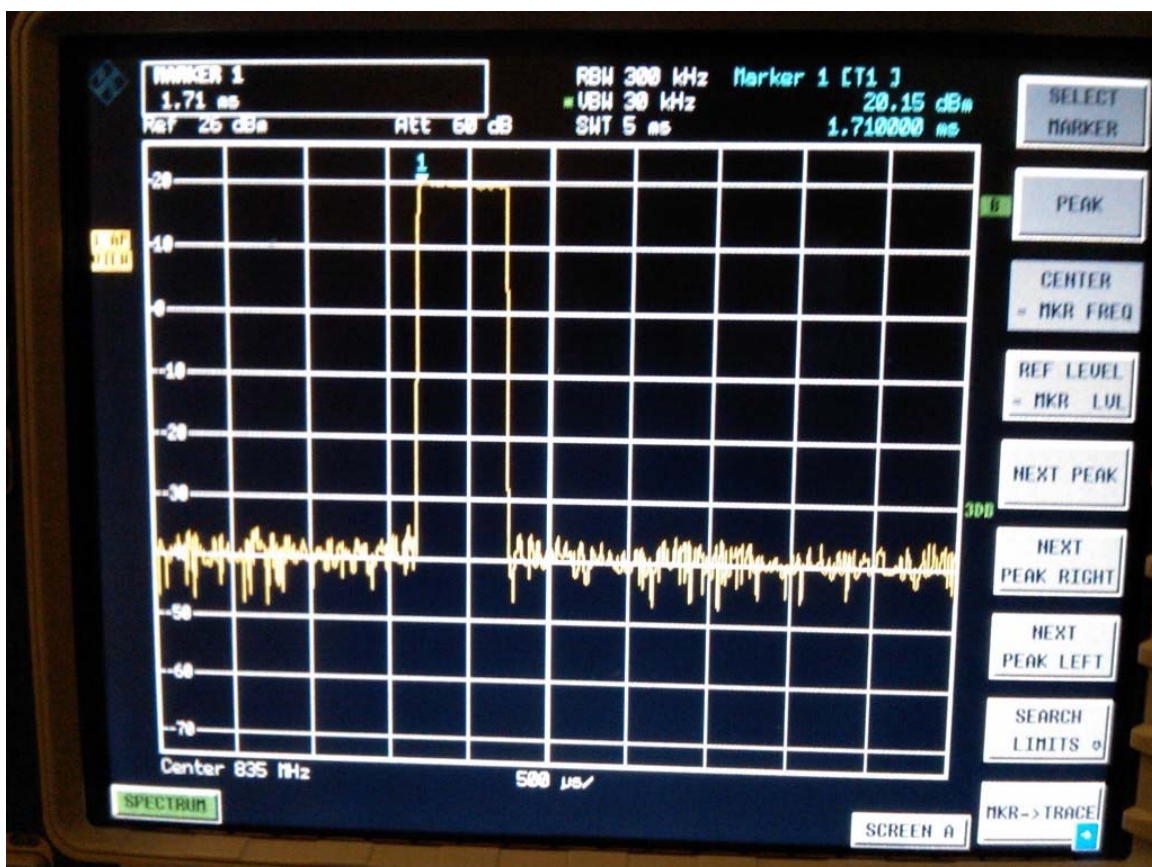


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW		Page 1 (107)
Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 05, May 13-16, 2011	Report No RTS-2579-1107-18	FCC ID L6ARDD70UW

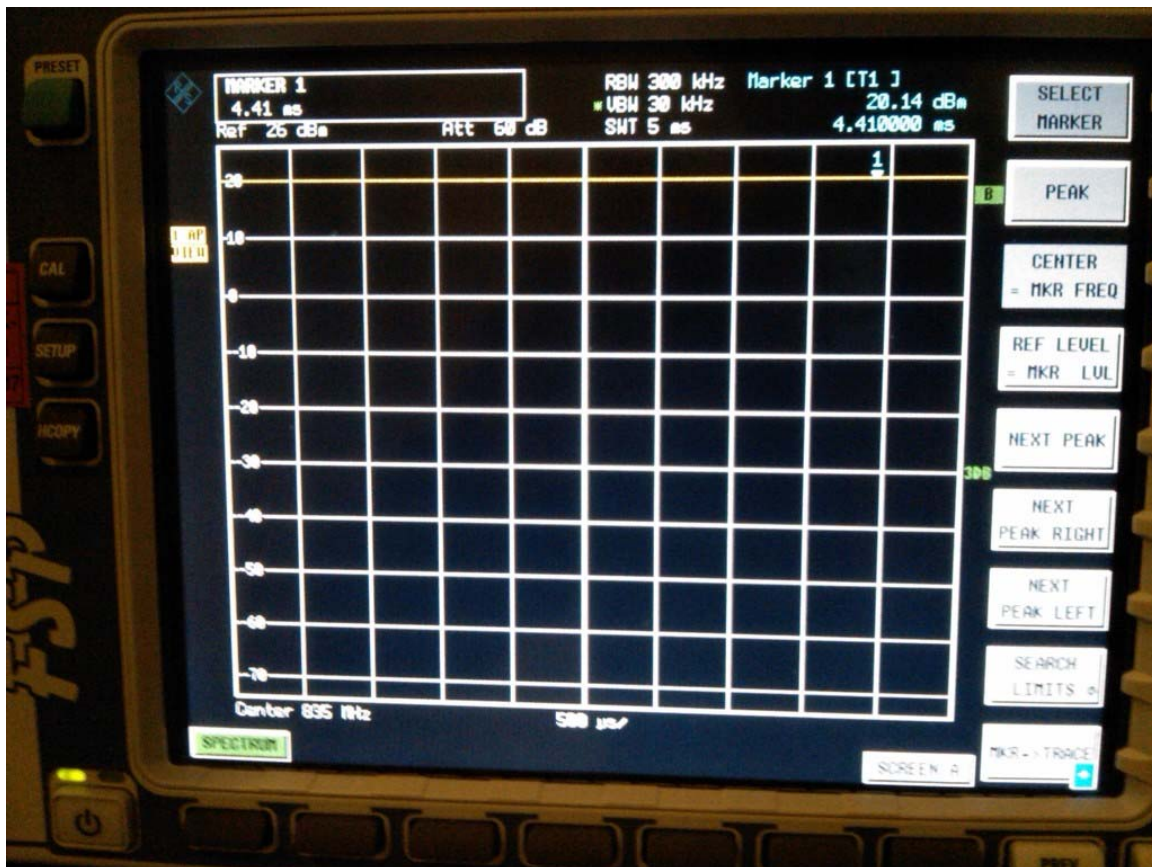
Annex A: Measurement data and plots

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



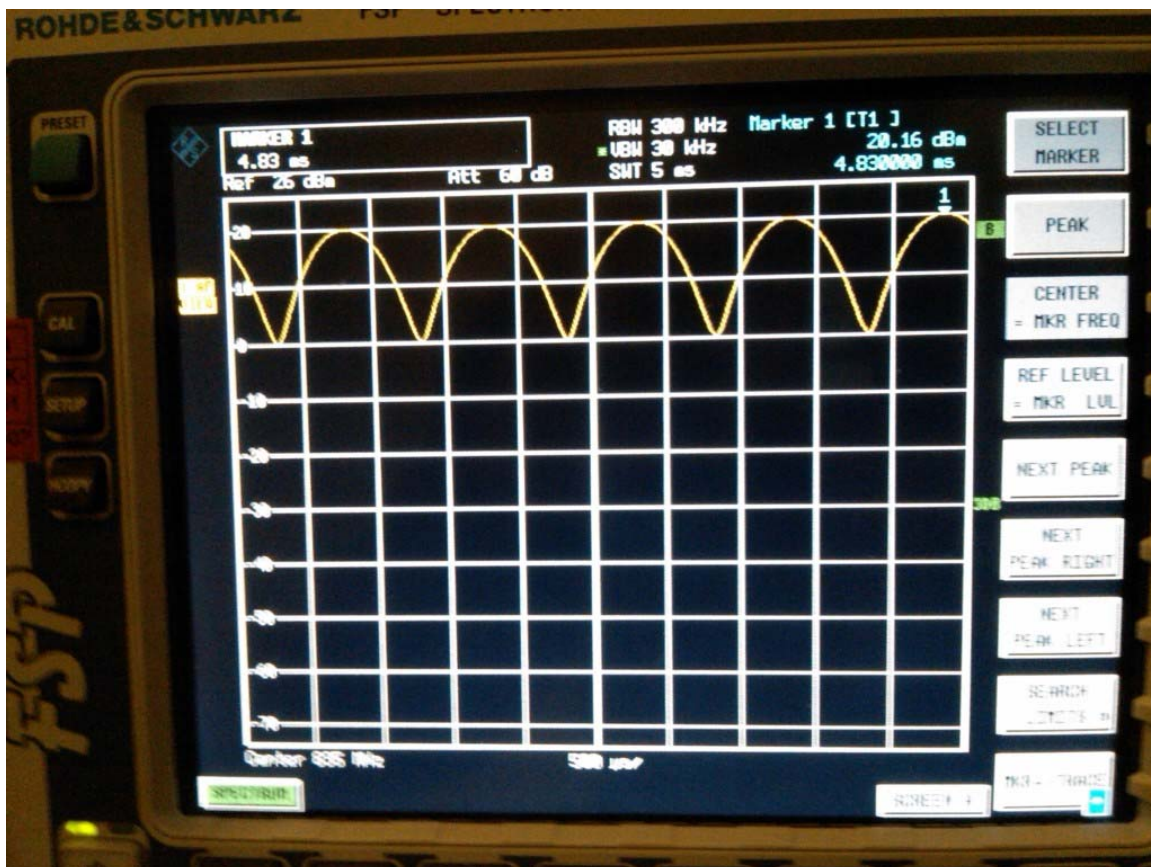
GSM 835 MHz

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 05, May 13-16, 2011	Report No RTS-2579-1107-18	FCC ID L6ARDD70UW



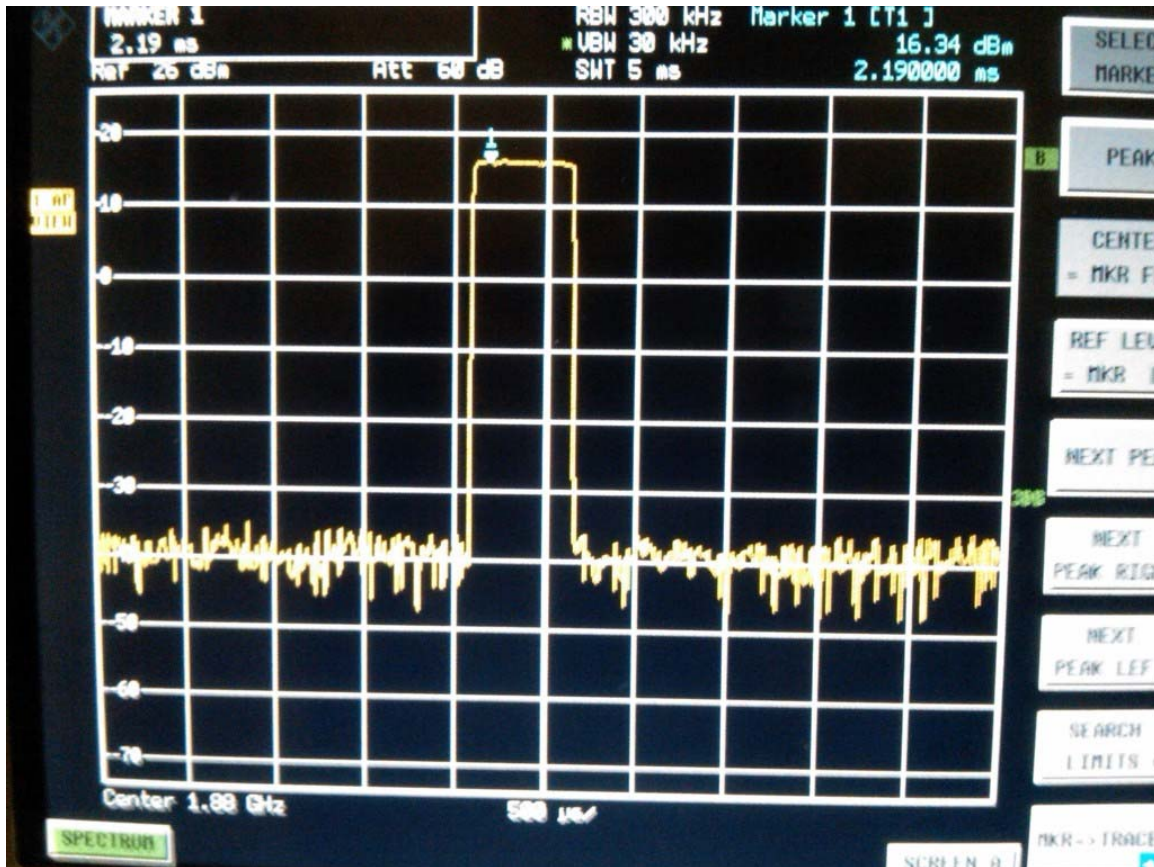
CW 835 MHz

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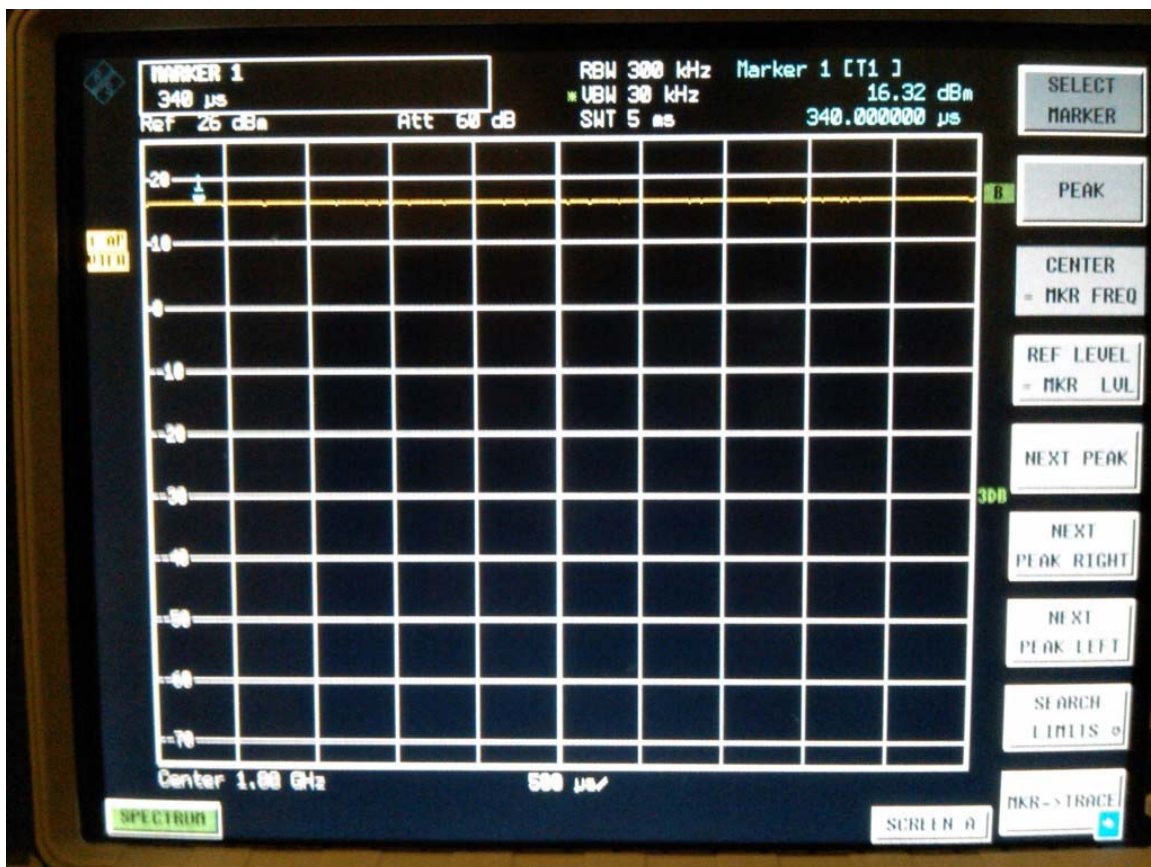
AM 80% 835 MHz

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 05, May 13-16, 2011	Report No RTS-2579-1107-18	FCC ID L6ARDD70UW



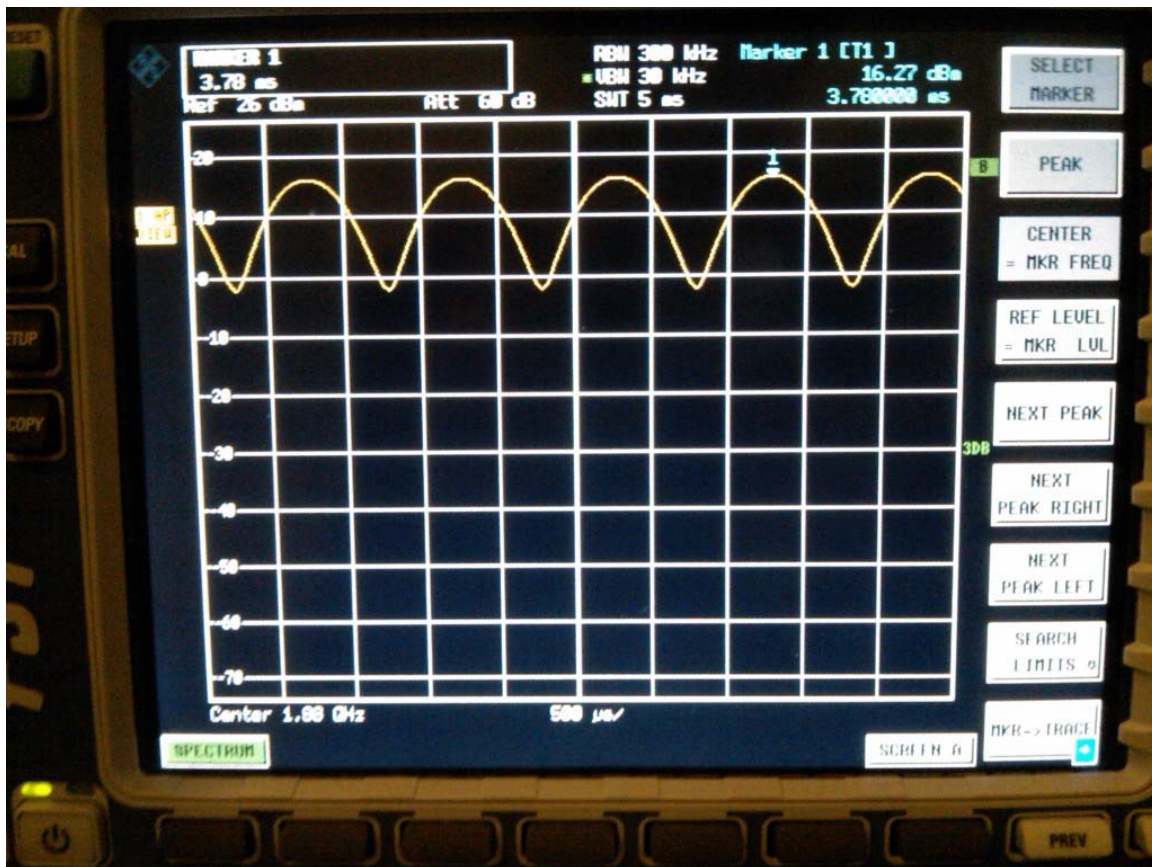
GSM 1880 MHz

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 05, May 13-16, 2011	Report No RTS-2579-1107-18	FCC ID L6ARDD70UW



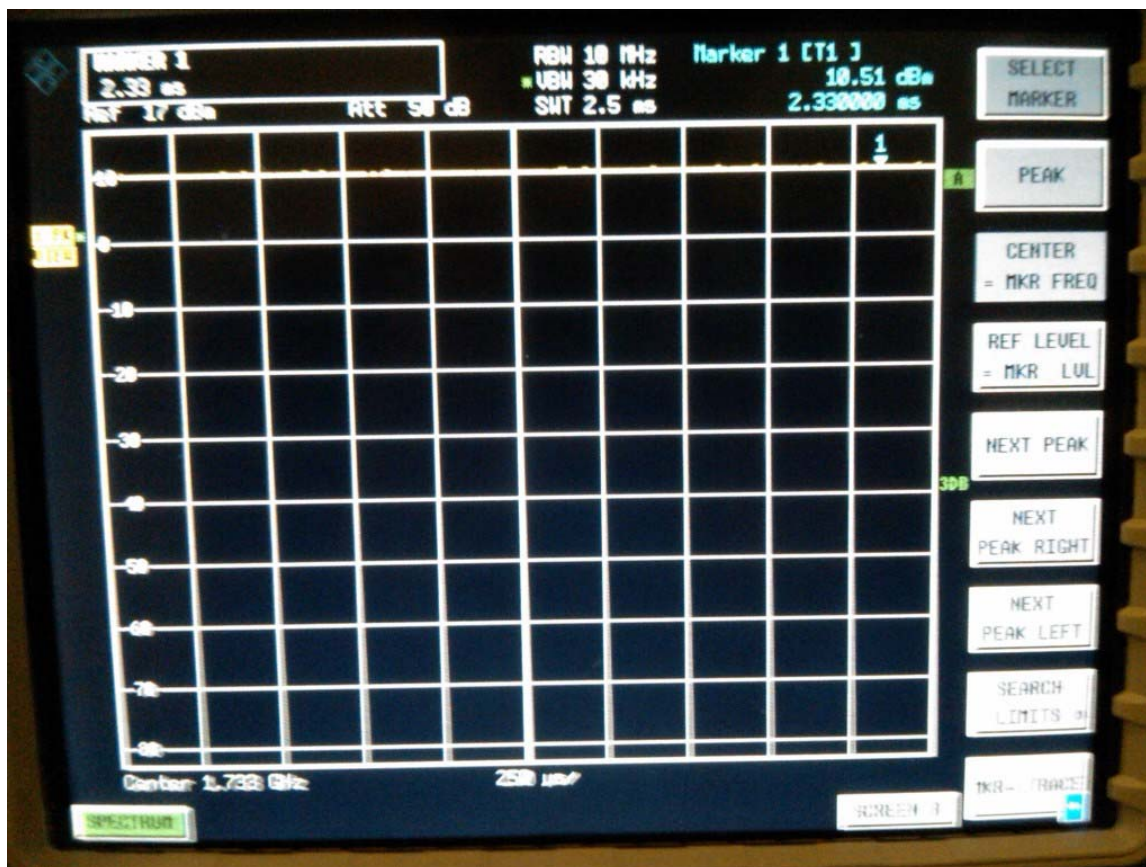
CW 1880 MHz

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 05, May 13-16, 2011	Report No RTS-2579-1107-18	FCC ID L6ARDD70UW



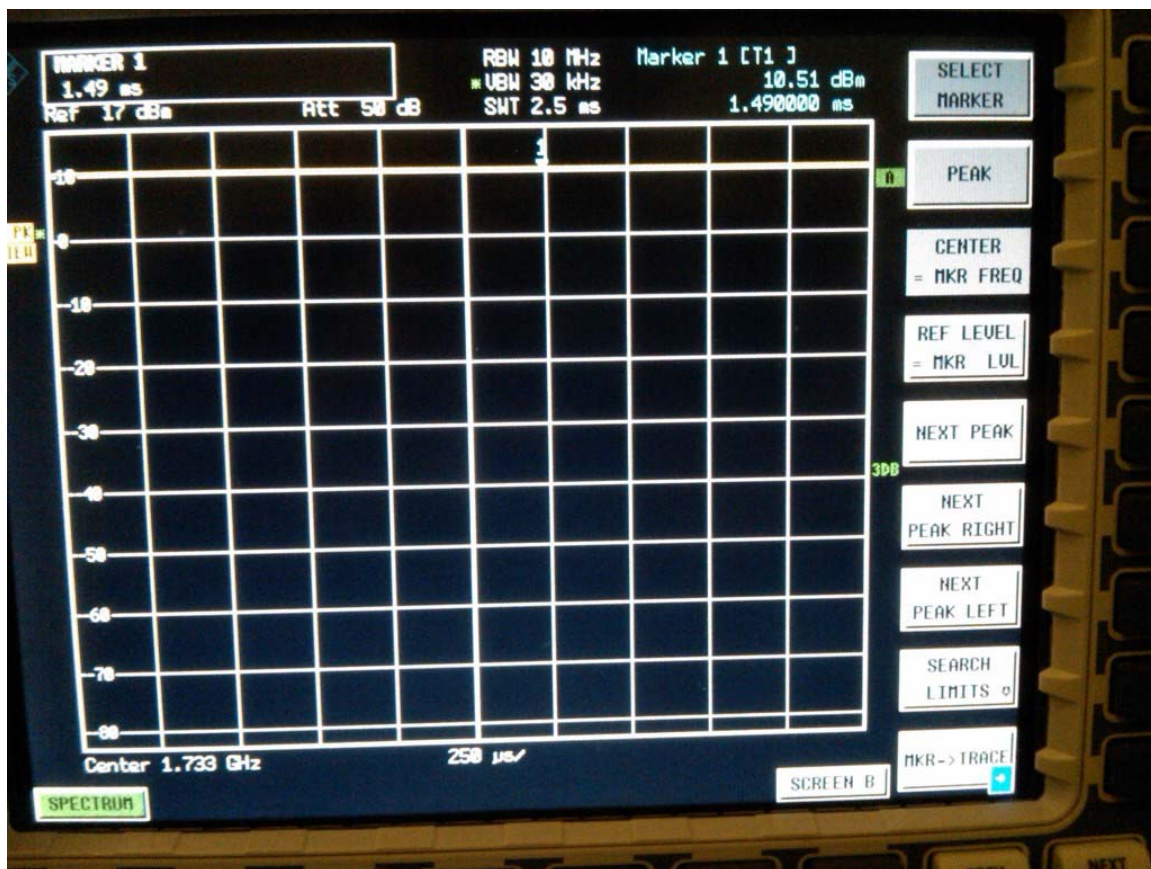
AM 80 % 1880 MHz

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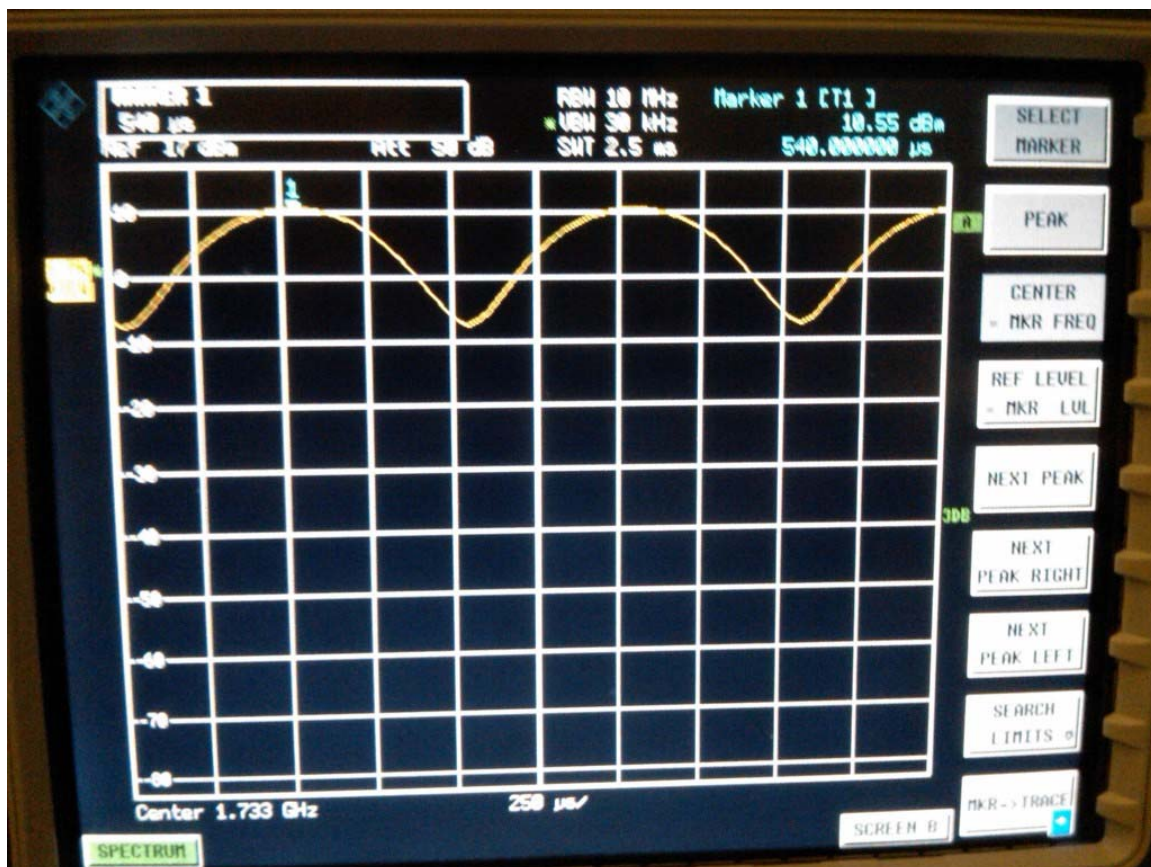
UMTS 1733 MHz

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

DASY5 Configuration:

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

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 160.2 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

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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

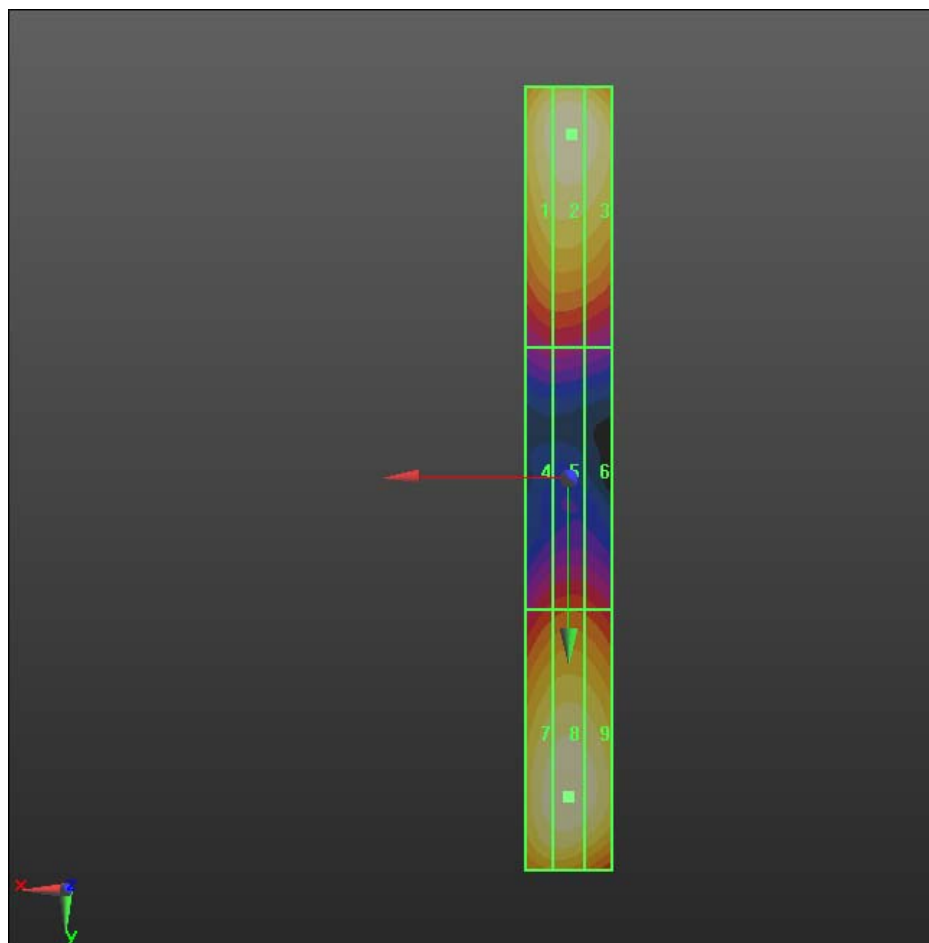
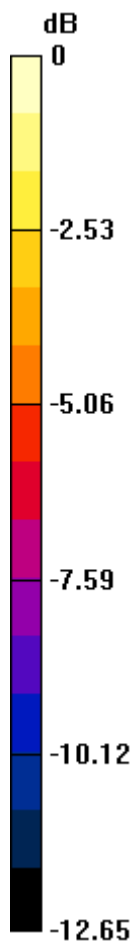
Cursor:

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

DASY5 Configuration:

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

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 54.142 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

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Peak E-field in V/m

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

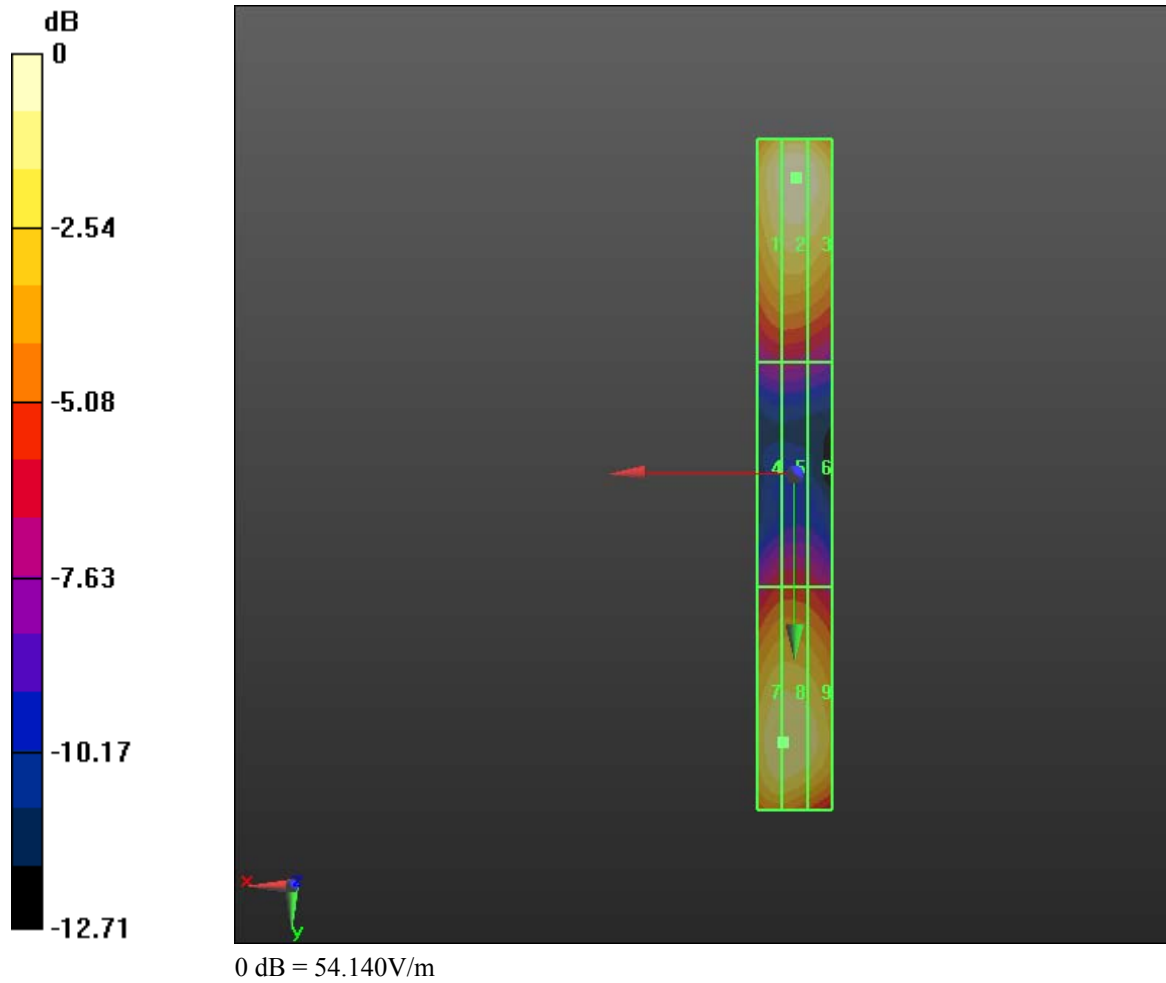
Cursor:

Total = 54.142 V/m

E Category: M4

Location: -0.5, -79.5, 4.7 mm

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

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CW835 MHz_GSM

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

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

DASY5 Configuration:

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

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 159.3 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

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Peak E-field in V/m

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

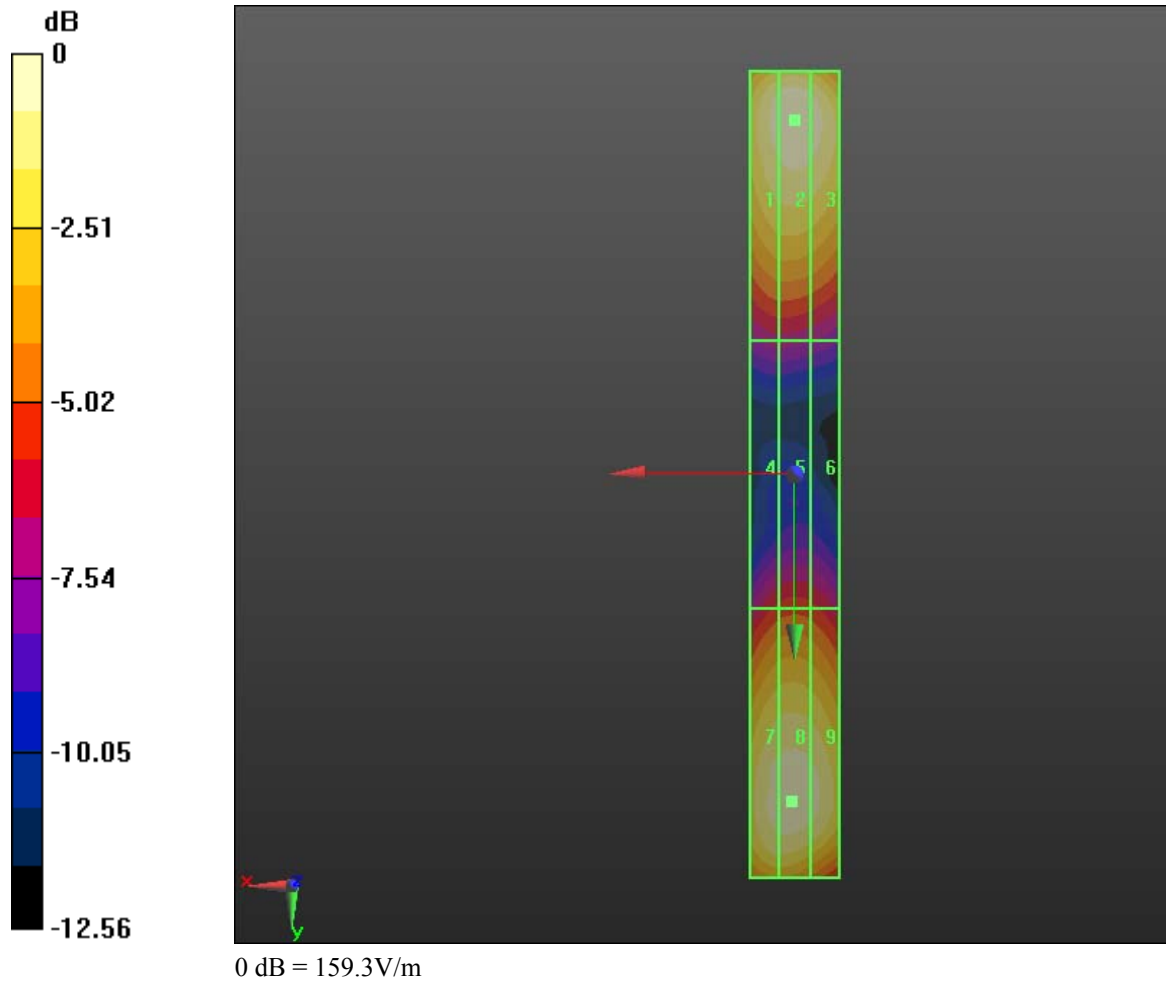
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Total = 159.3 V/m

E Category: M4

Location: 0, -79, 4.7 mm

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

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_AM80%835 MHz_GSM

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

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

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 99.820 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

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Peak E-field in V/m

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

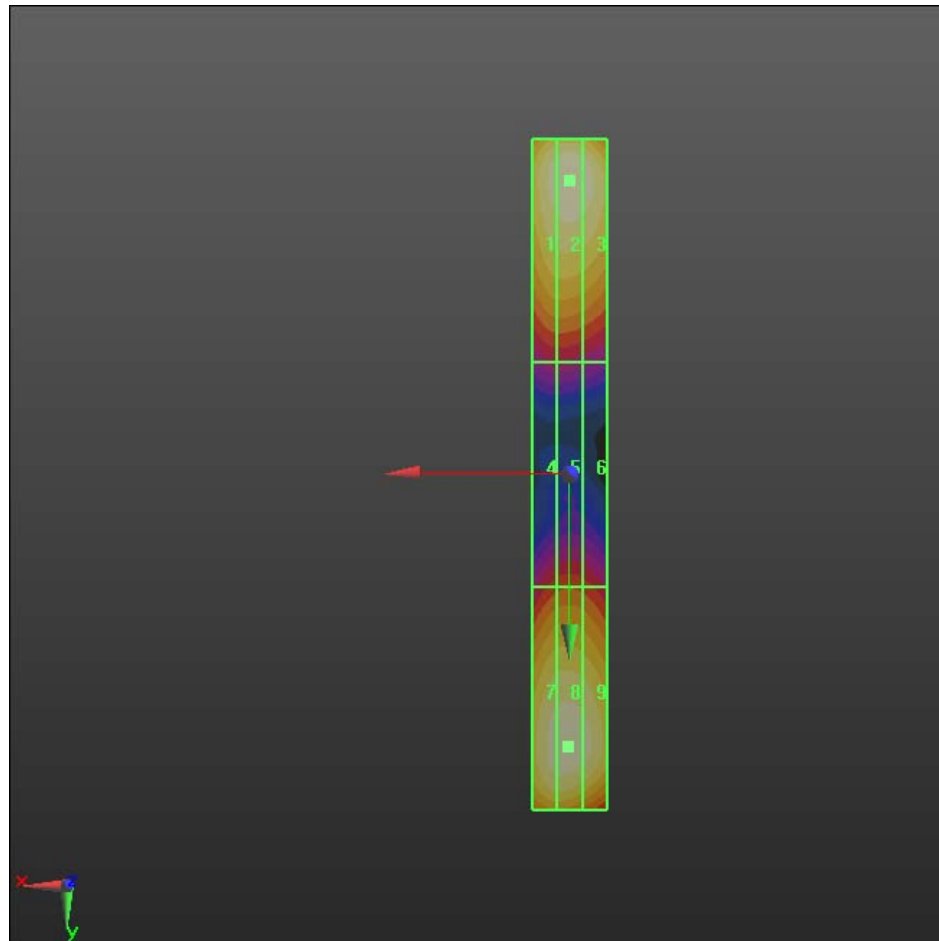
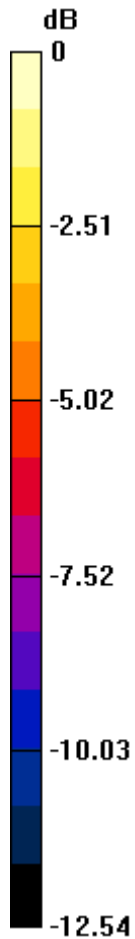
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Total = 99.821 V/m

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 4:50:23 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

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

DASY5 Configuration:

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

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 133.2 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

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Peak E-field in V/m

Grid 1 130.6 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

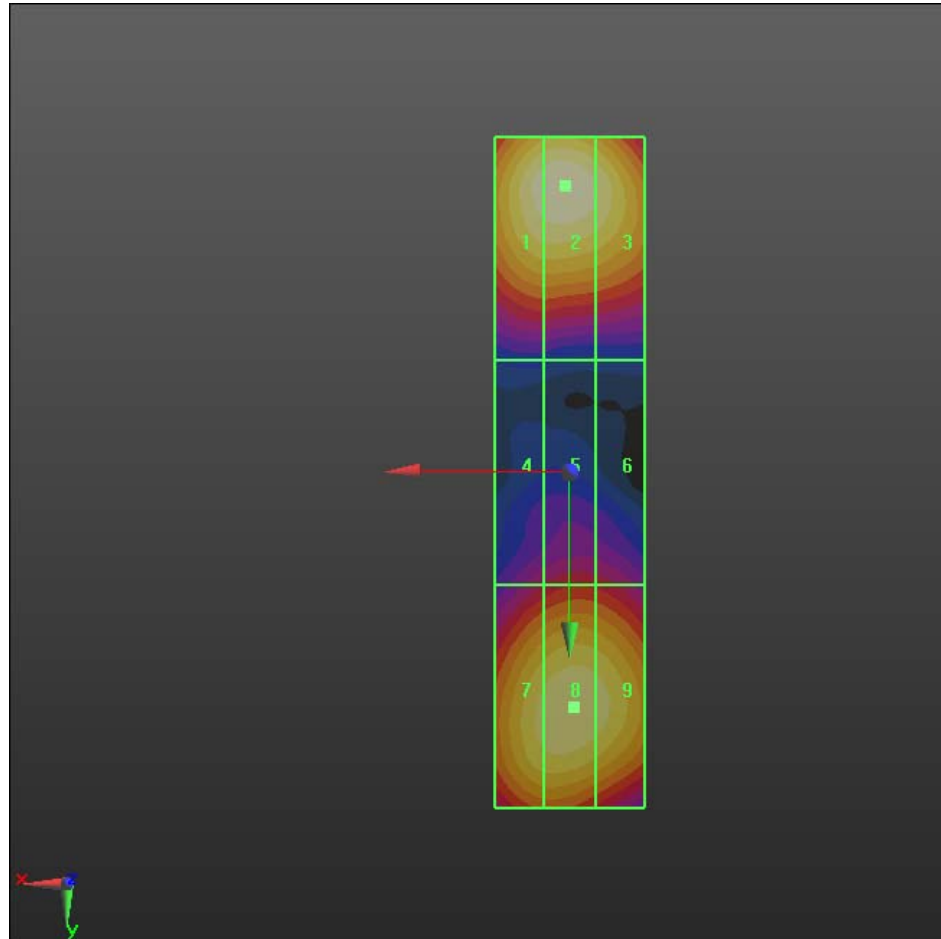
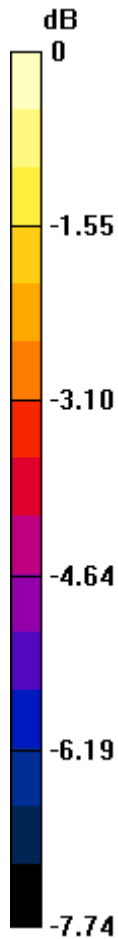
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Total = 133.2 V/m

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

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

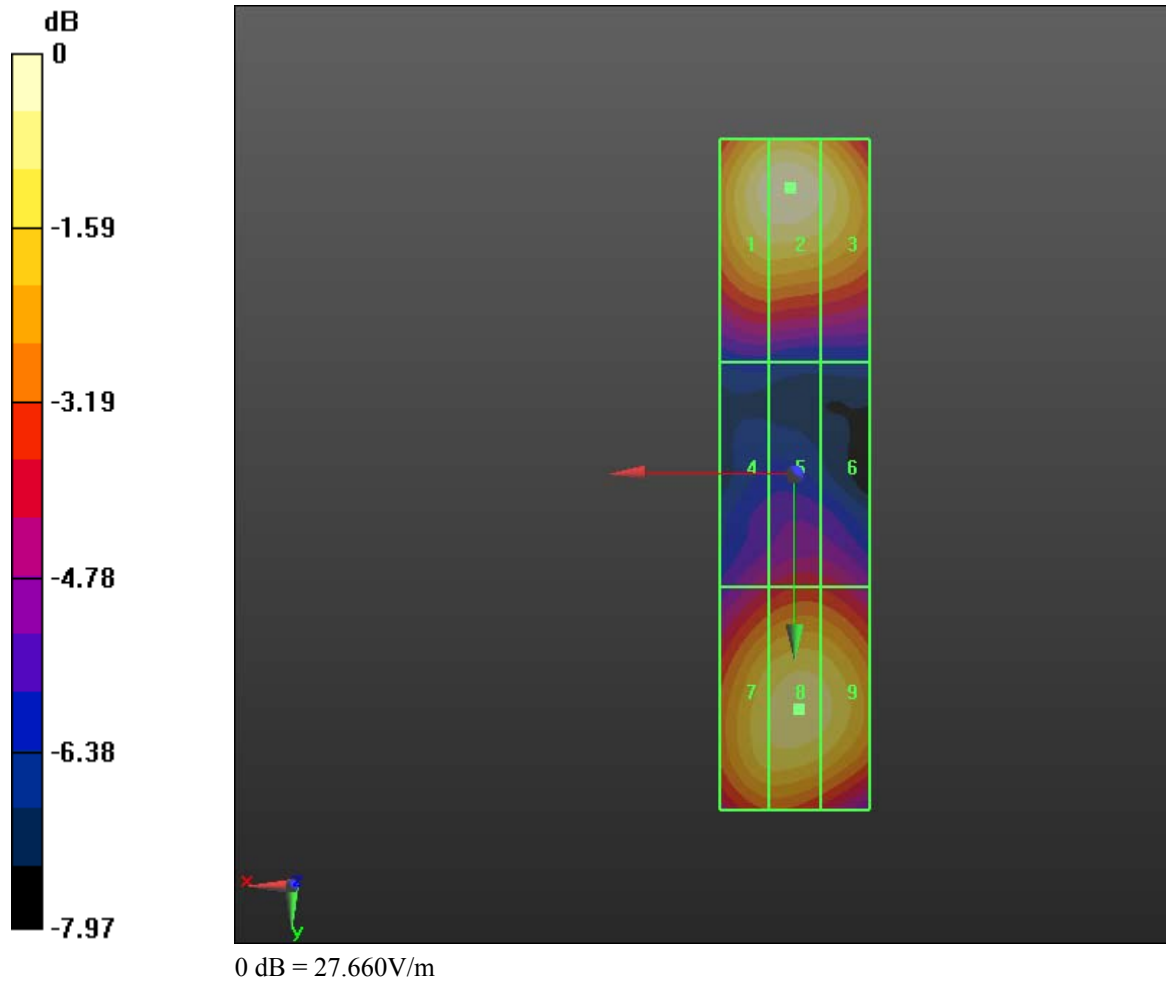
Cursor:

Total = 27.663 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm

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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

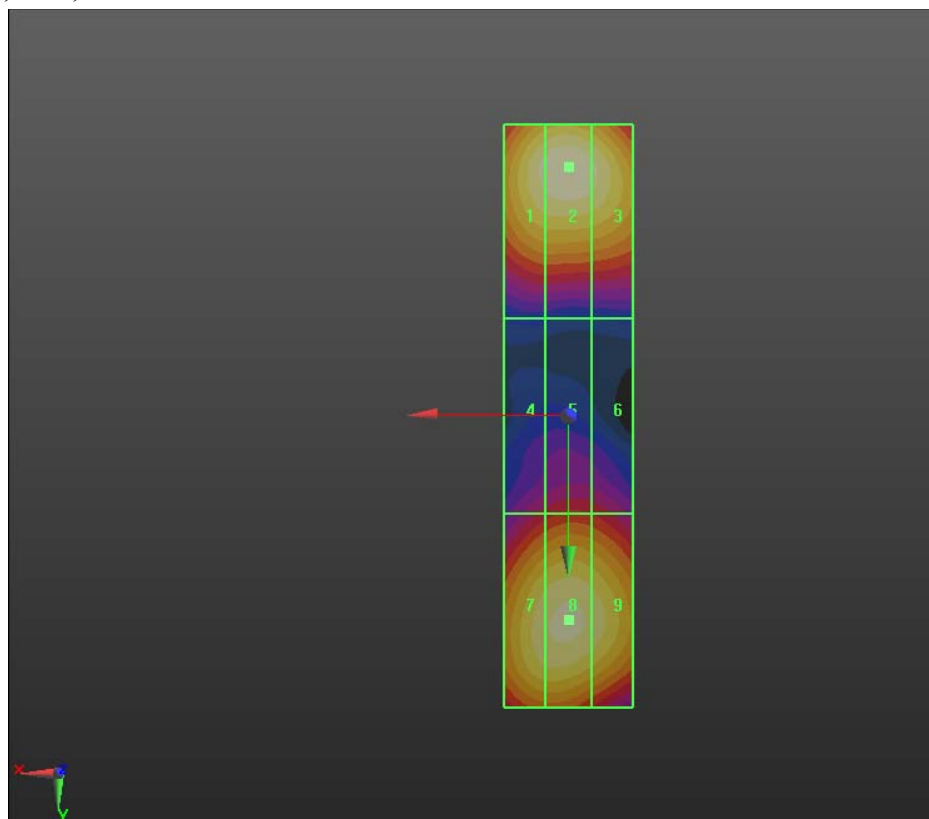
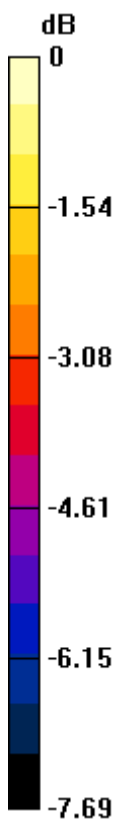
Grid 1 79.692 M3	Grid 2 82.216 M3	Grid 3 79.228 M3
Grid 4 52.849 M4	Grid 5 55.292 M4	Grid 6 54.232 M4
Grid 7 76.960 M3	Grid 8 78.815 M3	Grid 9 76.489 M3

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

DASY5 Configuration:

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

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 53.337 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

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Peak E-field in V/m

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

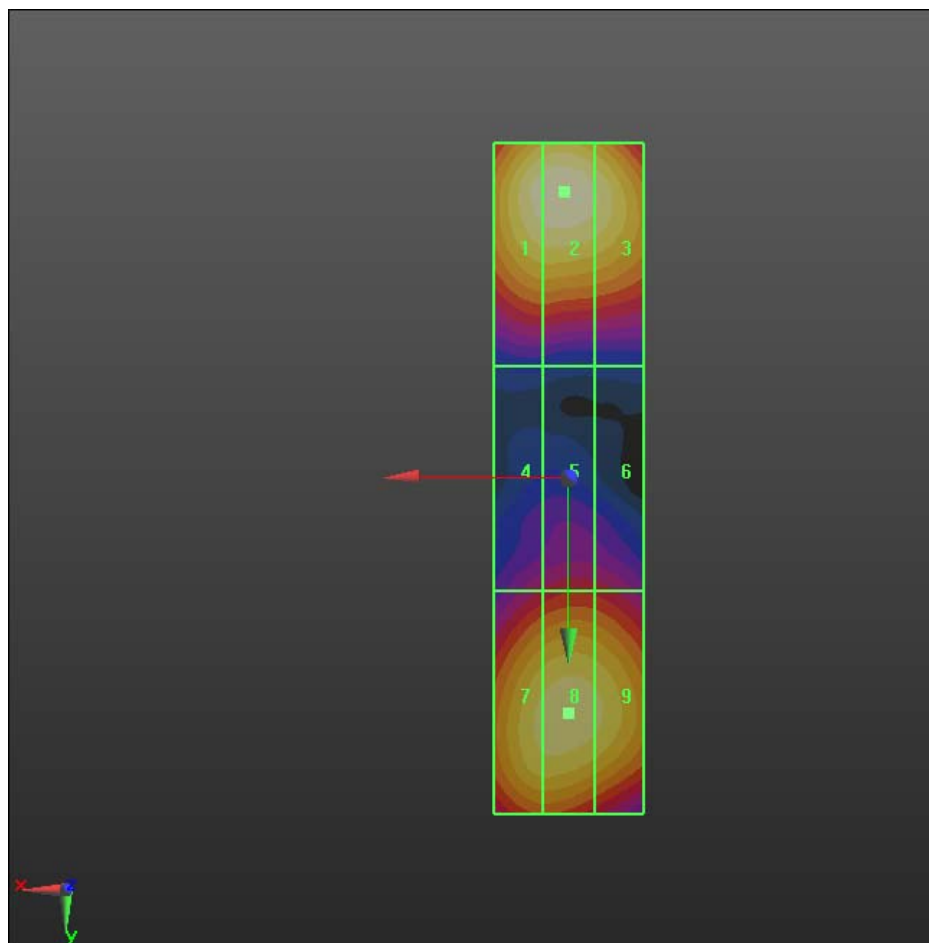
Cursor:

Total = 53.337 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm

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0 dB = 53.340V/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

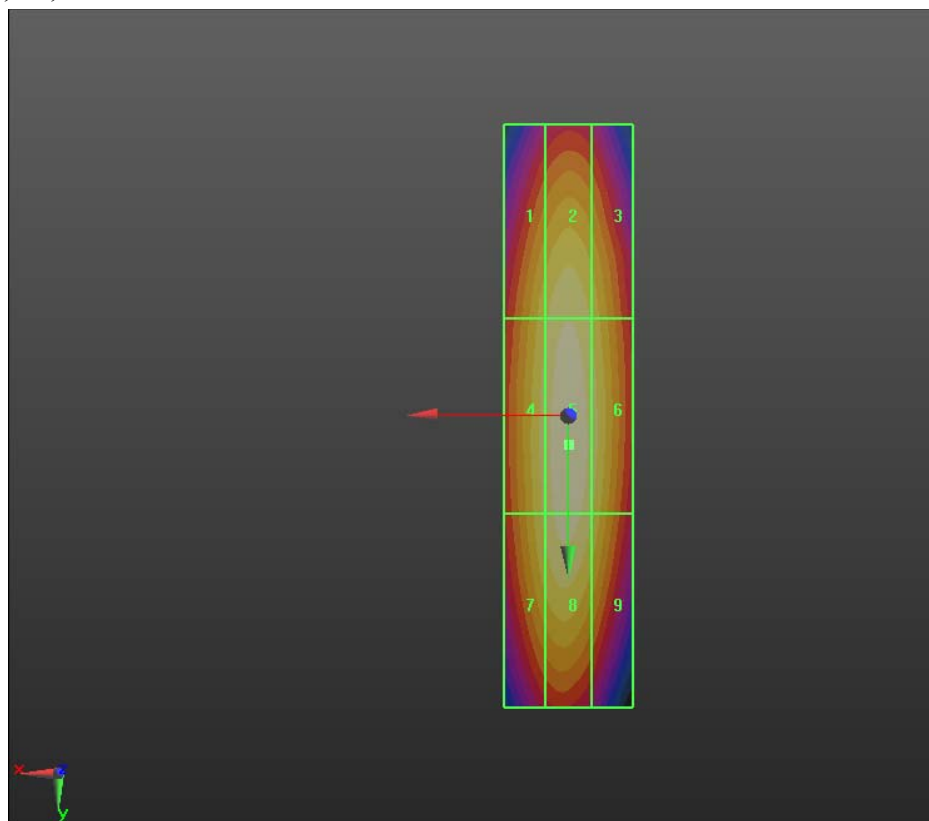
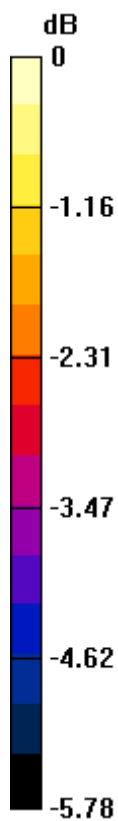
Grid 1 0.437 M4	Grid 2 0.459 M4	Grid 3 0.437 M4
Grid 4 0.453 M4	Grid 5 0.475 M4	Grid 6 0.453 M4
Grid 7 0.447 M4	Grid 8 0.469 M4	Grid 9 0.442 M4

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

DASY5 Configuration:

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

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

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

Maximum value of peak Total field = 0.168 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

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Peak H-field in A/m

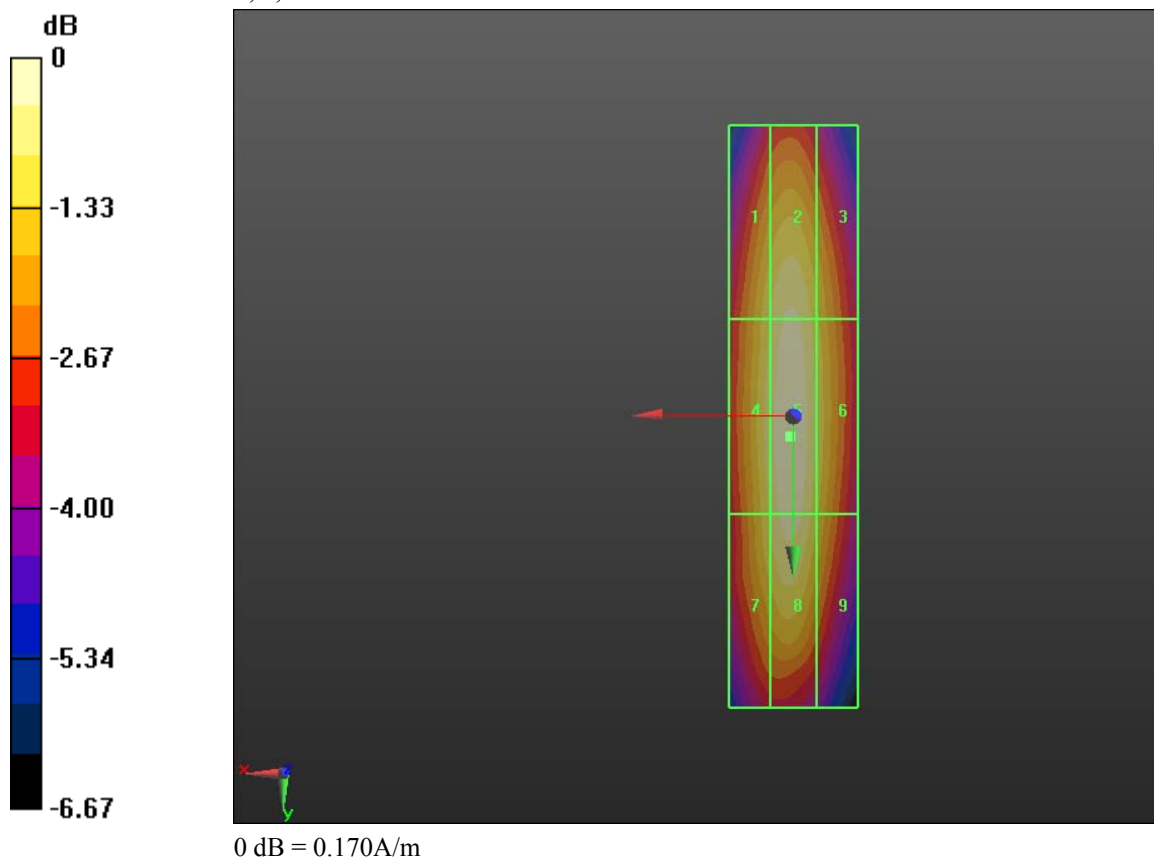
Grid 1 0.154 M4	Grid 2 0.163 M4	Grid 3 0.148 M4
Grid 4 0.159 M4	Grid 5 0.168 M4	Grid 6 0.153 M4
Grid 7 0.155 M4	Grid 8 0.165 M4	Grid 9 0.148 M4

Cursor:

Total = 0.168 A/m

H Category: M4

Location: 0.5, 3, 4.7 mm



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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: 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 = 0.482 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

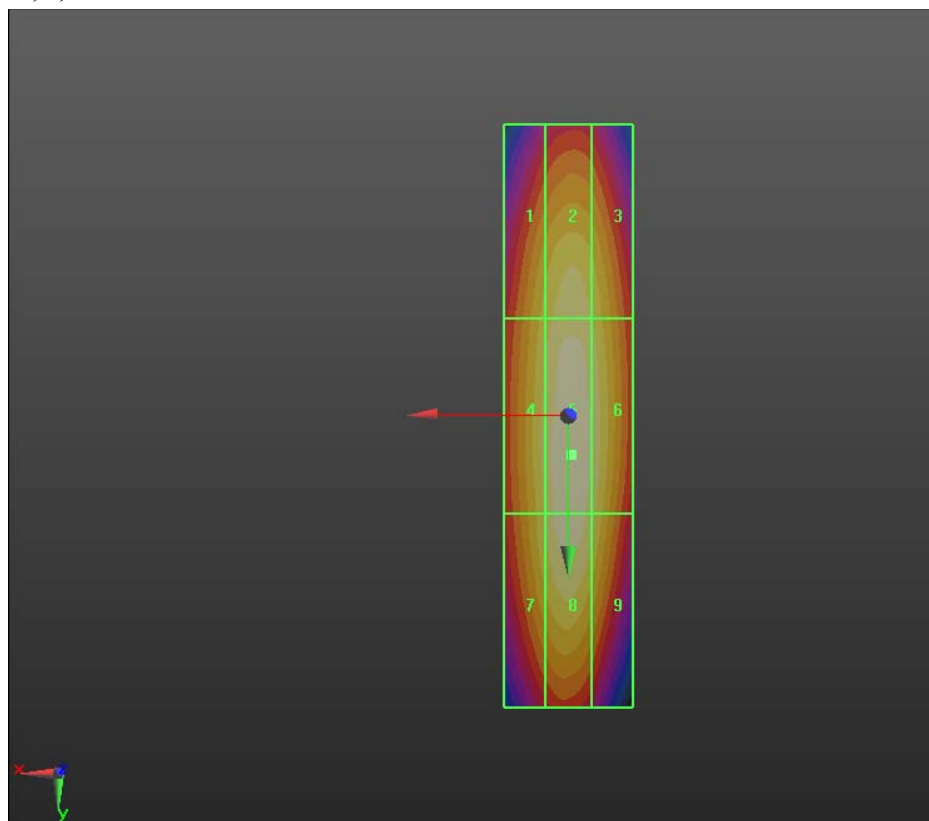
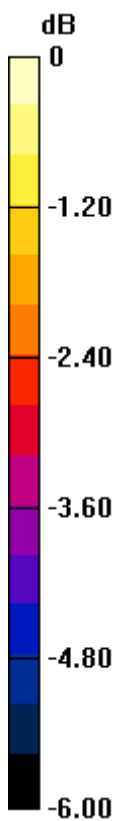
Grid 1 0.429 M4	Grid 2 0.450 M4	Grid 3 0.439 M4
Grid 4 0.449 M4	Grid 5 0.482 M4	Grid 6 0.458 M4
Grid 7 0.441 M4	Grid 8 0.475 M4	Grid 9 0.448 M4

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

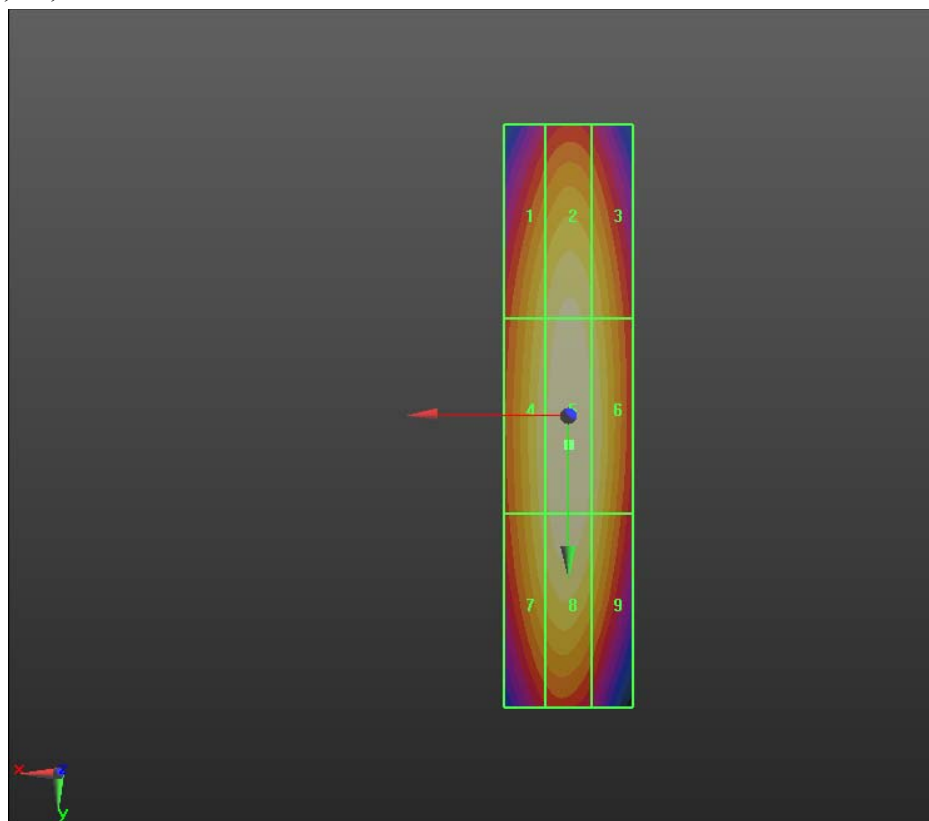
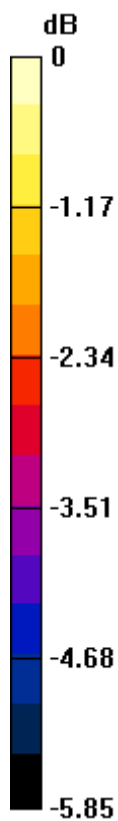
Grid 1 0.276 M4	Grid 2 0.292 M4	Grid 3 0.279 M4
Grid 4 0.286 M4	Grid 5 0.302 M4	Grid 6 0.289 M4
Grid 7 0.283 M4	Grid 8 0.299 M4	Grid 9 0.281 M4

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 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

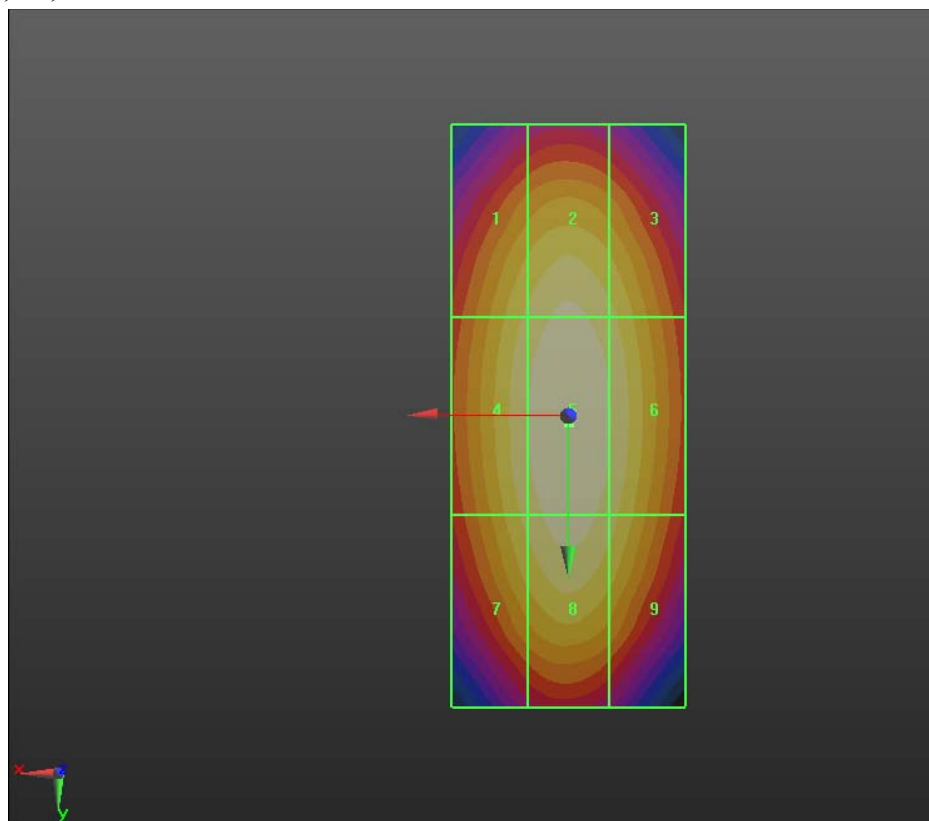
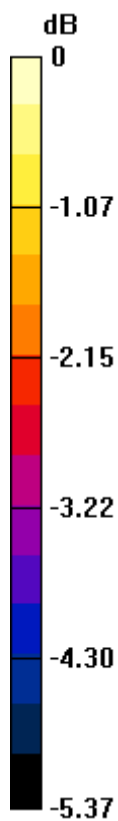
Grid 1 0.419 M2	Grid 2 0.436 M2	Grid 3 0.420 M2
Grid 4 0.432 M2	Grid 5 0.451 M2	Grid 6 0.434 M2
Grid 7 0.421 M2	Grid 8 0.442 M2	Grid 9 0.423 M2

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: 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 = 0.099 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

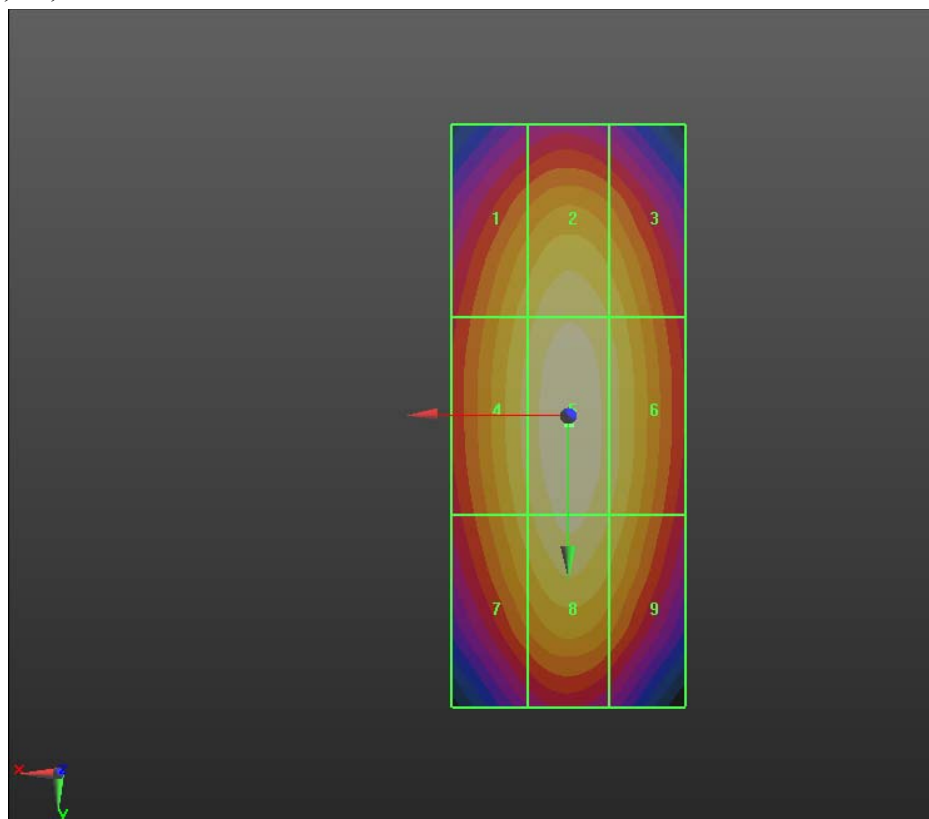
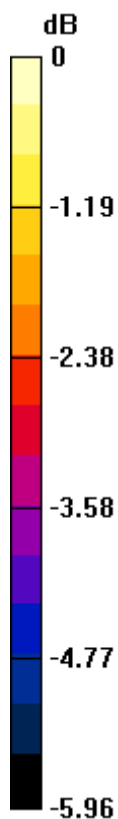
Grid 1 0.090 M4	Grid 2 0.095 M4	Grid 3 0.091 M4
Grid 4 0.093 M4	Grid 5 0.099 M4	Grid 6 0.094 M4
Grid 7 0.090 M4	Grid 8 0.097 M4	Grid 9 0.091 M4

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: 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: DASYS2, 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

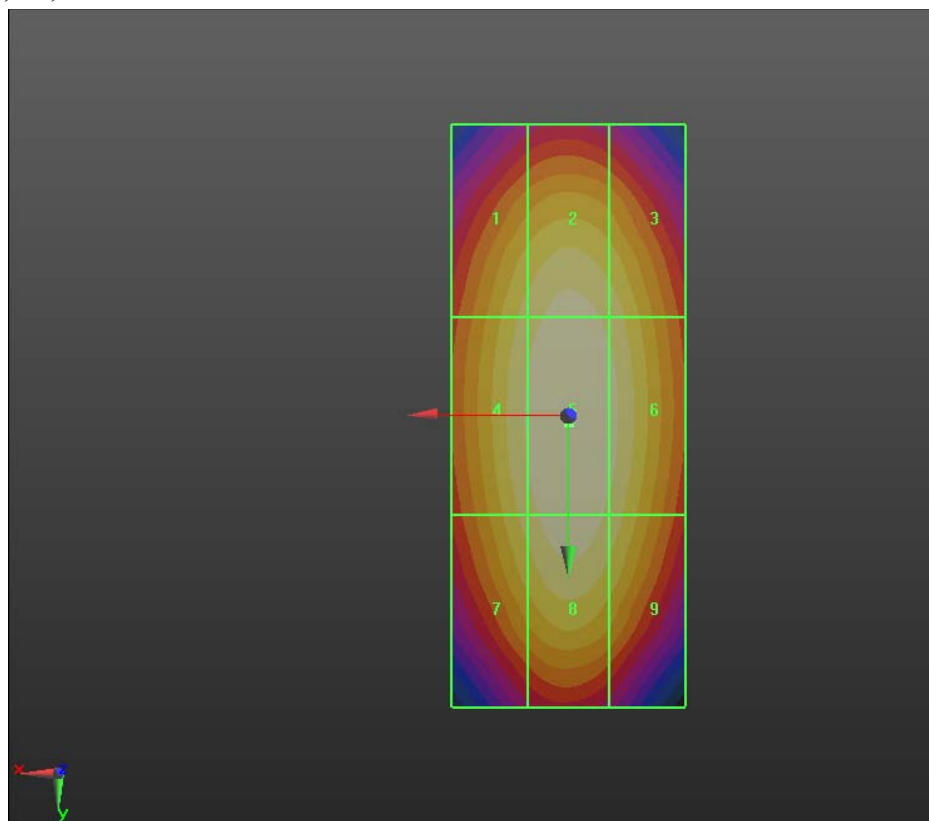
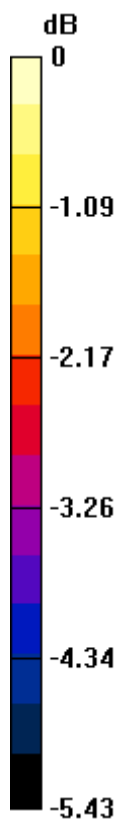
Grid 1 0.263 M3	Grid 2 0.274 M3	Grid 3 0.265 M3
Grid 4 0.271 M3	Grid 5 0.284 M3	Grid 6 0.274 M3
Grid 7 0.263 M3	Grid 8 0.278 M3	Grid 9 0.266 M3

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: DASYS2, 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

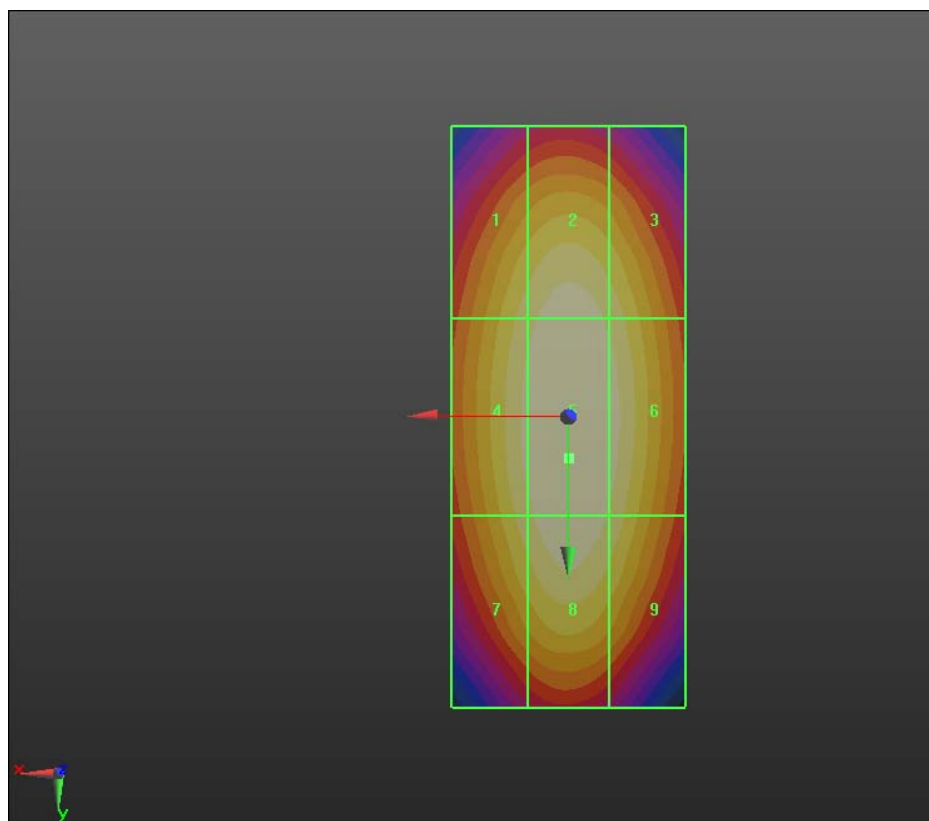
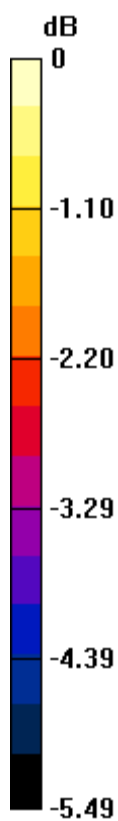
Reference Value = 0.196 A/m; Power Drift = -0.02 dB

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: 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 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)

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Peak E-field in V/m

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

Dipole E-Field 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 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

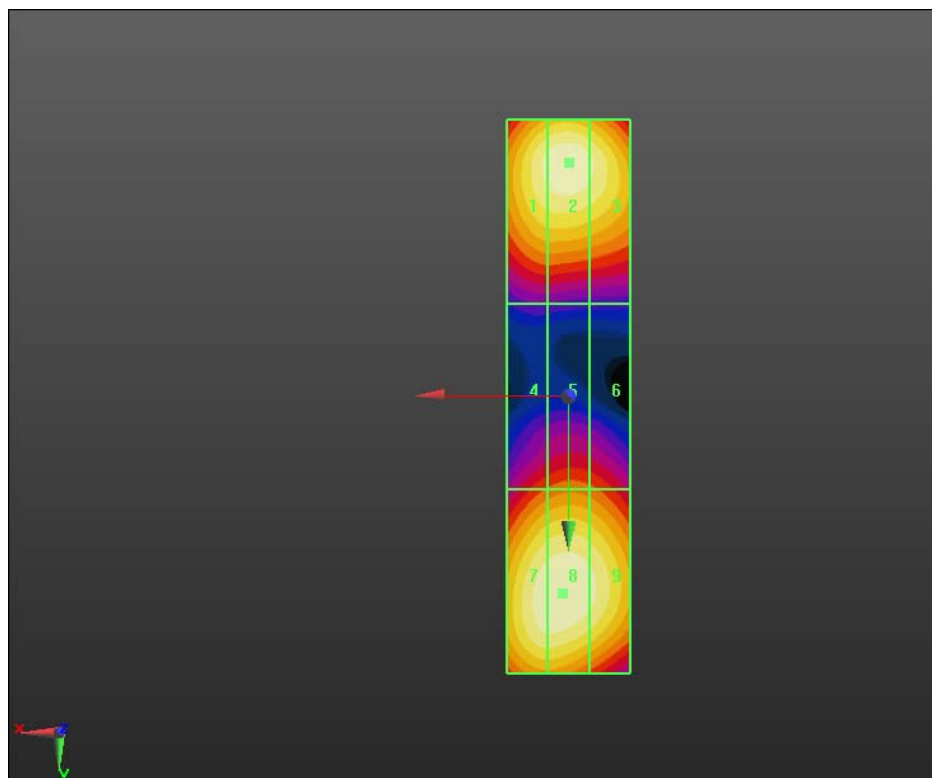
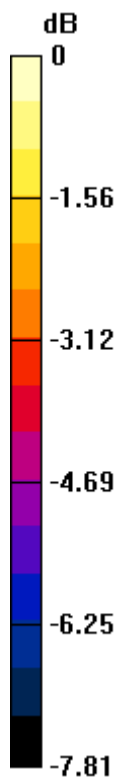
Reference Value = 28.666 V/m; Power Drift = -0.03 dB

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: 5/13/2011 2:33:55 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 = 131.2 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 120.2 V/m; Power Drift = 0.06 dB

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

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Peak E-field in V/m

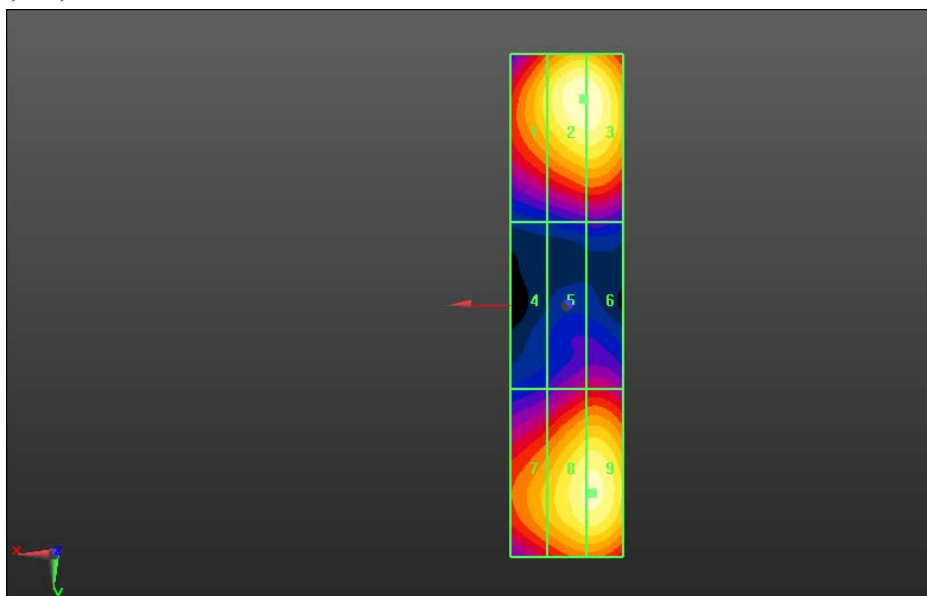
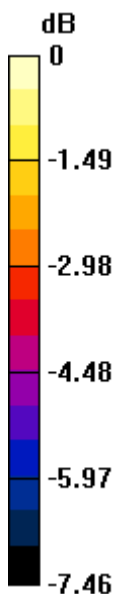
Grid 1 113.9 M2	Grid 2 131.2 M2	Grid 3 131.0 M2
Grid 4 71.642 M3	Grid 5 83.292 M3	Grid 6 84.259 M3
Grid 7 107.3 M3	Grid 8 126.1 M2	Grid 9 127.0 M2

Cursor:

Total = 131.2 V/m

E Category: M2

Location: -3, -37, 4.7 mm



0 dB = 131.2V/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: 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 H-Field 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

Dipole H-Field 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 H-Field 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

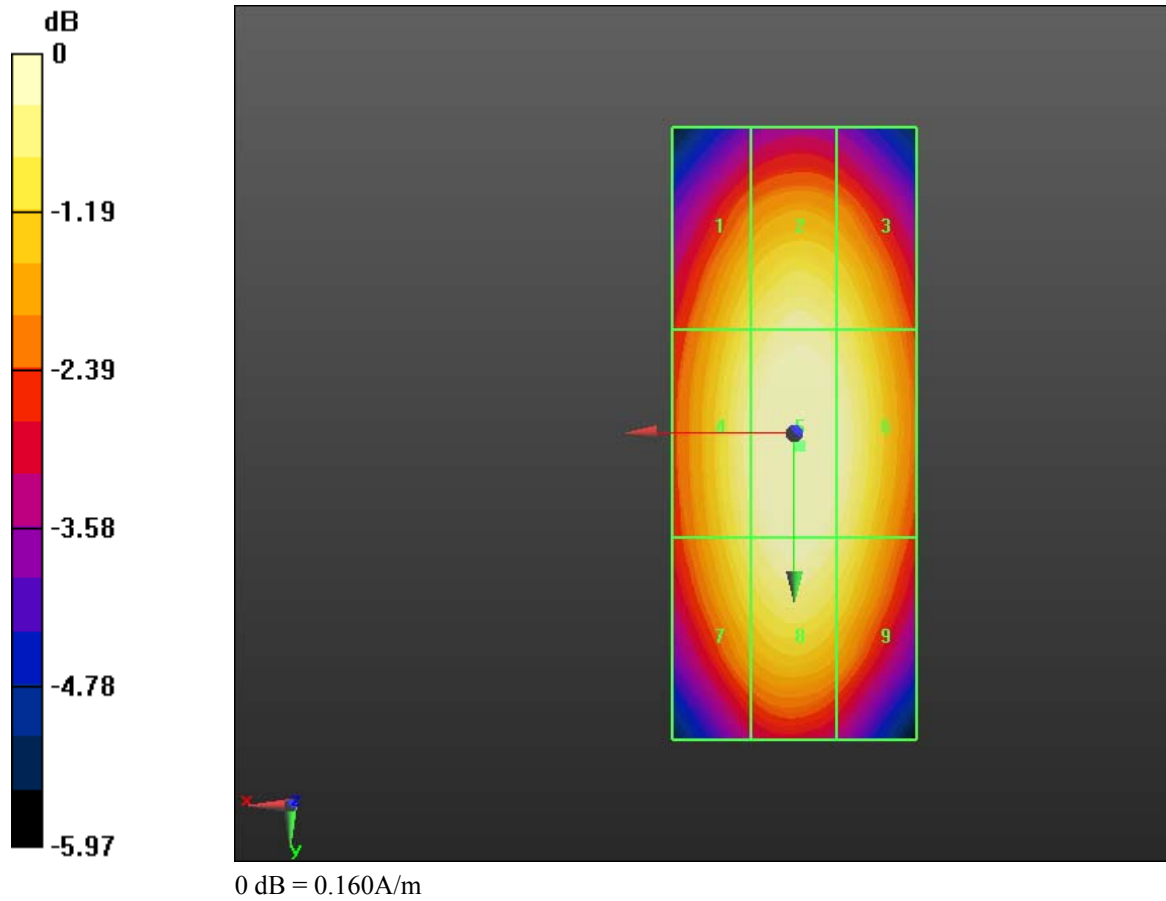
Reference Value = 0.110 A/m; Power Drift = -0.04 dB

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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Date/Time: 5/13/2011 2:44:07 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: 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 = 0.455 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.484 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

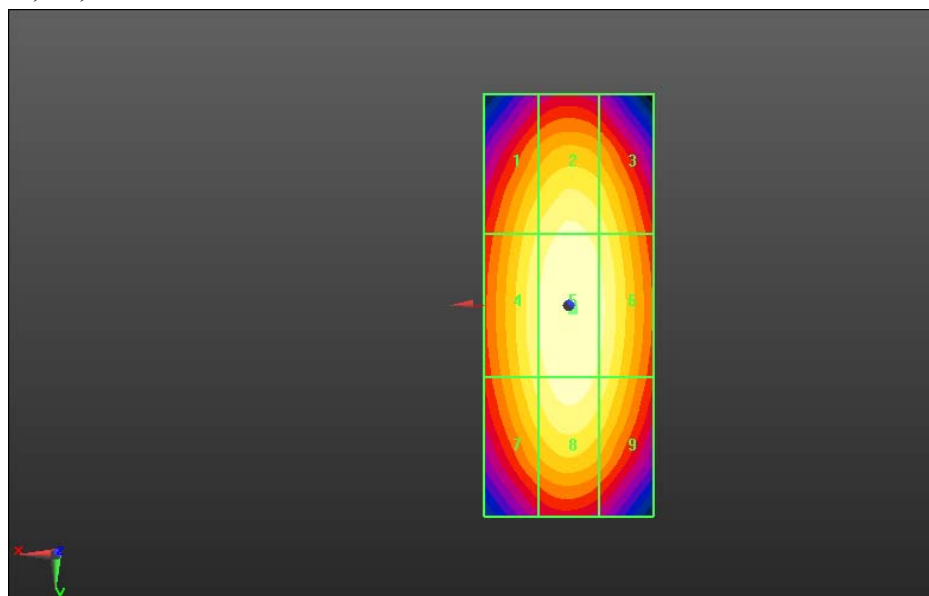
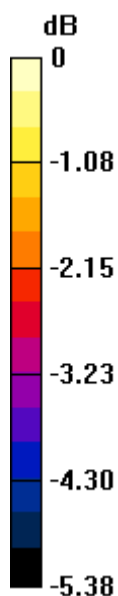
Grid 1 0.418 M2	Grid 2 0.437 M2	Grid 3 0.425 M2
Grid 4 0.432 M2	Grid 5 0.455 M2	Grid 6 0.439 M2
Grid 7 0.424 M2	Grid 8 0.445 M2	Grid 9 0.428 M2

Cursor:

Total = 0.455 A/m

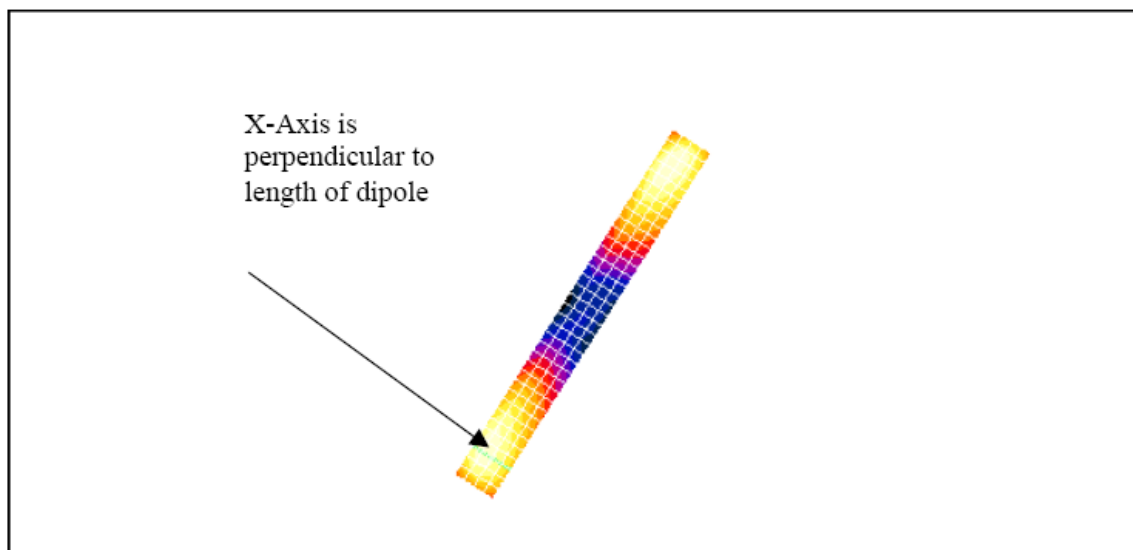
H Category: M2

Location: -0.5, 0.5, 4.7 mm



0 dB = 0.450A/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

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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)

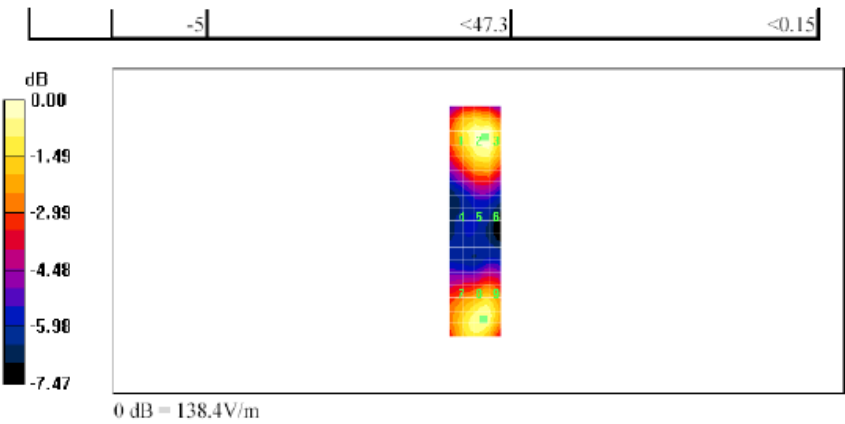
Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.2	138.1	138.4	123.2	138.1	138.4
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
80.9	92.3	92.2	80.9	92.3	92.2
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
119.8	131.0	130.7	119.8	131.0	130.7

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

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

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Date/Time: 14/07/2005 11:44:51 AM

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Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

DASY4 Configuration:

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

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

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

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

Measurement grid: dx=2mm, dy=2mm
Maximum value of Total field (slot averaged) = 131.2 V/m

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

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

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

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

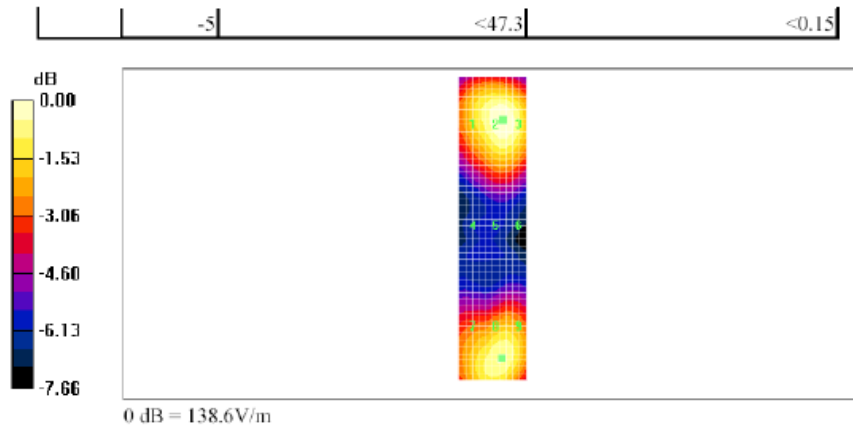
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Date/Time: 14/07/2005 12:43:02 PM

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)

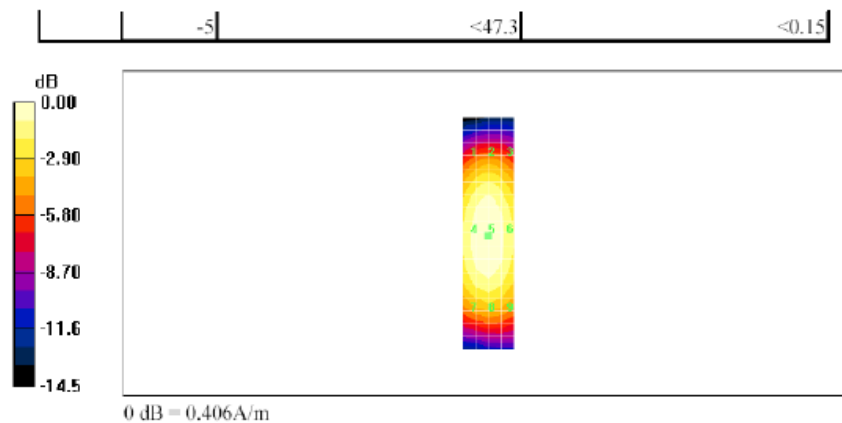
Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.342	0.359	0.344	0.342	0.359	0.344
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.389	0.406	0.389	0.389	0.406	0.389
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.363	0.378	0.363	0.363	0.378	0.363

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

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

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

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

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

DASY4 Configuration:

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

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

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

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

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

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

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

Grid 1	Grid 2	Grid 3	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

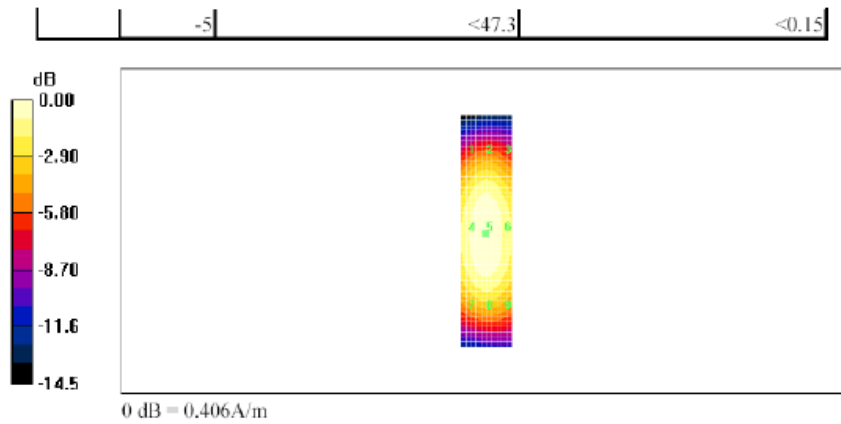
file://C:\Program%20Files\DASY4\Print_Templates\HAC_H_Dipole_CW%201880_2%... 14/07/2005

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

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

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A.3 RF emission field plots

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Date/Time: 5/13/2011 11:25:05 AM, Date/Time: 5/13/2011 11:30:45 AM, Date/Time: 5/13/2011 11:34:35 AM

Test Laboratory: RIM Testing Services

HAC RF_E-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: 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 = 200.4 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 84.085 V/m; Power Drift = 0.14 dB

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

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Peak E-field in V/m

Grid 1 171.8 M3	Grid 2 193.9 M3	Grid 3 191.2 M3
Grid 4 178.1 M3	Grid 5 200.4 M3	Grid 6 198.1 M3
Grid 7 181.5 M3	Grid 8 200.2 M3	Grid 9 197.5 M3

Cursor:

Total = 200.4 V/m

E Category: M3

Location: -4.5, 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 = 240.2 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 98.602 V/m; Power Drift = 0.13 dB

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

Peak E-field in V/m

Grid 1 192.1 M3	Grid 2 225.3 M3	Grid 3 224.7 M3
Grid 4 205.2 M3	Grid 5 240.2 M3	Grid 6 239.0 M3
Grid 7 214.5 M3	Grid 8 240.5 M3	Grid 9 239.0 M3

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Cursor:

Total = 240.5 V/m

E Category: M3

Location: -5.5, 12, 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 = 264.7 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 108.7 V/m; Power Drift = 0.05 dB

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

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Peak E-field in V/m

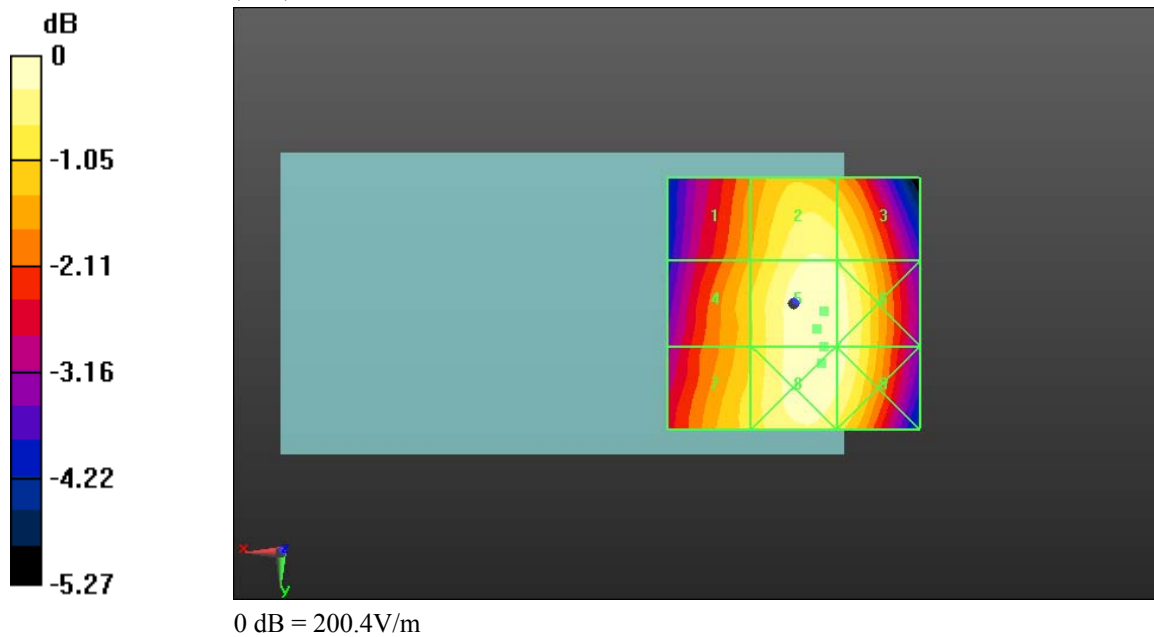
Grid 1 214.6 M3	Grid 2 257.2 M3	Grid 3 256.8 M3
Grid 4 222.1 M3	Grid 5 264.7 M3	Grid 6 263.7 M3
Grid 7 225.9 M3	Grid 8 263.8 M3	Grid 9 261.3 M3

Cursor:

Total = 264.7 V/m

E Category: M3

Location: -6, 1.5, 8.7 mm



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Date/Time: 5/16/2011 3:56:57 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM850_telecoil

DUT: BlackBerry Smartphone; Type: Sample

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

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: 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/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 263.7 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 111.7 V/m; Power Drift = 0.06 dB

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

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Peak E-field in V/m

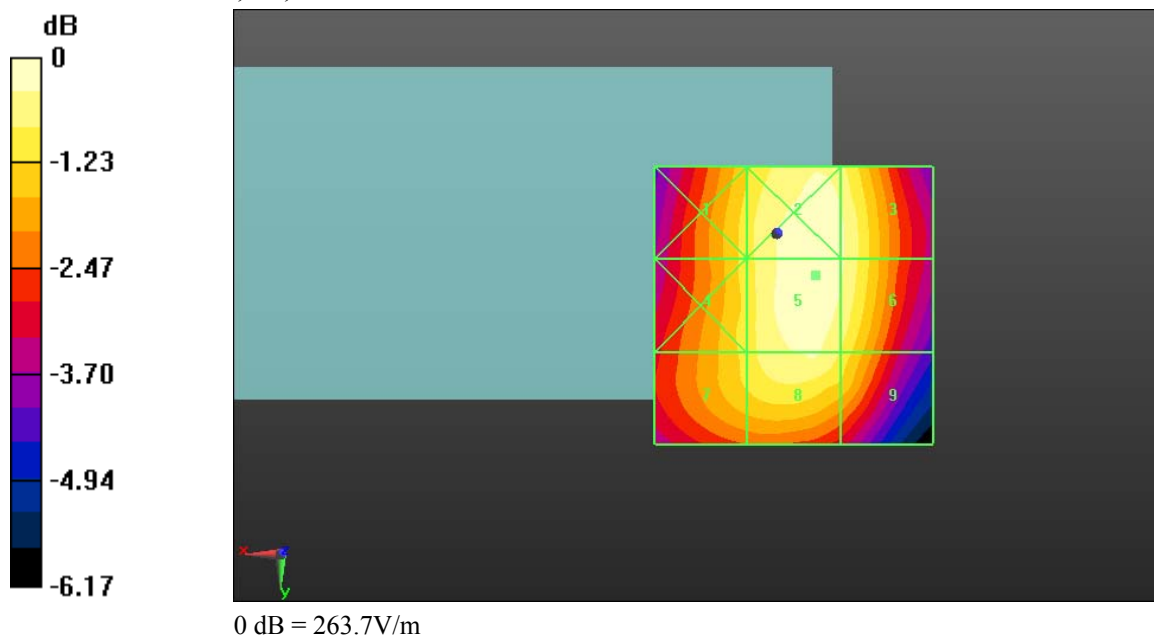
Grid 1 234.8 M3	Grid 2 263.1 M3	Grid 3 254.2 M3
Grid 4 234.7 M3	Grid 5 263.7 M3	Grid 6 253.9 M3
Grid 7 233.7 M3	Grid 8 253.0 M3	Grid 9 238.3 M3

Cursor:

Total = 263.7 V/m

E Category: M3

Location: -7, 7.5, 8.7 mm



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Date/Time: 5/13/2011 10:48:47 AM, Date/Time: 5/13/2011 11:09:01 AM, Date/Time: 5/13/2011 11:12:49 AM

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: 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 = 76.013 V/m
Probe Modulation Factor = 2.970
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 11.989 V/m; Power Drift = -0.0094 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

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Peak E-field in V/m

Grid 1 95.691 M2	Grid 2 102.1 M2	Grid 3 95.399 M2
Grid 4 44.352 M4	Grid 5 55.177 M3	Grid 6 55.472 M3
Grid 7 72.284 M3	Grid 8 76.013 M3	Grid 9 72.070 M3

Cursor:

Total = 102.1 V/m

E Category: M2

Location: -2.5, -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 = 63.432 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 11.294 V/m; Power Drift = 0.15 dB

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

Peak E-field in V/m

Grid 1 77.124 M3	Grid 2 85.587 M2	Grid 3 82.924 M3
Grid 4 36.958 M4	Grid 5 53.580 M3	Grid 6 54.682 M3
Grid 7 58.237 M3	Grid 8 63.432 M3	Grid 9 62.234 M3

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Cursor:

Total = 85.587 V/m

E Category: M2

Location: -2.5, -25, 8.7 mm

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

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

Maximum value of peak Total field = 52.785 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 10.720 V/m; Power Drift = -0.15 dB

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

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Peak E-field in V/m

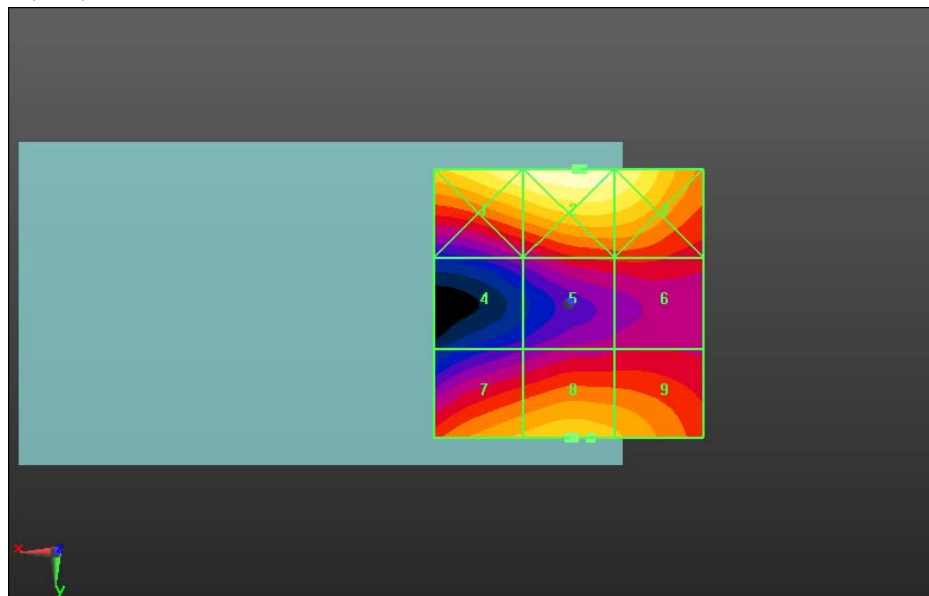
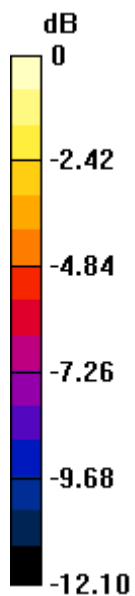
Grid 1 73.517 M3	Grid 2 80.987 M3	Grid 3 77.626 M3
Grid 4 35.817 M4	Grid 5 50.087 M3	Grid 6 50.320 M3
Grid 7 50.905 M3	Grid 8 52.785 M3	Grid 9 50.778 M3

Cursor:

Total = 80.987 V/m

E Category: M3

Location: -1.5, -25, 8.7 mm



0 dB = 102.1V/m

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Date/Time: 5/16/2011 4:03:31 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 1900; Frequency: 1850.2 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: 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/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 72.085 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

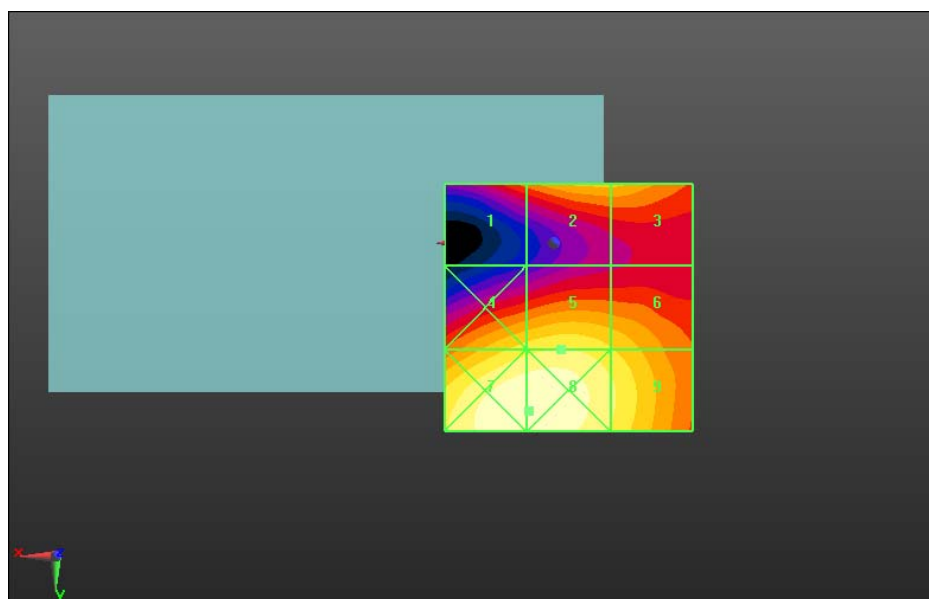
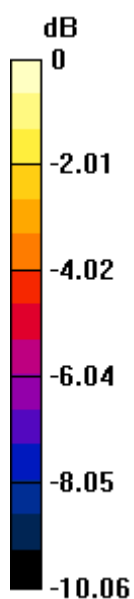
Reference Value = 11.633 V/m; Power Drift = -0.19 dB

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

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Peak E-field in V/m

Grid 1 54.928 M3	Grid 2 62.886 M3	Grid 3 62.830 M3
Grid 4 68.560 M3	Grid 5 71.121 M3	Grid 6 66.227 M3
Grid 7 82.764 M3	Grid 8 82.769 M3	Grid 9 72.085 M3



0 dB = 82.770V/m

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Date/Time: 5/13/2011 11:49:16 AM, Date/Time: 5/13/2011 11:54:23 AM, Date/Time: 5/13/2011 11:58:48 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, 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:

- 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 = 31.404 V/m
Probe Modulation Factor = 0.970
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 20.396 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 31.404 M4	Grid 2 31.002 M4	Grid 3 25.492 M4
Grid 4 20.346 M4	Grid 5 27.500 M4	Grid 6 27.494 M4
Grid 7 33.511 M4	Grid 8 38.136 M4	Grid 9 36.990 M4

Cursor:

Total = 38.136 V/m

E Category: M4

Location: -3, 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 = 31.332 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.382 V/m; Power Drift = -0.13 dB

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

Peak E-field in V/m

Grid 1 31.233 M4	Grid 2 31.332 M4	Grid 3 26.491 M4
Grid 4 18.202 M4	Grid 5 23.887 M4	Grid 6 23.823 M4
Grid 7 32.161 M4	Grid 8 36.253 M4	Grid 9 35.041 M4

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Cursor:

Total = 36.253 V/m

E Category: M4

Location: -3.5, 25, 8.7 mm

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

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

Maximum value of peak Total field = 28.977 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 12.012 V/m; Power Drift = 0.04 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. 05, May 13-16, 2011	Report No RTS-2579-1107-18	FCC ID L6ARDD70UW

Peak E-field in V/m

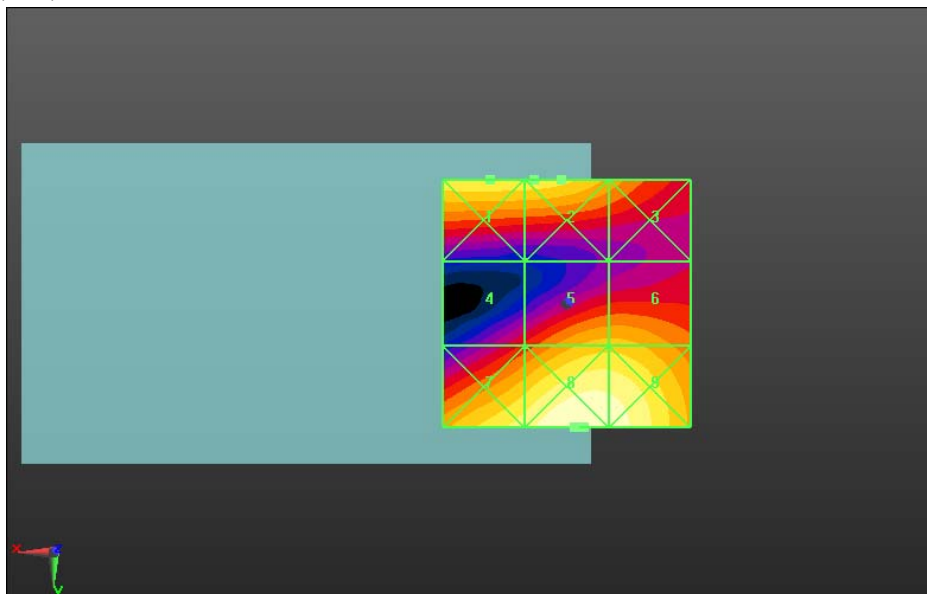
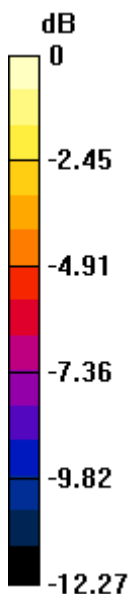
Grid 1 28.075 M4	Grid 2 29.012 M4	Grid 3 26.661 M4
Grid 4 14.167 M4	Grid 5 17.590 M4	Grid 6 17.487 M4
Grid 7 26.682 M4	Grid 8 28.977 M4	Grid 9 27.772 M4

Cursor:

Total = 29.012 V/m

E Category: M4

Location: 1, -25, 8.7 mm



0 dB = 38.140V/m

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 05, May 13-16, 2011	Report No RTS-2579-1107-18	FCC ID L6ARDD70UW

Date/Time: 5/16/2011 3:47:10 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; 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: 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 = 38.455 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 21.914 V/m; Power Drift = -0.11 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. 05, May 13-16, 2011	Report No RTS-2579-1107-18	FCC ID L6ARDD70UW

Peak E-field in V/m

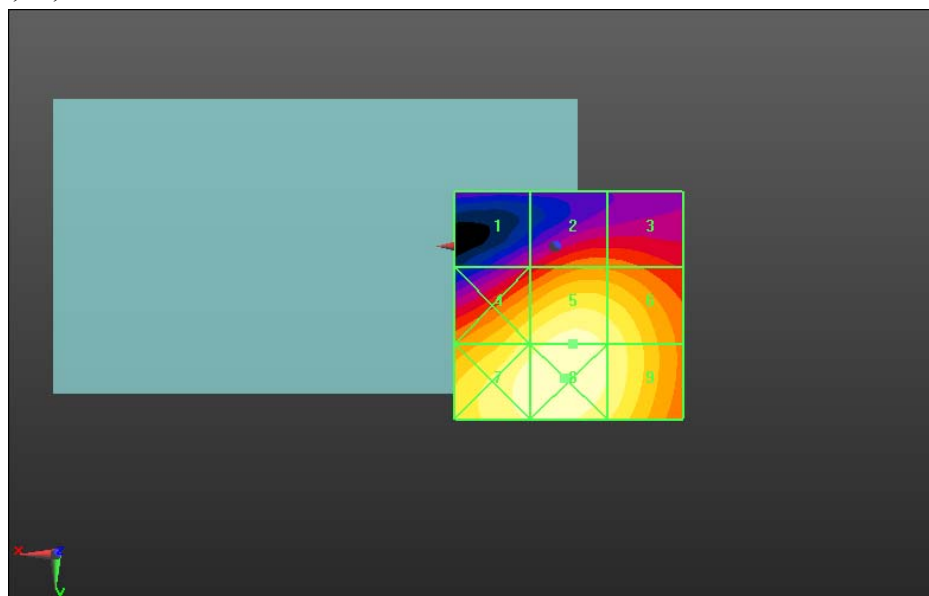
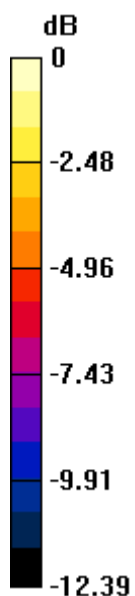
Grid 1 19.146 M4	Grid 2 24.888 M4	Grid 3 24.554 M4
Grid 4 34.768 M4	Grid 5 38.455 M4	Grid 6 35.967 M4
Grid 7 38.624 M4	Grid 8 40.269 M4	Grid 9 36.679 M4

Cursor:

Total = 40.269 V/m

E Category: M4

Location: -2, 29, 8.7 mm



0 dB = 40.270V/m

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, Apr. 05, May 13-16, 2011	Report No RTS-2579-1107-18	FCC ID L6ARDD70UW

Date/Time: 5/13/2011 3:26:42 PM, Date/Time: 5/13/2011 3:30:46 PM, Date/Time: 5/13/2011 3:36:04 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: 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 = 0.445 A/m
Probe Modulation Factor = 2.870
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.078 A/m; Power Drift = 0.0049 dB
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

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Peak H-field in A/m

Grid 1 0.445 M4	Grid 2 0.313 M4	Grid 3 0.201 M4
Grid 4 0.399 M4	Grid 5 0.279 M4	Grid 6 0.176 M4
Grid 7 0.384 M4	Grid 8 0.261 M4	Grid 9 0.153 M4

Cursor:

Total = 0.445 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 = 0.544 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.102 A/m; Power Drift = 0.16 dB

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

Peak H-field in A/m

Grid 1 0.544 M3	Grid 2 0.389 M4	Grid 3 0.259 M4
Grid 4 0.487 M3	Grid 5 0.354 M4	Grid 6 0.231 M4
Grid 7 0.486 M3	Grid 8 0.340 M4	Grid 9 0.199 M4

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Cursor:

Total = 0.544 A/m
H Category: M3
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 = 0.638 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.122 A/m; Power Drift = -0.11 dB

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

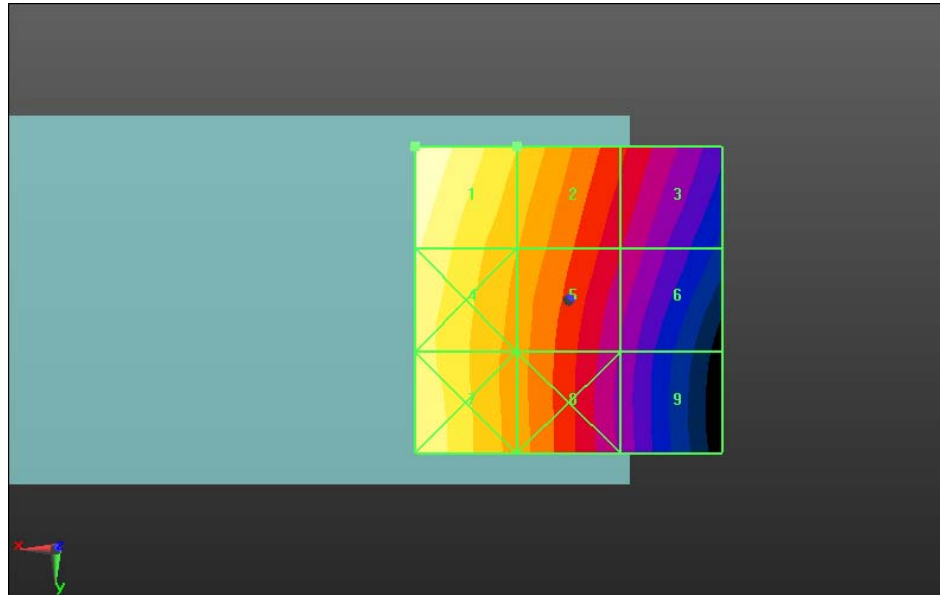
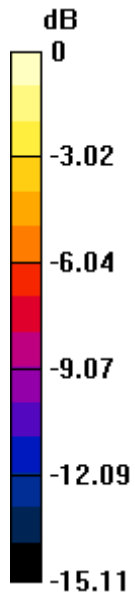
Peak H-field in A/m

Grid 1 0.638 M3	Grid 2 0.463 M3	Grid 3 0.300 M4
Grid 4 0.586 M3	Grid 5 0.430 M4	Grid 6 0.277 M4
Grid 7 0.602 M3	Grid 8 0.437 M4	Grid 9 0.274 M4

Cursor:

Total = 0.638 A/m
H Category: M3
Location: 25, -25, 8.7 mm

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0 dB = 0.440A/m

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Date/Time: 5/13/2011 3:48:16 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM850_telecoil

DUT: BlackBerry Smartphone; Type: Sample

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

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: 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 = 0.577 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.125 A/m; Power Drift = 0.00019 dB

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

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Peak H-field in A/m

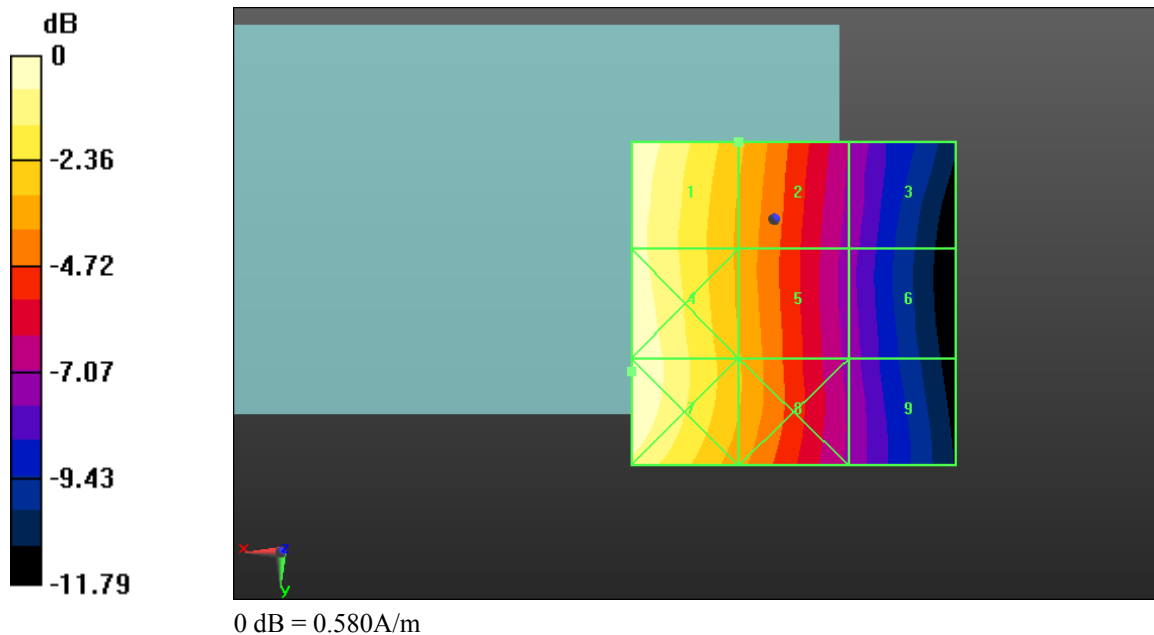
Grid 1 0.577 M3	Grid 2 0.414 M4	Grid 3 0.260 M4
Grid 4 0.576 M3	Grid 5 0.408 M4	Grid 6 0.249 M4
Grid 7 0.577 M3	Grid 8 0.409 M4	Grid 9 0.255 M4

Cursor:

Total = 0.577 A/m

H Category: M3

Location: 22, 23.5, 8.7 mm



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Date/Time: 5/16/2011 10:37:36 AM, Date/Time: 5/16/2011 10:42:27 AM, Date/Time: 5/16/2011 10:47:43 AM

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: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- 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 = 0.227 A/m
Probe Modulation Factor = 2.870
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.084 A/m; Power Drift = -0.42 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

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Peak H-field in A/m

Grid 1 0.339 M2	Grid 2 0.259 M2	Grid 3 0.223 M3
Grid 4 0.216 M3	Grid 5 0.227 M3	Grid 6 0.223 M3
Grid 7 0.176 M3	Grid 8 0.192 M3	Grid 9 0.192 M3

Cursor:

Total = 0.339 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 = 0.203 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.071 A/m; Power Drift = -0.07 dB

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

Peak H-field in A/m

Grid 1 0.285 M2	Grid 2 0.235 M3	Grid 3 0.193 M3
Grid 4 0.194 M3	Grid 5 0.203 M3	Grid 6 0.192 M3
Grid 7 0.141 M3	Grid 8 0.163 M3	Grid 9 0.162 M3

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Cursor:

Total = 0.285 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 2/Hearing Aid

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

Maximum value of peak Total field = 0.185 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.067 A/m; Power Drift = -0.20 dB

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

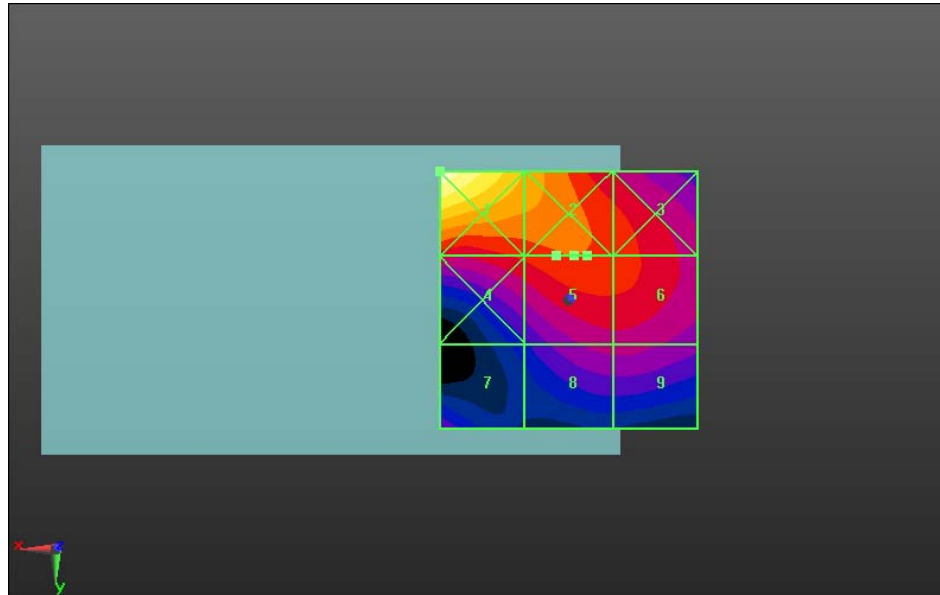
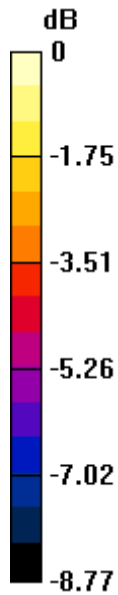
Peak H-field in A/m

Grid 1 0.261 M2	Grid 2 0.211 M3	Grid 3 0.170 M3
Grid 4 0.183 M3	Grid 5 0.185 M3	Grid 6 0.169 M3
Grid 7 0.136 M4	Grid 8 0.147 M3	Grid 9 0.145 M3

Cursor:

Total = 0.261 A/m
H Category: M2
Location: 25, -25, 8.7 mm

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0 dB = 0.340A/m

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Date/Time: 5/16/2011 10:54:01 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM1900_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 1900; Frequency: 1850.2 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 Sn472; Calibrated: 3/7/2011
- 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 = 0.212 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.082 A/m; Power Drift = -0.23 dB

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

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Peak H-field in A/m

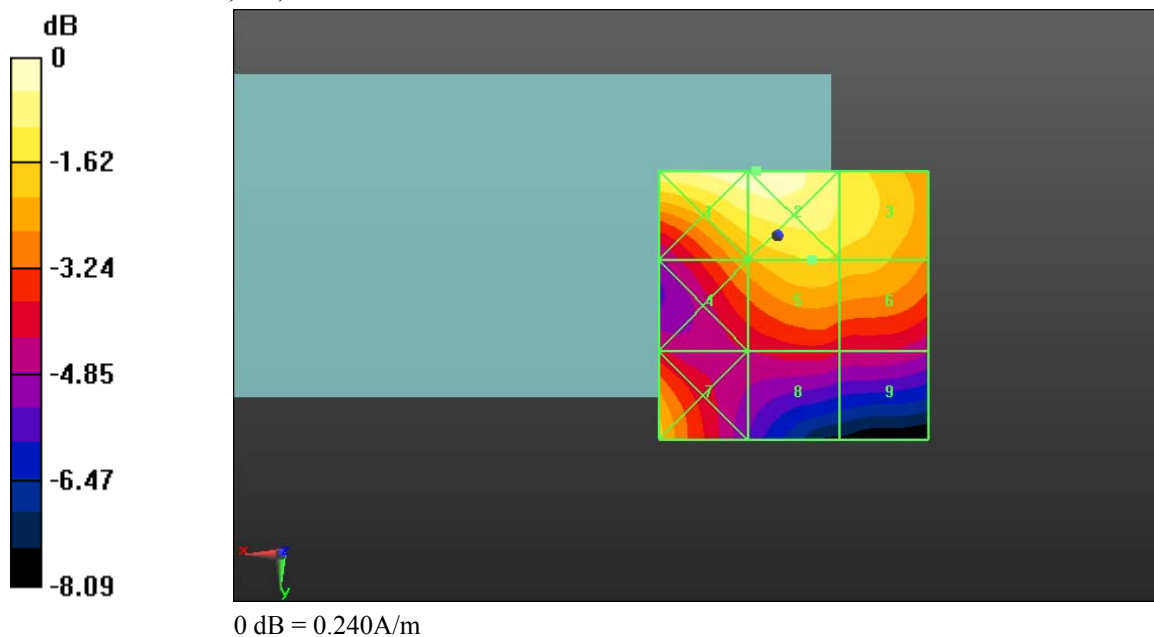
Grid 1 0.235 M3	Grid 2 0.235 M3	Grid 3 0.212 M3
Grid 4 0.184 M3	Grid 5 0.200 M3	Grid 6 0.196 M3
Grid 7 0.192 M3	Grid 8 0.152 M3	Grid 9 0.148 M3

Cursor:

Total = 0.235 A/m

H Category: M3

Location: 4, -12, 8.7 mm



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Date/Time: 5/16/2011 1:51:15 PM, Date/Time: 5/16/2011 1:56:35 PM, Date/Time: 5/16/2011 2:00:41 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, 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 Sn472; Calibrated: 3/7/2011
- 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 = 0.103 A/m
Probe Modulation Factor = 0.970
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.124 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 0.097 M4	Grid 2 0.103 M4	Grid 3 0.098 M4
Grid 4 0.096 M4	Grid 5 0.103 M4	Grid 6 0.098 M4
Grid 7 0.107 M4	Grid 8 0.089 M4	Grid 9 0.084 M4

Cursor:

Total = 0.107 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 = 0.099 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.118 A/m; Power Drift = 0.04 dB

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

Peak H-field in A/m

Grid 1 0.093 M4	Grid 2 0.099 M4	Grid 3 0.096 M4
Grid 4 0.088 M4	Grid 5 0.099 M4	Grid 6 0.096 M4
Grid 7 0.099 M4	Grid 8 0.085 M4	Grid 9 0.082 M4

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Cursor:

Total = 0.099 A/m
H Category: M4
Location: -2.5, -7.5, 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 = 0.083 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.095 A/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. 05, May 13-16, 2011	Report No RTS-2579-1107-18	FCC ID L6ARDD70UW

Peak H-field in A/m

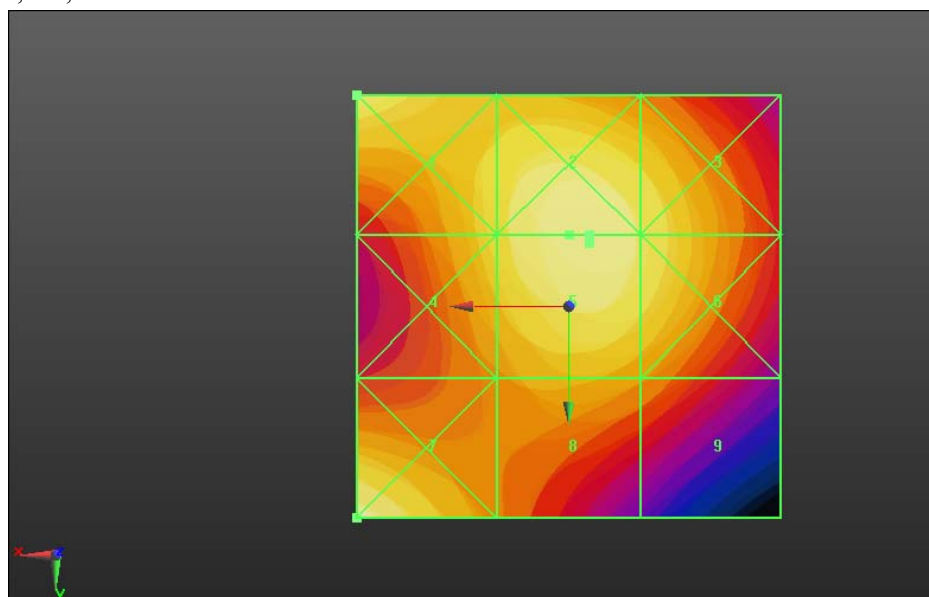
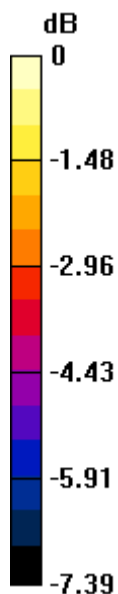
Grid 1 0.095 M4	Grid 2 0.083 M4	Grid 3 0.081 M4
Grid 4 0.075 M4	Grid 5 0.083 M4	Grid 6 0.081 M4
Grid 7 0.080 M4	Grid 8 0.071 M4	Grid 9 0.070 M4

Cursor:

Total = 0.095 A/m

H Category: M4

Location: 25, -25, 8.7 mm



0 dB = 0.110A/m

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Date/Time: 5/16/2011 2:05:45 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; 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 Sn472; Calibrated: 3/7/2011
- 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 = 0.099 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.119 A/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. 05, May 13-16, 2011	Report No RTS-2579-1107-18	FCC ID L6ARDD70UW

Peak H-field in A/m

Grid 1 0.096 M4	Grid 2 0.099 M4	Grid 3 0.090 M4
Grid 4 0.093 M4	Grid 5 0.090 M4	Grid 6 0.081 M4
Grid 7 0.103 M4	Grid 8 0.077 M4	Grid 9 0.059 M4

Cursor:

Total = 0.103 A/m

H Category: M4

Location: 22, 33.5, 8.7 mm

