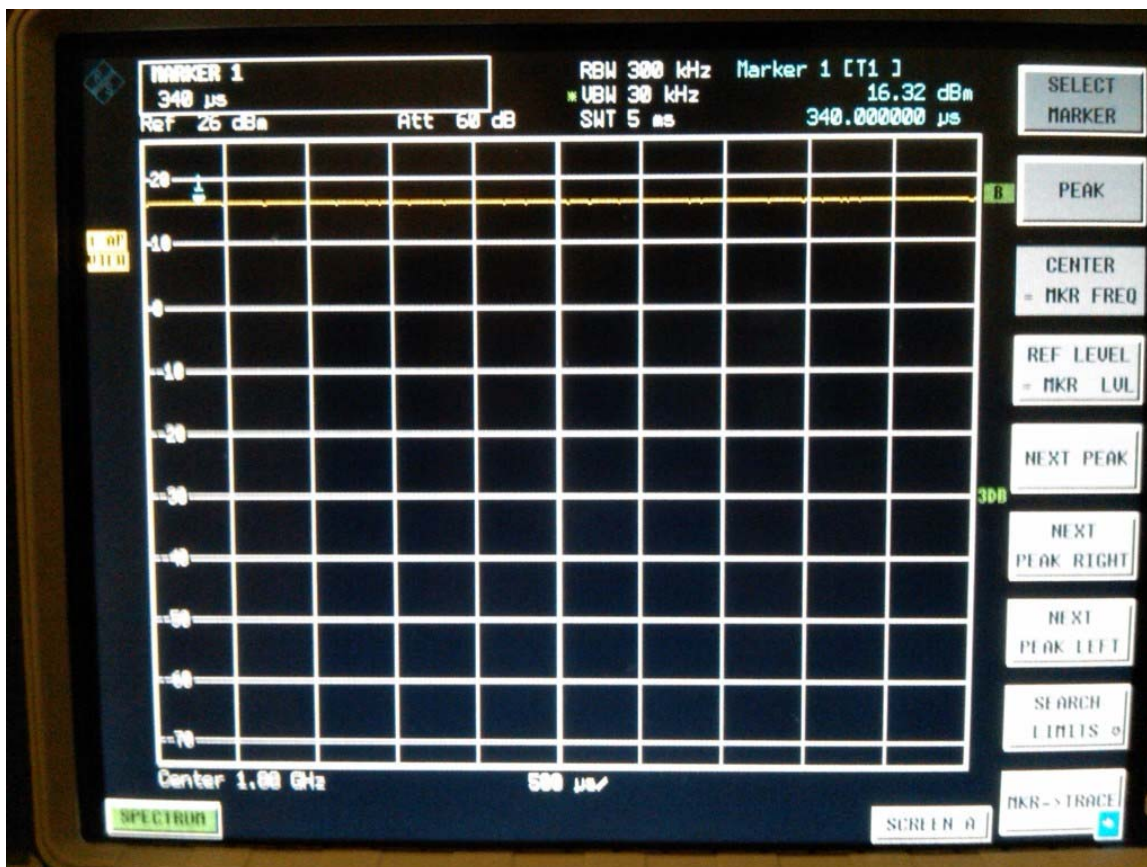
AM 80% 835 MHz

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW




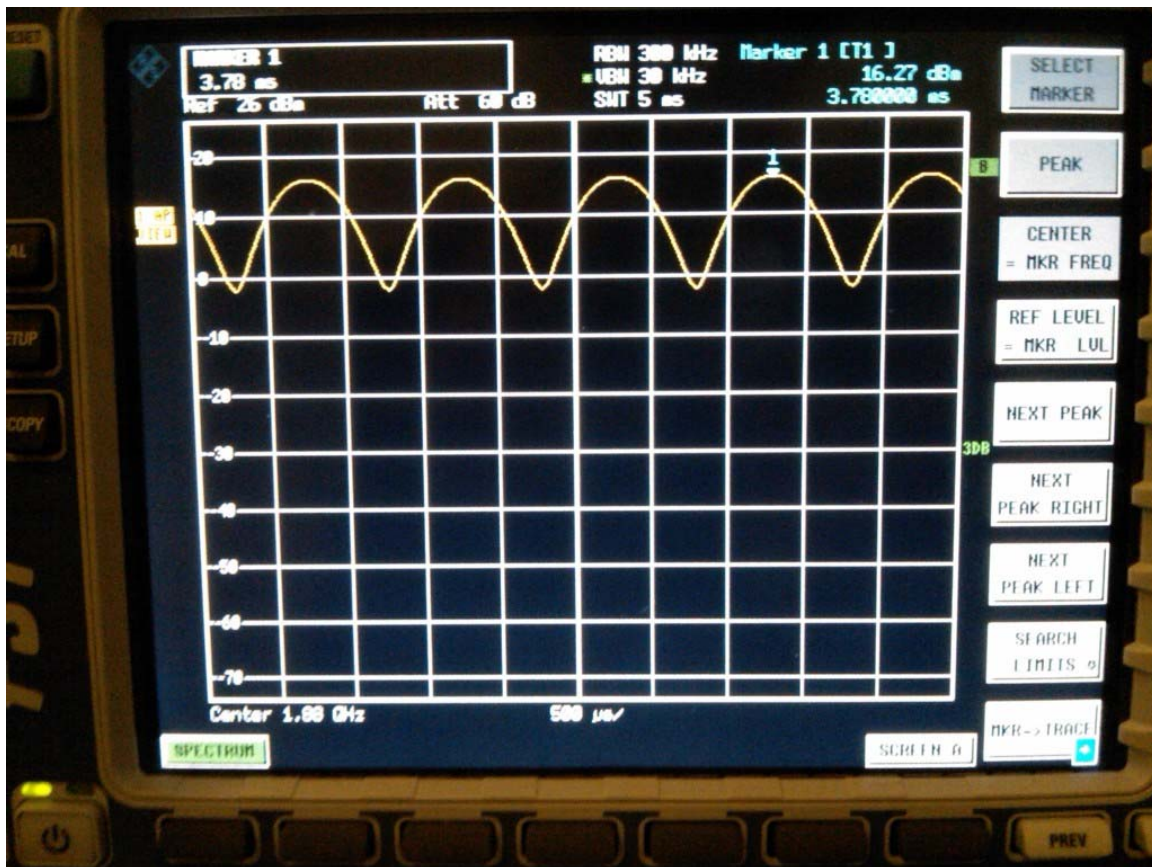
GSM 1880 MHz

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW




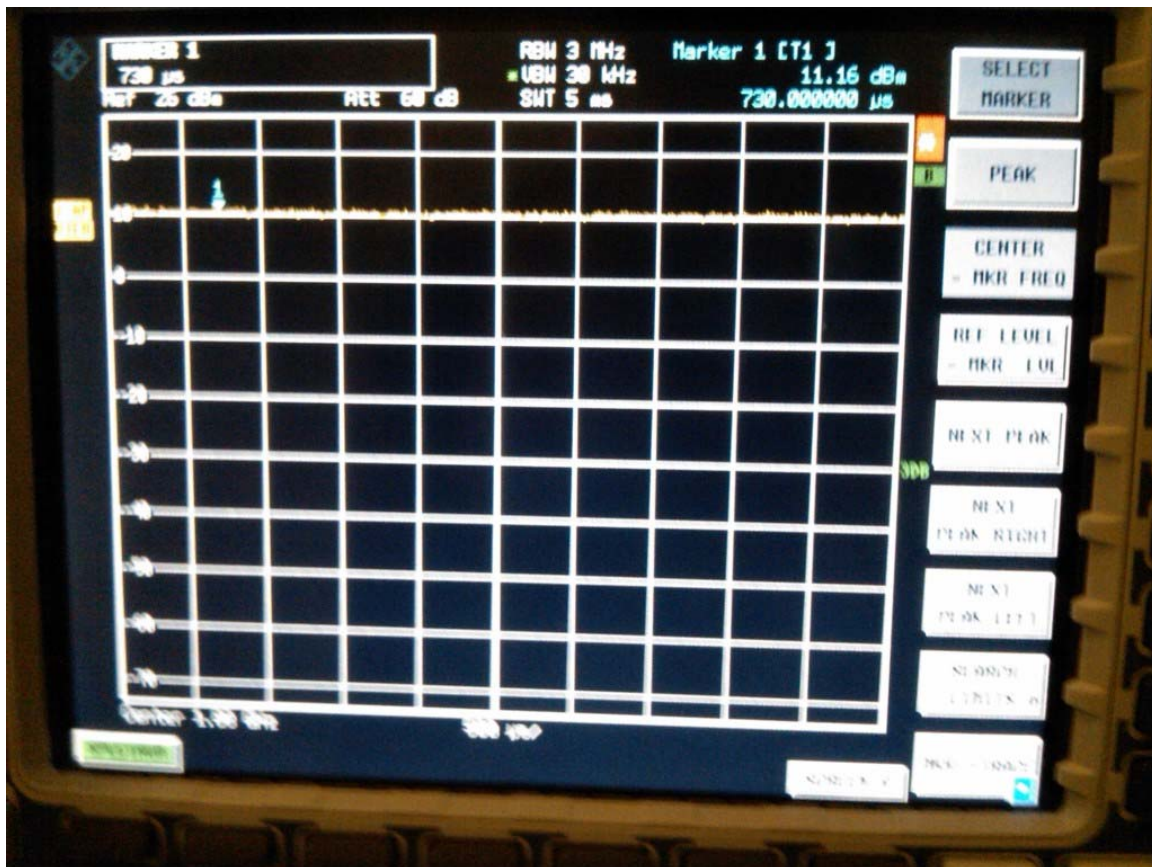
CW 1880 MHz

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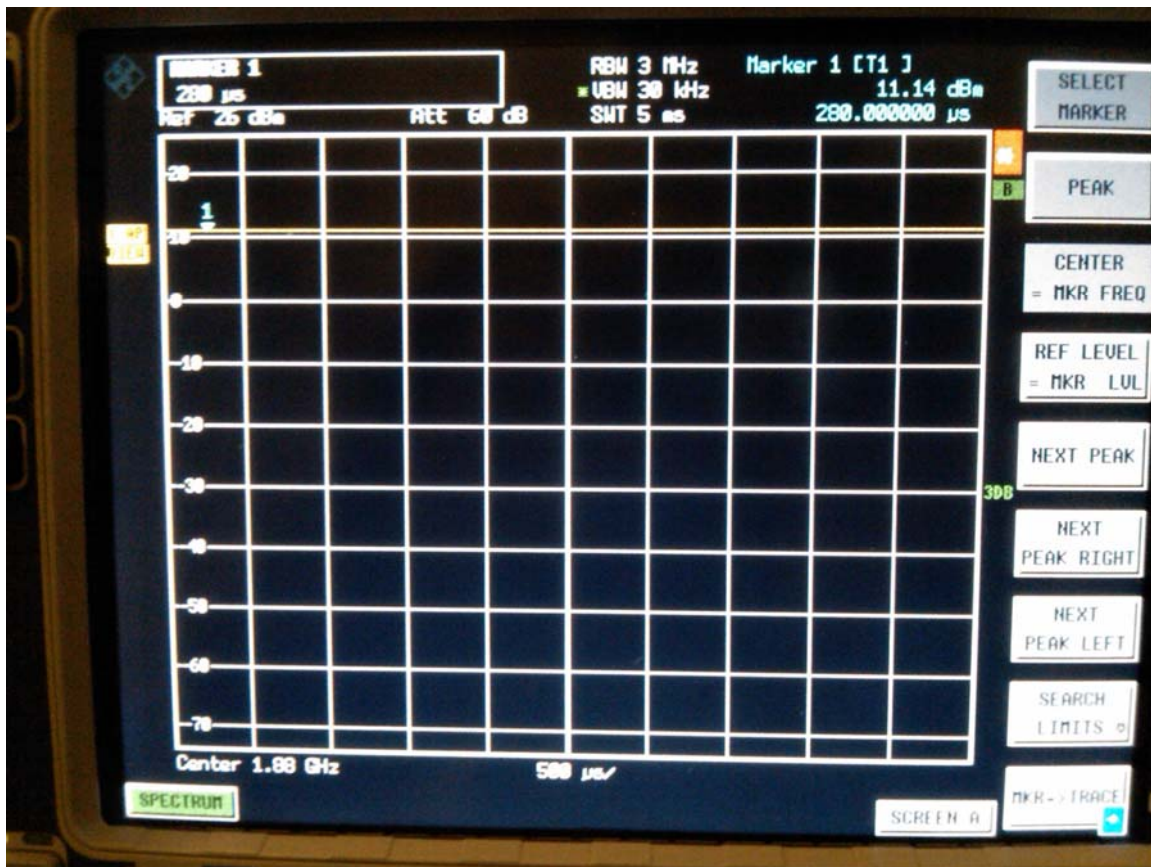
AM 80 % 1880 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDU71CW/RDV71UW		Page 10 (179)
Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW




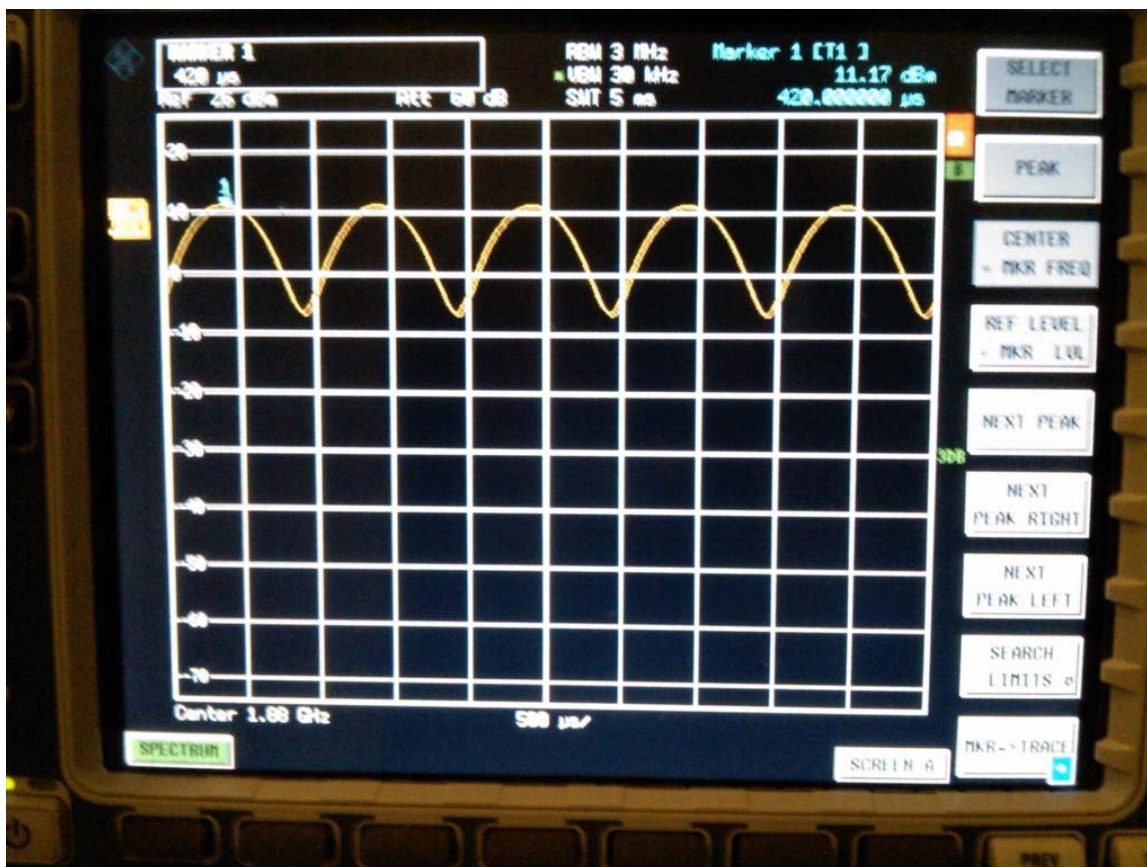
CDMA 1880 MHz

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CW 1880 MHz

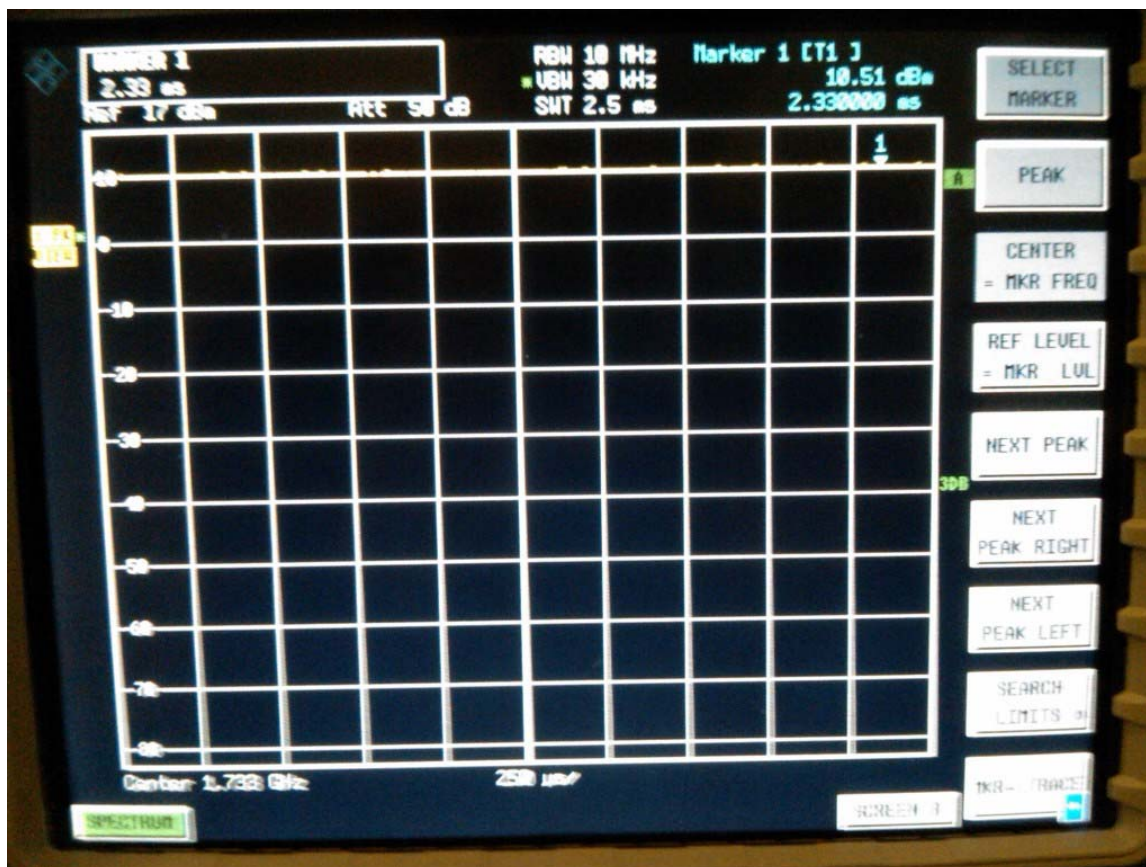
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDU71CW/RDV71UW		Page 12 (179)
Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW




AM 80 % 1880 MHz

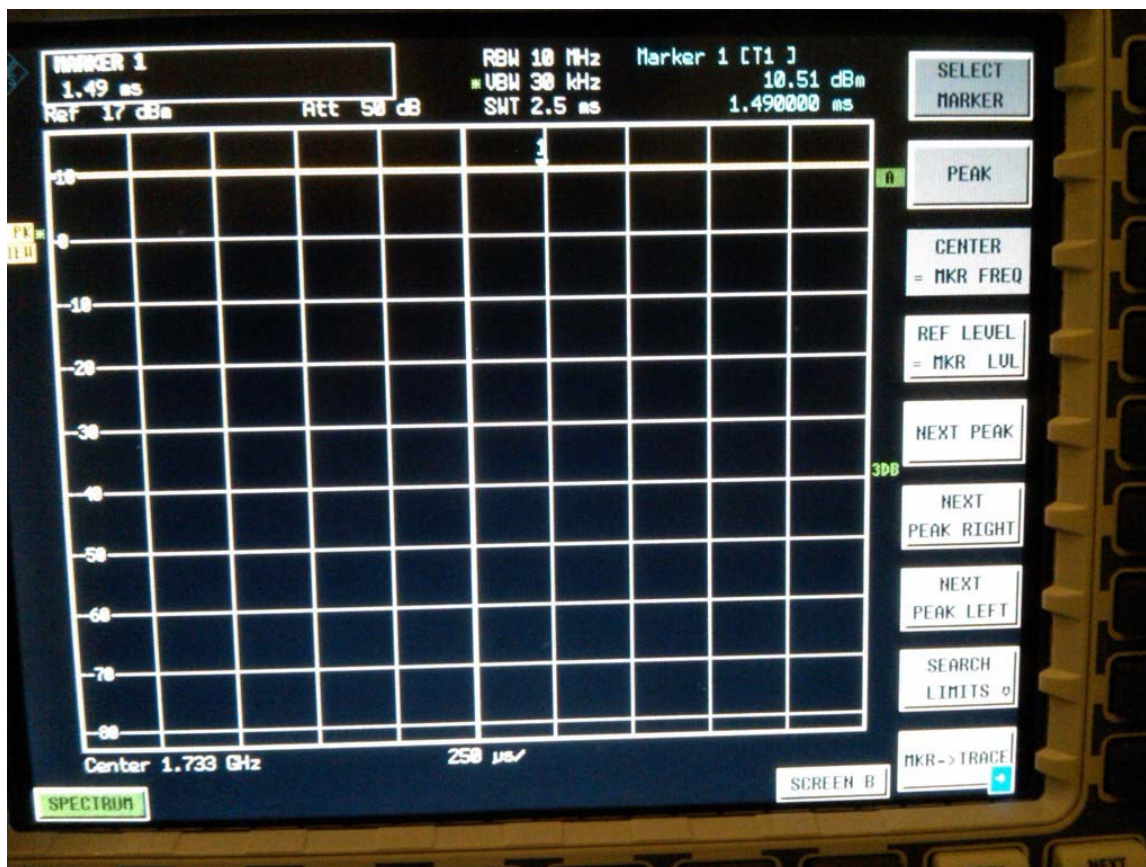
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDU71CW/RDV71UW			Page 13 (179)
Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28 , 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW	

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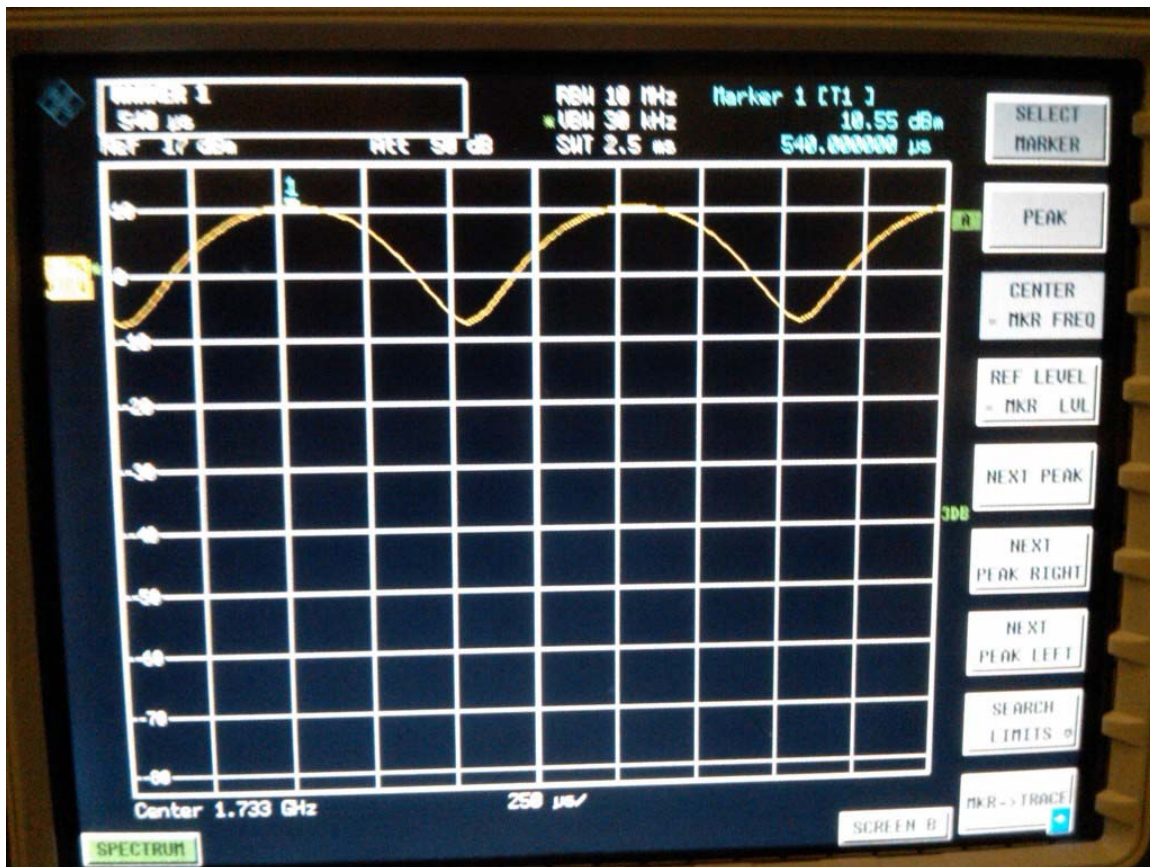
UMTS 1733 MHz

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CW 1733 MHz


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AM 80% 1733 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: DASYS (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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Peak E-field in V/m


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

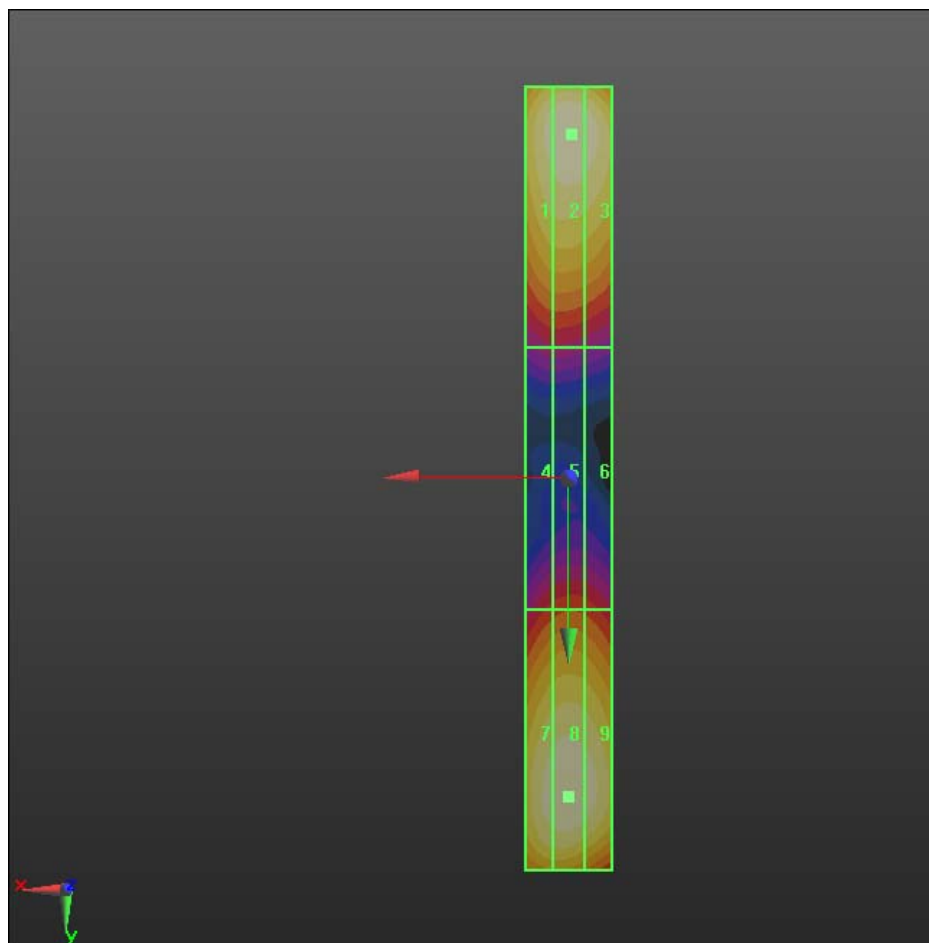
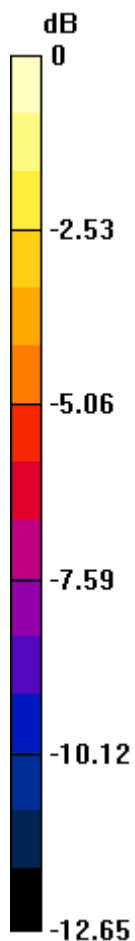
Cursor:

Total = 160.2 V/m


E Category: M4

Location: -0.5, -79, 4.7 mm

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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: DASYS (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

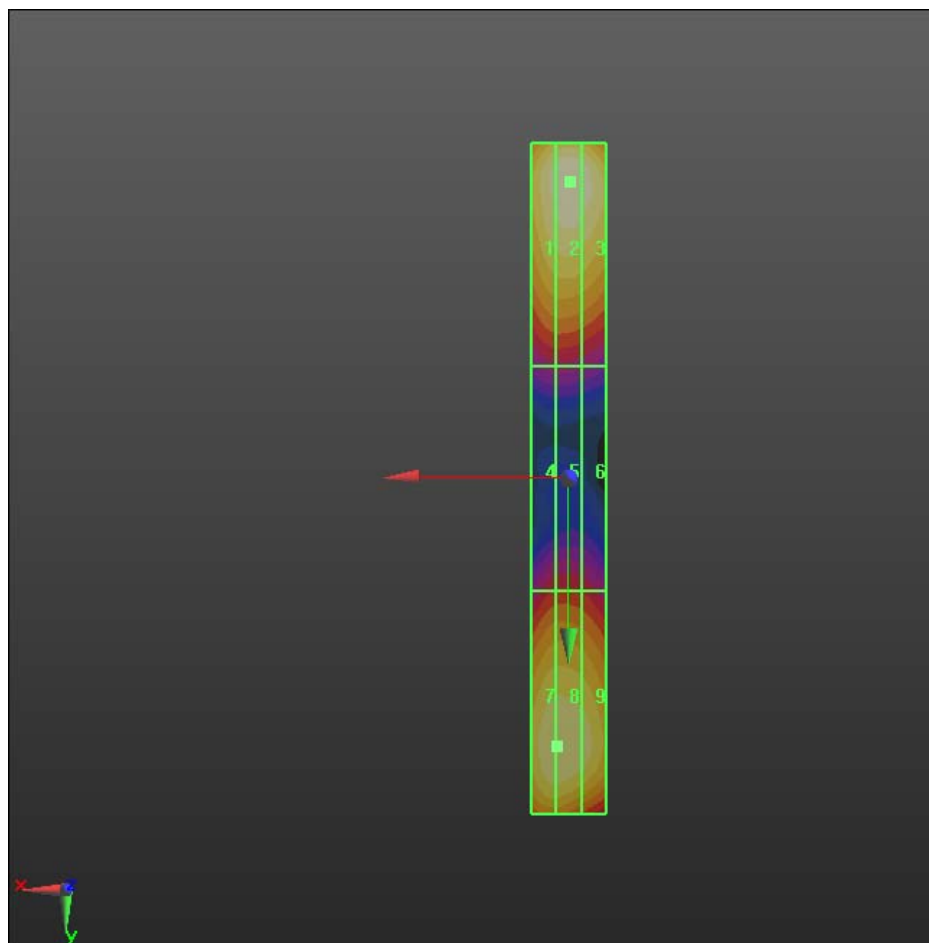
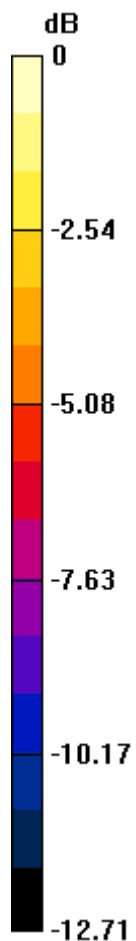
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Total = 54.142 V/m


E Category: M4

Location: -0.5, -79.5, 4.7 mm

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0 dB = 54.140V/m

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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: DASYS (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

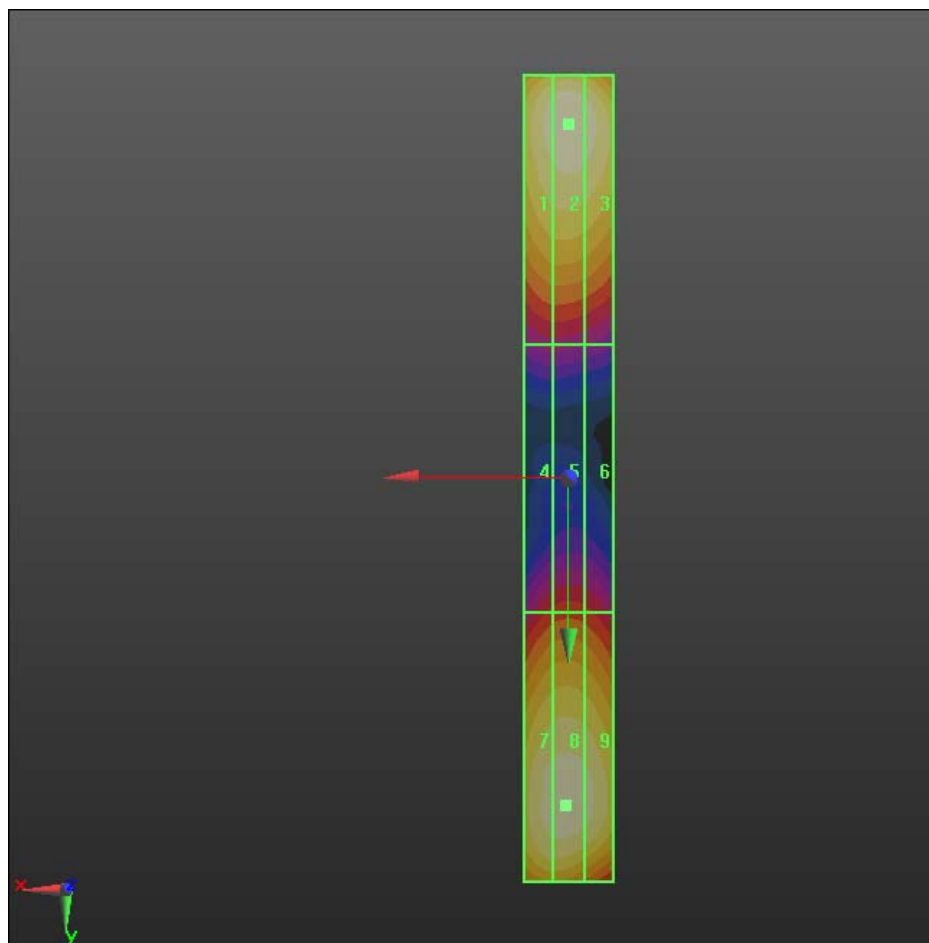
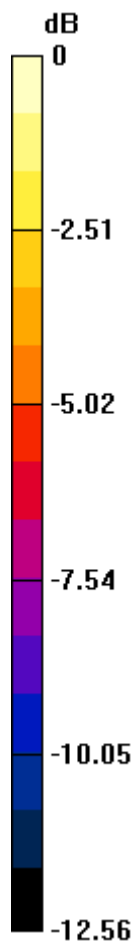
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Total = 159.3 V/m


E Category: M4

Location: 0, -79, 4.7 mm

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0 dB = 159.3V/m

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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: DASYS (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

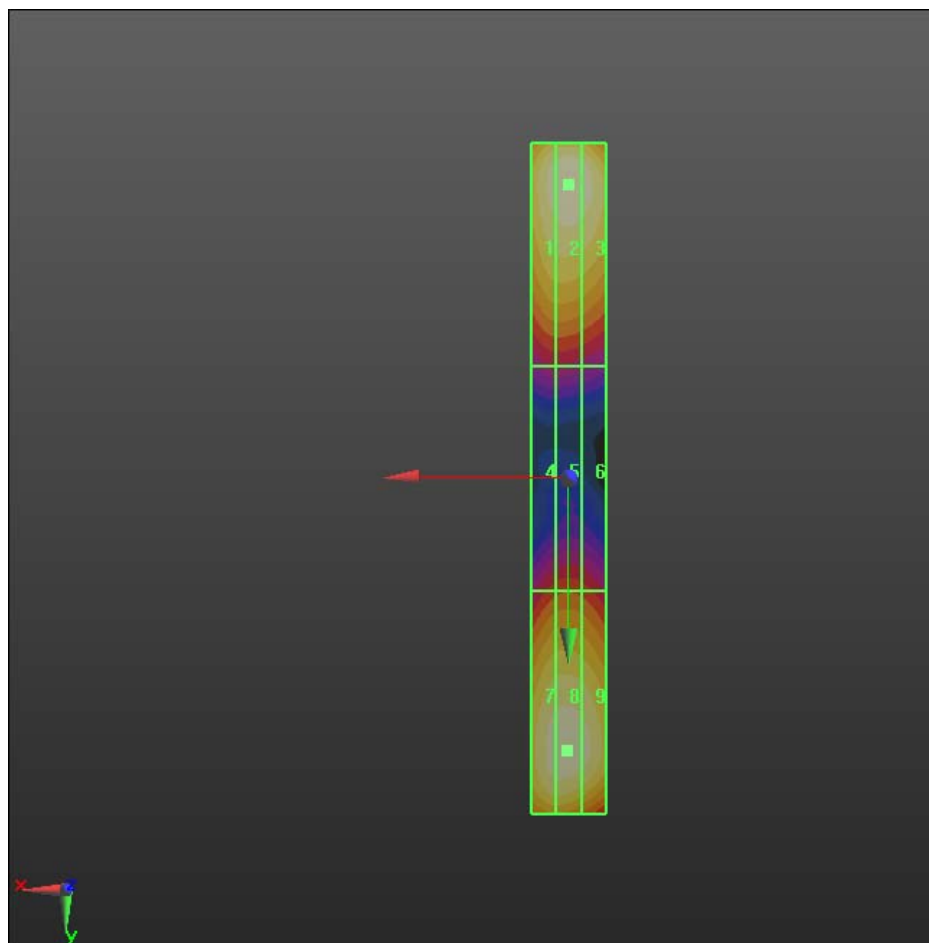
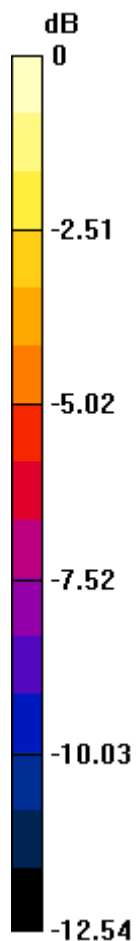
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Total = 99.821 V/m


E Category: M4

Location: 0, -79, 4.7 mm

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0 dB = 99.820V/m

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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

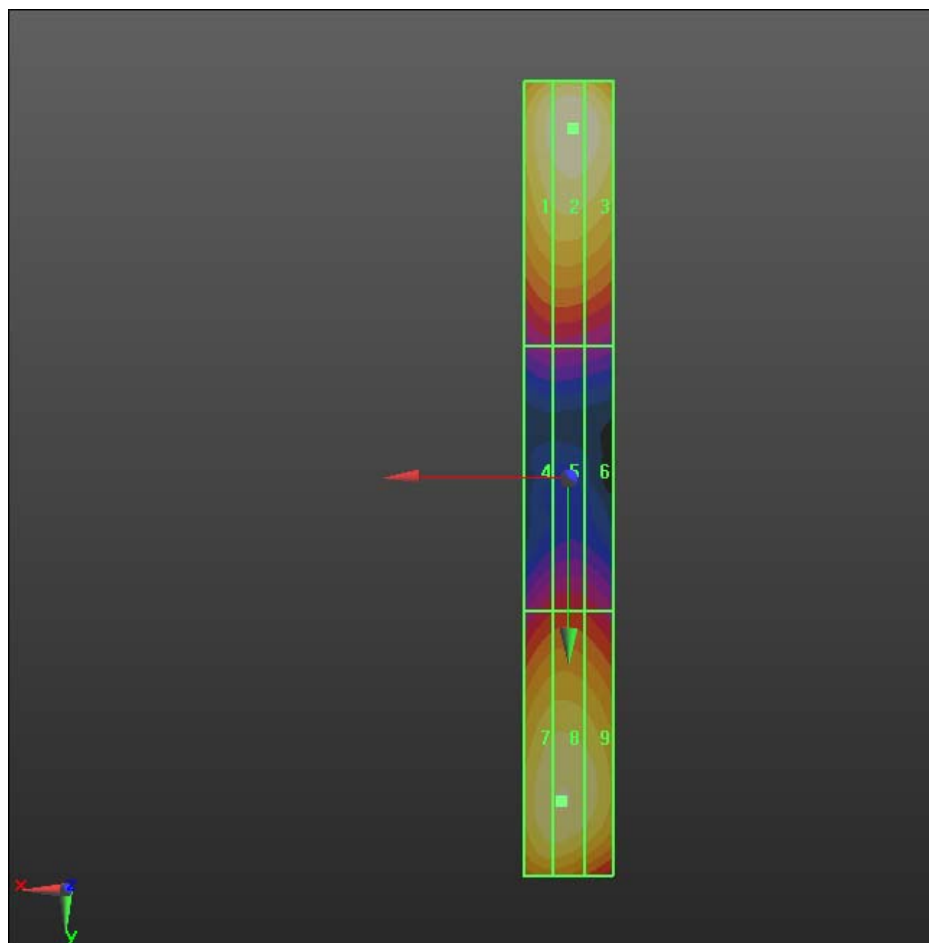
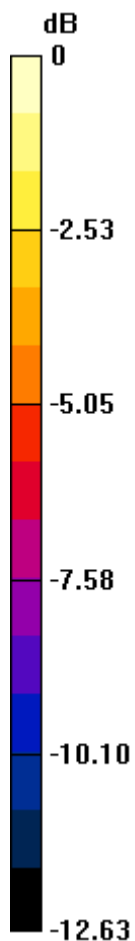
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Total = 63.653 V/m


E Category: M4

Location: -1, -79, 4.7 mm

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28 , 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW



0 dB = 63.650V/m

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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

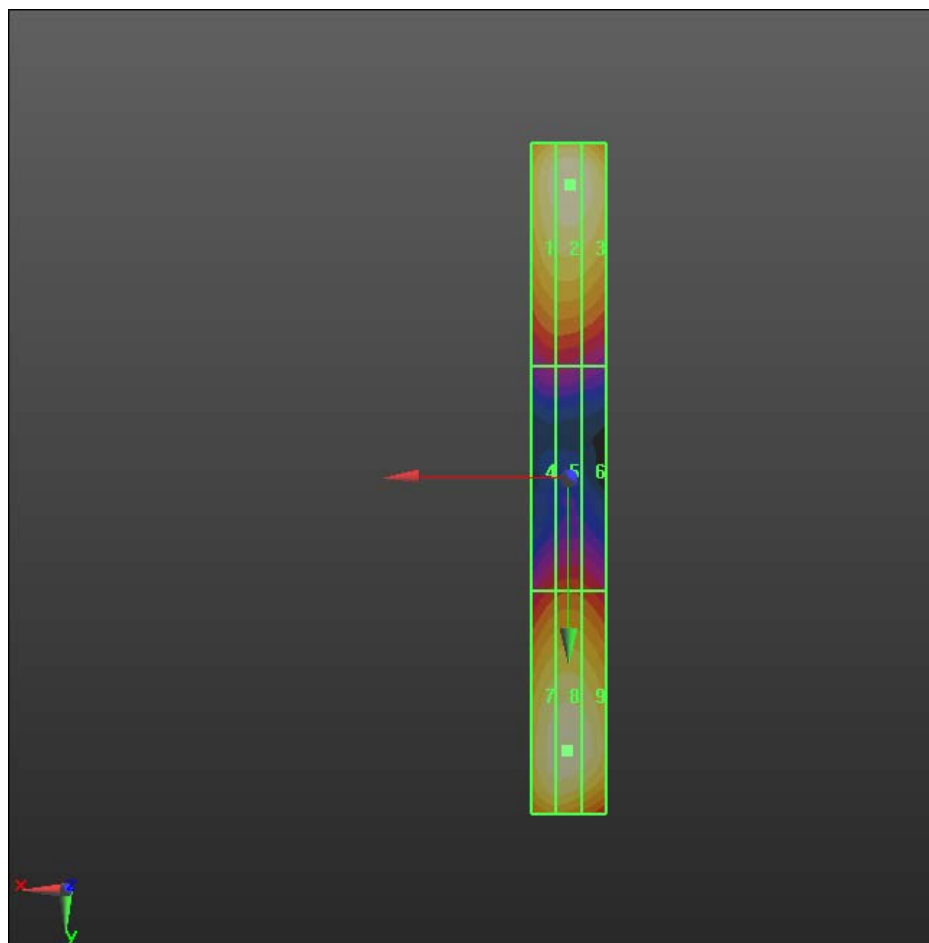
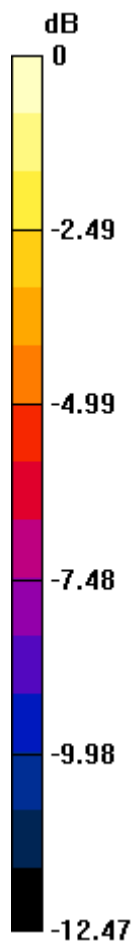
Cursor:

Total = 62.994 V/m


E Category: M4

Location: -0.5, -79, 4.7 mm

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0 dB = 62.990V/m

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

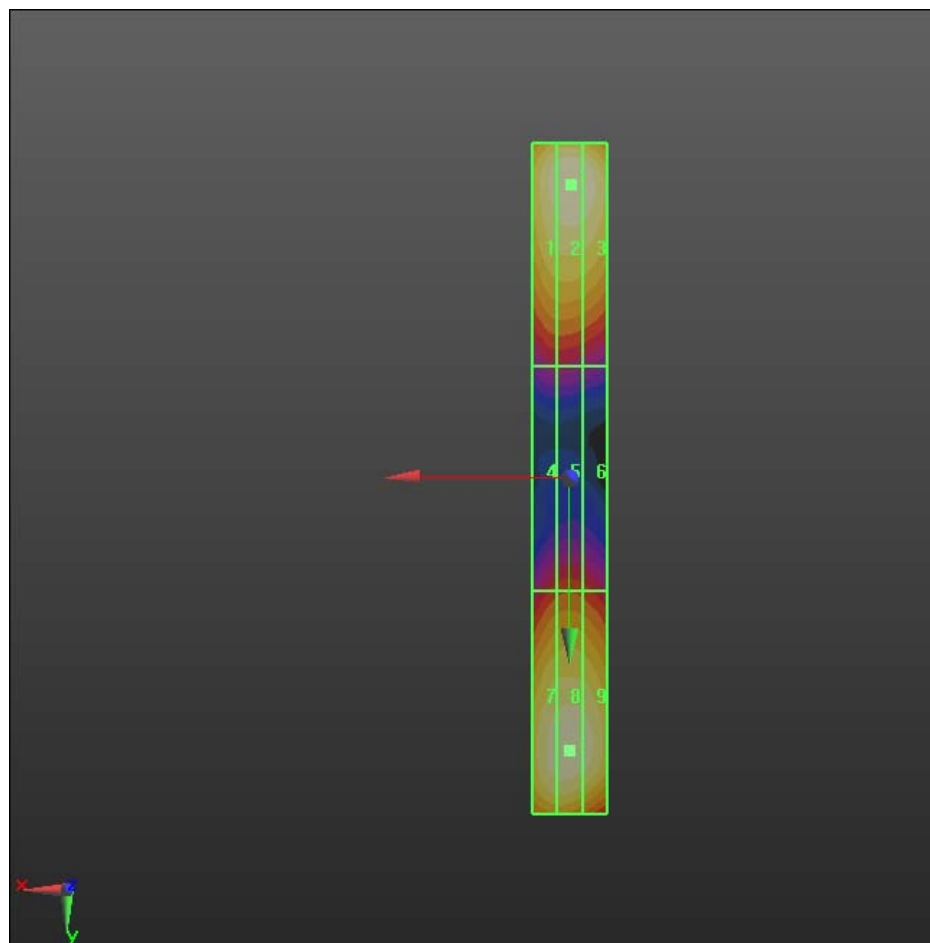
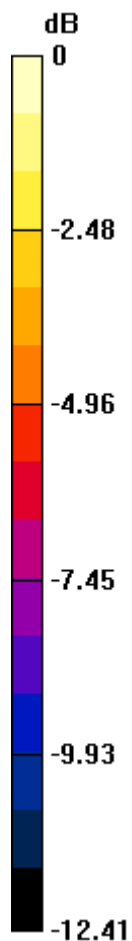
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Total = 40.248 V/m


E Category: M4

Location: -0.5, -79, 4.7 mm

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0 dB = 40.250V/m

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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: DASYS (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 1 130.6 M2	Grid 2 133.2 M2	Grid 3 126.2 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

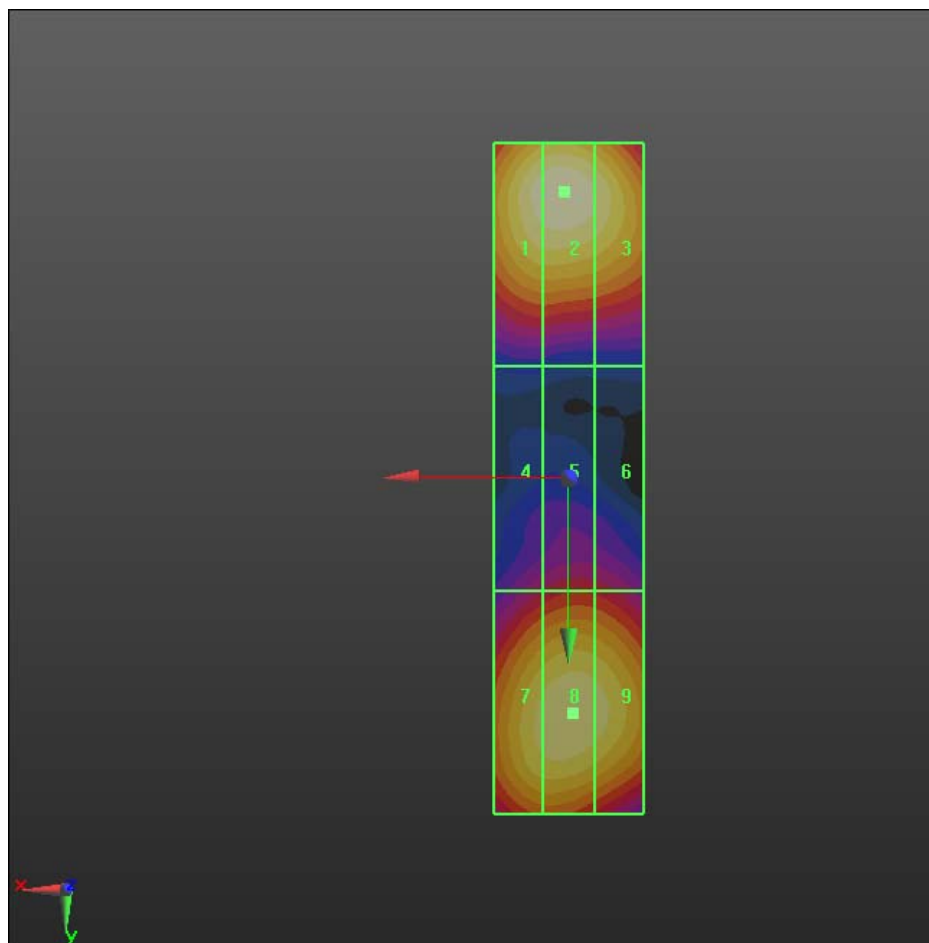
Cursor:

Total = 133.2 V/m


E Category: M2

Location: 0.5, -38.5, 4.7 mm

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0 dB = 133.2V/m

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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: DASYS (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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Peak E-field in V/m


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

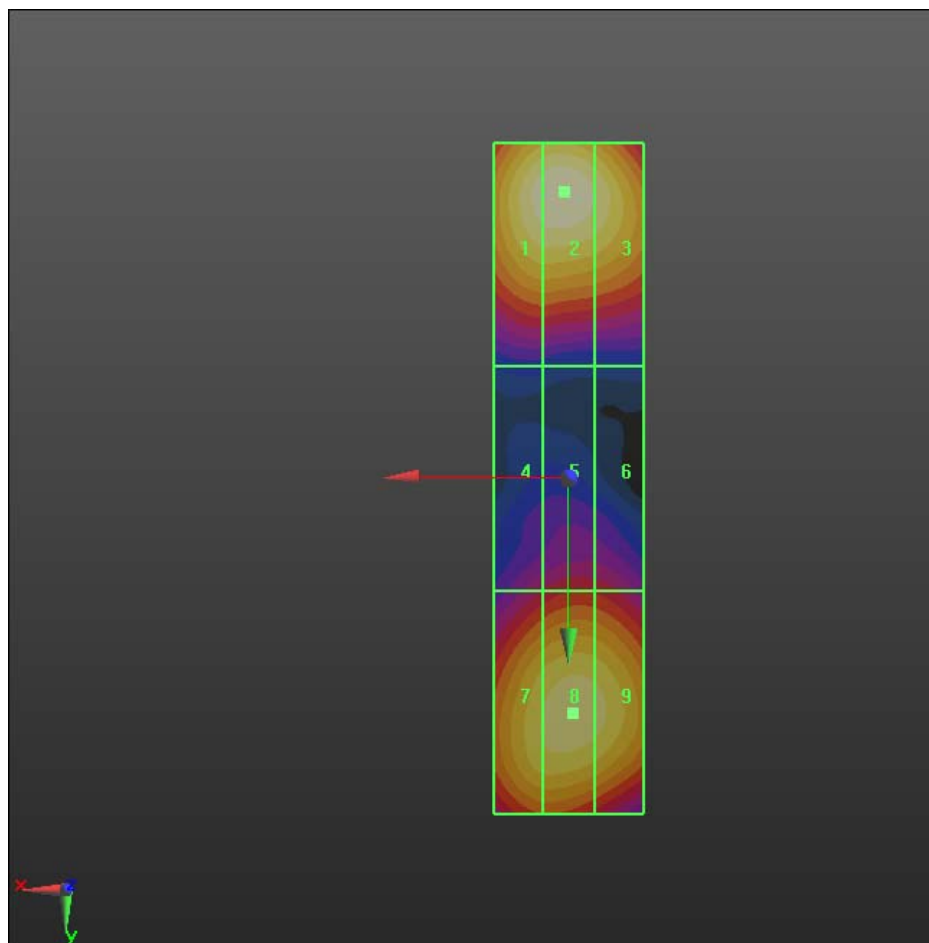
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Total = 27.663 V/m


E Category: M4

Location: 0.5, -38.5, 4.7 mm

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0 dB = 27.660V/m

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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)

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Peak E-field in V/m

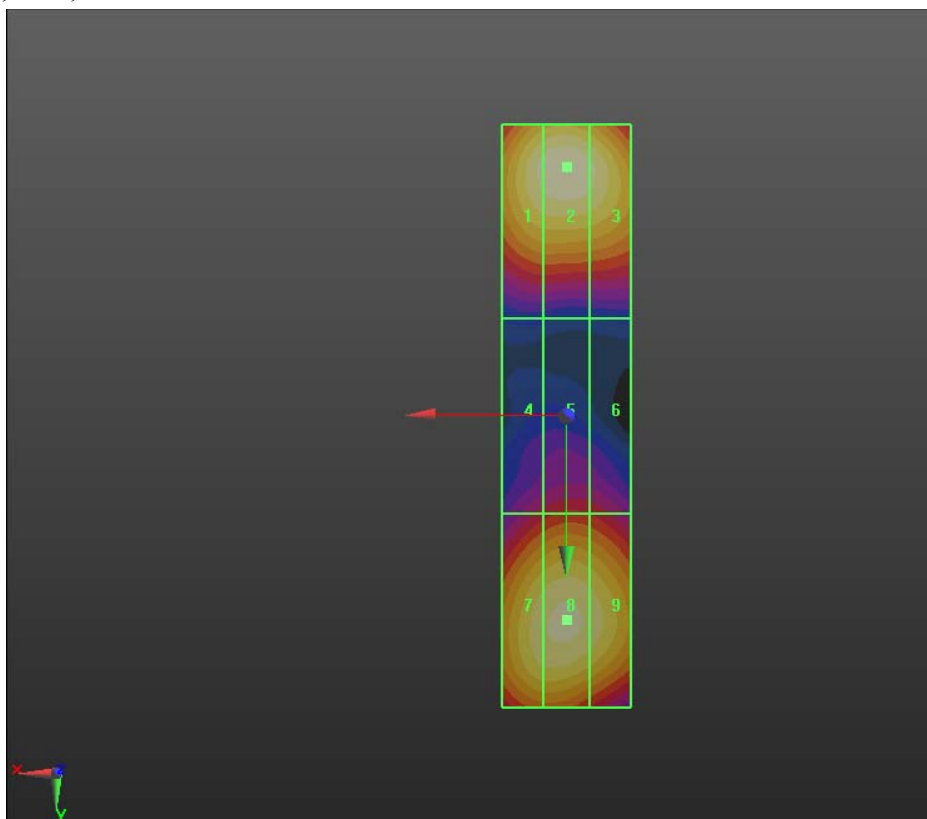
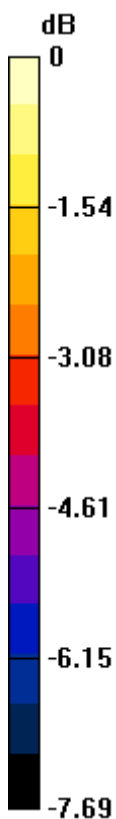
Grid 1 79.692 M3	Grid 2 82.216 M3	Grid 3 79.228 M3
Grid 4 52.849 M4	Grid 5 55.292 M4	Grid 6 54.232 M4
Grid 7 76.960 M3	Grid 8 78.815 M3	Grid 9 76.489 M3

Cursor:


Total = 82.216 V/m

E Category: M3

Location: 0, -38.5, 4.7 mm



0 dB = 82.220V/m

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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: DASYS (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

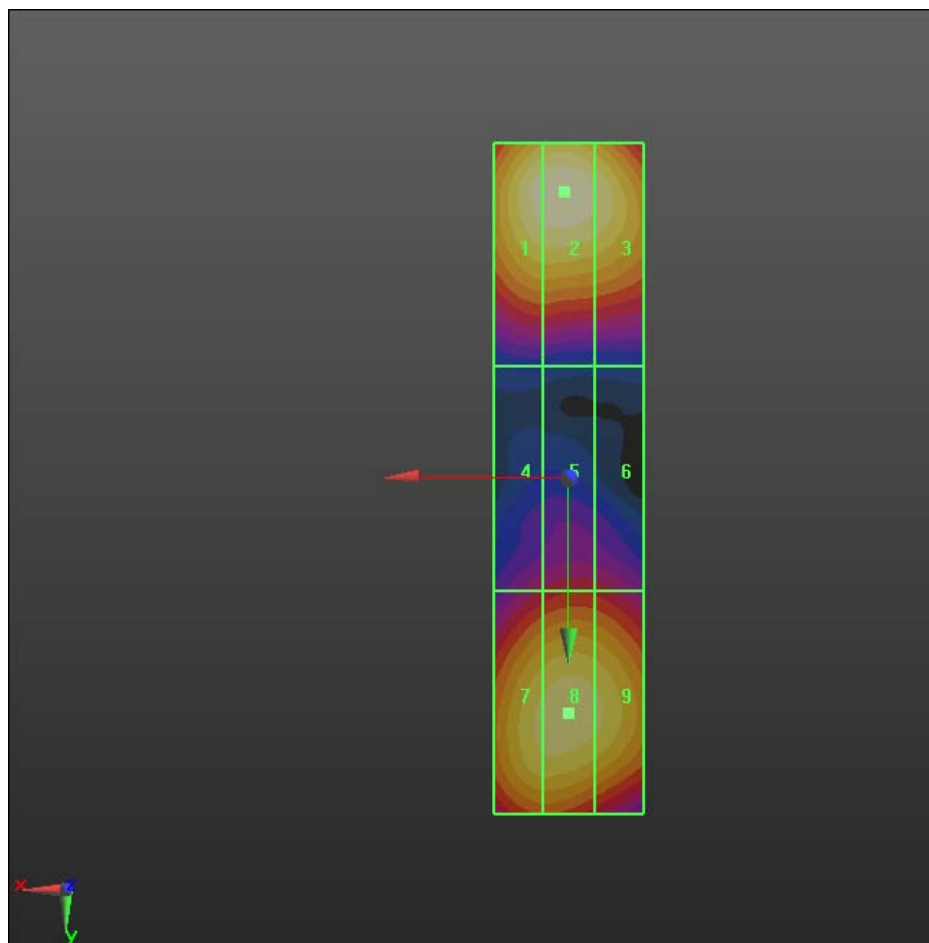
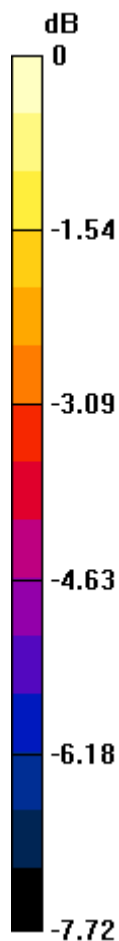
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Total = 53.337 V/m


E Category: M4

Location: 0.5, -38.5, 4.7 mm

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0 dB = 53.340V/m

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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

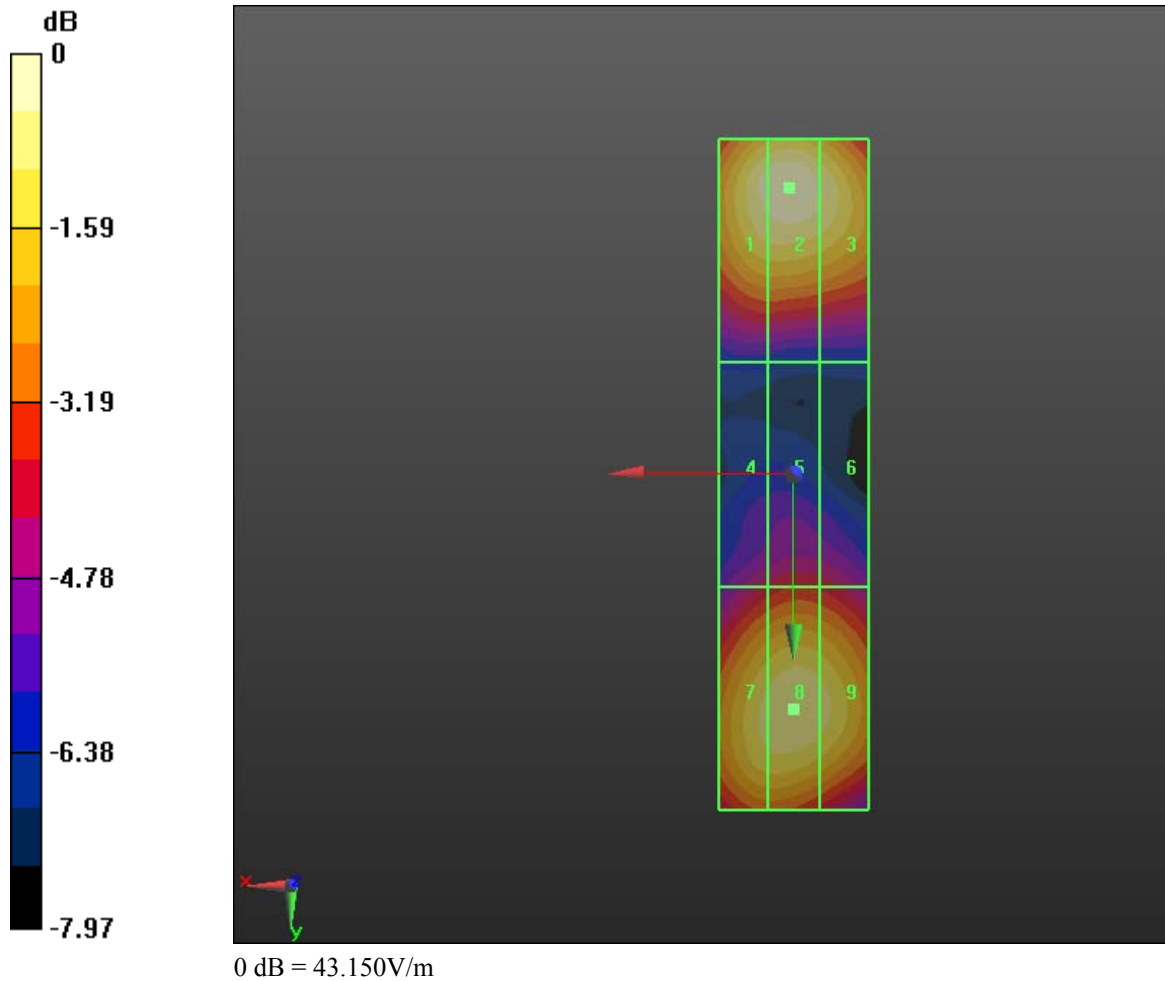
Cursor:


Total = 43.150 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDU71CW/RDV71UW		Page 52 (179)
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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)

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Peak E-field in V/m

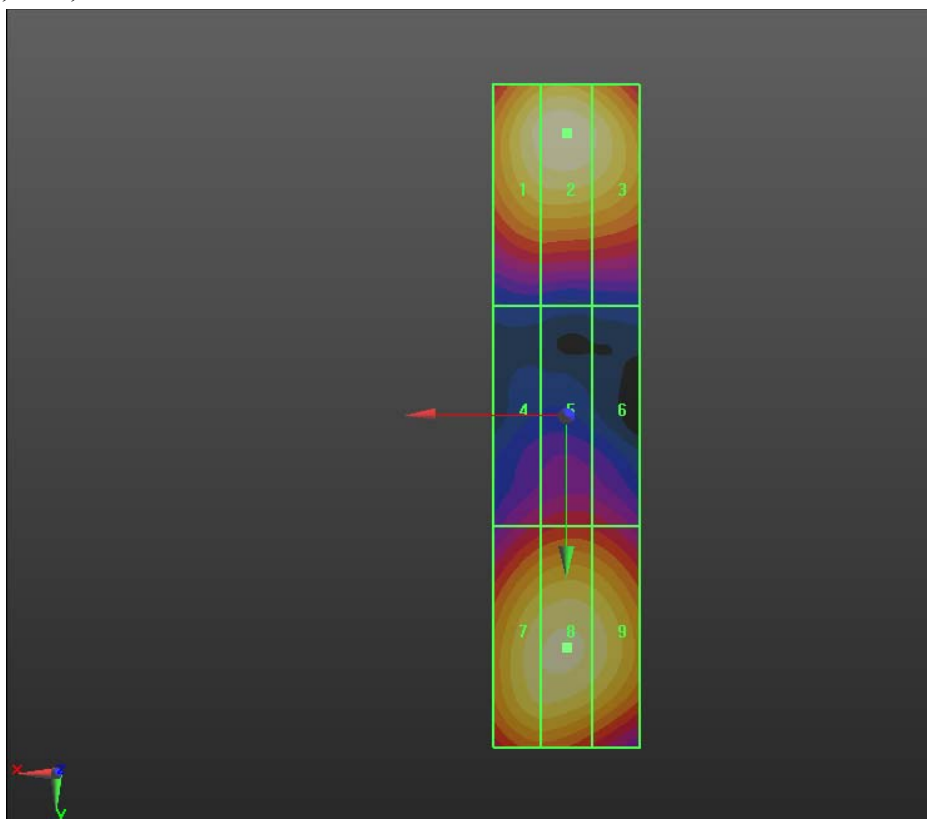
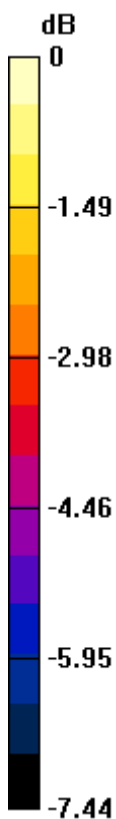
Grid 1 44.340 M4	Grid 2 45.598 M4	Grid 3 43.792 M4
Grid 4 29.598 M4	Grid 5 30.871 M4	Grid 6 30.339 M4
Grid 7 42.981 M4	Grid 8 43.734 M4	Grid 9 42.515 M4

Cursor:


Total = 45.598 V/m

E Category: M4

Location: 0, -38.5, 4.7 mm



0 dB = 45.600V/m

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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)

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW

Peak E-field in V/m

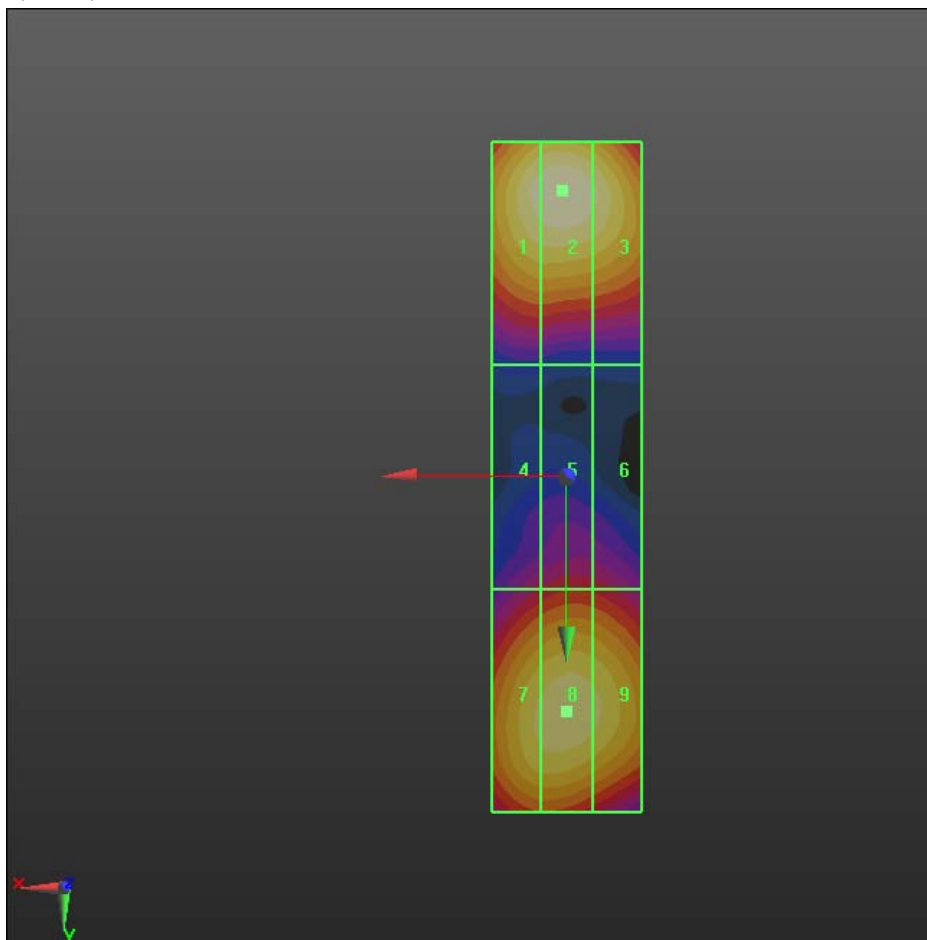
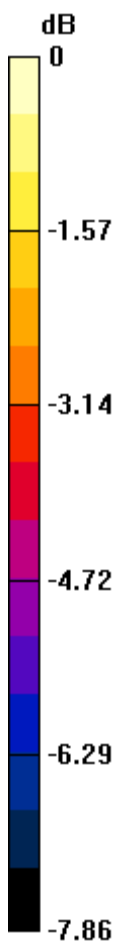
Grid 1 29.713 M4	Grid 2 30.486 M4	Grid 3 29.090 M4
Grid 4 18.962 M4	Grid 5 19.986 M4	Grid 6 19.699 M4
Grid 7 27.492 M4	Grid 8 28.197 M4	Grid 9 27.513 M4

Cursor:


Total = 30.486 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm



0 dB = 30.490V/m

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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: DASYS (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)

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Peak H-field in A/m

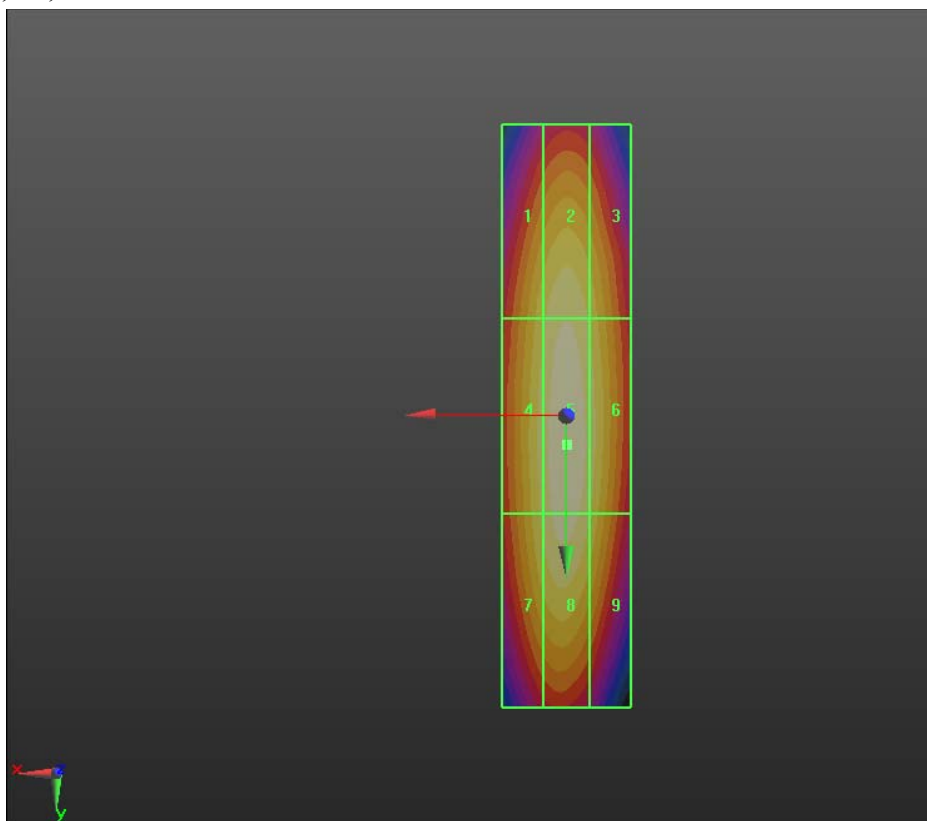
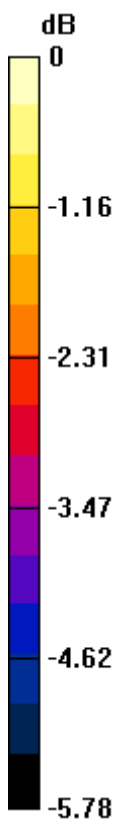
Grid 1 0.437 M4	Grid 2 0.459 M4	Grid 3 0.437 M4
Grid 4 0.453 M4	Grid 5 0.475 M4	Grid 6 0.453 M4
Grid 7 0.447 M4	Grid 8 0.469 M4	Grid 9 0.442 M4

Cursor:


Total = 0.475 A/m

H Category: M4

Location: 0, 4.5, 4.7 mm



0 dB = 0.480A/m

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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: DASYS (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)

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Peak H-field in A/m

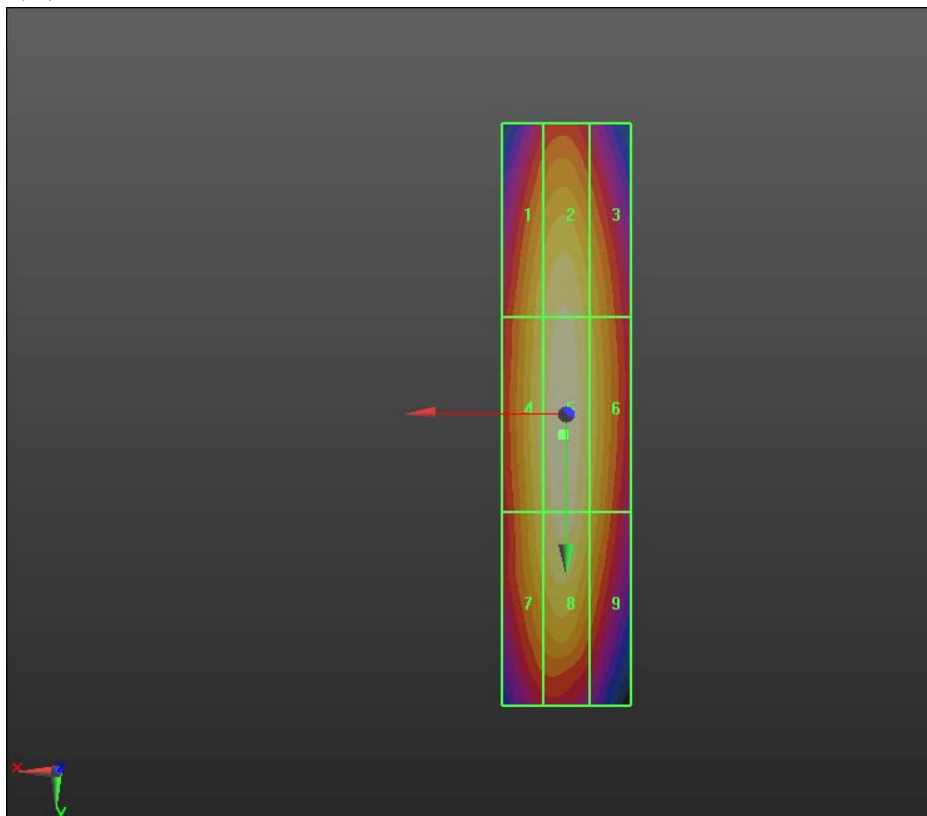
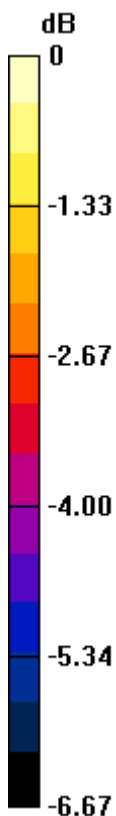
Grid 1 0.154 M4	Grid 2 0.163 M4	Grid 3 0.148 M4
Grid 4 0.159 M4	Grid 5 0.168 M4	Grid 6 0.153 M4
Grid 7 0.155 M4	Grid 8 0.165 M4	Grid 9 0.148 M4

Cursor:


Total = 0.168 A/m

H Category: M4

Location: 0.5, 3, 4.7 mm



0 dB = 0.170A/m

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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)

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Peak H-field in A/m

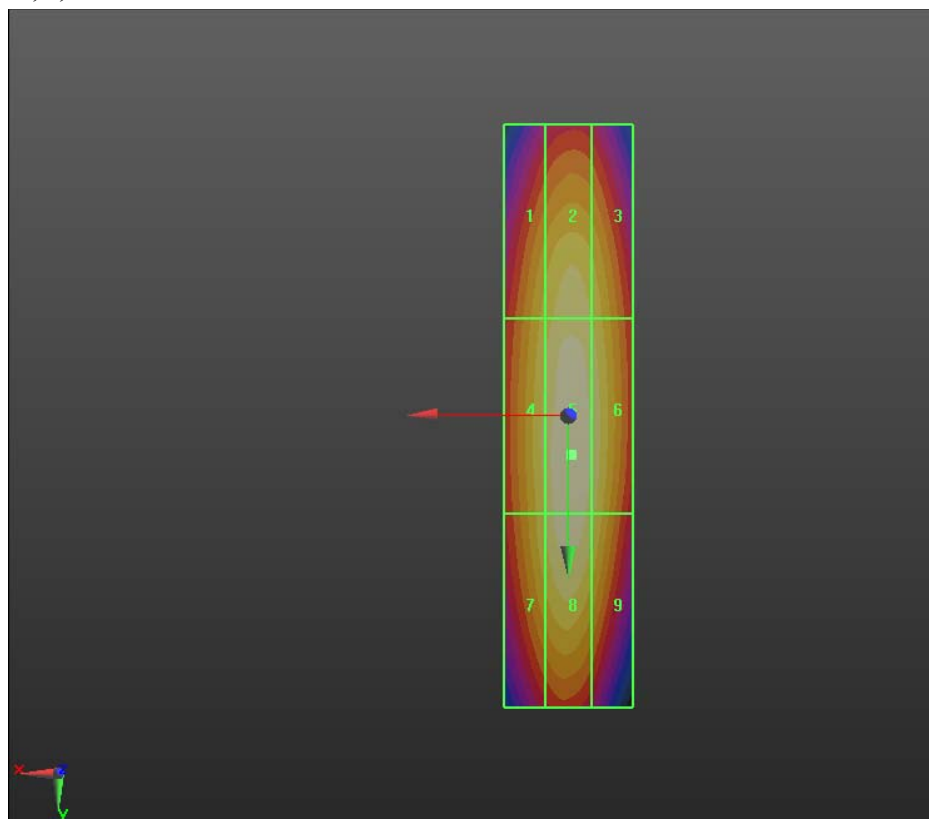
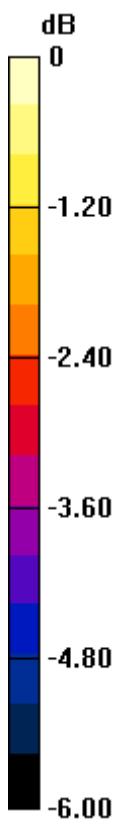
Grid 1 0.429 M4	Grid 2 0.450 M4	Grid 3 0.439 M4
Grid 4 0.449 M4	Grid 5 0.482 M4	Grid 6 0.458 M4
Grid 7 0.441 M4	Grid 8 0.475 M4	Grid 9 0.448 M4

Cursor:


Total = 0.482 A/m

H Category: M4

Location: -0.5, 6, 4.7 mm



0 dB = 0.480A/m

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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)

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Peak H-field in A/m

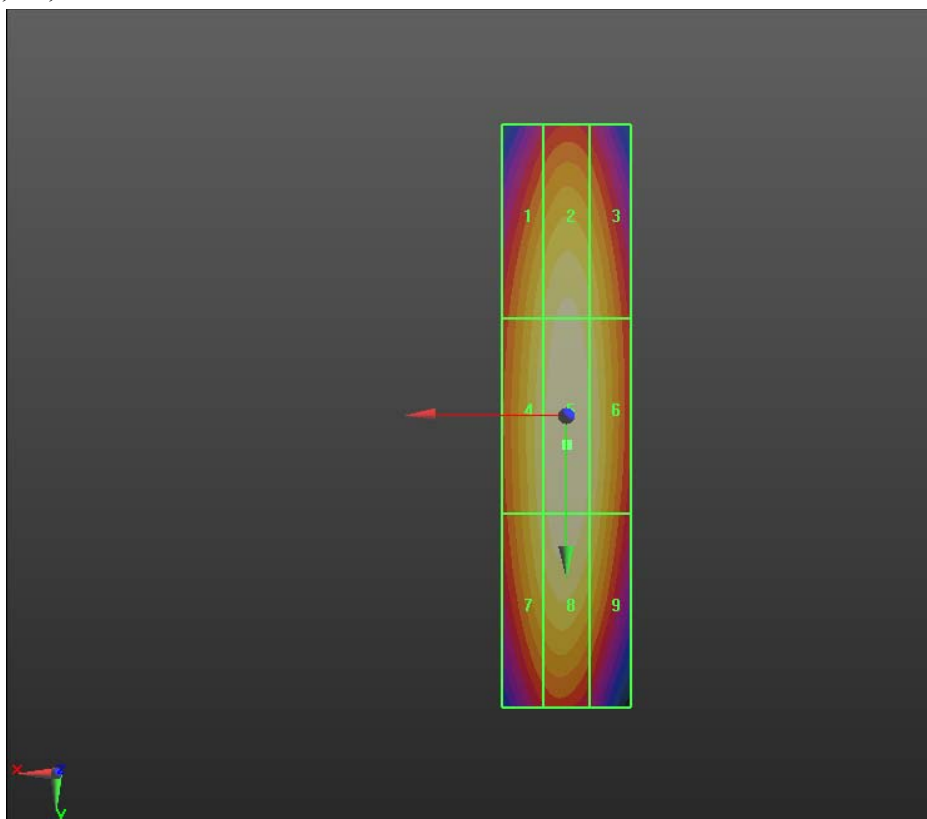
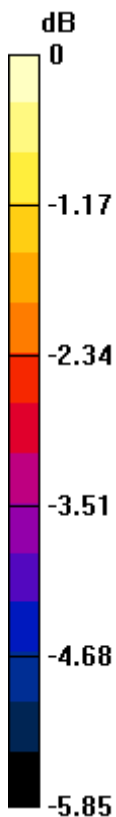
Grid 1 0.276 M4	Grid 2 0.292 M4	Grid 3 0.279 M4
Grid 4 0.286 M4	Grid 5 0.302 M4	Grid 6 0.289 M4
Grid 7 0.283 M4	Grid 8 0.299 M4	Grid 9 0.281 M4

Cursor:


Total = 0.302 A/m

H Category: M4

Location: 0, 4.5, 4.7 mm



0 dB = 0.300A/m

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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)

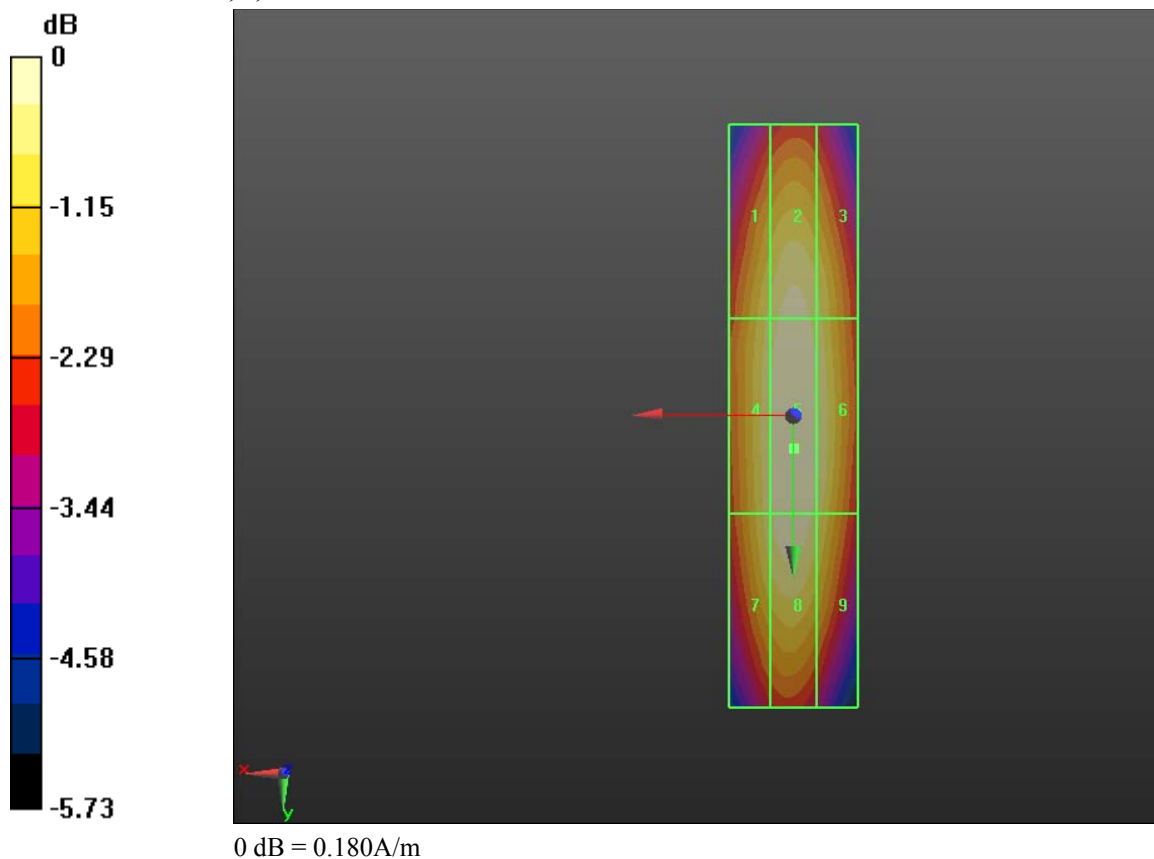
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Peak H-field in A/m

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

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Peak H-field in A/m

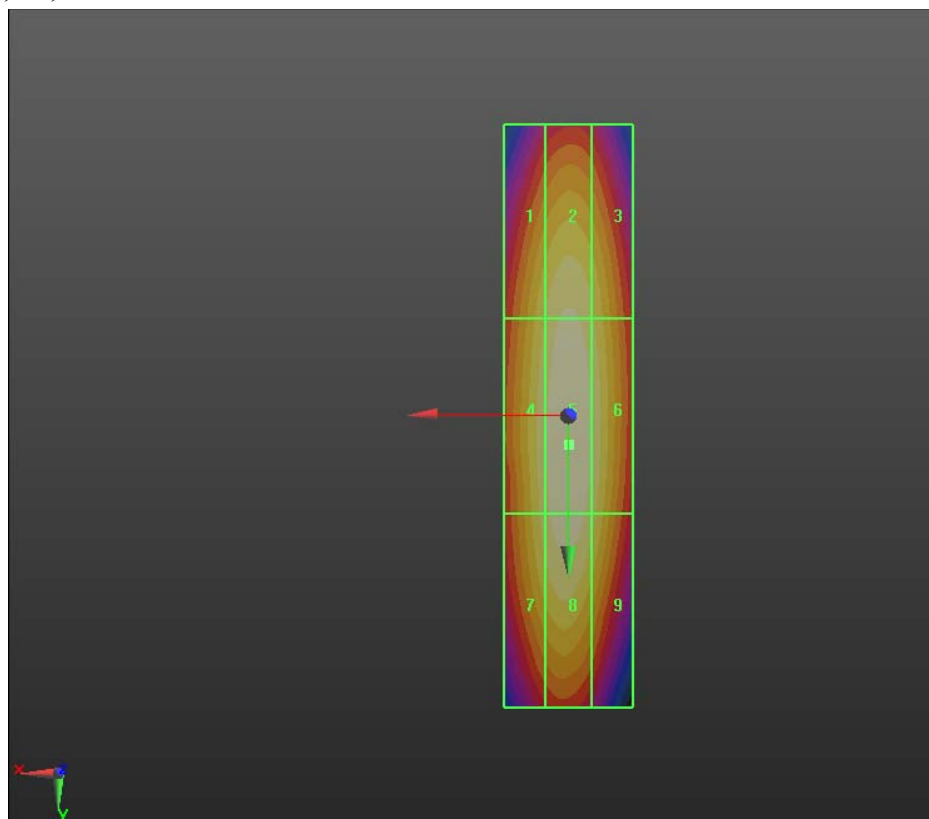
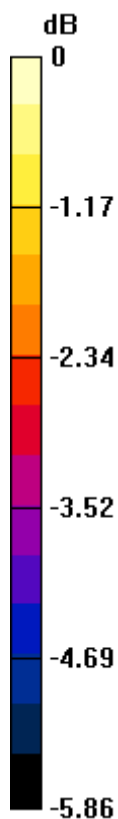
Grid 1 0.175 M4	Grid 2 0.183 M4	Grid 3 0.176 M4
Grid 4 0.182 M4	Grid 5 0.191 M4	Grid 6 0.182 M4
Grid 7 0.179 M4	Grid 8 0.187 M4	Grid 9 0.178 M4

Cursor:


Total = 0.191 A/m

H Category: M4

Location: 0, 4.5, 4.7 mm



0 dB = 0.190A/m

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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: DASYS (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)

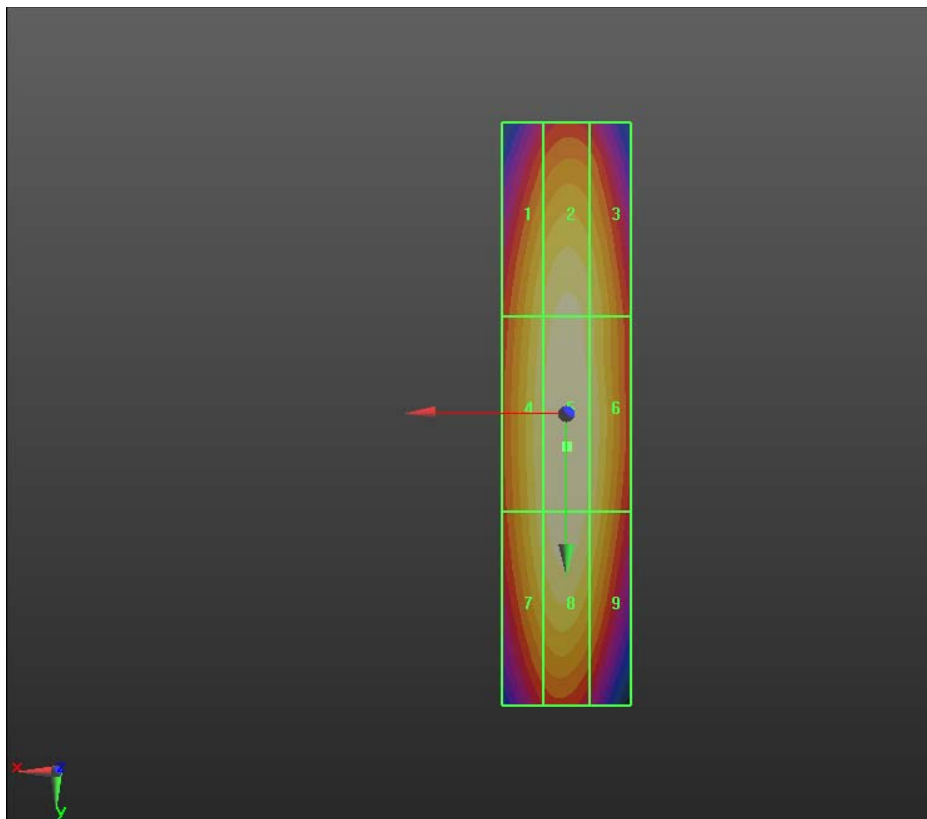
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDU71CW/RDV71UW		Page 70 (179)
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Peak H-field in A/m


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



0 dB = 0.120A/m

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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: DASYS (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)

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Peak H-field in A/m

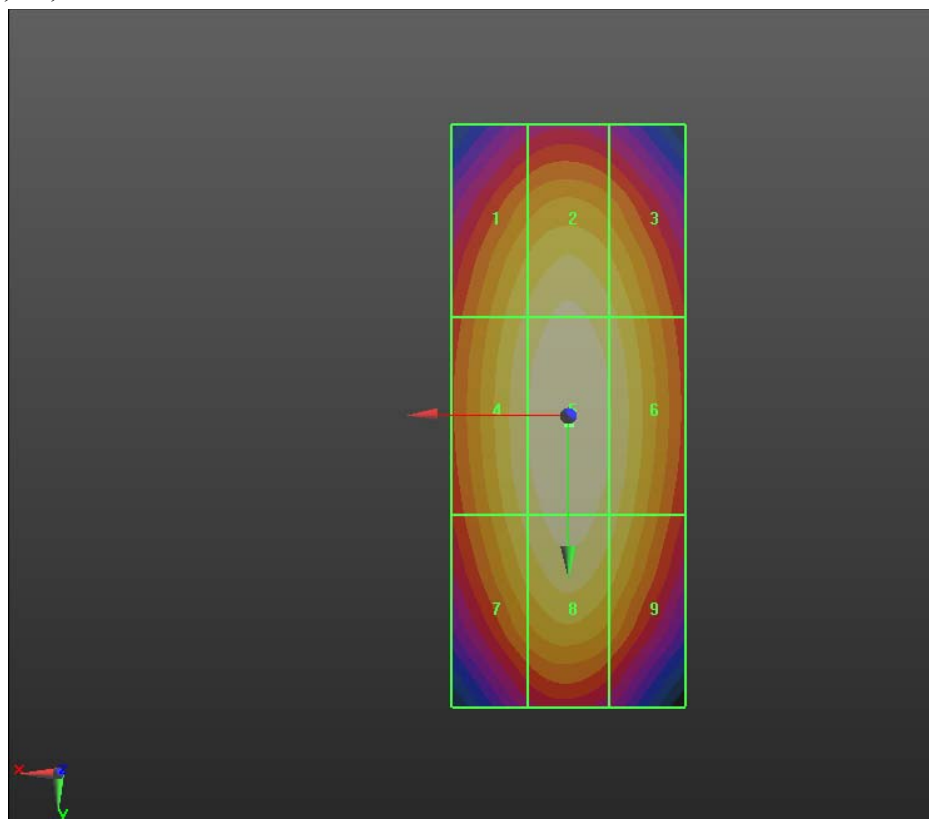
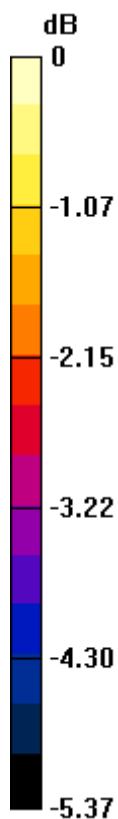
Grid 1 0.419 M2	Grid 2 0.436 M2	Grid 3 0.420 M2
Grid 4 0.432 M2	Grid 5 0.451 M2	Grid 6 0.434 M2
Grid 7 0.421 M2	Grid 8 0.442 M2	Grid 9 0.423 M2

Cursor:


Total = 0.451 A/m

H Category: M2

Location: 0, 0.5, 4.7 mm



0 dB = 0.450A/m

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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)

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Peak H-field in A/m

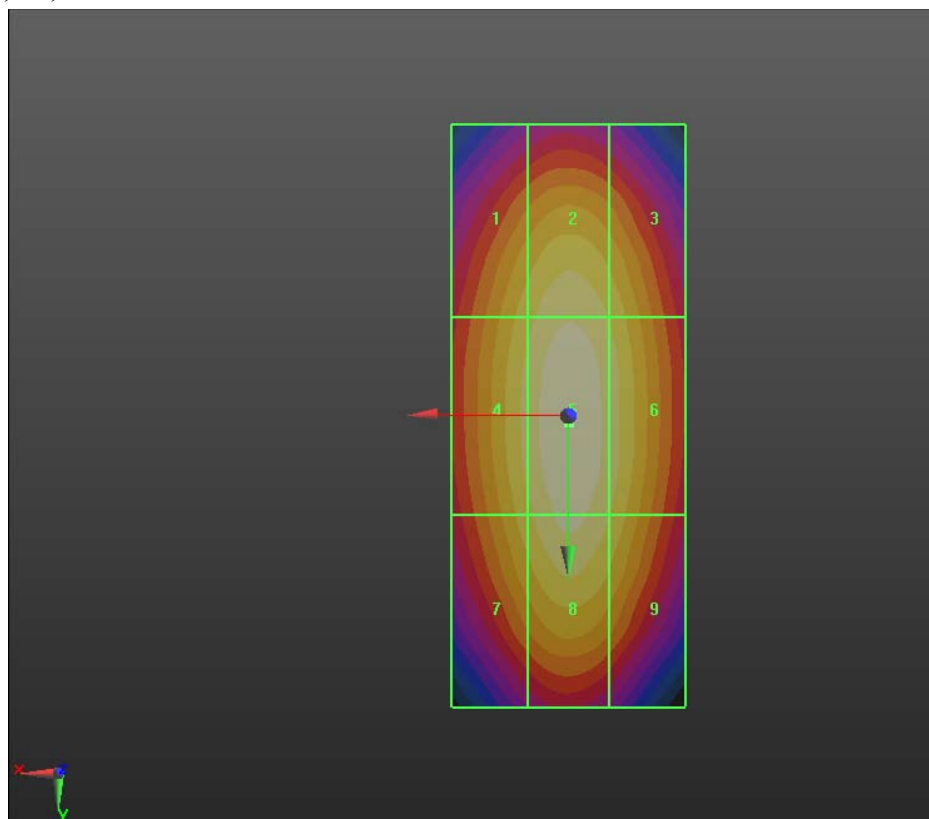
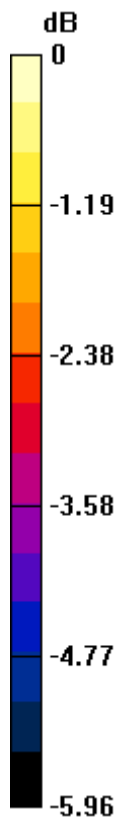
Grid 1 0.090 M4	Grid 2 0.095 M4	Grid 3 0.091 M4
Grid 4 0.093 M4	Grid 5 0.099 M4	Grid 6 0.094 M4
Grid 7 0.090 M4	Grid 8 0.097 M4	Grid 9 0.091 M4

Cursor:


Total = 0.099 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm



0 dB = 0.100A/m

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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)

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Peak H-field in A/m

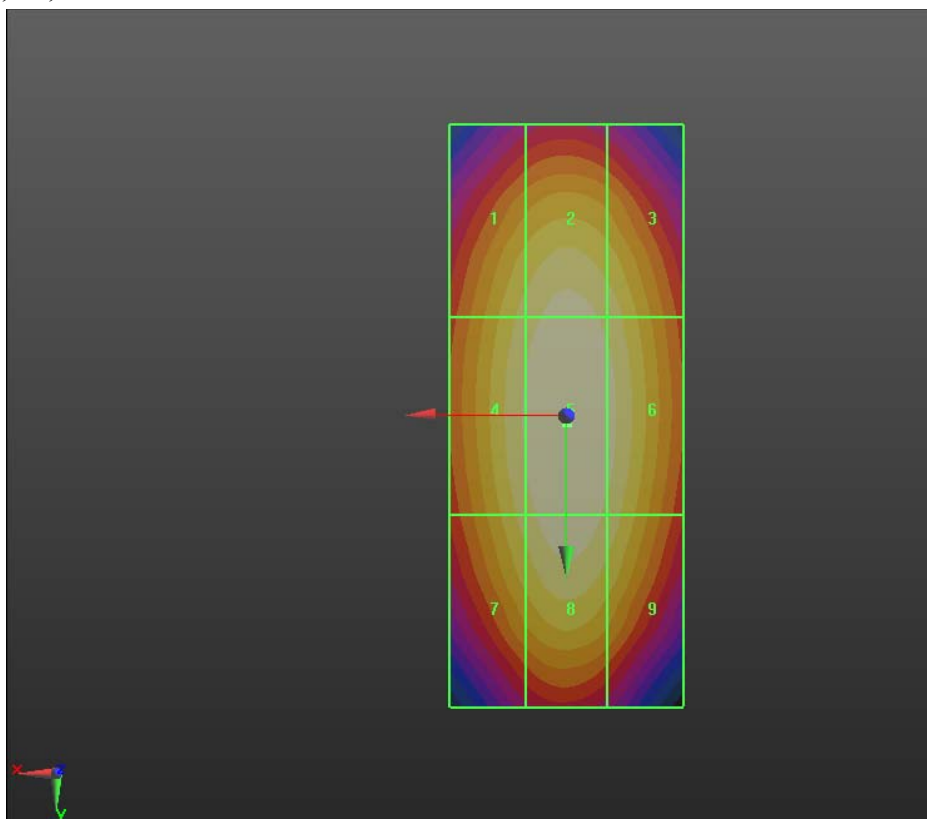
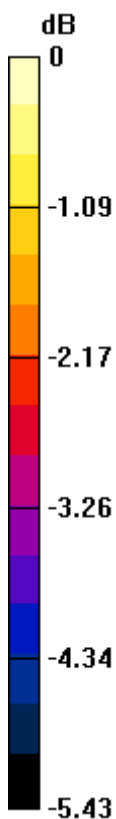
Grid 1 0.263 M3	Grid 2 0.274 M3	Grid 3 0.265 M3
Grid 4 0.271 M3	Grid 5 0.284 M3	Grid 6 0.274 M3
Grid 7 0.263 M3	Grid 8 0.278 M3	Grid 9 0.266 M3

Cursor:


Total = 0.284 A/m

H Category: M3

Location: 0, 0.5, 4.7 mm



0 dB = 0.280A/m

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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: DASYS (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

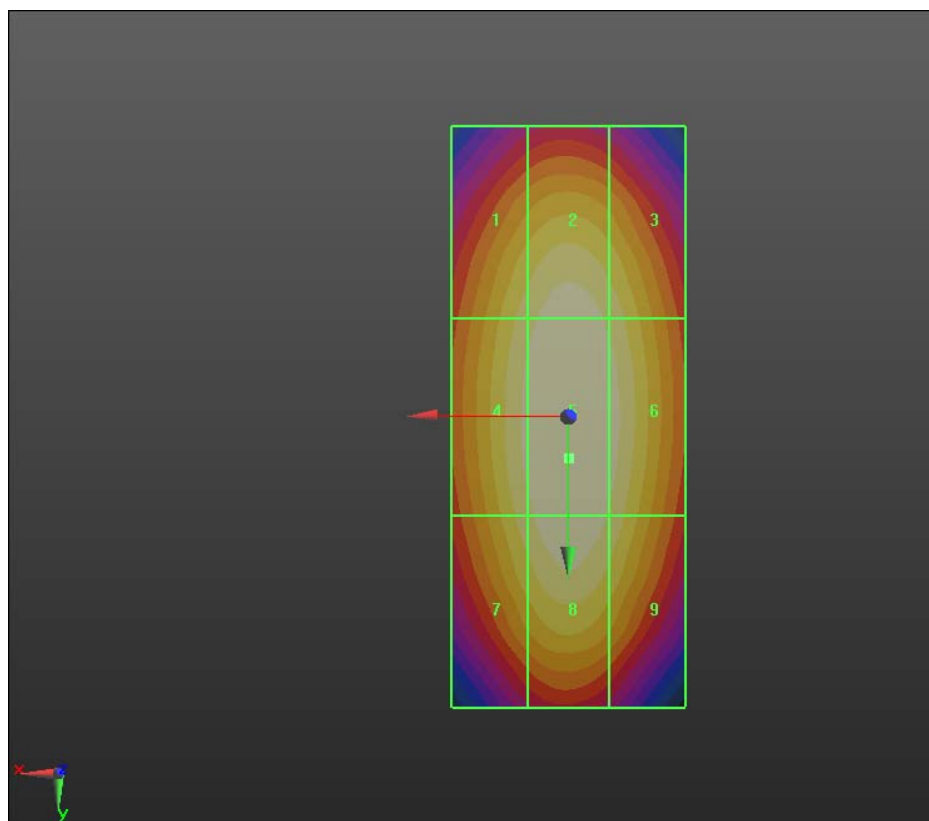
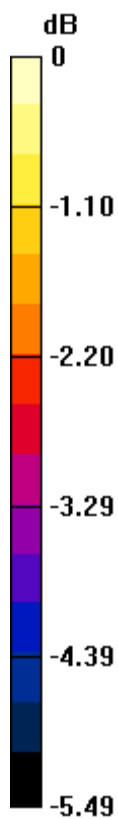
Reference Value = 0.196 A/m; Power Drift = -0.02 dB

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


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Peak H-field in A/m

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



0 dB = 0.180A/m

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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: DASYS (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)

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Peak H-field in A/m

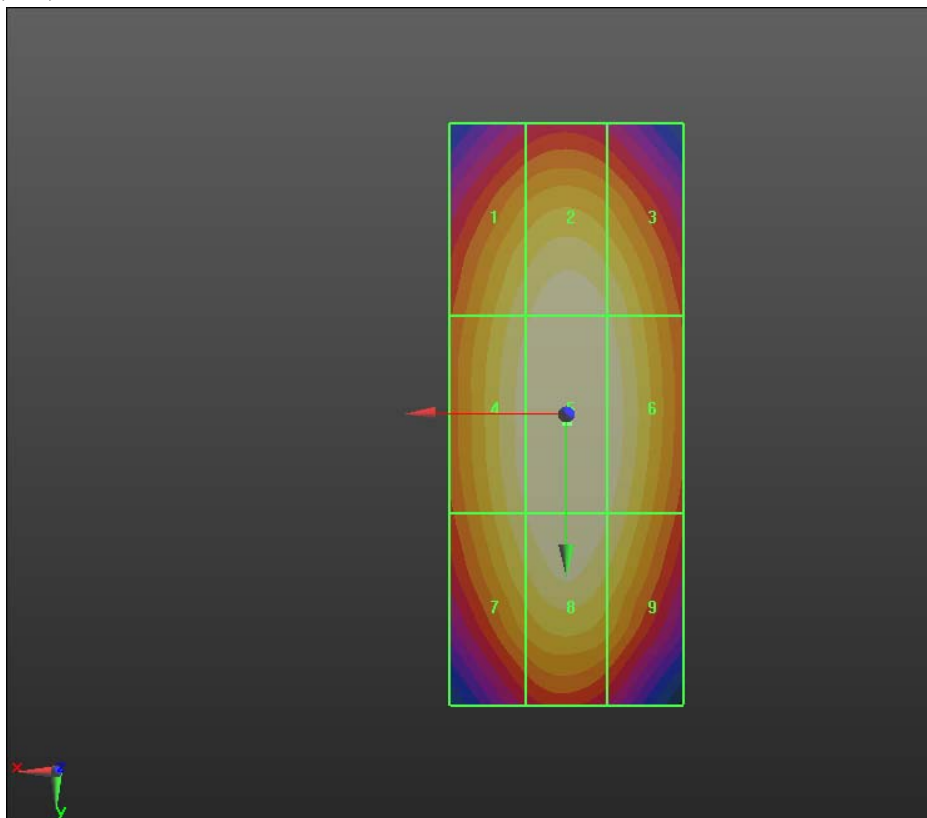
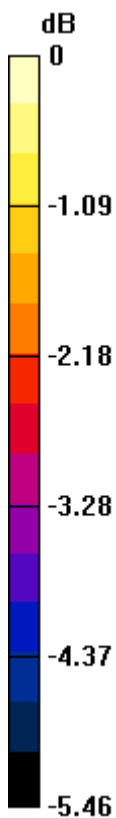
Grid 1 0.143 M4	Grid 2 0.150 M4	Grid 3 0.145 M4
Grid 4 0.147 M4	Grid 5 0.154 M4	Grid 6 0.149 M4
Grid 7 0.144 M4	Grid 8 0.152 M4	Grid 9 0.145 M4

Cursor:


Total = 0.154 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm



0 dB = 0.150A/m

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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: DASYS (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)

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Peak H-field in A/m

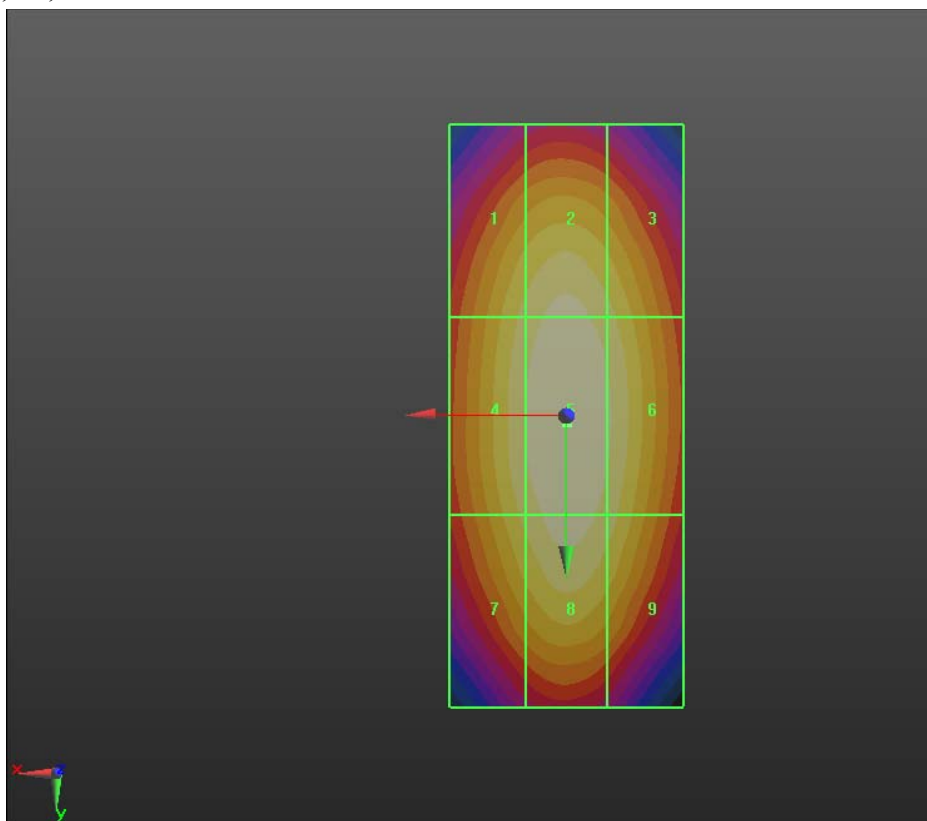
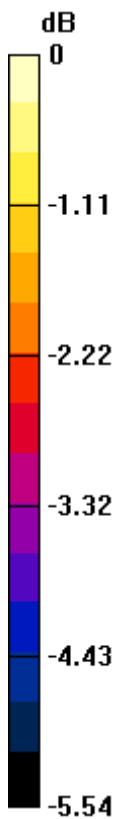
Grid 1 0.149 M4	Grid 2 0.156 M4	Grid 3 0.149 M4
Grid 4 0.153 M4	Grid 5 0.161 M4	Grid 6 0.155 M4
Grid 7 0.149 M4	Grid 8 0.157 M4	Grid 9 0.150 M4

Cursor:


Total = 0.161 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm



0 dB = 0.160A/m

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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)

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Peak H-field in A/m

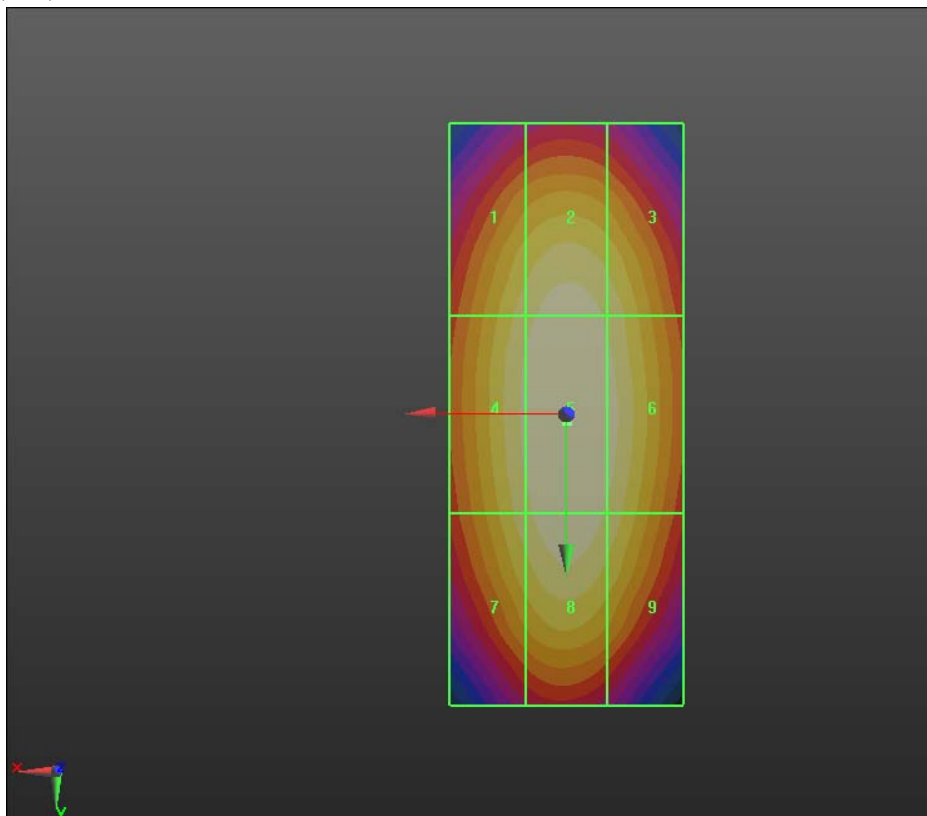
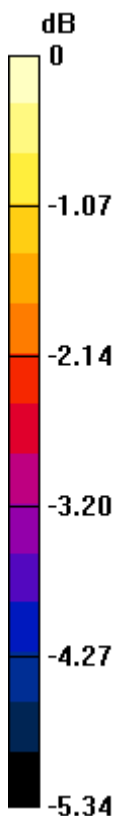
Grid 1 0.094 M4	Grid 2 0.099 M4	Grid 3 0.095 M4
Grid 4 0.097 M4	Grid 5 0.102 M4	Grid 6 0.098 M4
Grid 7 0.095 M4	Grid 8 0.100 M4	Grid 9 0.095 M4

Cursor:


Total = 0.102 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm



0 dB = 0.100A/m

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Date/Time: 4/5/2011 4:01:05 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: DASYS (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)

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 = 133.4 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm


Reference Value = 128.7 V/m; Power Drift = 0.02 dB

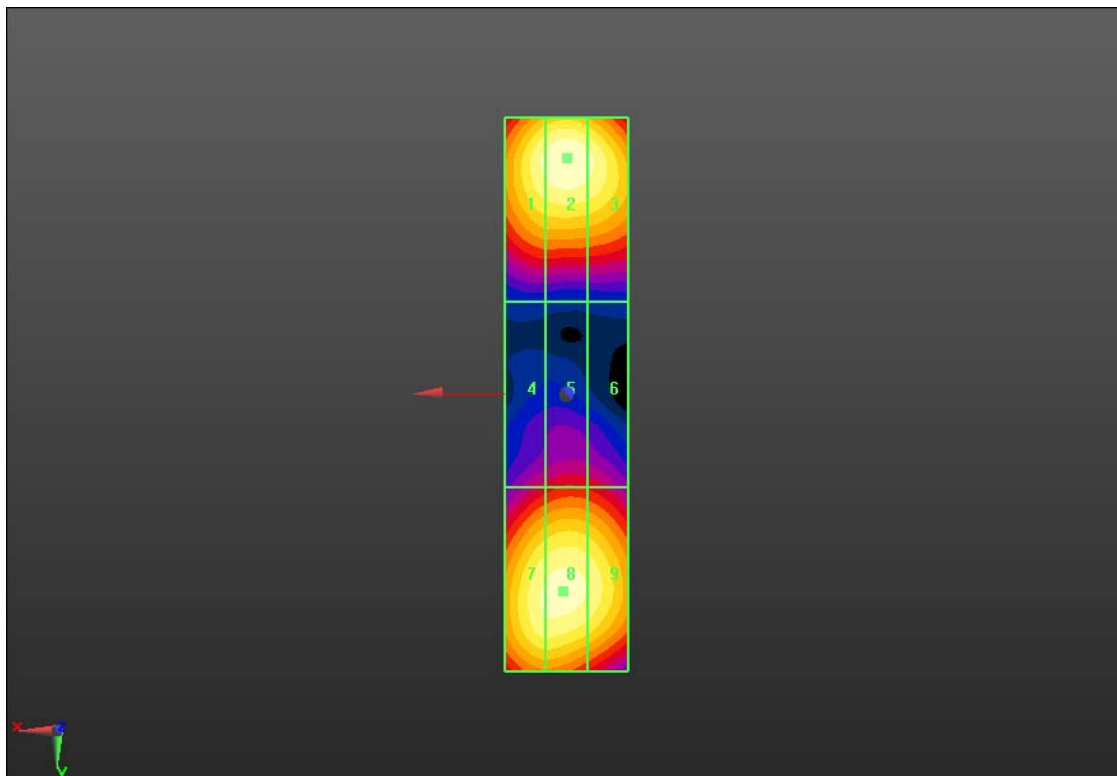
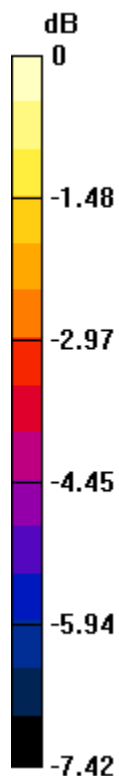
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

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Peak E-field in V/m

Grid 1 128.3 M2	Grid 2 133.4 M2	Grid 3 128.8 M2
Grid 4 86.427 M3	Grid 5 90.378 M3	Grid 6 88.820 M3
Grid 7 127.6 M2	Grid 8 129.5 M2	Grid 9 125.5 M2

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0 dB = 133.4V/m

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Date/Time: 4/5/2011 3:15:31 PM, Date/Time: 4/5/2011 3:35:37 PM, Date/Time: 4/5/2011 3:50:05 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_1733 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: WCDMA FDD IV, Communication System: CW, Communication System: AM80%; Communication System Band: 1733; Frequency: 1732.6 MHz, Frequency: 1733 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)

Dipole WCDMA 1733 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 = 45.953 V/m


Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm


Reference Value = 45.671 V/m; Power Drift = 0.0022 dB

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

Peak E-field in V/m

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Grid 1 44.309 M4	Grid 2 45.897 M4	Grid 3 43.942 M4
Grid 4 32.194 M4	Grid 5 33.381 M4	Grid 6 32.650 M4
Grid 7 45.541 M4	Grid 8 45.953 M4	Grid 9 44.163 M4

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**Dipole E-Field CW 1733 MHz_PMF measurement/E Scan - measurement
distance from the probe sensor center to CD1880 Dipole = 10mm**

2/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm,
dy=5mm

Maximum value of peak Total field = 44.684 V/m

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 44.777 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 42.576 M4	Grid 2 44.154 M4	Grid 3 42.558 M4
Grid 4 31.220 M4	Grid 5 32.494 M4	Grid 6 31.749 M4
Grid 7 44.140 M4	Grid 8 44.684 M4	Grid 9 42.994 M4

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**Dipole AM80%_1733 MHz_E-Field measurement/E Scan -
measurement distance from the probe sensor center to CD1880
Dipole = 10mm 2 2/Hearing Aid Compatibility Test (41x181x1):**

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

Maximum value of peak Total field = 28.697 V/m

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

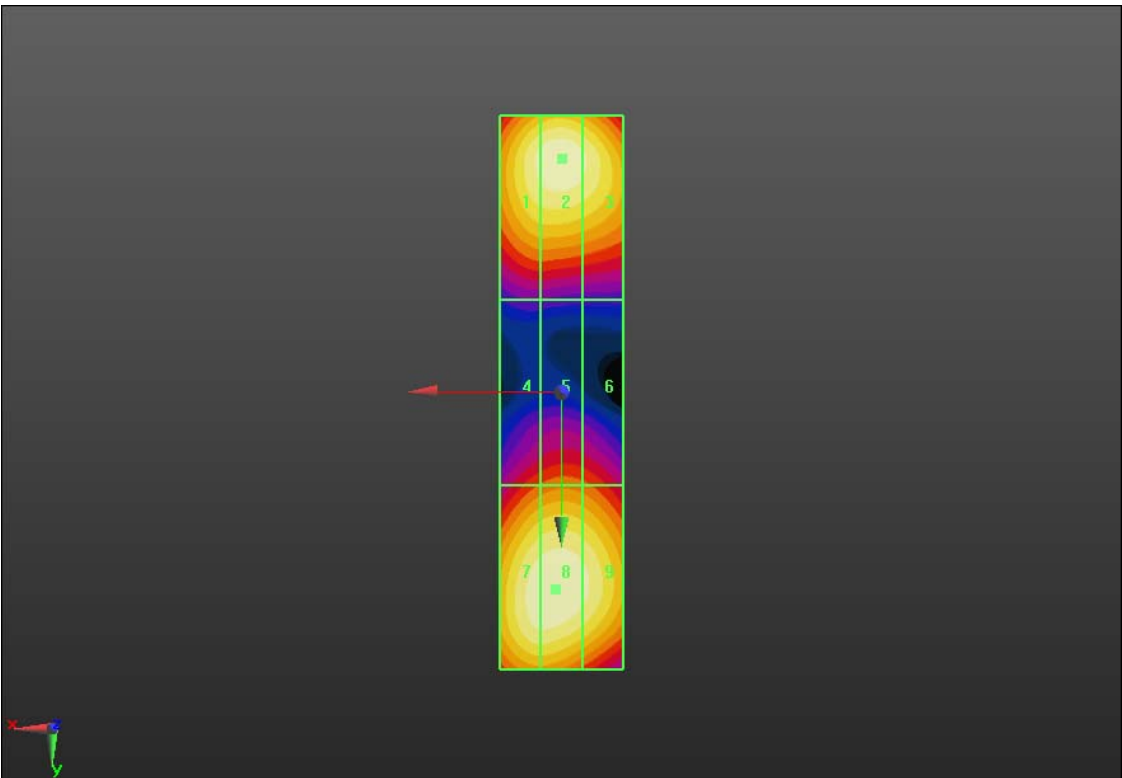
Reference Value = 28.666 V/m; Power Drift = -0.03 dB

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


Peak E-field in V/m

Grid 1 27.579 M4	Grid 2 28.576 M4	Grid 3 27.503 M4
Grid 4 20.034 M4	Grid 5 20.866 M4	Grid 6 20.402 M4
Grid 7 28.387 M4	Grid 8 28.697 M4	Grid 9 27.712 M4

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0 dB = 45.950V/m

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Date/Time: 4/5/2011 4:45:41 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: DASYS (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)

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 = 0.476 A/m


Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm


Reference Value = 0.502 A/m; Power Drift = 0.04 dB

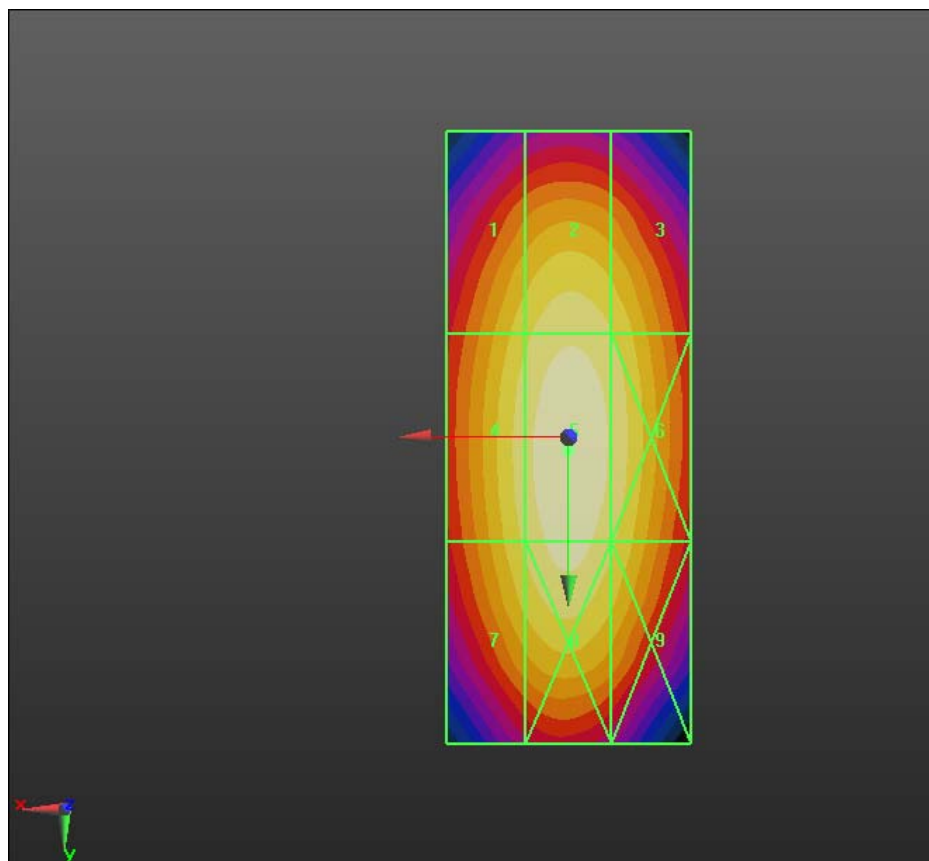
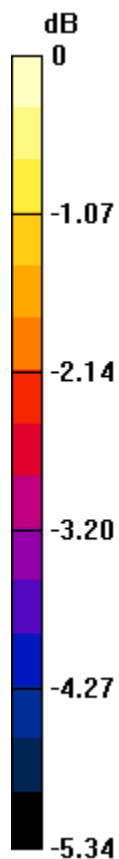
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m


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Grid 1 0.438 M2	Grid 2 0.458 M2	Grid 3 0.443 M2
Grid 4 0.455 M2	Grid 5 0.476 M2	Grid 6 0.458 M2
Grid 7 0.447 M2	Grid 8 0.469 M2	Grid 9 0.447 M2

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0 dB = 0.480A/m

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Date/Time: 4/5/2011 4:22:30 PM, Date/Time: 4/5/2011 4:37:10 PM, Date/Time: 4/5/2011 4:40:56 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_1733 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: WCDMA FDD IV, Communication System: CW, Communication System: AM80%; Communication System Band: Exported from older format (data unavailable - please correct)., Communication System Band: D1800 (1800.0 MHz); Frequency: 1732.6 MHz, Frequency: 1733 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)

Dipole WCDMA 1733 MHz_PMF_H-Field meaurement 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 = 0.165 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm


Reference Value = 0.175 A/m; Power Drift = -0.0064 dB

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

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Peak H-field in A/m

Grid 1 0.148 M4	Grid 2 0.156 M4	Grid 3 0.151 M4
Grid 4 0.156 M4	Grid 5 0.165 M4	Grid 6 0.159 M4
Grid 7 0.151 M4	Grid 8 0.160 M4	Grid 9 0.153 M4

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**Dipole CW 1733_PMF_H-Field measurement with H3DV6 probe/H
Scan - measurement distance from the probe sensor center to
CD1880 Dipole = 10mm 2/Hearing Aid Compatibility Test**

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

Maximum value of peak Total field = 0.160 A/m

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.172 A/m; Power Drift = -0.08 dB

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

Peak H-field in A/m

Grid 1 0.144 M4	Grid 2 0.151 M4	Grid 3 0.147 M4
Grid 4 0.152 M4	Grid 5 0.160 M4	Grid 6 0.155 M4
Grid 7 0.148 M4	Grid 8 0.156 M4	Grid 9 0.149 M4

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Dipole AM80% 1733_PMF_H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2 2/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

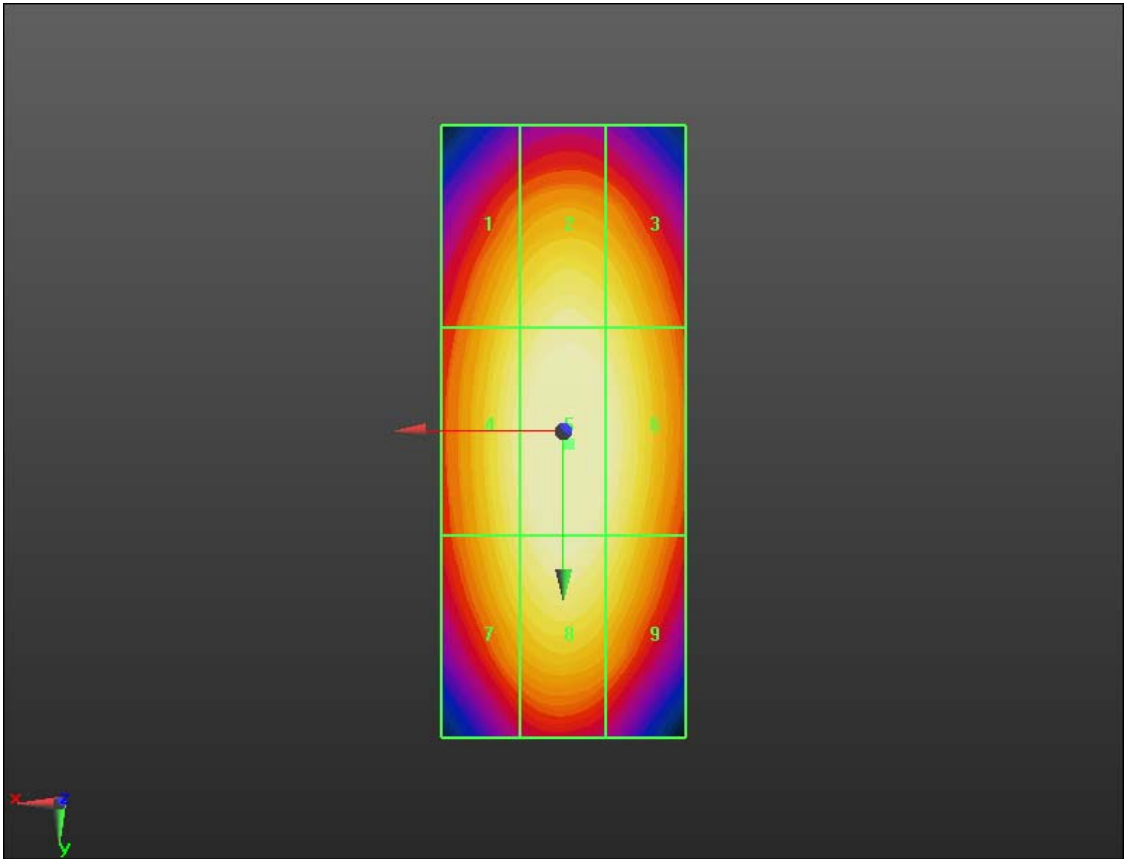
Reference Value = 0.110 A/m; Power Drift = -0.04 dB

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


Peak H-field in A/m

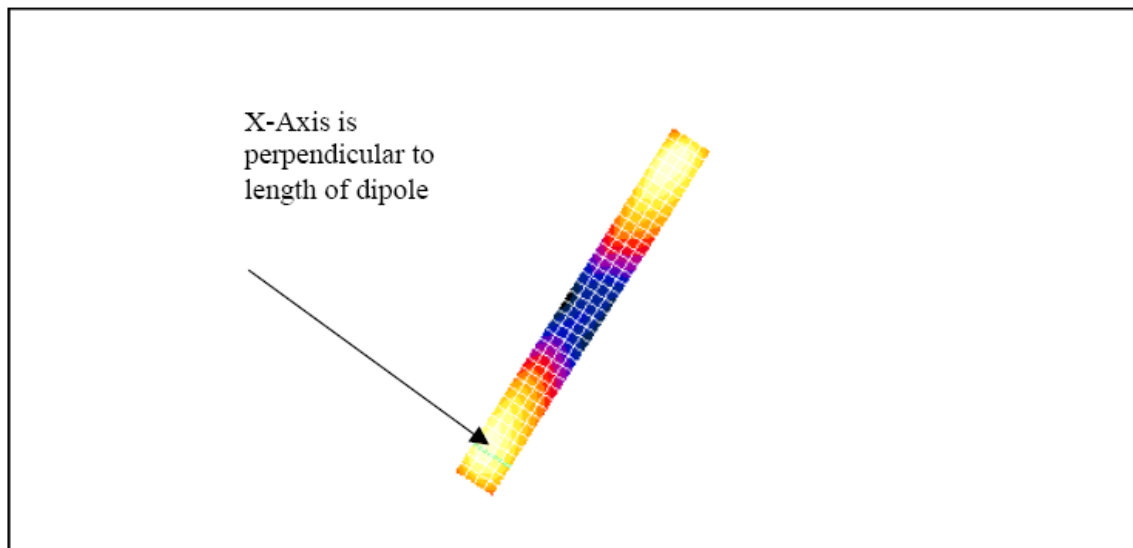
Grid 1 0.091 M4	Grid 2 0.097 M4	Grid 3 0.093 M4
Grid 4 0.096 M4	Grid 5 0.102 M4	Grid 6 0.098 M4
Grid 7 0.093 M4	Grid 8 0.099 M4	Grid 9 0.094 M4

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0 dB = 0.160A/m


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

Comparison of 5mm and 2mm step sizes

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

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: H Device Section

DASY4 Configuration:

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

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

Measurement grid: dx=5mm, dy=5mm
Maximum value of Total (measured) = 134.8 V/m

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

Measurement grid: dx=5mm, dy=5mm
Maximum value of Total field (slot averaged) = 131.0 V/m

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


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

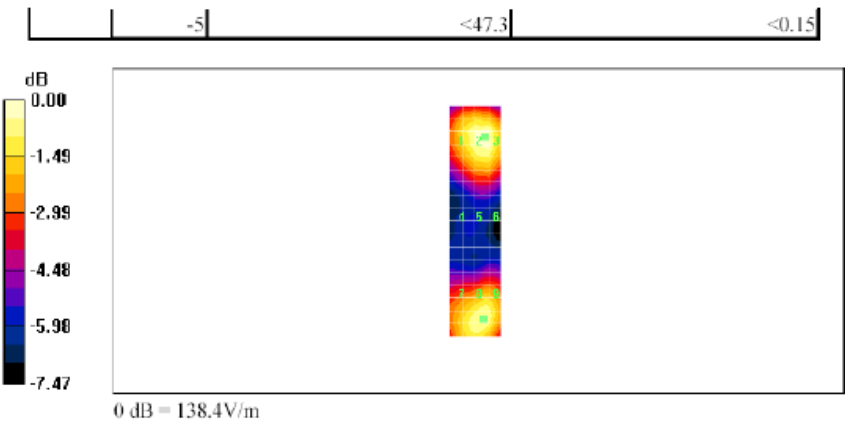
Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.2	138.1	138.4	123.2	138.1	138.4
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
80.9	92.3	92.2	80.9	92.3	92.2
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
119.8	131.0	130.7	119.8	131.0	130.7


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

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Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: H Device Section

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

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

Measurement grid: dx=2mm, dy=2mm
Maximum value of Total (measured) = 138.0 V/m

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

Measurement grid: dx=2mm, dy=2mm
Maximum value of Total field (slot averaged) = 131.2 V/m
Hearing Aid Near-Field Category: M2 (AWF 0 dB)


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

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

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

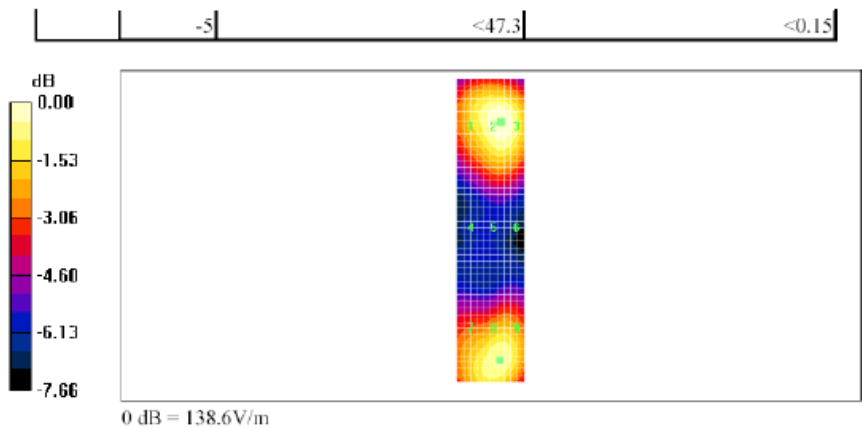
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Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_5 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

DASY4 Configuration:

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

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

Measurement grid: dx=5mm, dy=5mm
Maximum value of Total (measured) = 0.406 A/m

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


Measurement grid: dx=5mm, dy=5mm
Maximum value of Total field (slot averaged) = 0.406 A/m

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

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

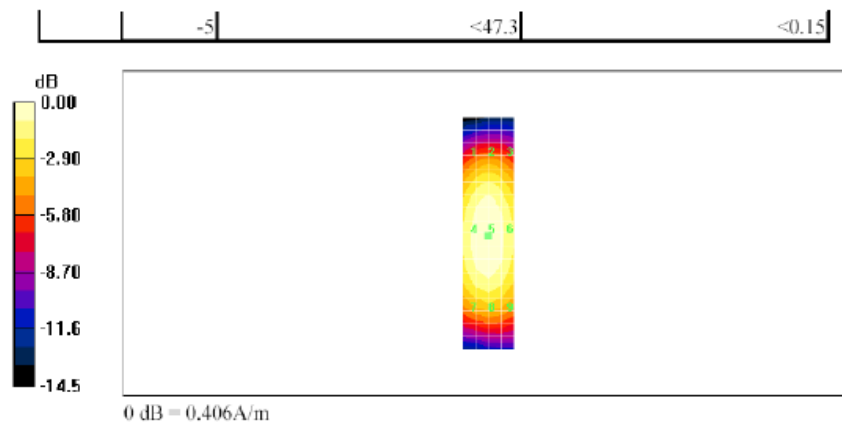
Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.342	0.359	0.344	0.342	0.359	0.344
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.389	0.406	0.389	0.389	0.406	0.389
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.363	0.378	0.363	0.363	0.378	0.363

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

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Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

DASY4 Configuration:

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

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

Measurement grid: dx=2mm, dy=2mm
Maximum value of Total (measured) = 0.406 A/m

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

Measurement grid: dx=2mm, dy=2mm
Maximum value of Total field (slot averaged) = 0.406 A/m

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


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

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

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

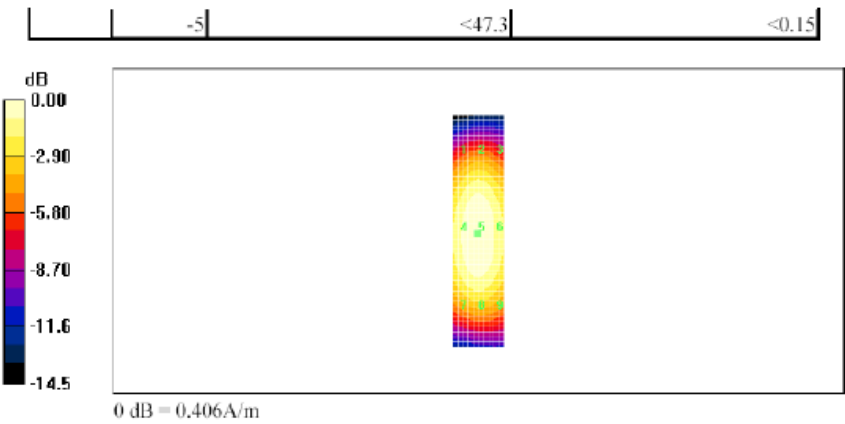
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A.3 RF emission field plots

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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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Peak E-field in V/m

Grid 1 118.0 M4	Grid 2 136.7 M4	Grid 3 131.6 M4
Grid 4 121.5 M4	Grid 5 140.3 M4	Grid 6 134.4 M4
Grid 7 122.9 M4	Grid 8 139.4 M4	Grid 9 133.1 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 1 116.8 M4	Grid 2 150.4 M3	Grid 3 150.5 M3
Grid 4 121.9 M4	Grid 5 154.3 M3	Grid 6 154.3 M3
Grid 7 128.6 M4	Grid 8 154.4 M3	Grid 9 154.4 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)

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Peak E-field in V/m

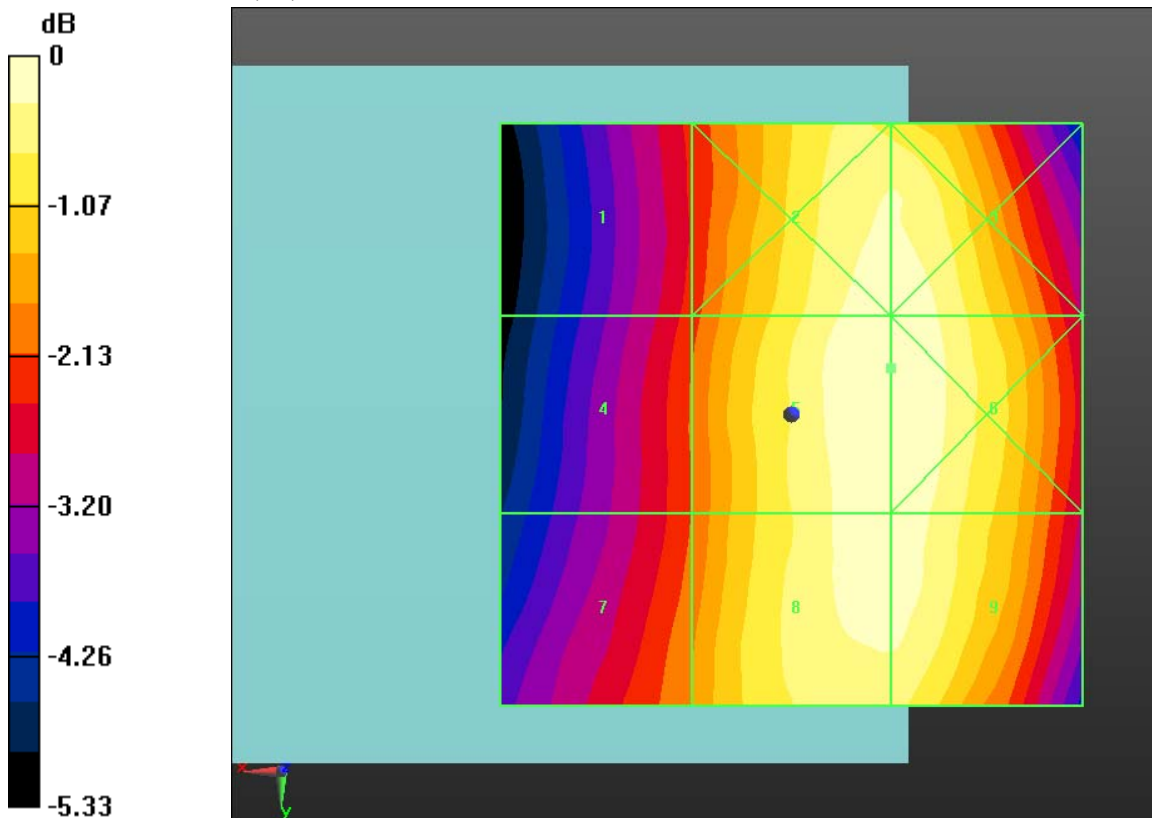
Grid 1 127.5 M4	Grid 2 164.1 M3	Grid 3 164.1 M3
Grid 4 130.7 M4	Grid 5 165.7 M3	Grid 6 165.7 M3
Grid 7 135.6 M4	Grid 8 162.9 M3	Grid 9 162.9 M3


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: DASYS (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

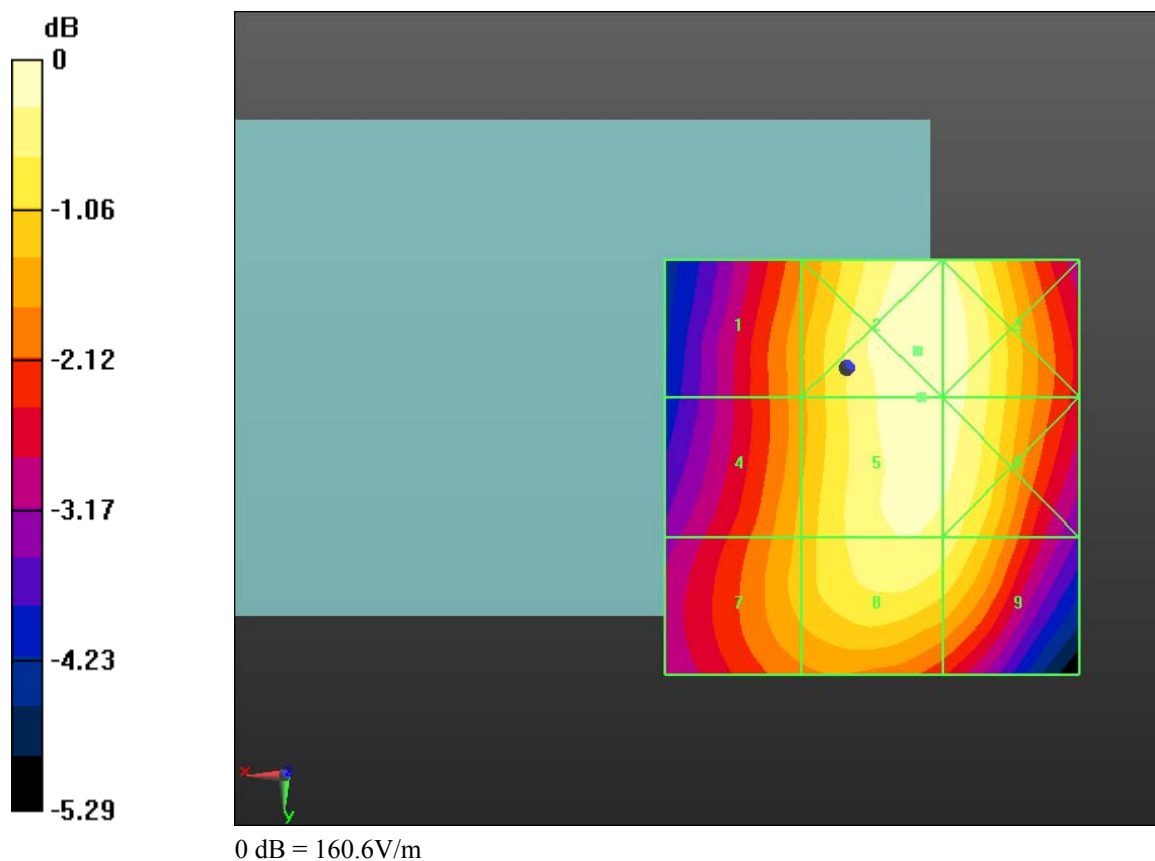
Reference Value = 64.183 V/m; Power Drift = -0.02 dB


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

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Peak E-field in V/m

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

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Peak E-field in V/m

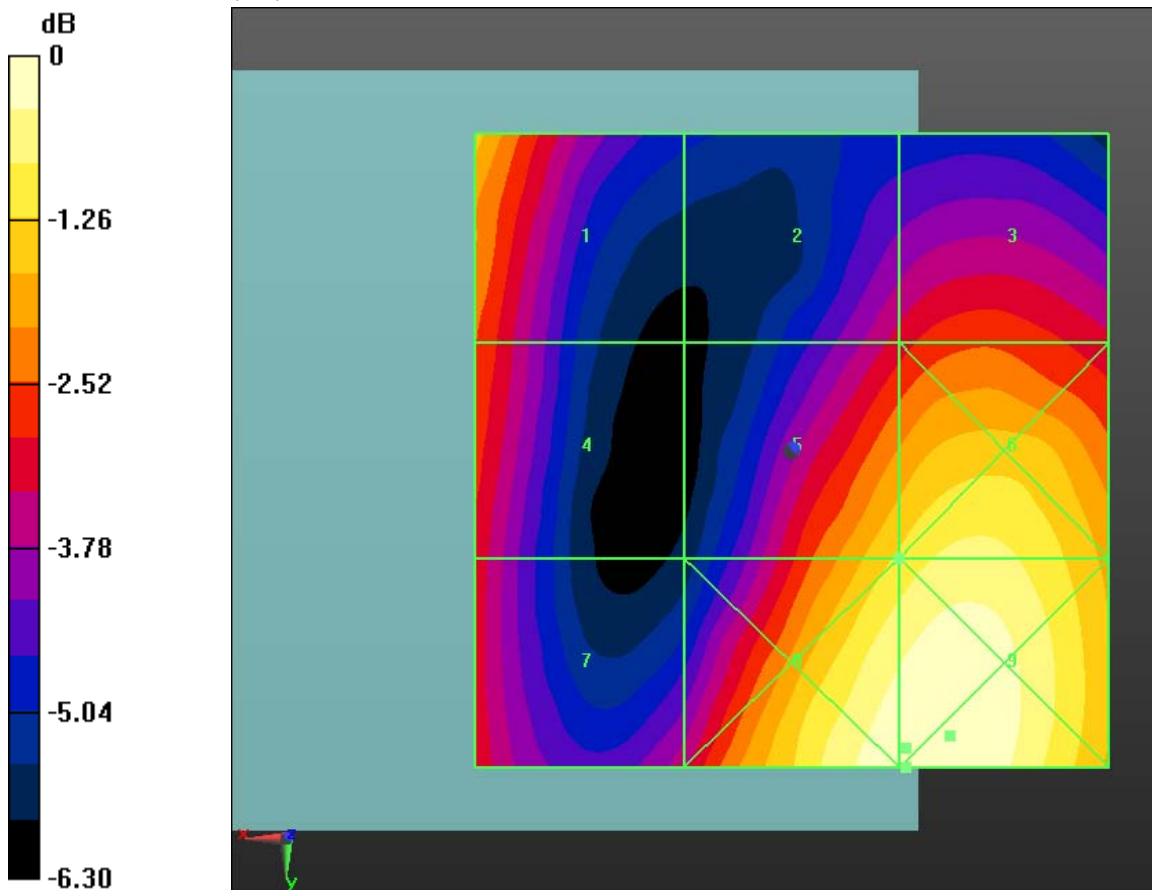
Grid 1 63.086 M3	Grid 2 55.906 M3	Grid 3 58.028 M3
Grid 4 59.991 M3	Grid 5 76.911 M3	Grid 6 79.327 M3
Grid 7 68.615 M3	Grid 8 90.494 M2	Grid 9 90.499 M2

Cursor:


Total = 90.499 V/m

E Category: M2

Location: -9, 25, 8.7 mm



0 dB = 84.400V/m

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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)

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Peak E-field in V/m

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

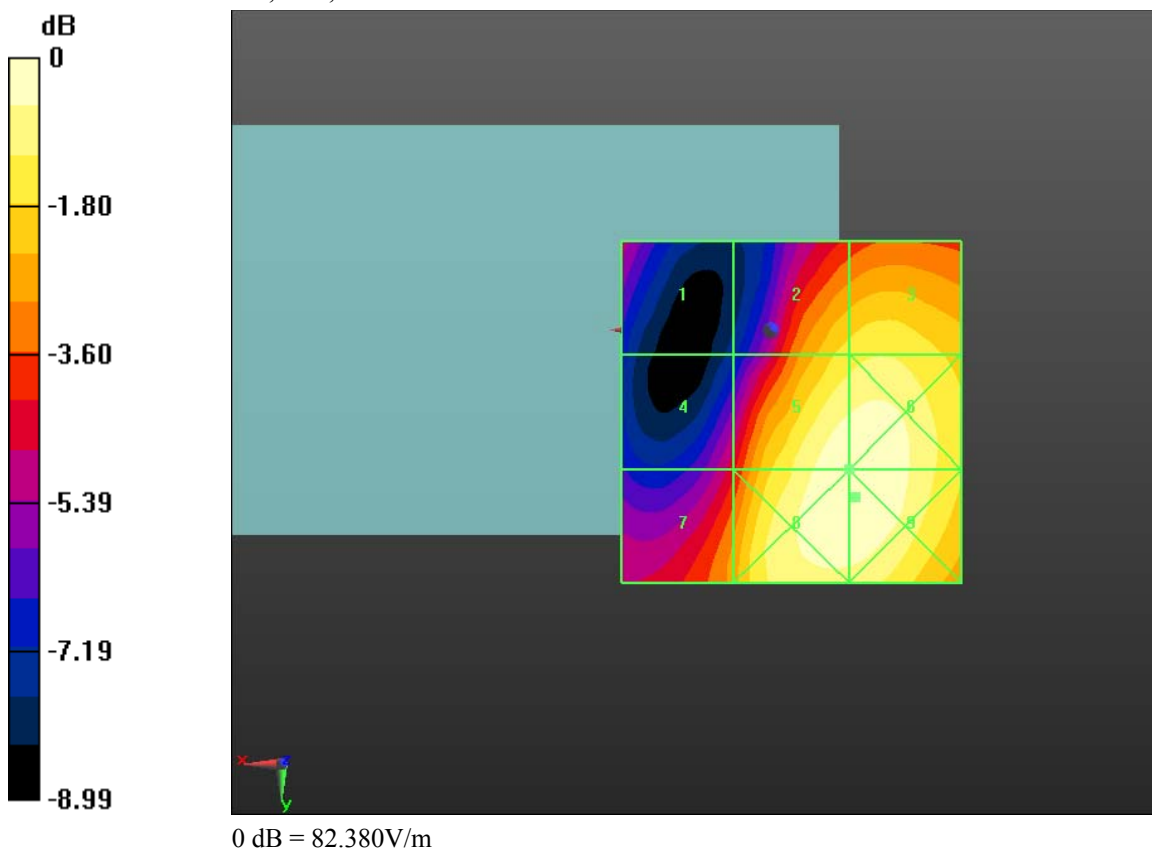
-5 < 149.6 < 0.45


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 48.315 M4	Grid 2 57.299 M4	Grid 3 57.331 M4
Grid 4 49.702 M4	Grid 5 58.257 M4	Grid 6 58.257 M4
Grid 7 51.212 M4	Grid 8 57.631 M4	Grid 9 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 50.455 M4	Grid 2 63.980 M4	Grid 3 64.048 M4
Grid 4 52.894 M4	Grid 5 65.799 M4	Grid 6 65.842 M4
Grid 7 56.196 M4	Grid 8 65.900 M4	Grid 9 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)

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Peak E-field in V/m

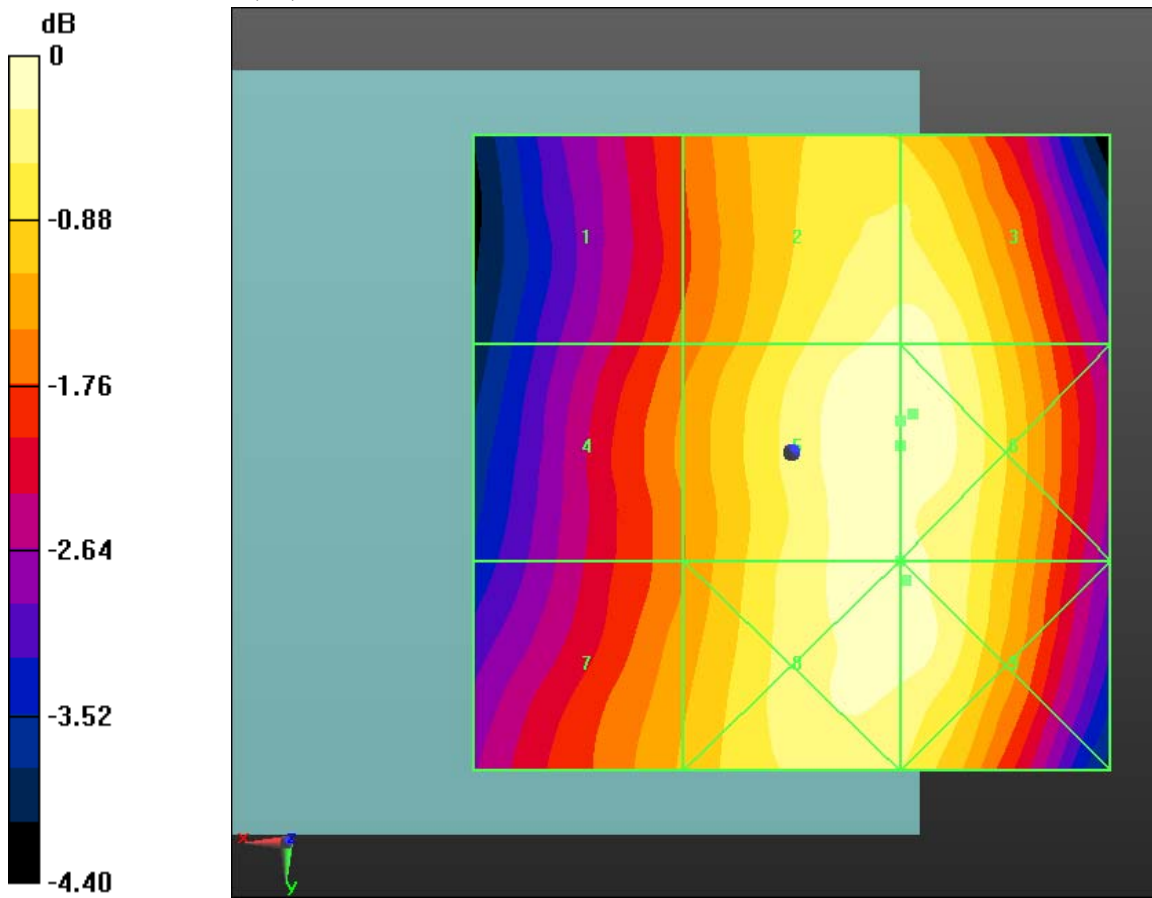
Grid 1 53.873 M4	Grid 2 65.647 M4	Grid 3 65.743 M4
Grid 4 55.139 M4	Grid 5 66.716 M4	Grid 6 66.755 M4
Grid 7 56.044 M4	Grid 8 65.974 M4	Grid 9 65.987 M4

Cursor:

Total = 66.755 V/m


E Category: M4

Location: -9.5, -3, 8.7 mm



0 dB = 58.260V/m

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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)

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Peak E-field in V/m

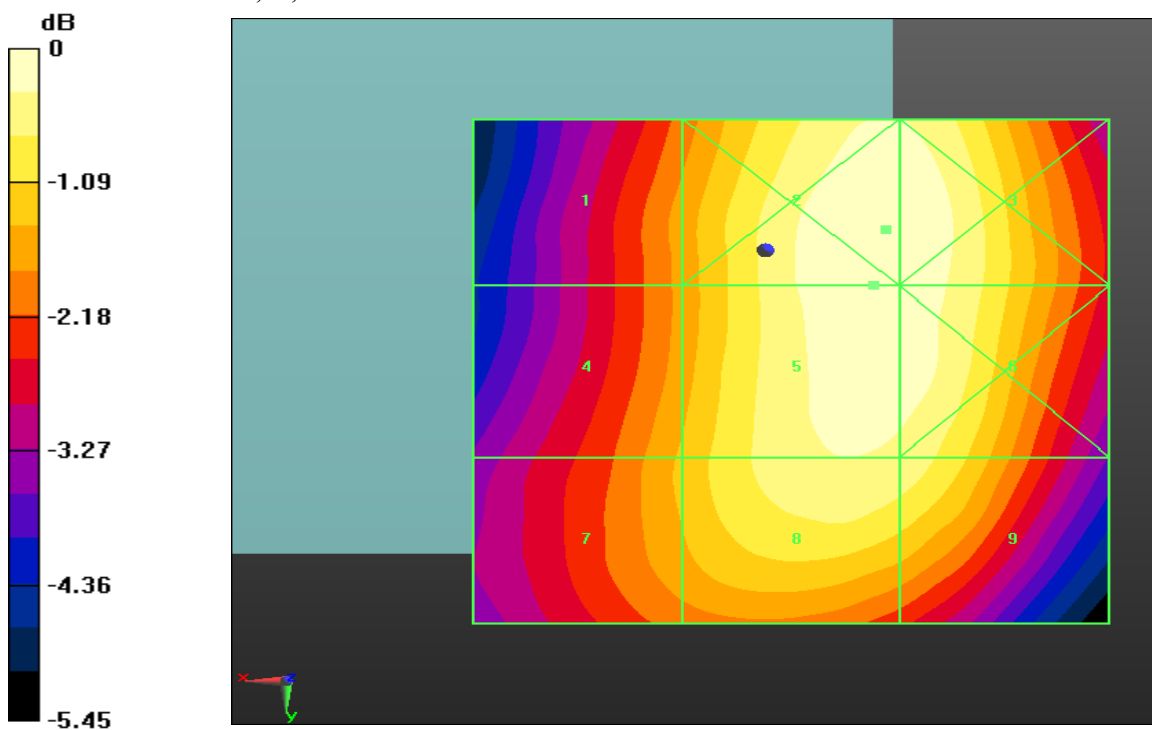
Grid 1 57.179 M4	Grid 2 68.919 M4	Grid 3 68.863 M4
Grid 4 58.849 M4	Grid 5 68.338 M4	Grid 6 68.100 M4
Grid 7 59.002 M4	Grid 8 66.118 M4	Grid 9 65.449 M4

Cursor:


Total = 68.919 V/m

E Category: M4

Location: -9.5, -2, 8.7 mm



0 dB = 68.920V/m

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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: $\sigma = 0$ 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 = 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)

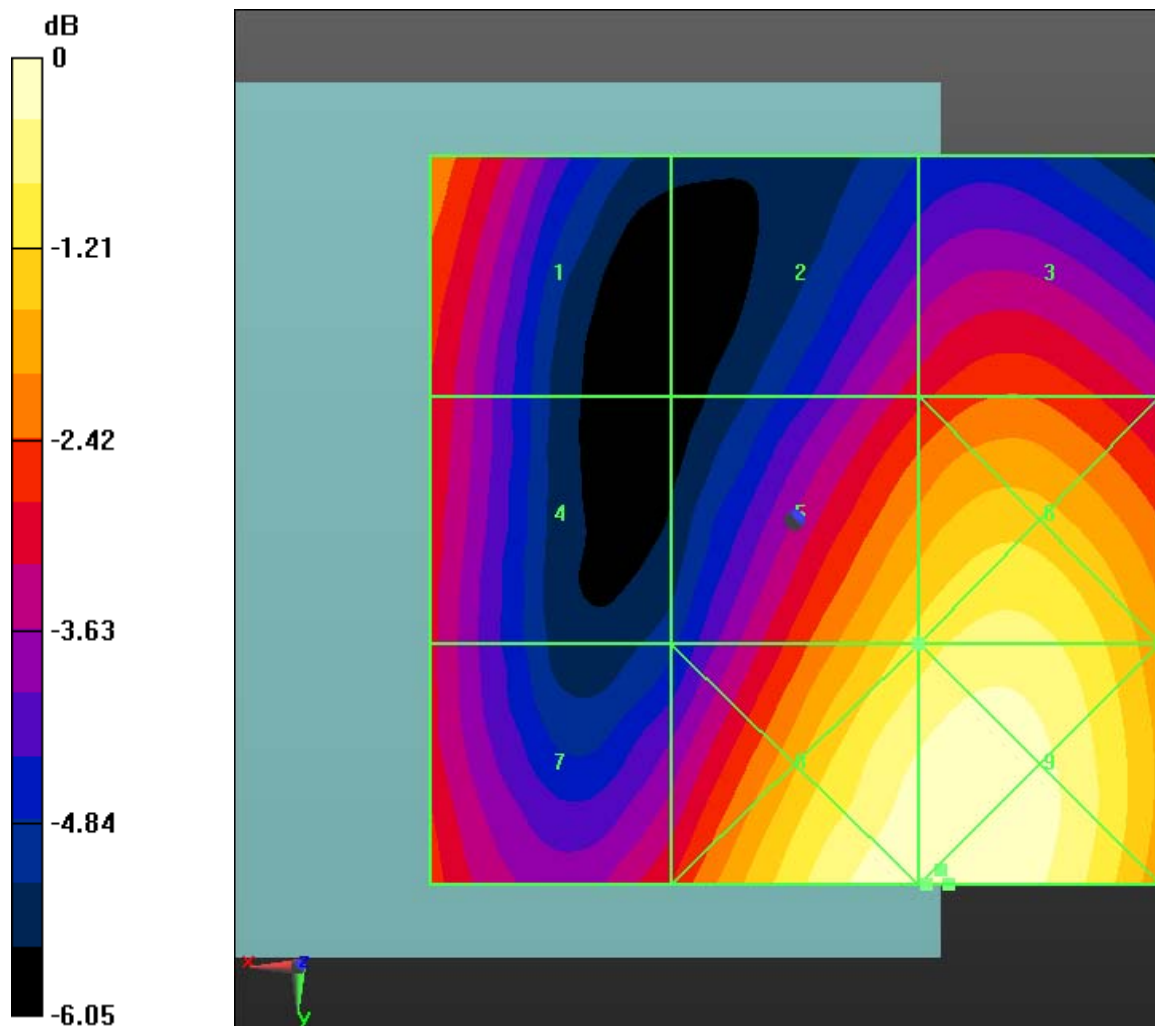
Peak E-field in V/m

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

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW



0 dB = 43.740V/m

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

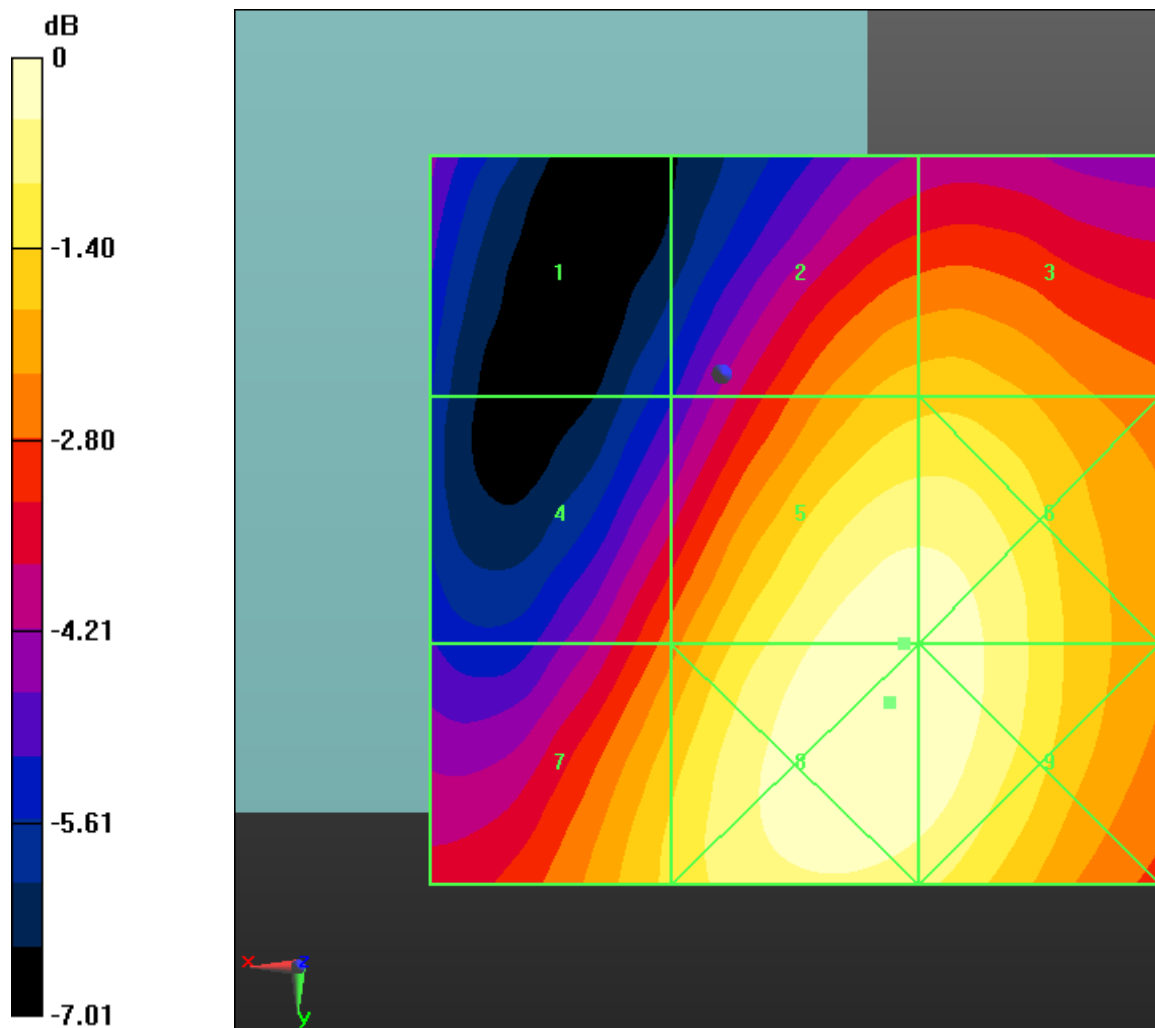
Cursor:

Total = 46.442 V/m


E Category: M4

Location: -11.5, 22.5, 8.7 mm

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0 dB = 46.440V/m

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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 0.278 M4	Grid 2 0.200 M4	Grid 3 0.129 M4
Grid 4 0.238 M4	Grid 5 0.173 M4	Grid 6 0.106 M4
Grid 7 0.255 M4	Grid 8 0.183 M4	Grid 9 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 0.332 M4	Grid 2 0.252 M4	Grid 3 0.167 M4
Grid 4 0.286 M4	Grid 5 0.220 M4	Grid 6 0.141 M4
Grid 7 0.310 M4	Grid 8 0.233 M4	Grid 9 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

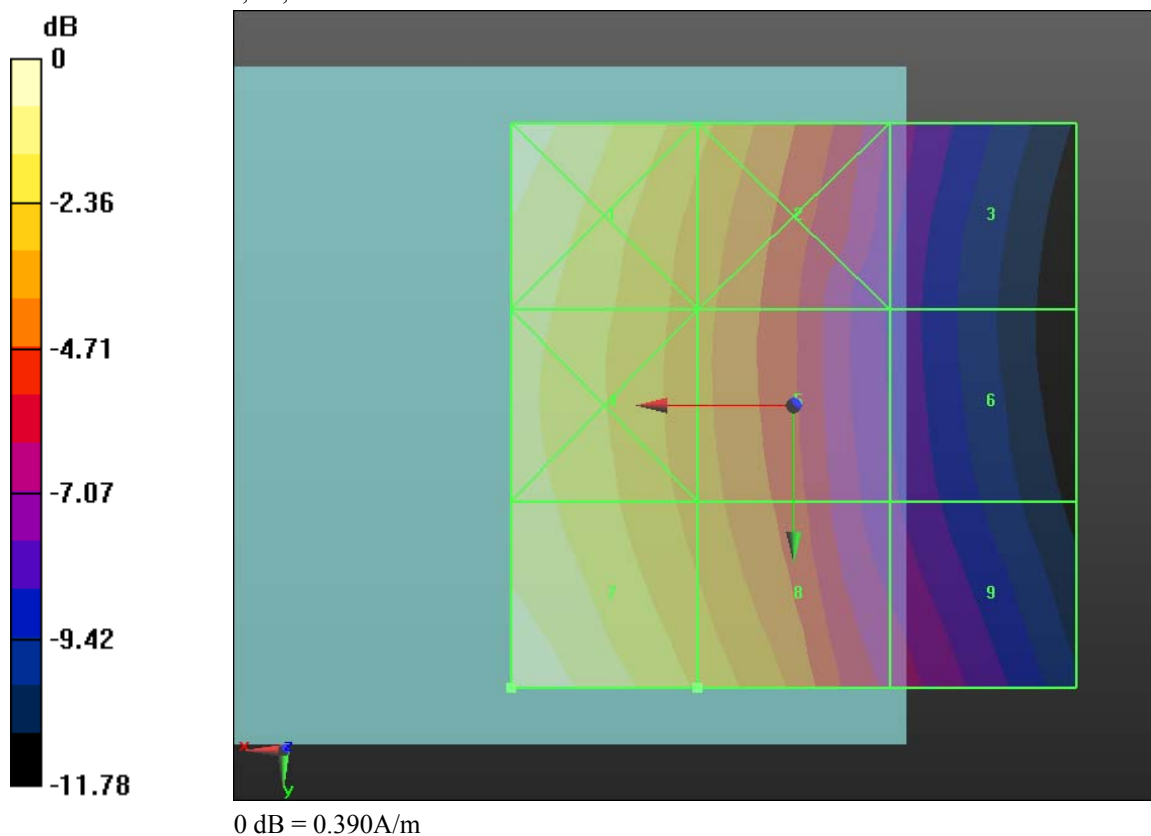
Grid 1 0.377 M4	Grid 2 0.281 M4	Grid 3 0.171 M4
Grid 4 0.342 M4	Grid 5 0.262 M4	Grid 6 0.162 M4
Grid 7 0.387 M4	Grid 8 0.294 M4	Grid 9 0.186 M4


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

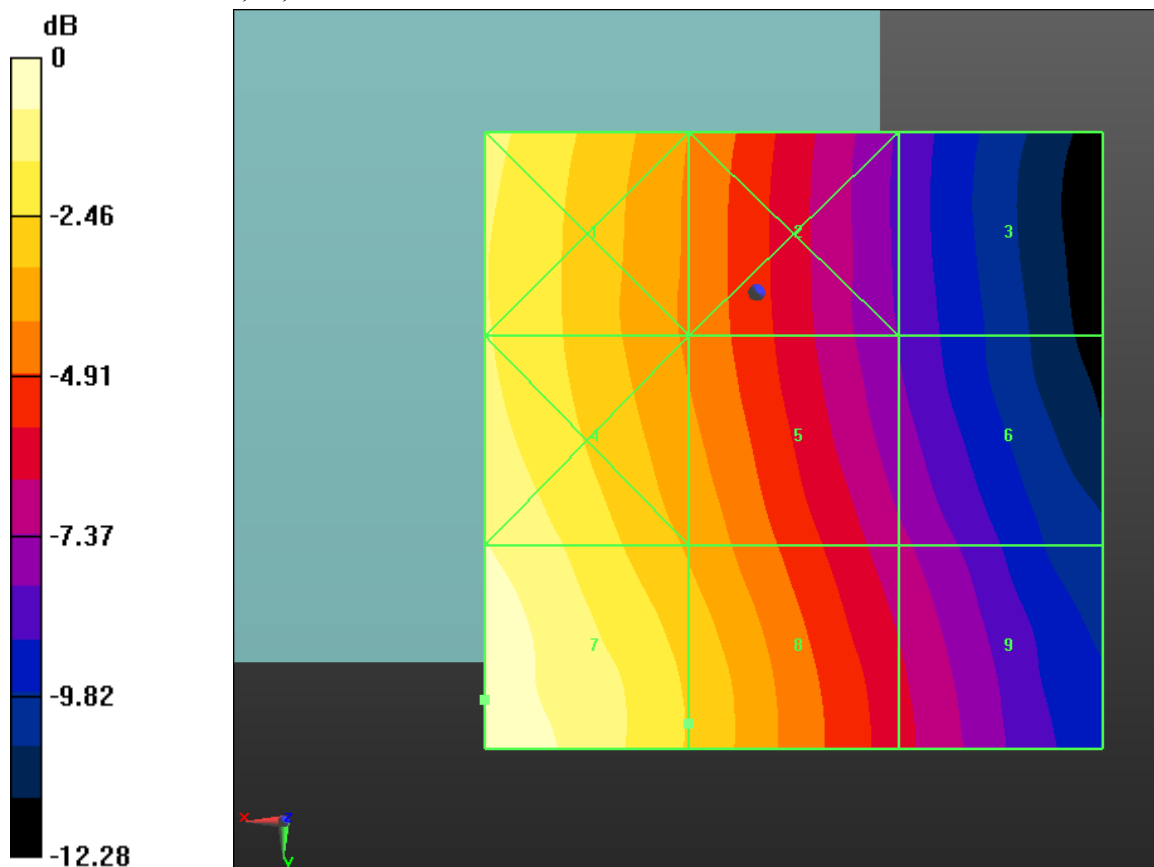
Grid 1 0.318 M4	Grid 2 0.231 M4	Grid 3 0.144 M4
Grid 4 0.338 M4	Grid 5 0.251 M4	Grid 6 0.163 M4
Grid 7 0.374 M4	Grid 8 0.277 M4	Grid 9 0.181 M4

Cursor:

Total = 0.374 A/m


H Category: M4

Location: 22, 33, 8.7 mm



0 dB = 0.370A/m

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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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Peak H-field in A/m

Grid 1 0.197 M3	Grid 2 0.186 M3	Grid 3 0.163 M3
Grid 4 0.221 M3	Grid 5 0.200 M3	Grid 6 0.157 M3
Grid 7 0.261 M2	Grid 8 0.226 M3	Grid 9 0.160 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 0.223 M3	Grid 2 0.218 M3	Grid 3 0.193 M3
Grid 4 0.259 M2	Grid 5 0.242 M3	Grid 6 0.194 M3
Grid 7 0.306 M2	Grid 8 0.272 M2	Grid 9 0.197 M3

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDU71CW/RDV71UW		Page 145 (179)
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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)

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Peak H-field in A/m

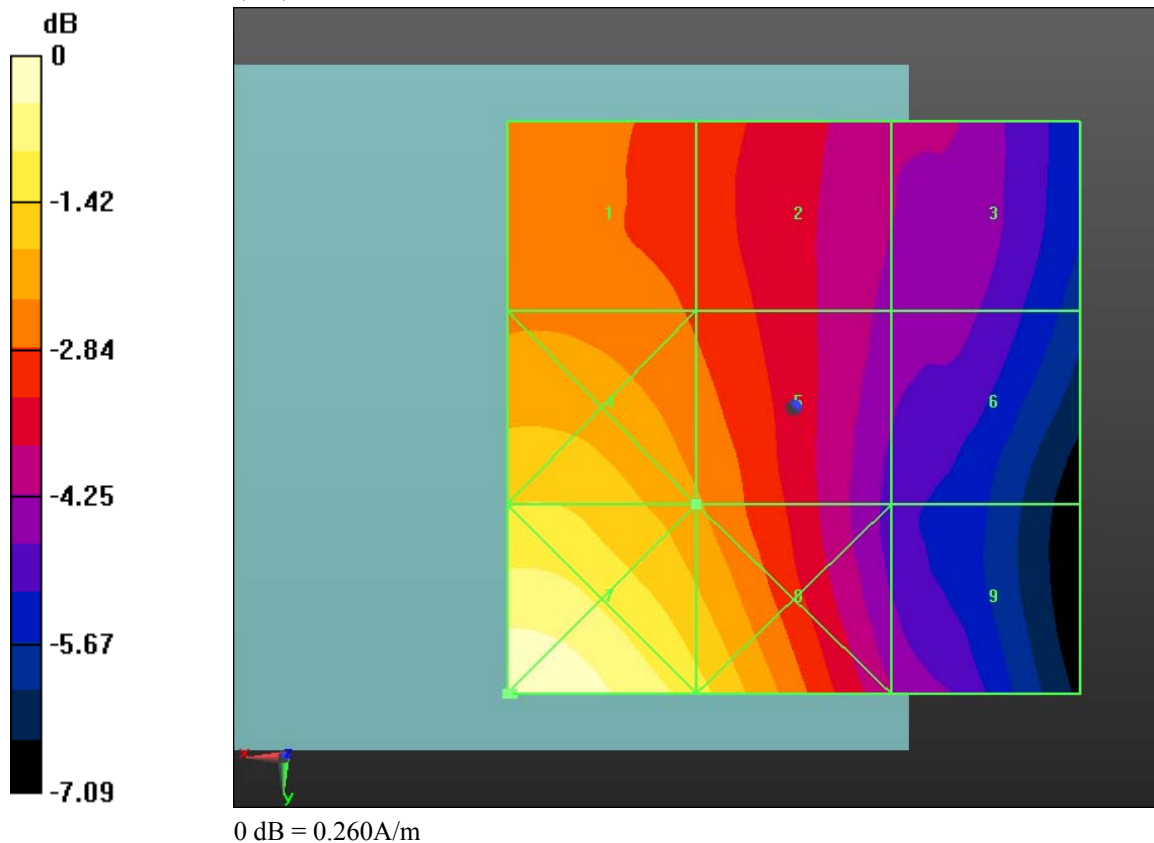
Grid 1 0.200 M3	Grid 2 0.197 M3	Grid 3 0.170 M3
Grid 4 0.240 M3	Grid 5 0.226 M3	Grid 6 0.172 M3
Grid 7 0.299 M2	Grid 8 0.264 M2	Grid 9 0.181 M3


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)

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Peak H-field in A/m

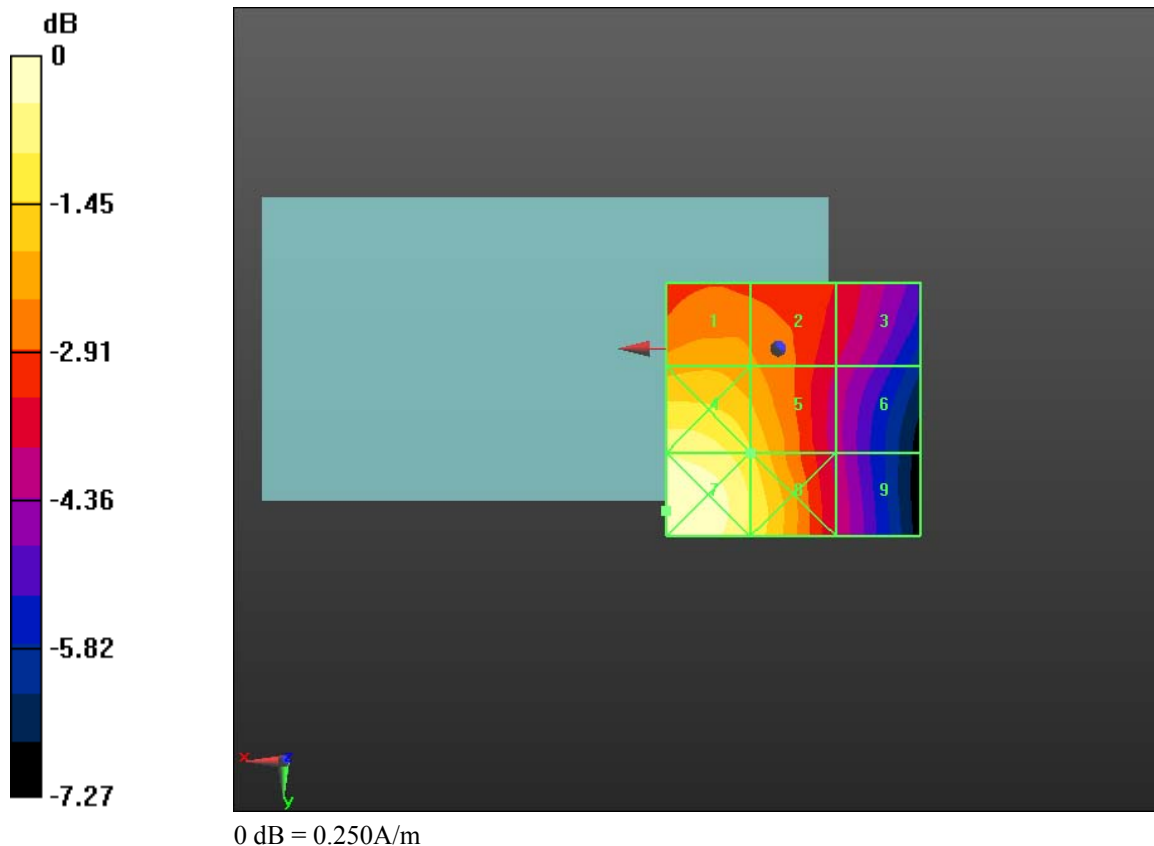
Grid 1 0.199 M3	Grid 2 0.192 M3	Grid 3 0.169 M3
Grid 4 0.234 M3	Grid 5 0.213 M3	Grid 6 0.160 M3
Grid 7 0.254 M2	Grid 8 0.223 M3	Grid 9 0.161 M3


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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Peak H-field in A/m

Grid 1 0.049 M4	Grid 2 0.034 M4	Grid 3 0.019 M4
Grid 4 0.041 M4	Grid 5 0.028 M4	Grid 6 0.017 M4
Grid 7 0.040 M4	Grid 8 0.030 M4	Grid 9 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 0.051 M4	Grid 2 0.041 M4	Grid 3 0.025 M4
Grid 4 0.050 M4	Grid 5 0.036 M4	Grid 6 0.024 M4
Grid 7 0.050 M4	Grid 8 0.037 M4	Grid 9 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)

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Peak H-field in A/m

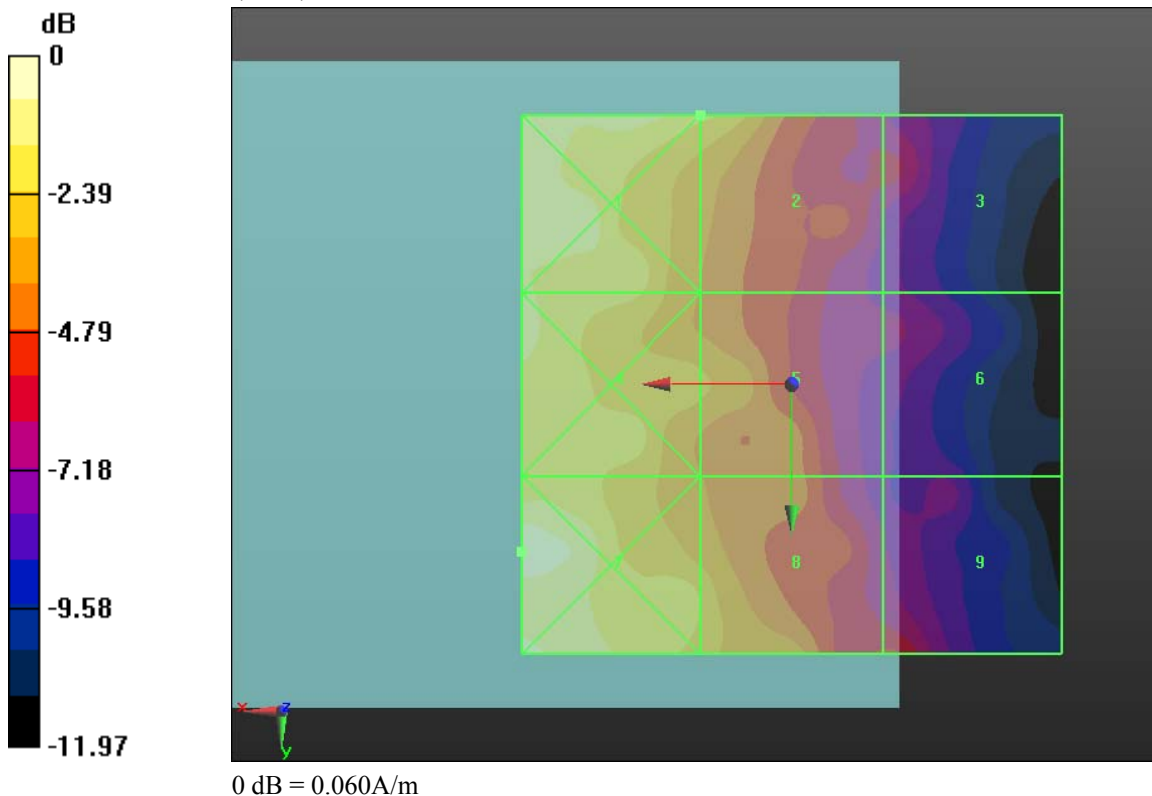
Grid 1 0.055 M4	Grid 2 0.047 M4	Grid 3 0.030 M4
Grid 4 0.052 M4	Grid 5 0.042 M4	Grid 6 0.027 M4
Grid 7 0.058 M4	Grid 8 0.046 M4	Grid 9 0.033 M4


Cursor:

Total = 0.058 A/m

H Category: M4

Location: 25, 15.5, 8.7 mm



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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW

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: DASYS (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)

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Peak H-field in A/m

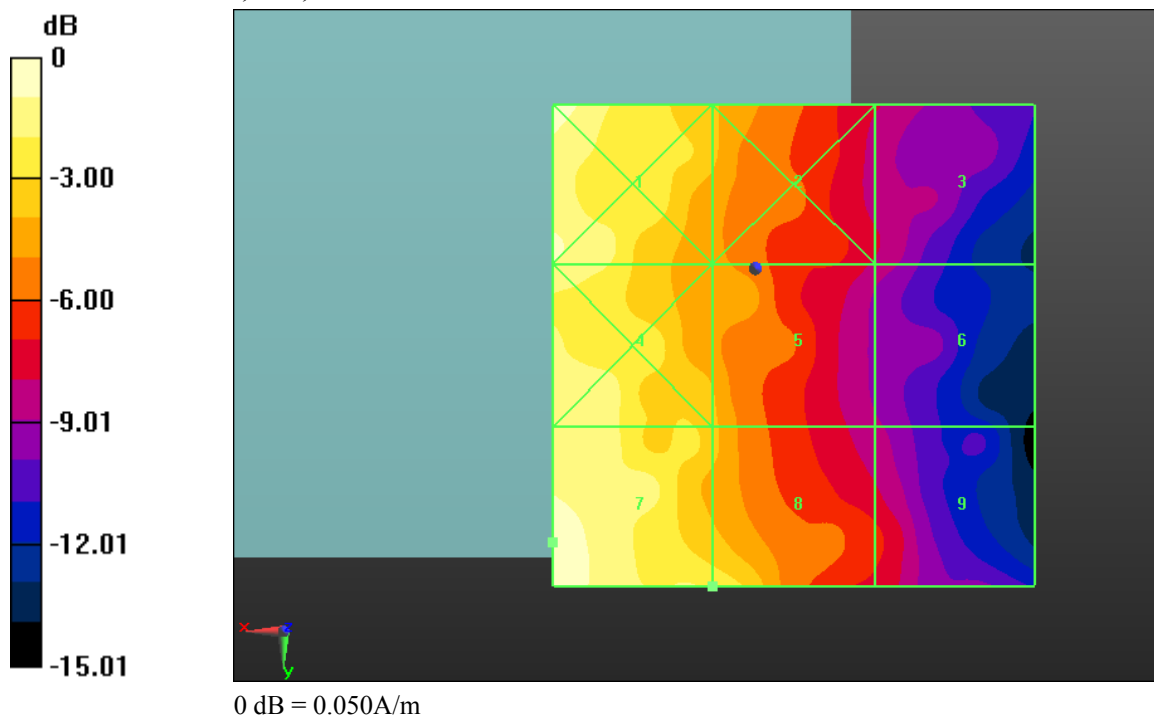
Grid 1 0.050 M4	Grid 2 0.033 M4	Grid 3 0.020 M4
Grid 4 0.044 M4	Grid 5 0.033 M4	Grid 6 0.020 M4
Grid 7 0.052 M4	Grid 8 0.039 M4	Grid 9 0.023 M4


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 0.036 M4	Grid 2 0.035 M4	Grid 3 0.031 M4
Grid 4 0.041 M4	Grid 5 0.037 M4	Grid 6 0.030 M4
Grid 7 0.047 M4	Grid 8 0.042 M4	Grid 9 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 0.111 M4	Grid 2 0.108 M4	Grid 3 0.094 M4
Grid 4 0.130 M4	Grid 5 0.121 M4	Grid 6 0.094 M4
Grid 7 0.152 M4	Grid 8 0.135 M4	Grid 9 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)

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Peak H-field in A/m

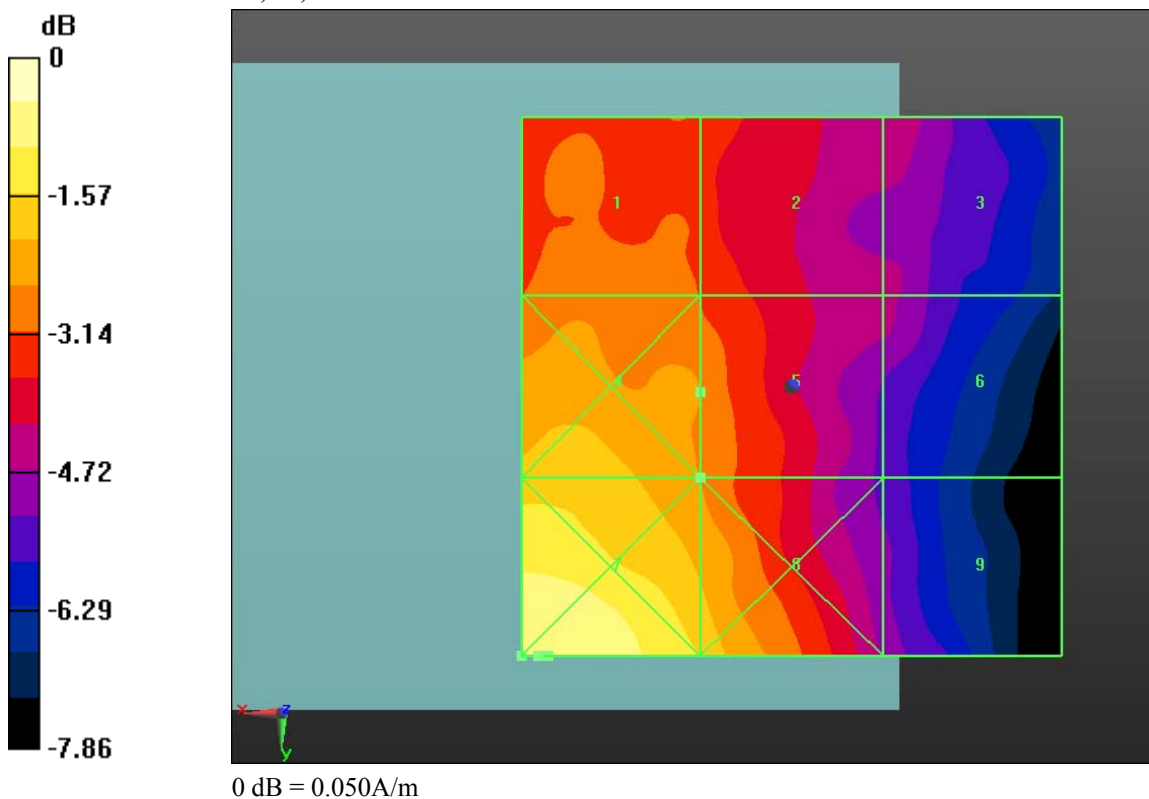
Grid 1 0.103 M4	Grid 2 0.103 M4	Grid 3 0.092 M4
Grid 4 0.127 M4	Grid 5 0.120 M4	Grid 6 0.094 M4
Grid 7 0.156 M4	Grid 8 0.139 M4	Grid 9 0.097 M4


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)

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Peak H-field in A/m

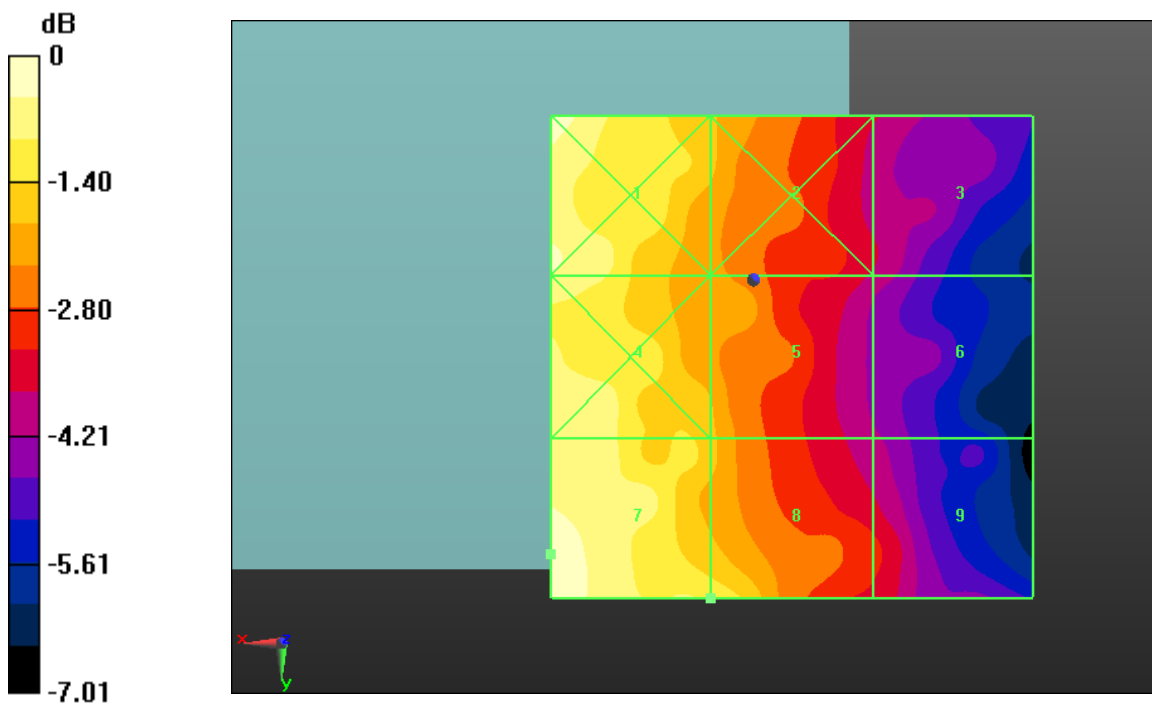
Grid 1 0.100 M4	Grid 2 0.097 M4	Grid 3 0.086 M4
Grid 4 0.113 M4	Grid 5 0.105 M4	Grid 6 0.087 M4
Grid 7 0.131 M4	Grid 8 0.113 M4	Grid 9 0.086 M4

Cursor:


Total = 0.131 A/m

H Category: M4

Location: 20, 15, 8.7 mm



0 dB = 0.130A/m

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Date/Time: 4/28/2011 5:32:14 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV_low_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Communication System Band: Frequency: 1712.4 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: DASYS (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 = 44.032 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 40.626 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 32.482 M4	Grid 2 38.430 M4	Grid 3 40.139 M4
Grid 4 23.927 M4	Grid 5 44.032 M4	Grid 6 45.660 M4
Grid 7 29.628 M4	Grid 8 45.674 M4	Grid 9 46.660 M4

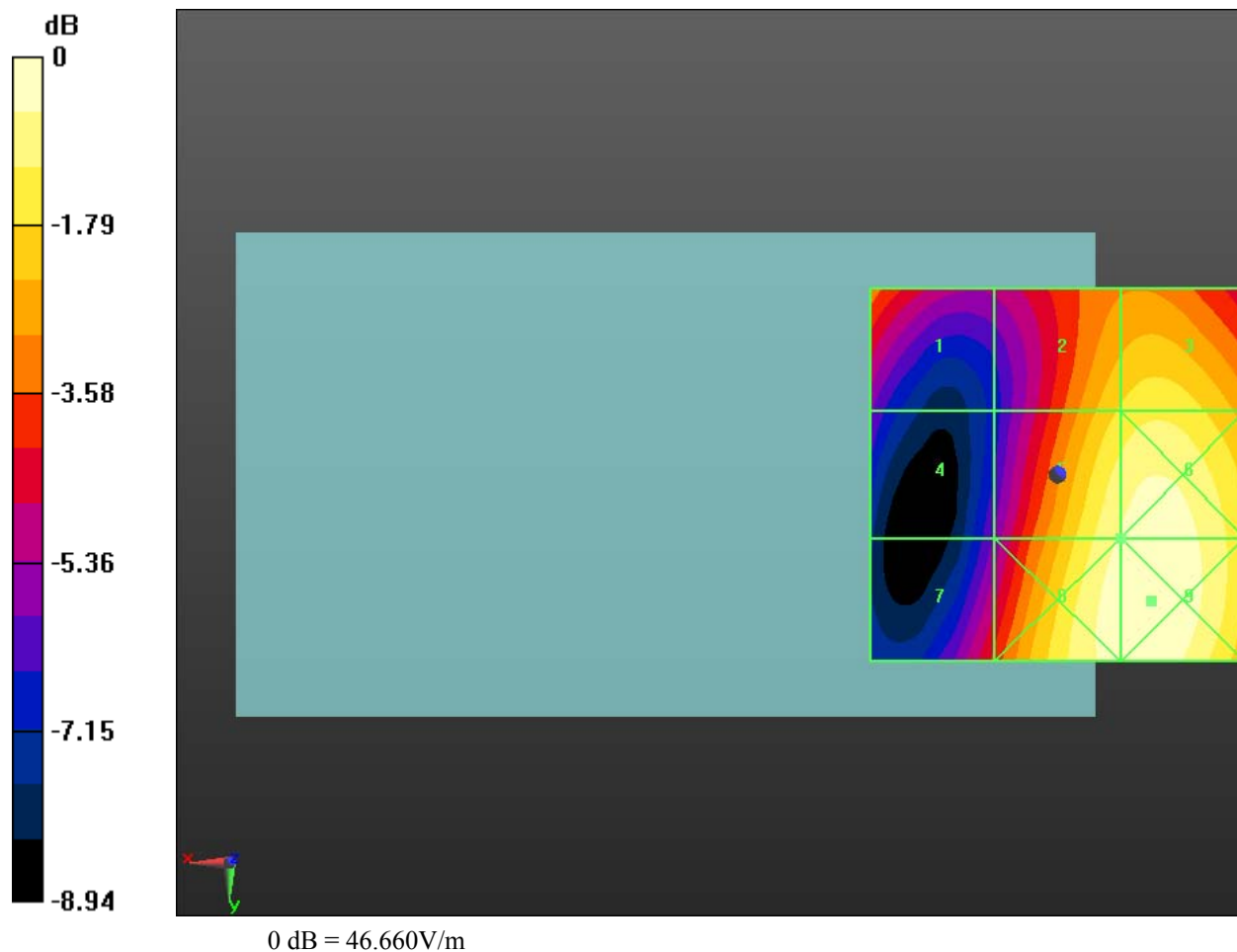
Cursor:


Total = 46.660 V/m

E Category: M4

Location: -12.5, 17, 8.7 mm

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Date/Time: 4/28/2011 5:35:37 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV_mid_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Communication System Band: Frequency: 1732.6 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: DASYS (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 = 44.356 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 39.602 V/m; Power Drift = -0.00025 dB

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

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Peak E-field in V/m

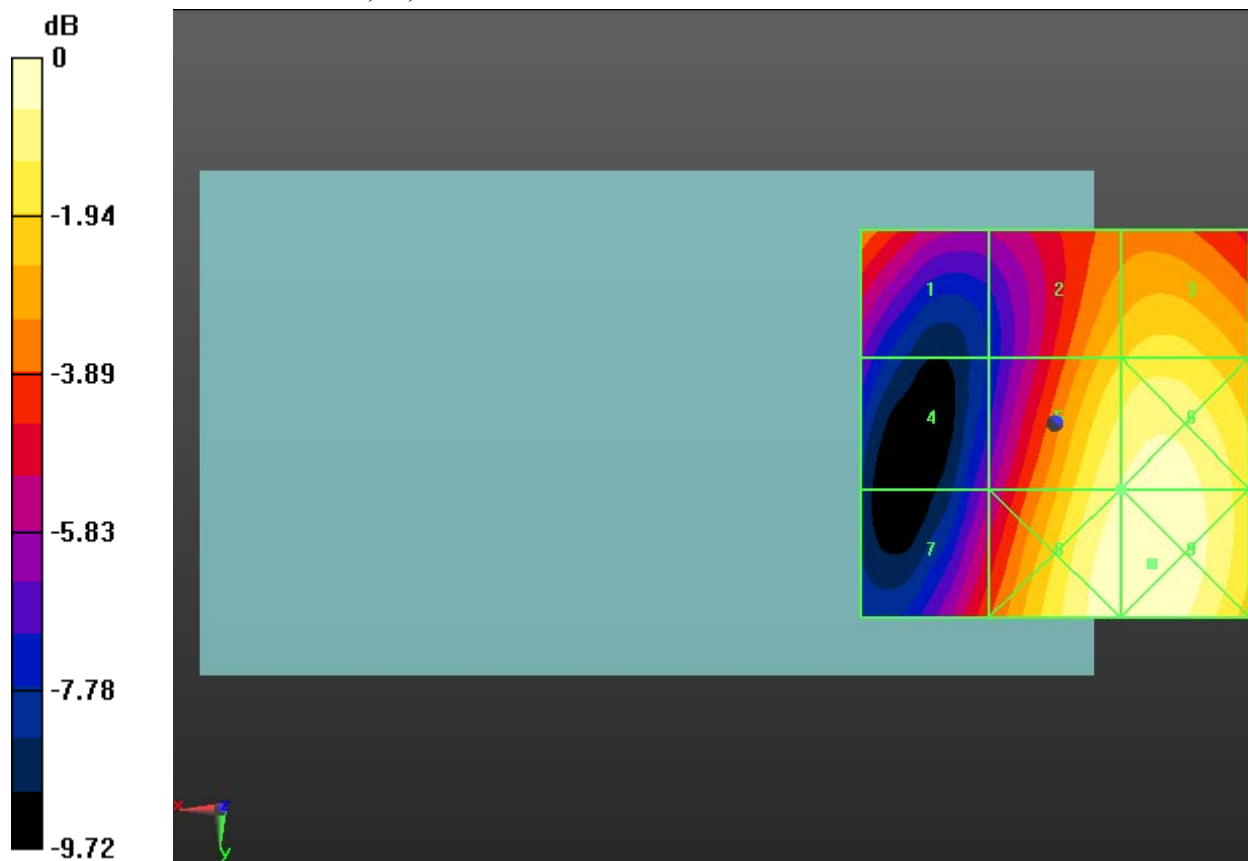
Grid 1 32.561 M4	Grid 2 37.634 M4	Grid 3 39.688 M4
Grid 4 23.616 M4	Grid 5 44.356 M4	Grid 6 46.188 M4
Grid 7 30.272 M4	Grid 8 46.710 M4	Grid 9 47.573 M4

Cursor:


Total = 47.573 V/m

E Category: M4

Location: -12.5, 18, 8.7 mm



0 dB = 47.570V/m

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Date/Time: 4/28/2011 5:39:10 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV_high_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Communication System Band: Frequency: 1752.6 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: DASYS (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 = 40.053 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 33.539 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

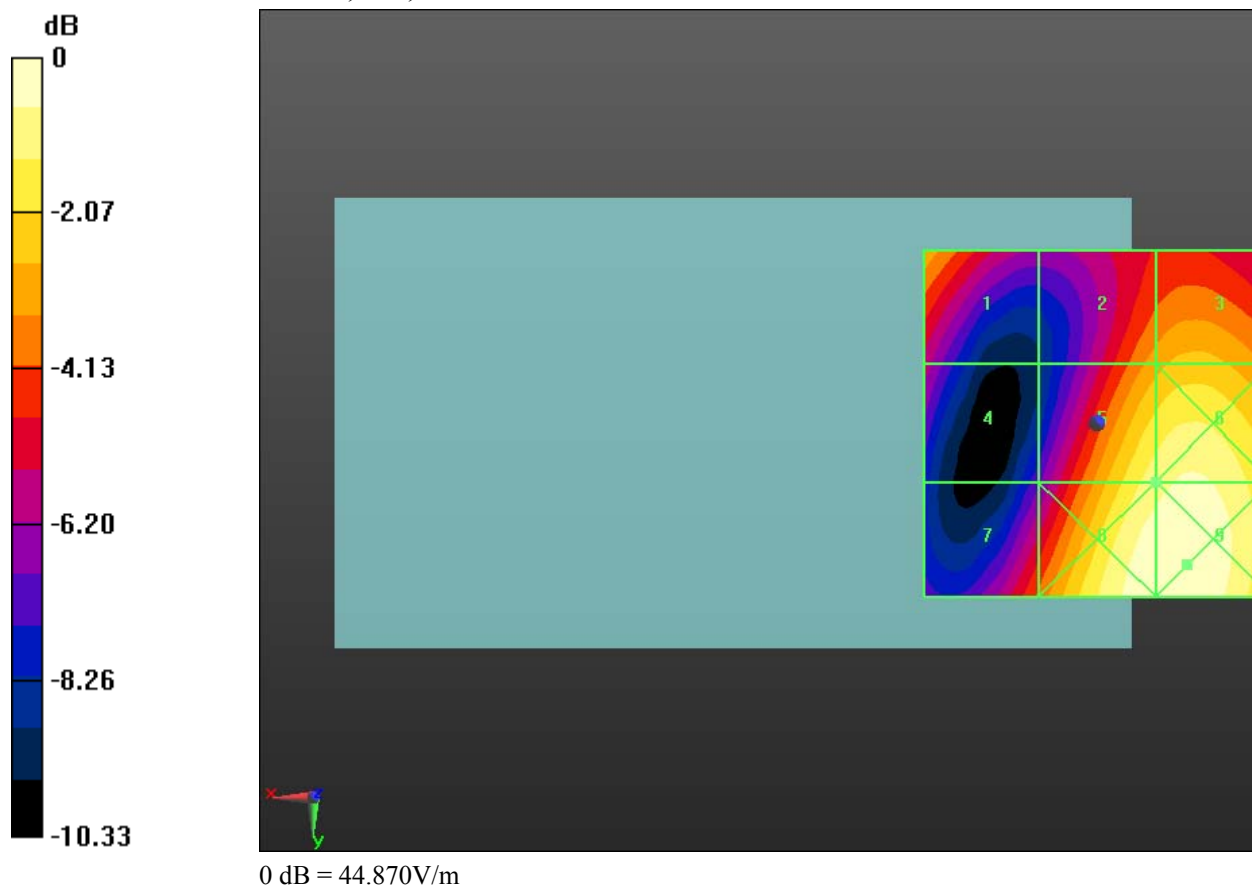
Grid 1 32.223 M4	Grid 2 31.643 M4	Grid 3 33.764 M4
Grid 4 23.273 M4	Grid 5 40.053 M4	Grid 6 42.023 M4
Grid 7 28.402 M4	Grid 8 44.100 M4	Grid 9 44.868 M4


Cursor:

Total = 44.869 V/m

E Category: M4

Location: -13, 20.5, 8.7 mm



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Date/Time: 4/28/2011 7:05:16 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV_mid_chan_telecoil_center

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Communication System Band: Frequency: 1732.6 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: DASYS (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 = 44.572 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 42.031 V/m; Power Drift = -0.12 dB

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

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Peak E-field in V/m


Grid 1 38.261 M4	Grid 2 36.861 M4	Grid 3 37.303 M4
Grid 4 26.041 M4	Grid 5 44.572 M4	Grid 6 45.265 M4
Grid 7 31.557 M4	Grid 8 48.300 M4	Grid 9 48.420 M4

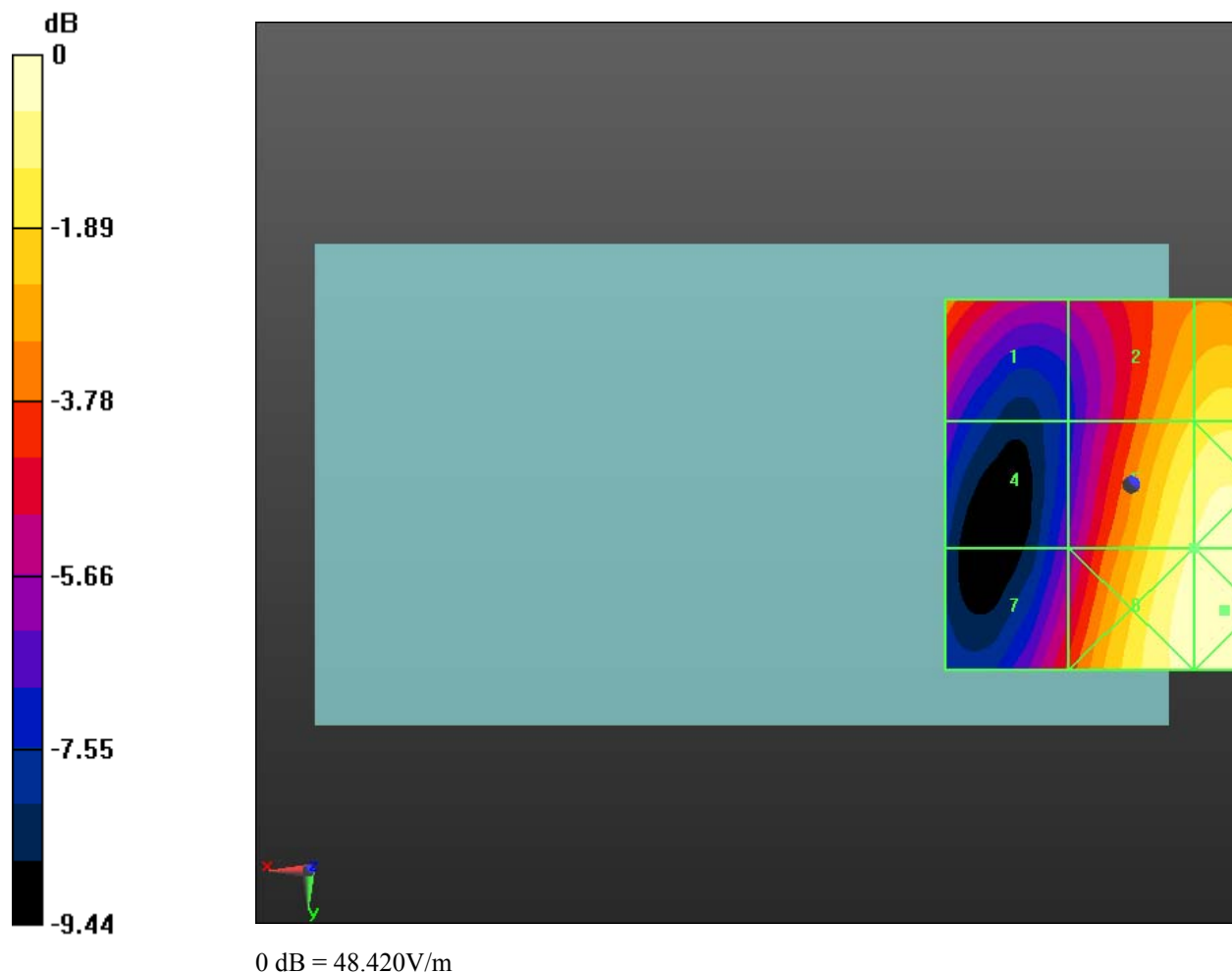
Cursor:


Total = 48.420 V/m

E Category: M4

Location: -12, 18, 8.7 mm

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Date/Time: 4/28/2011 7:15:55 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV_low_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Communication System Band: Frequency: 1712.4 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 = 0.128 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.103 A/m; Power Drift = 0.18 dB

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

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Peak H-field in A/m

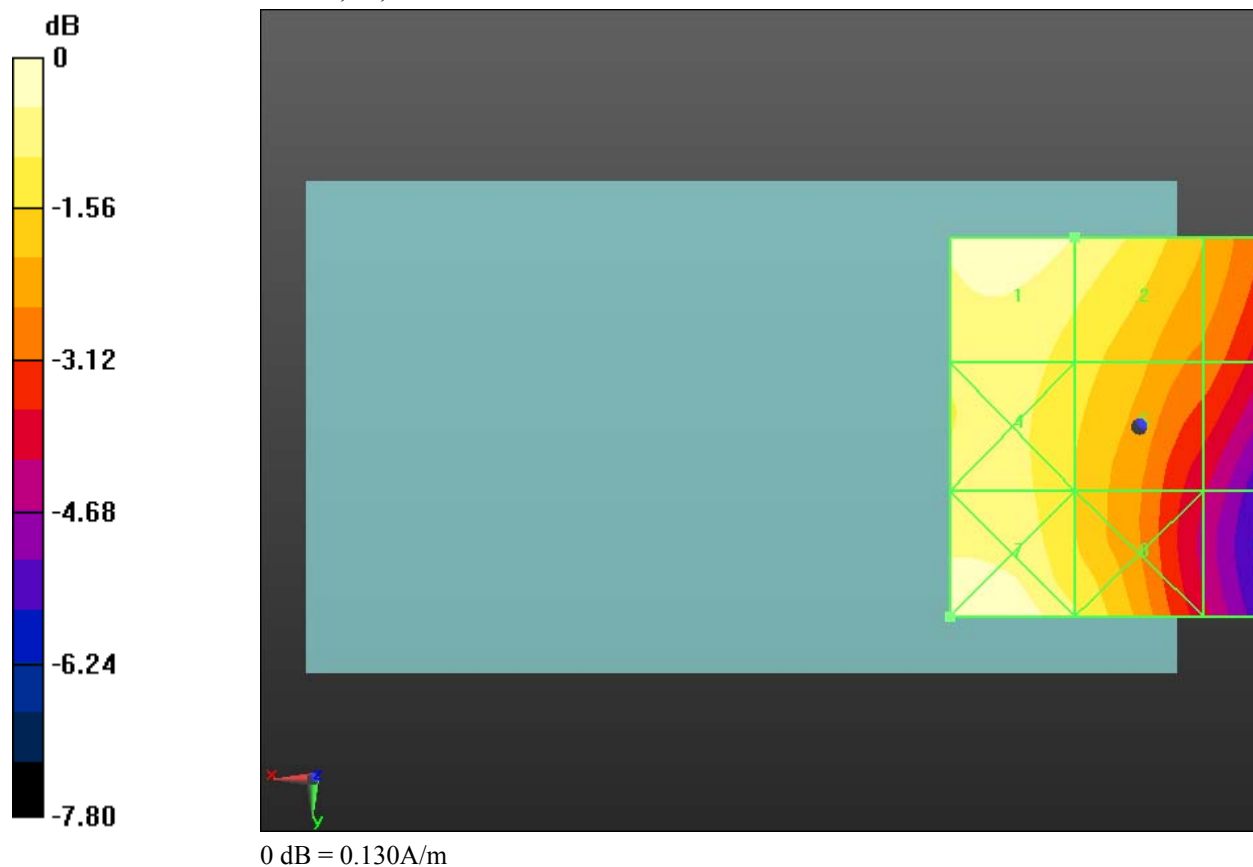
Grid 1 0.128 M4	Grid 2 0.122 M4	Grid 3 0.102 M4
Grid 4 0.118 M4	Grid 5 0.112 M4	Grid 6 0.094 M4
Grid 7 0.129 M4	Grid 8 0.117 M4	Grid 9 0.082 M4


Cursor:

Total = 0.129 A/m

H Category: M4

Location: 25, 25, 8.7 mm



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Date/Time: 4/28/2011 7:21:18 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV_mid_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Communication System Band: Frequency: 1732.6 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: DASYS (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 = 0.125 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.102 A/m; Power Drift = 0.00037 dB

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

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDU71CW/RDV71UW		174 (179)
Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 28, 2011	Report No RTS-3933-1104-55C RTS-2580-1106-41	FCC ID L6ARDU70CW L6ARDV70UW

Peak H-field in A/m

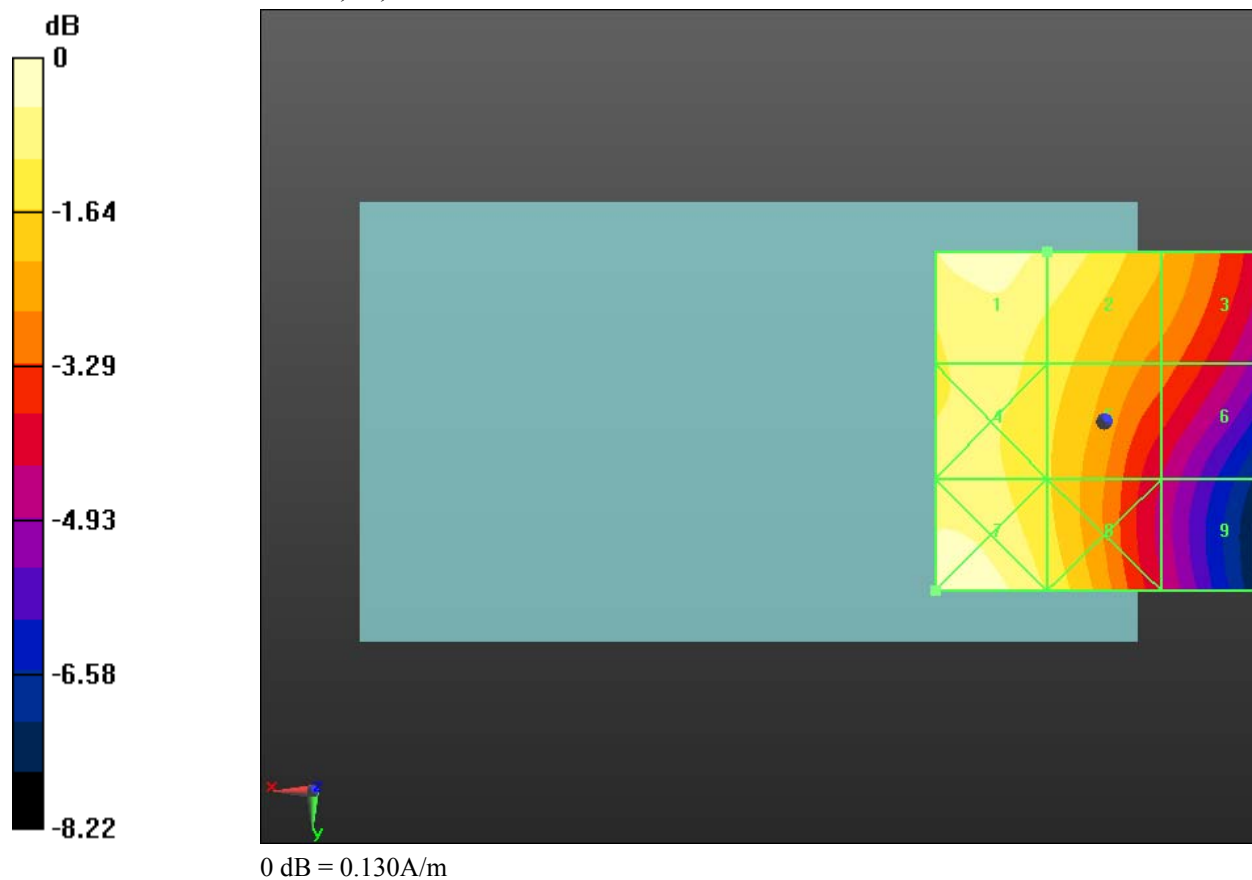
Grid 1 0.125 M4	Grid 2 0.121 M4	Grid 3 0.102 M4
Grid 4 0.118 M4	Grid 5 0.111 M4	Grid 6 0.092 M4
Grid 7 0.130 M4	Grid 8 0.114 M4	Grid 9 0.080 M4


Cursor:

Total = 0.130 A/m

H Category: M4

Location: 25, 25, 8.7 mm



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Date/Time: 4/28/2011 7:24:37 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV_high_chan

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Communication System Band: Frequency: 1752.6 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: DASYS (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 = 0.113 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.103 A/m; Power Drift = 0.06 dB

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

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Peak H-field in A/m

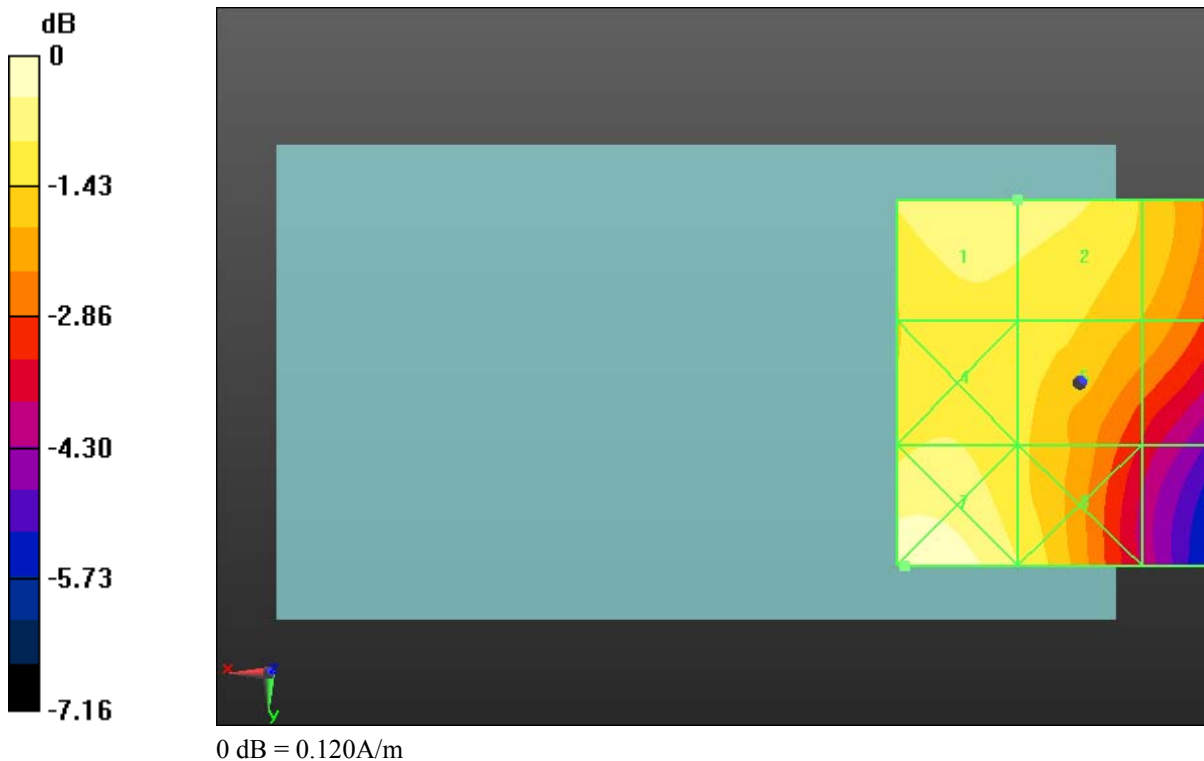
Grid 1 0.113 M4	Grid 2 0.112 M4	Grid 3 0.101 M4
Grid 4 0.108 M4	Grid 5 0.105 M4	Grid 6 0.096 M4
Grid 7 0.120 M4	Grid 8 0.108 M4	Grid 9 0.081 M4


Cursor:

Total = 0.120 A/m

H Category: M4

Location: 24, 25, 8.7 mm



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Date/Time: 4/28/2011 7:30:55 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV_low_chan_telecoil_center

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Communication System Band: Frequency: 1712.4 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 2 2/Hearing Aid Compatibility Test

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


Maximum value of peak Total field = 0.129 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.103 A/m; Power Drift = 0.05 dB

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

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Peak H-field in A/m

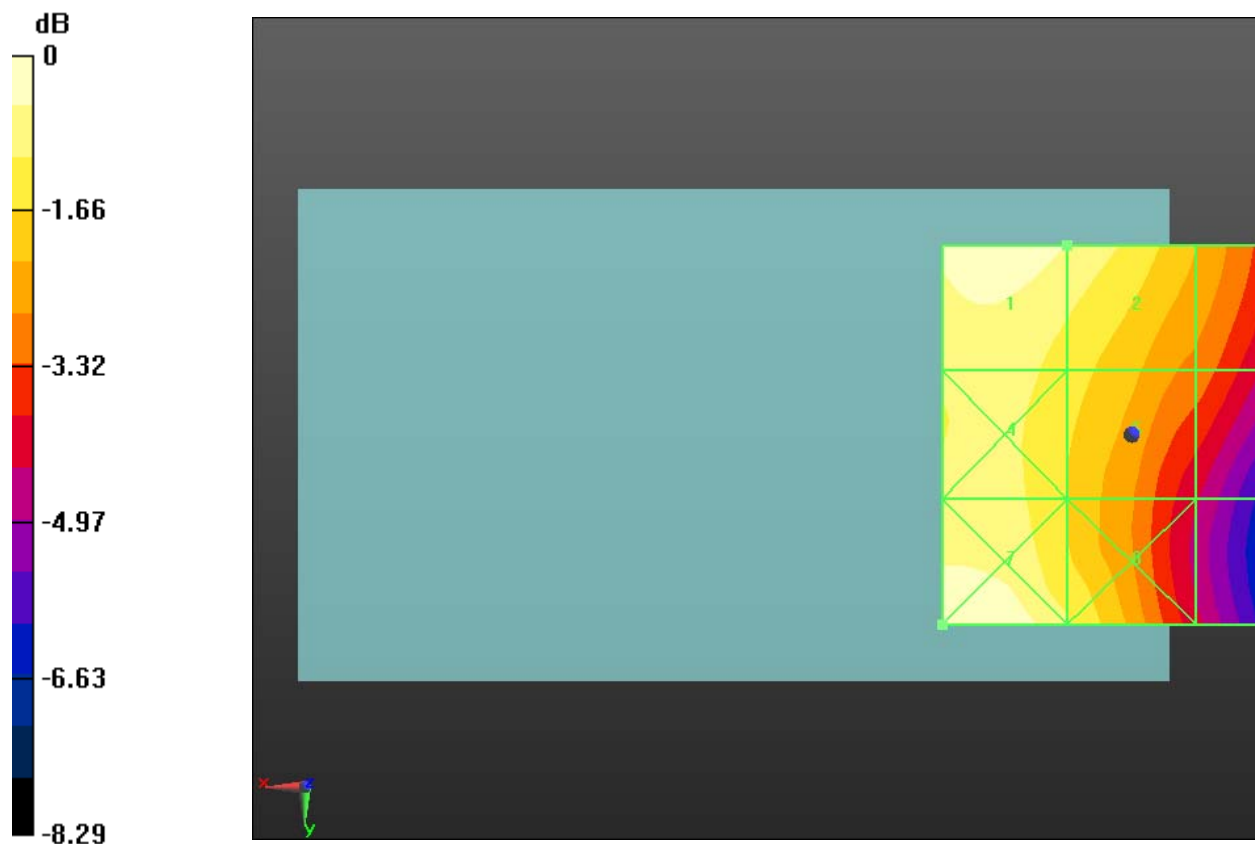
Grid 1 0.129 M4	Grid 2 0.122 M4	Grid 3 0.100 M4
Grid 4 0.120 M4	Grid 5 0.113 M4	Grid 6 0.096 M4
Grid 7 0.122 M4	Grid 8 0.109 M4	Grid 9 0.082 M4

Cursor:


Total = 0.129 A/m

H Category: M4

Location: 17.5, -31, 8.7 mm



0 dB = 0.130A/m

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