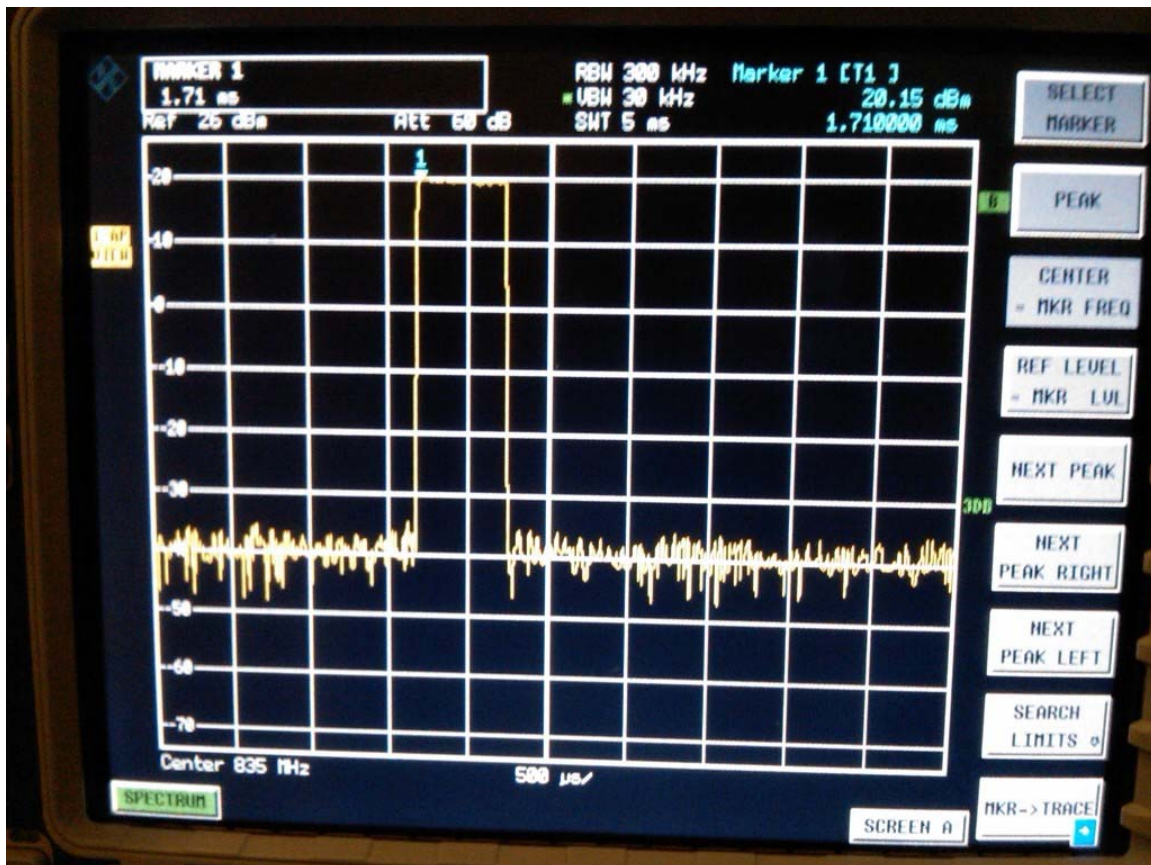


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Author Data Daoud Attayi	Dates of Test Mar. 22-23, June 21-22, 2011	Report No RTS-2604-1107-07	FCC ID L6ARDR60CW

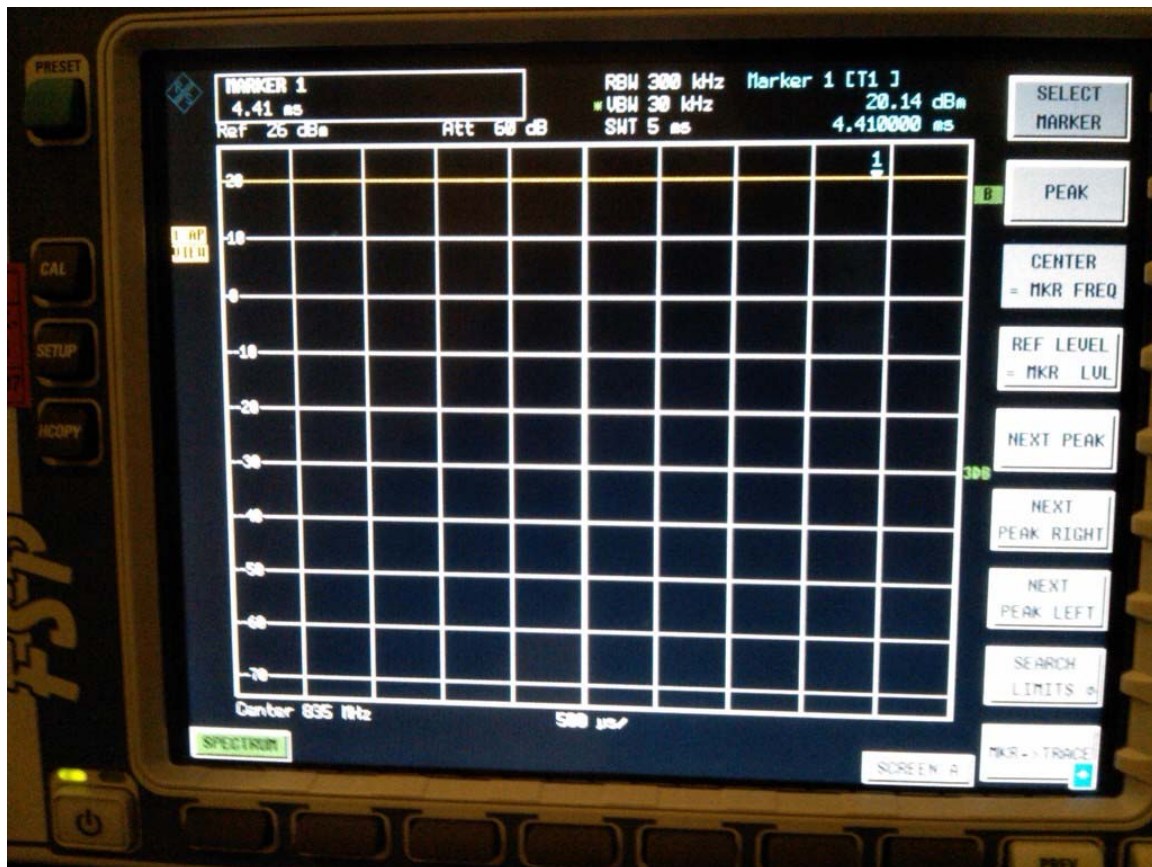
Annex A: Measurement data and plots

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



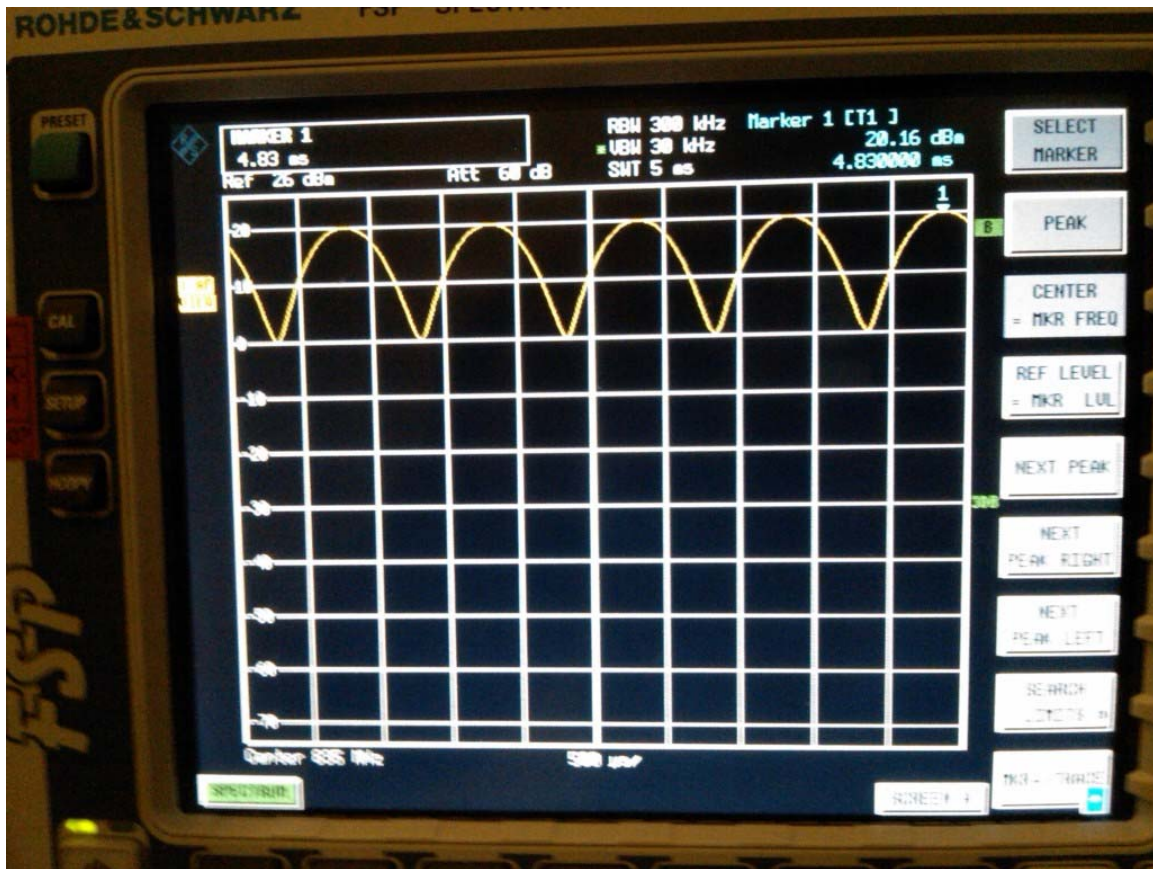
GSM 835 MHz

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CW 835 MHz

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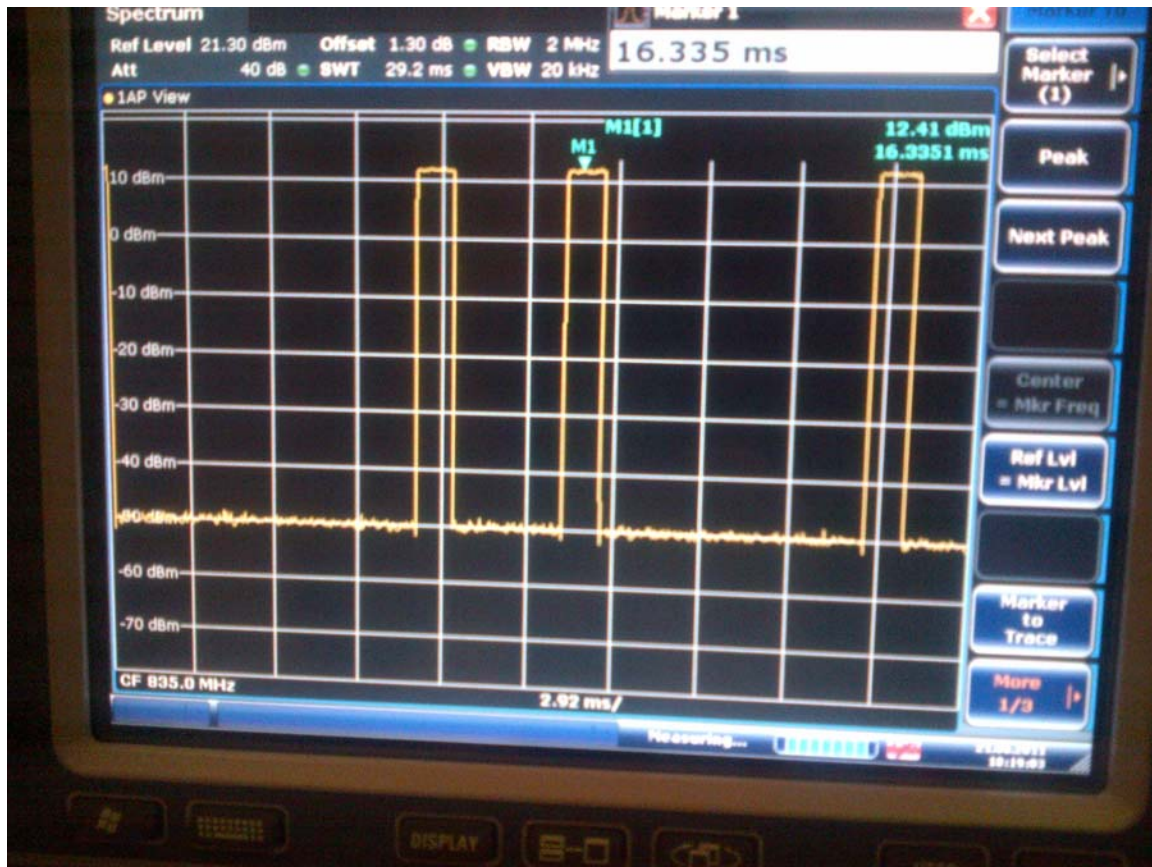


AM 80% 835 MHz

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CDMA 835 MHz

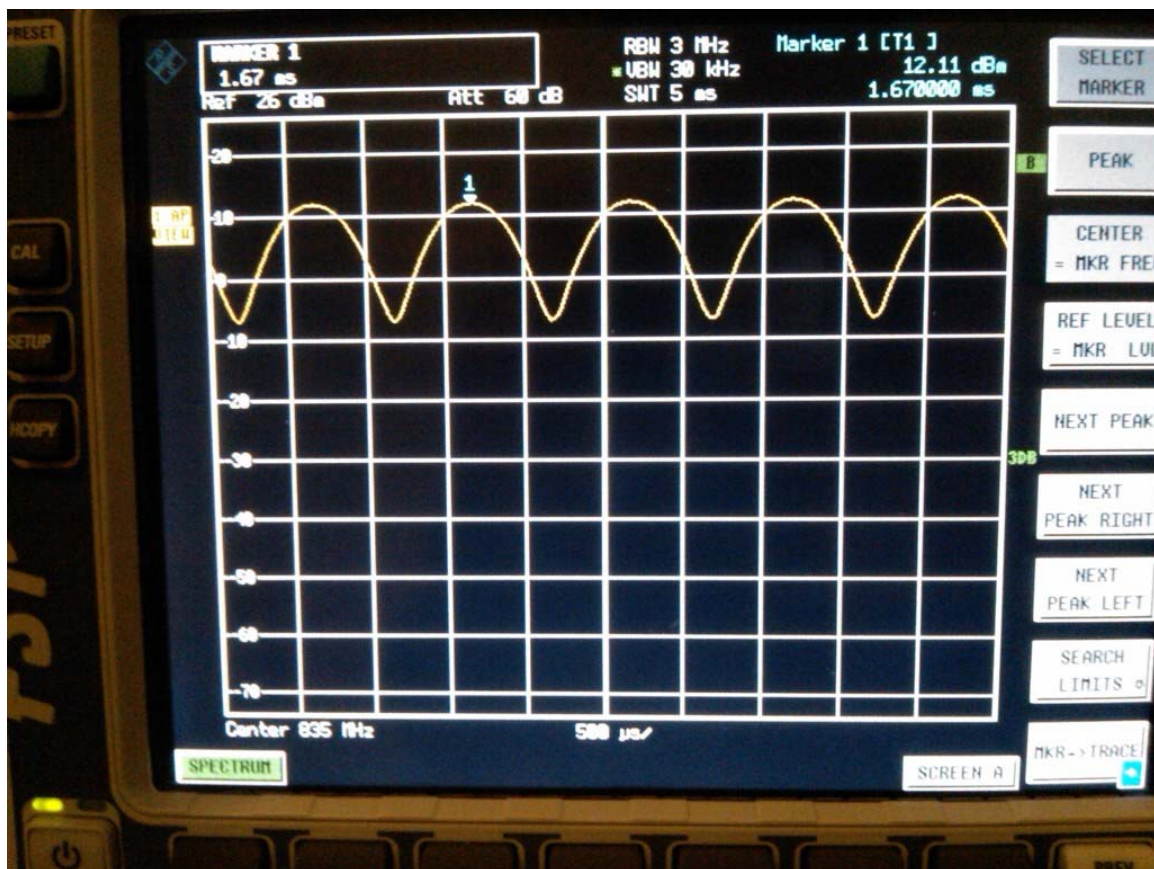
**CDMA 835 MHz 1/8th**

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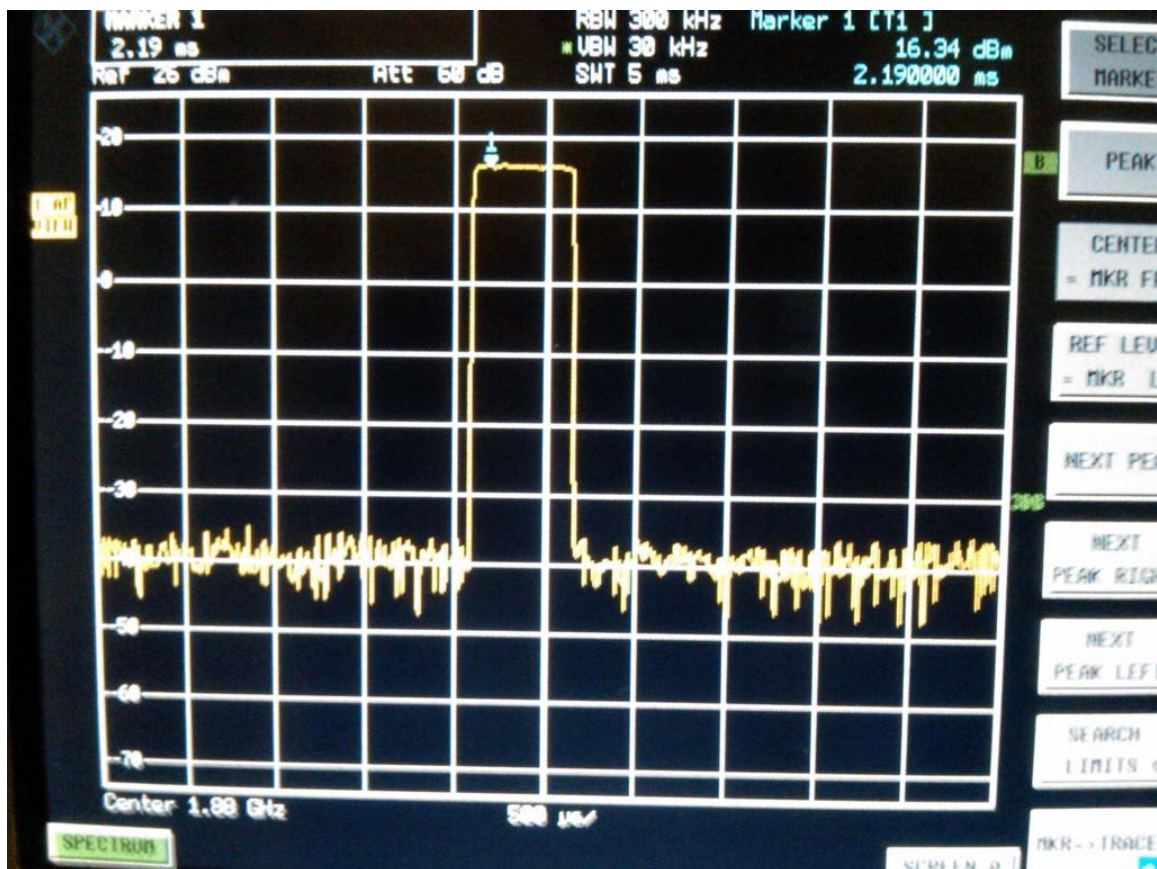
CW 835 MHz

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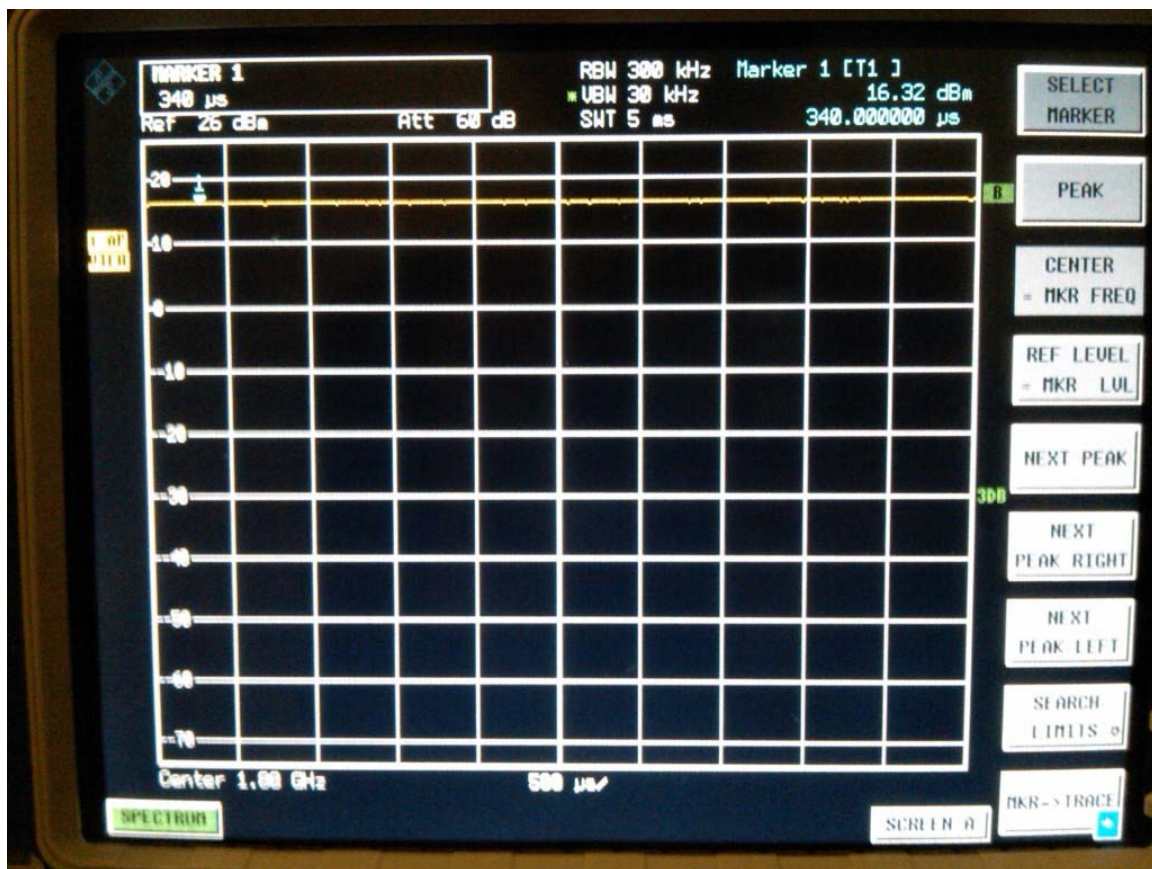
AM 80% 835 MHz

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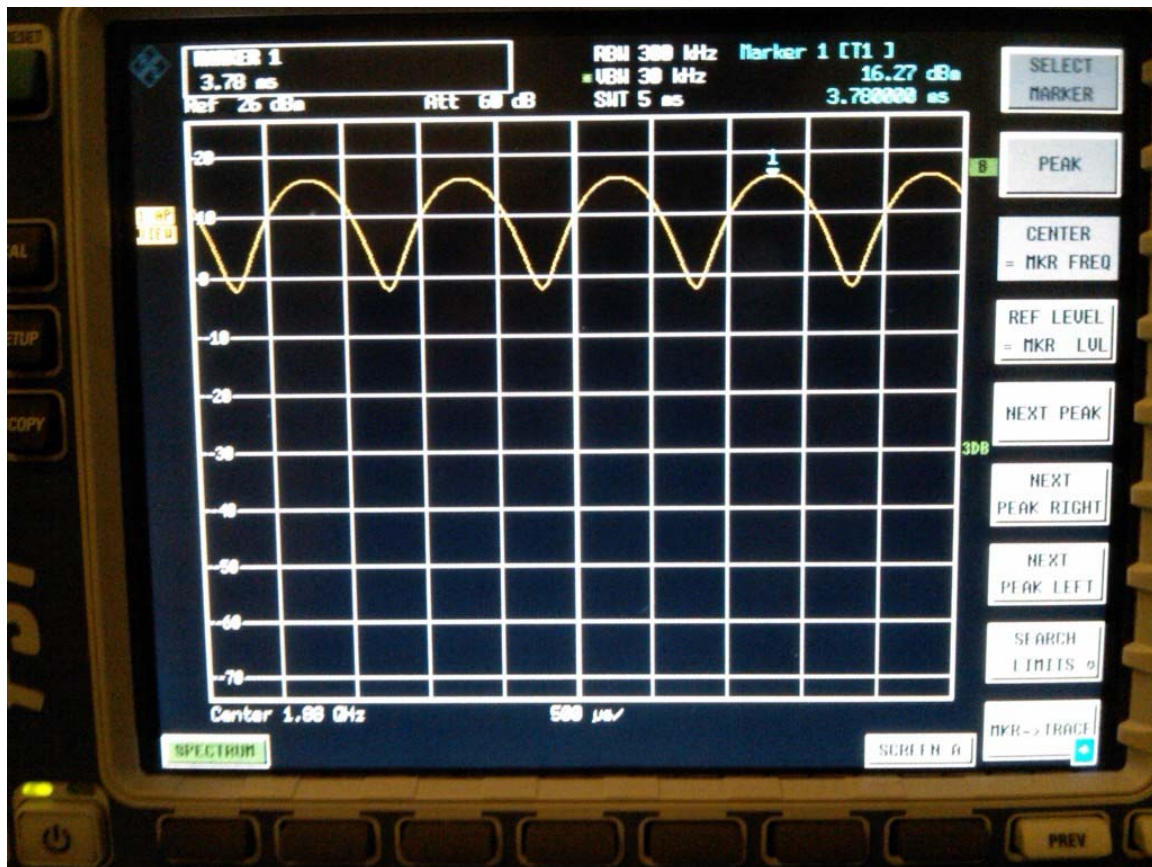
GSM 1880 MHz

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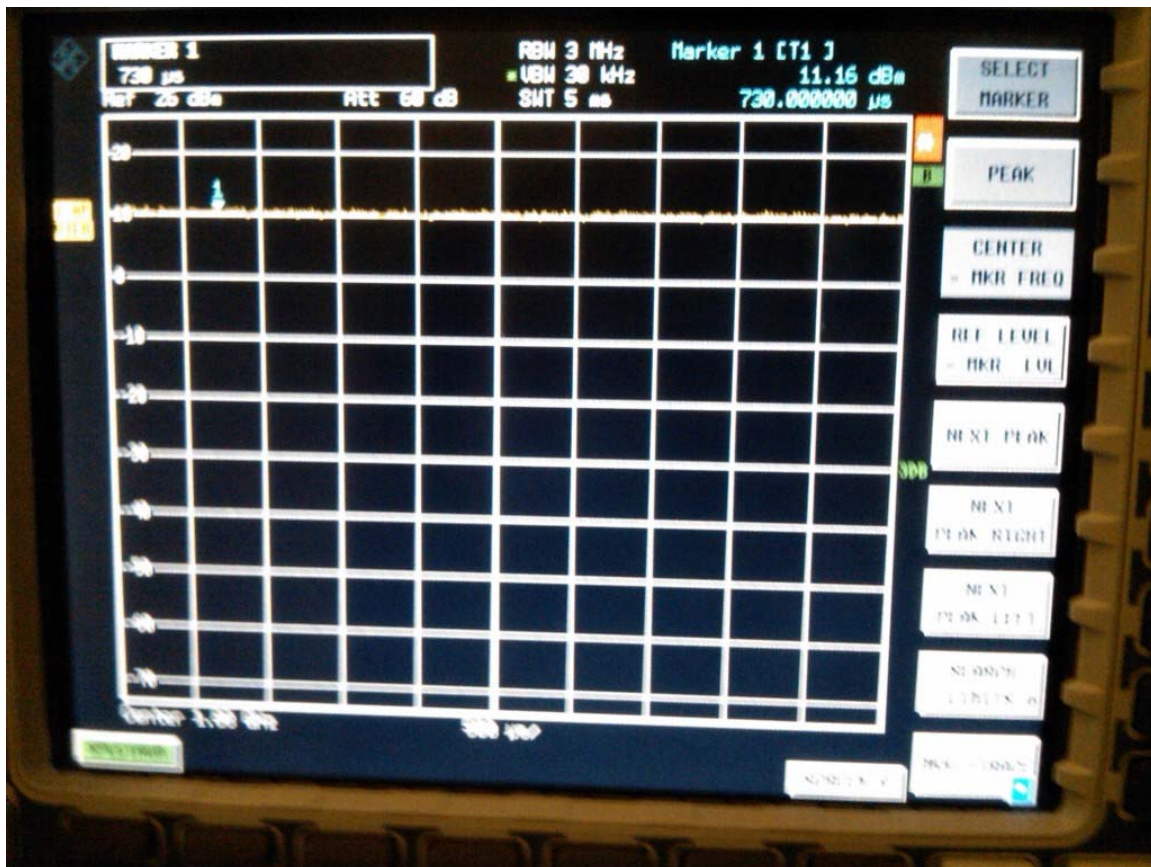
CW 1880 MHz

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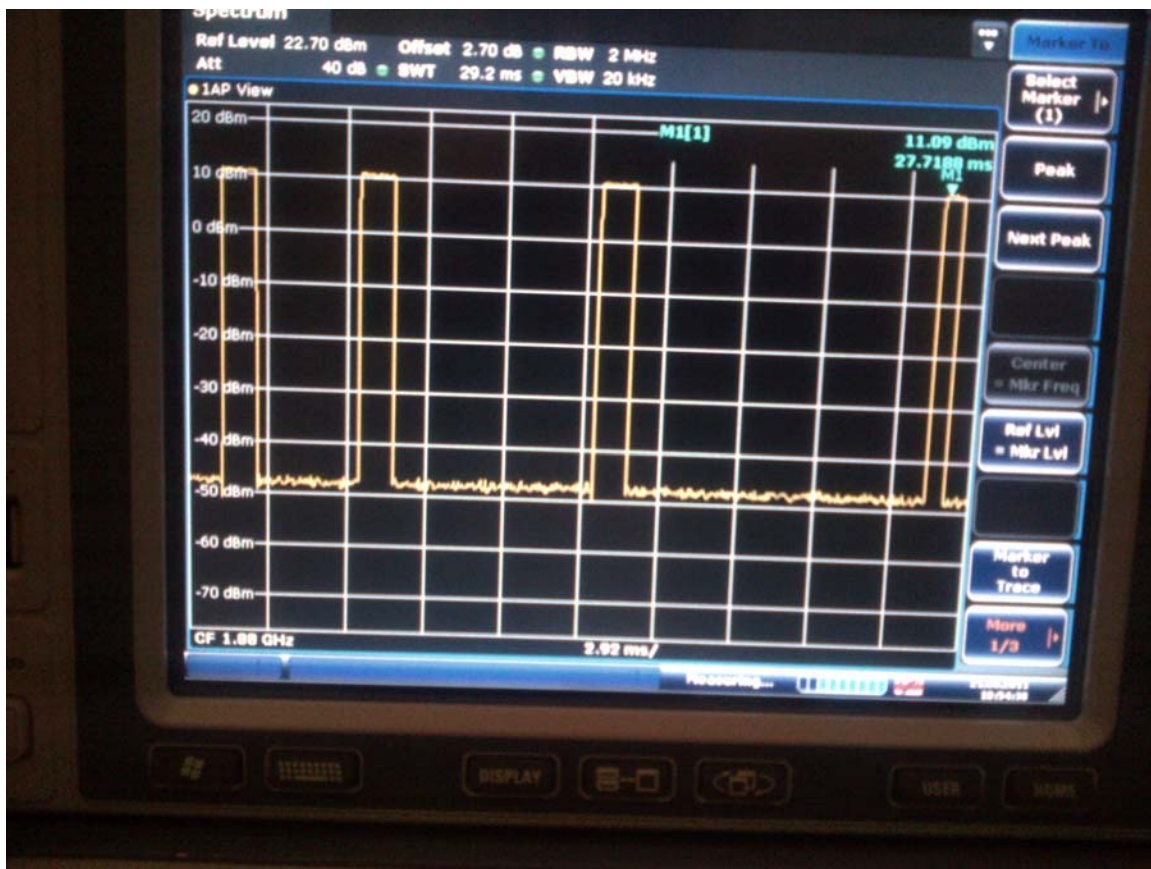
AM 80 % 1880 MHz

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CDMA 1880 MHz

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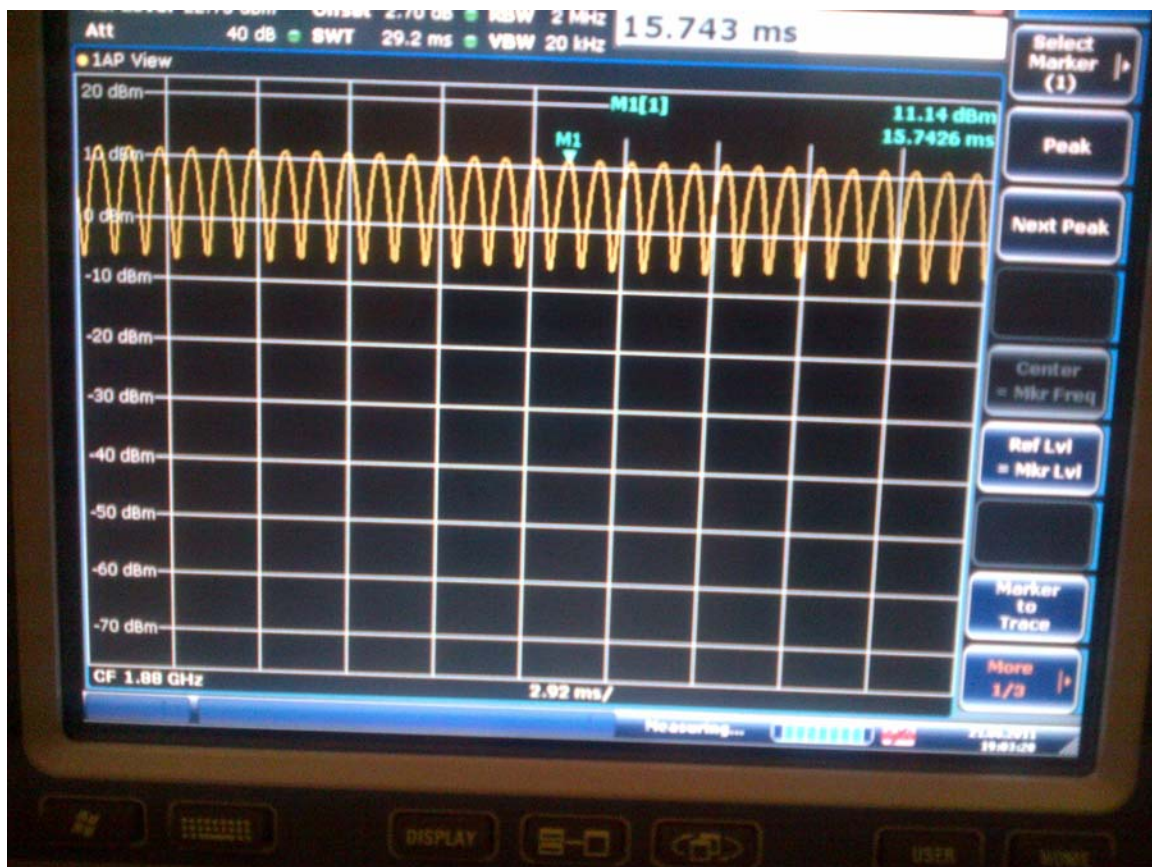
CDMA 1880 MHz 1/8 th

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CW 1880 MHz

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AM 80 % 1880 MHz

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A.2 Dipole validation and probe modulation factor plots

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Date/Time: 6/21/2011 5:10:27 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_PMF_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 32EFD945

Communication System: CW, Communication System: CDMA 850,
Communication System: CDMA 800; Communication System Band: D835 (835.0 MHz), Communication System Band: CDMA 2000 Cellular, Communication System Band: CDMA 2000 BC 10 ; Frequency: 835 MHz, Frequency: 820.5 MHz; Communication System PAR: 0, Communication System PAR: 9.19 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 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)

Dipole E-Field measurement/E Scan _CW_20dB_Validation - 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 = 157.1 V/m

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Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 120.5 V/m; Power Drift = 0.01 dB

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

Peak E-field in V/m

Grid 1 150.7 M4	Grid 2 157.1 M4	Grid 3 154.2 M4
Grid 4 84.223 M4	Grid 5 87.459 M4	Grid 6 85.298 M4
Grid 7 151.8 M4	Grid 8 155.1 M4	Grid 9 152.4 M4

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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; Serial: 32EFD945

Communication System: GSM 850; Communication System Band: Exported from older format (data unavailable - please correct).; 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: DASYS2, 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

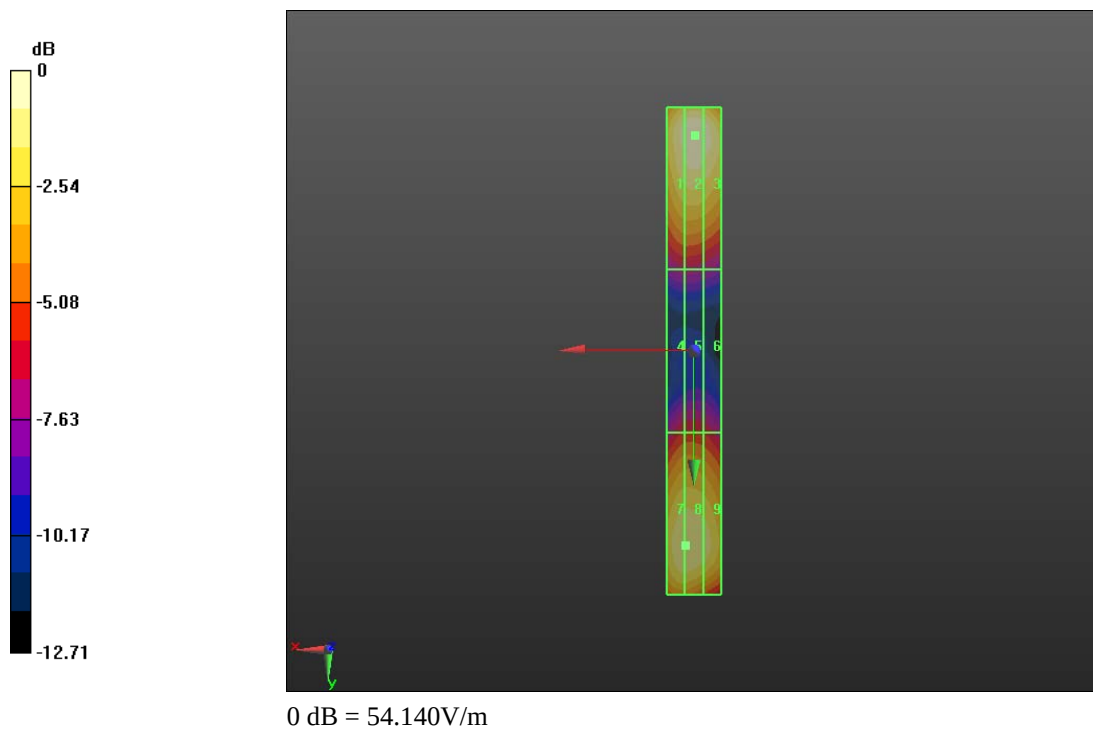
Reference Value = 38.642 V/m; Power Drift = -0.06 dB

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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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; Serial: 32EFD945

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 = 159.3 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

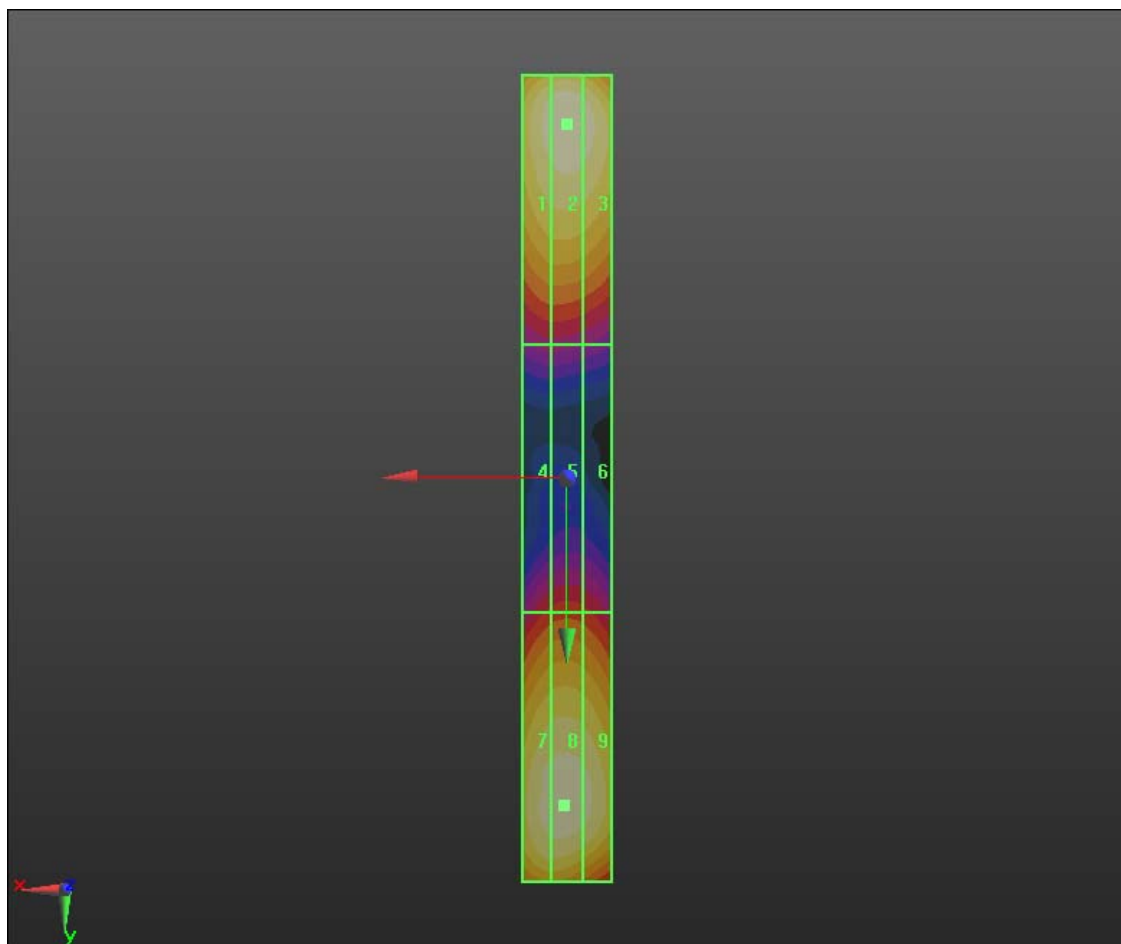
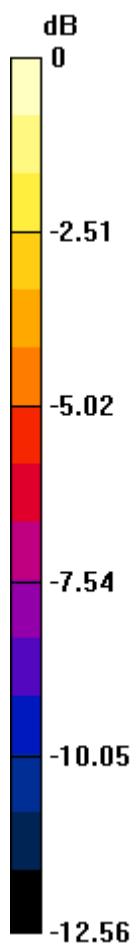
Reference Value = 120.6 V/m; Power Drift = -0.10 dB

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

Peak E-field in V/m

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Grid 1 153.1 M 4	Grid 2 159.3 M 4	Grid 3 154.5 M 4
Grid 4 84.666 M4	Grid 5 86.943 M4	Grid 6 84.863 M4
Grid 7 153.2 M 4	Grid 8 154.9 M 4	Grid 9 151.1 M 4



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; Serial: 32EFD945

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

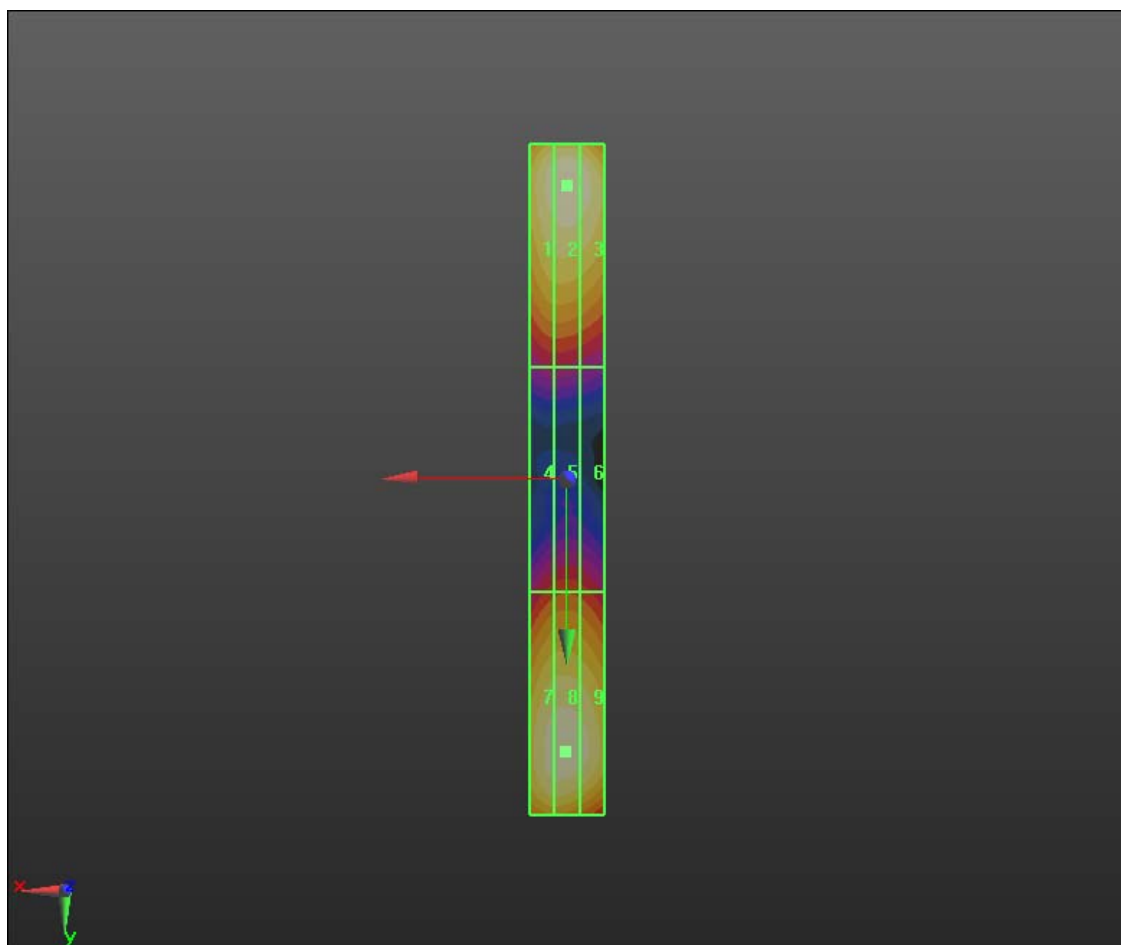
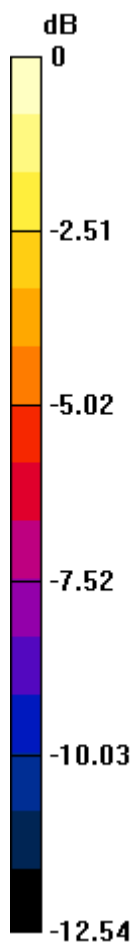
Reference Value = 74.981 V/m; Power Drift = -0.17 dB

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

Peak E-field in V/m

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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



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; Serial: 32EFD945

Communication System: CDMA 800; Communication System Band: Exported from older format (data unavailable - please correct).; 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 = 63.653 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

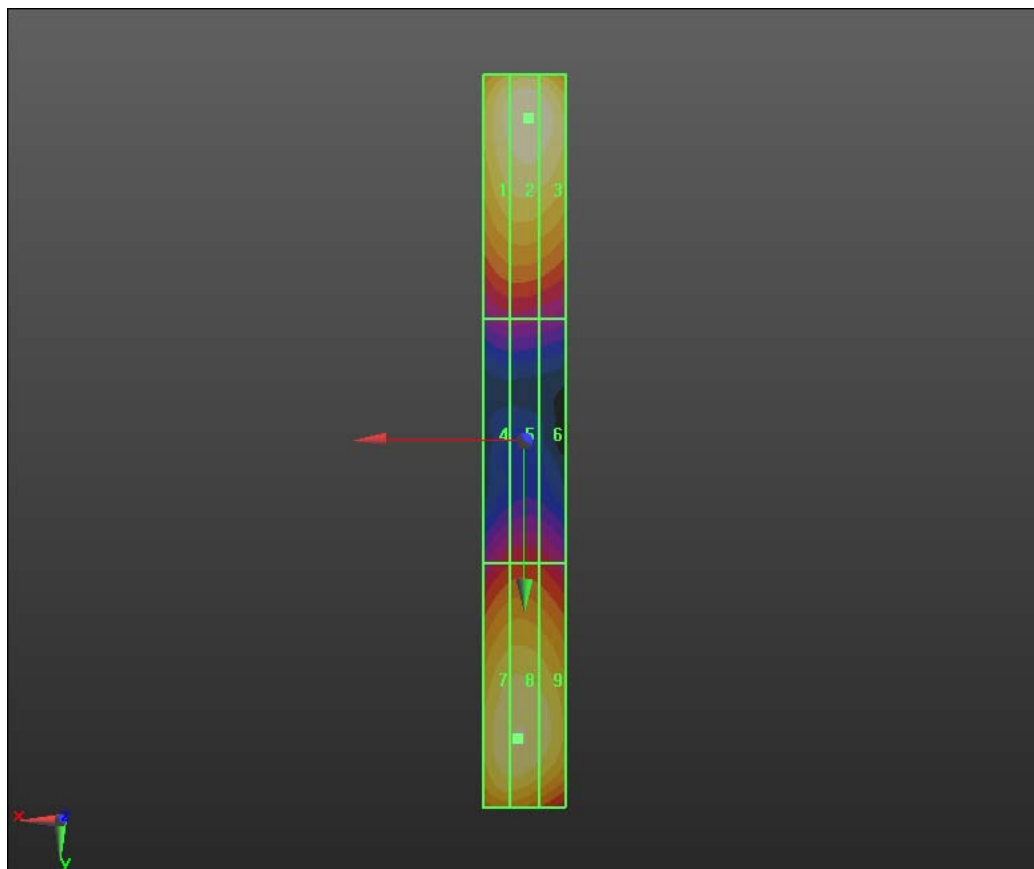
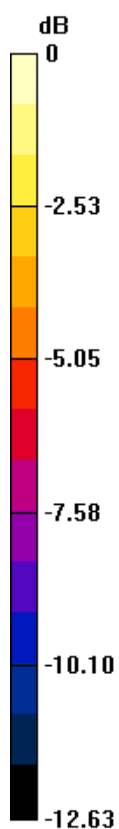
Reference Value = 45.492 V/m; Power Drift = 0.04 dB

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



0 dB = 63.650V/m

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Date/Time: 6/21/2011 5:10:27 PM

Dipole E-Field measurement/E Scan _CW_CDMA835_PMF - measurement distance from the probe sensor center to CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 60.020 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 45.311 V/m; Power Drift = -0.13 dB

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

Peak E-field in V/m

Grid 1 58.156 M4	Grid 2 60.020 M4	Grid 3 58.370 M4
Grid 4 31.911 M4	Grid 5 32.721 M4	Grid 6 32.052 M4
Grid 7 57.400 M4	Grid 8 58.565 M4	Grid 9 57.669 M4

Dipole E-Field measurement/E Scan _AM80%_CDMA835_PMF - measurement distance from the probe sensor center to CD835 Dipole = 10mm 2 2/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 37.844 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 28.705 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

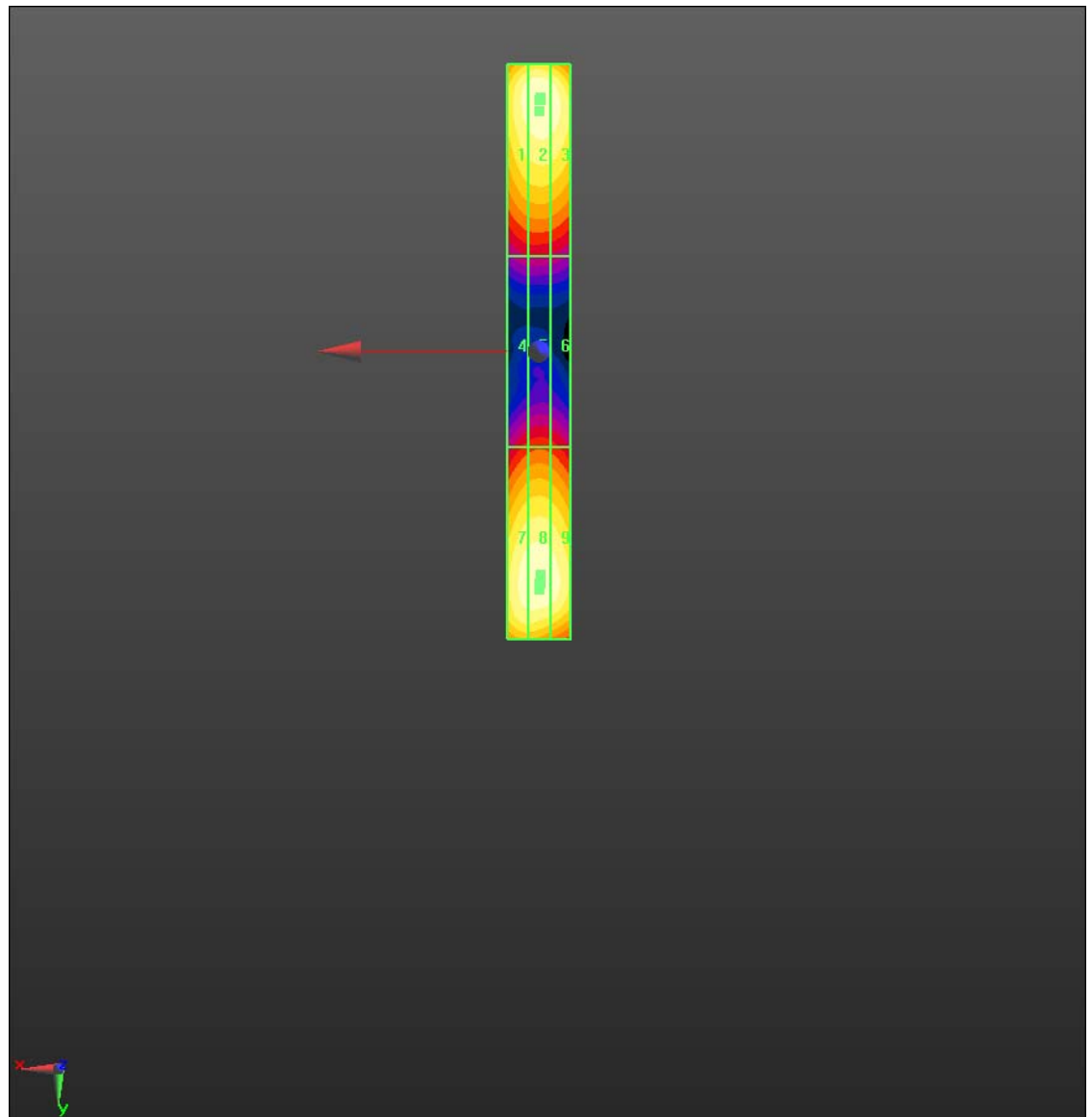
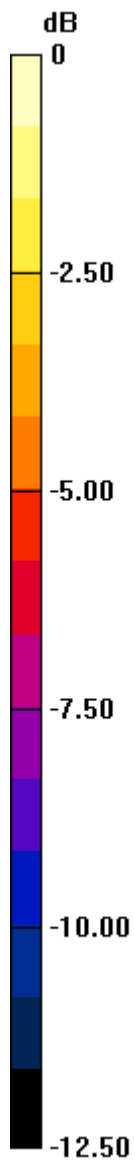
Grid 1 36.315 M4	Grid 2 37.844 M4	Grid 3 37.101 M4
Grid 4 20.380 M4	Grid 5 21.197 M4	Grid 6 20.358 M4
Grid 7 36.696 M4	Grid 8 37.645 M4	Grid 9 36.579 M4

Dipole E-Field measurement/E Scan _CDMA835_1_8th_PMF
- measurement distance from the probe sensor center to
CD835 Dipole = 10mm 2 2 2/Hearing Aid Compatibility Test
(41x361x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 23.083 V/m
Probe Modulation Factor = 1.000
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 16.053 V/m; Power Drift = 0.10 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 21.961 M4	Grid 2 22.888 M4	Grid 3 21.653 M4
Grid 4 11.102 M4	Grid 5 11.571 M4	Grid 6 11.296 M4
Grid 7 22.471 M4	Grid 8 23.083 M4	Grid 9 21.920 M4

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0 dB = 157.1V/m

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Date/Time: 6/21/2011 6:28:10 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_PMF_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 32EFD945

Communication System: CW, Communication System: CDMA 1900;

Communication System Band: D1900 (1900.0 MHz), Communication System

Band: CDMA 2000 PCS; Frequency: 1880 MHz; Communication System PAR: 0,

Communication System PAR: 9.19 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 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)

Dipole E-Field measurement/E Scan - 1880_validation_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 = 133.7 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Author Data Daoud Attayi	Dates of Test Mar. 22-23, June 21-22, 2011	Report No RTS-2604-1107-07	FCC ID L6ARDR60CW

Reference Value = 122.4 V/m; Power Drift = 0.04 dB

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

Peak E-field in V/m

Grid 1 128.8 M2	Grid 2 133.7 M2	Grid 3 127.5 M2
Grid 4 82.667 M3	Grid 5 87.106 M3	Grid 6 86.101 M3
Grid 7 120.7 M2	Grid 8 123.8 M2	Grid 9 121.9 M2

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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; Serial: 32EFD945

Communication System: GSM 1900; Communication System Band: Exported from older format (data unavailable - please correct).; 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: DASYS2, 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

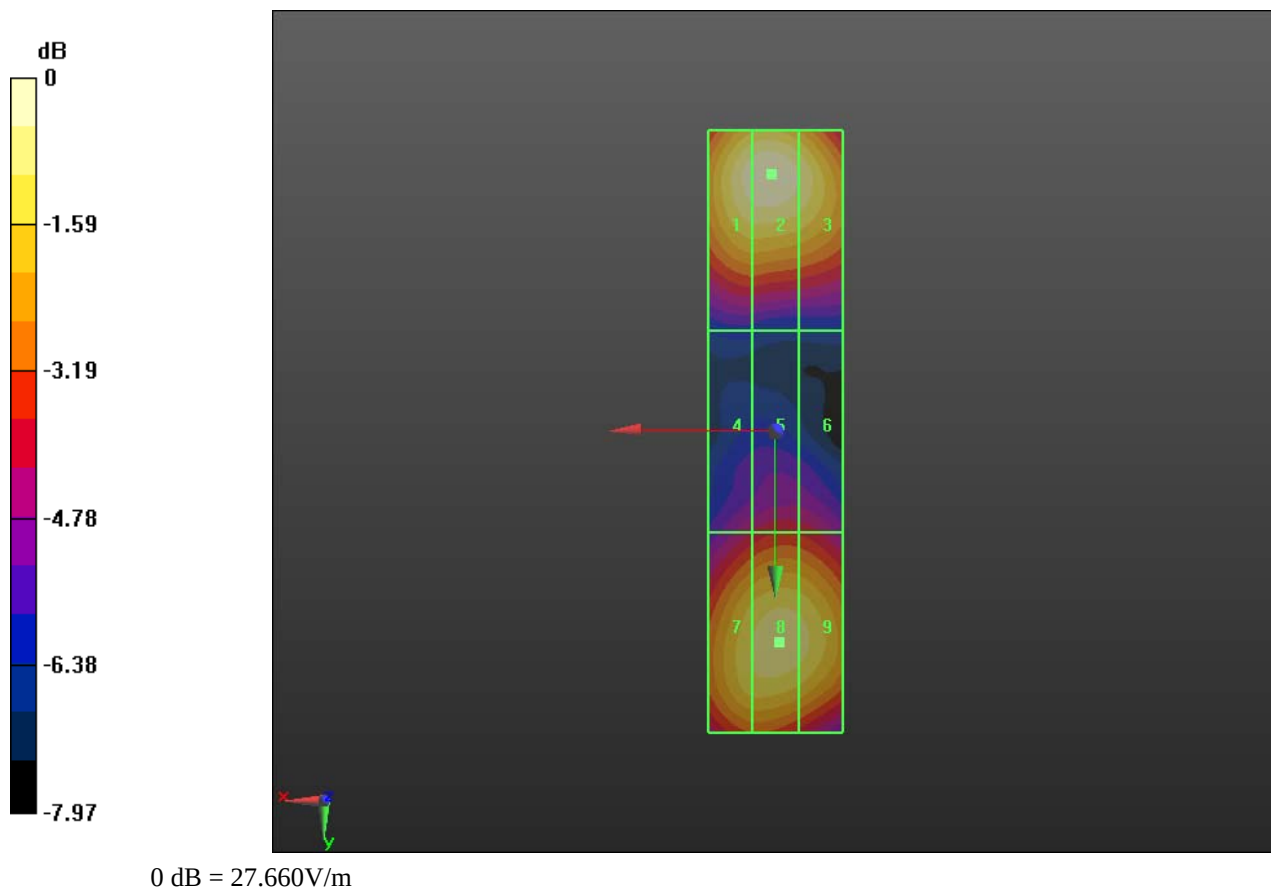
Reference Value = 25.374 V/m; Power Drift = 0.02 dB

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 24.636 M4	Grid 8 25.539 M4	Grid 9 25.116 M4



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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; Serial: 32EFD945

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

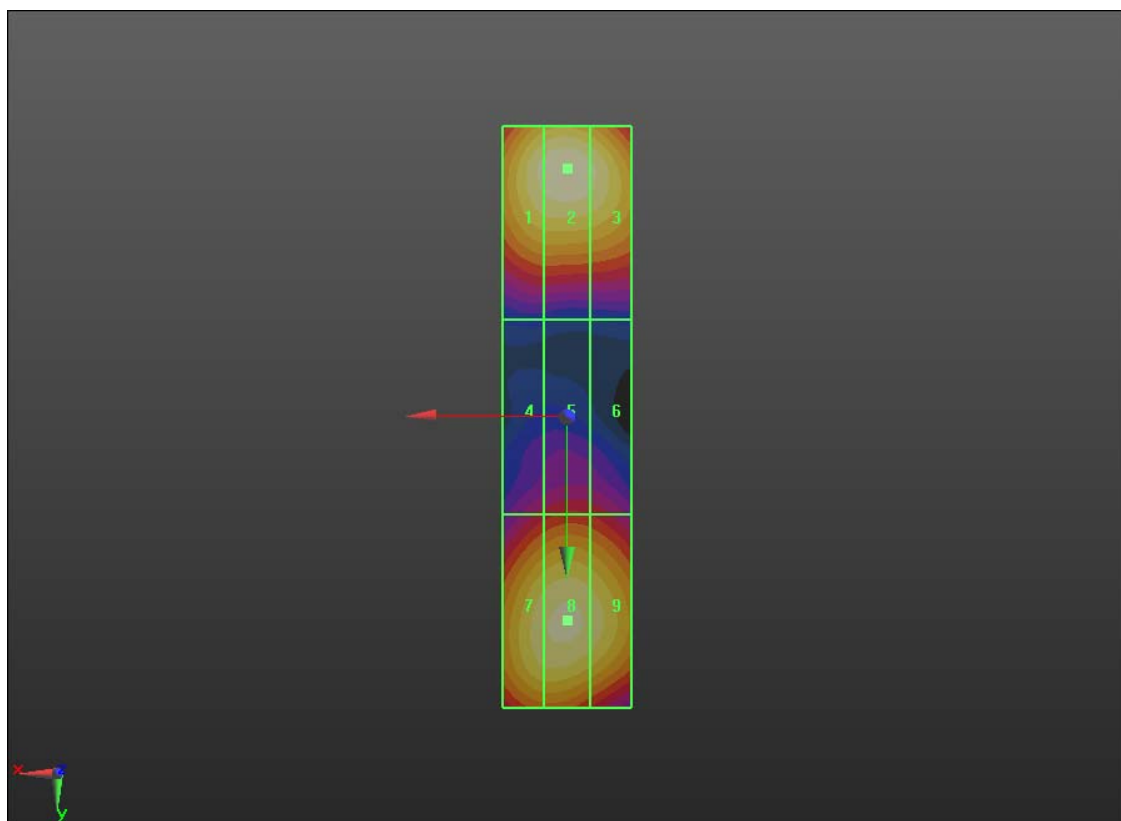
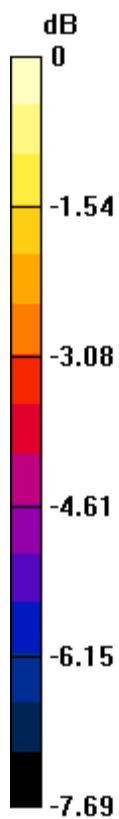
Reference Value = 78.932 V/m; Power Drift = 0.0039 dB

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



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; Serial: **32EFD945**

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

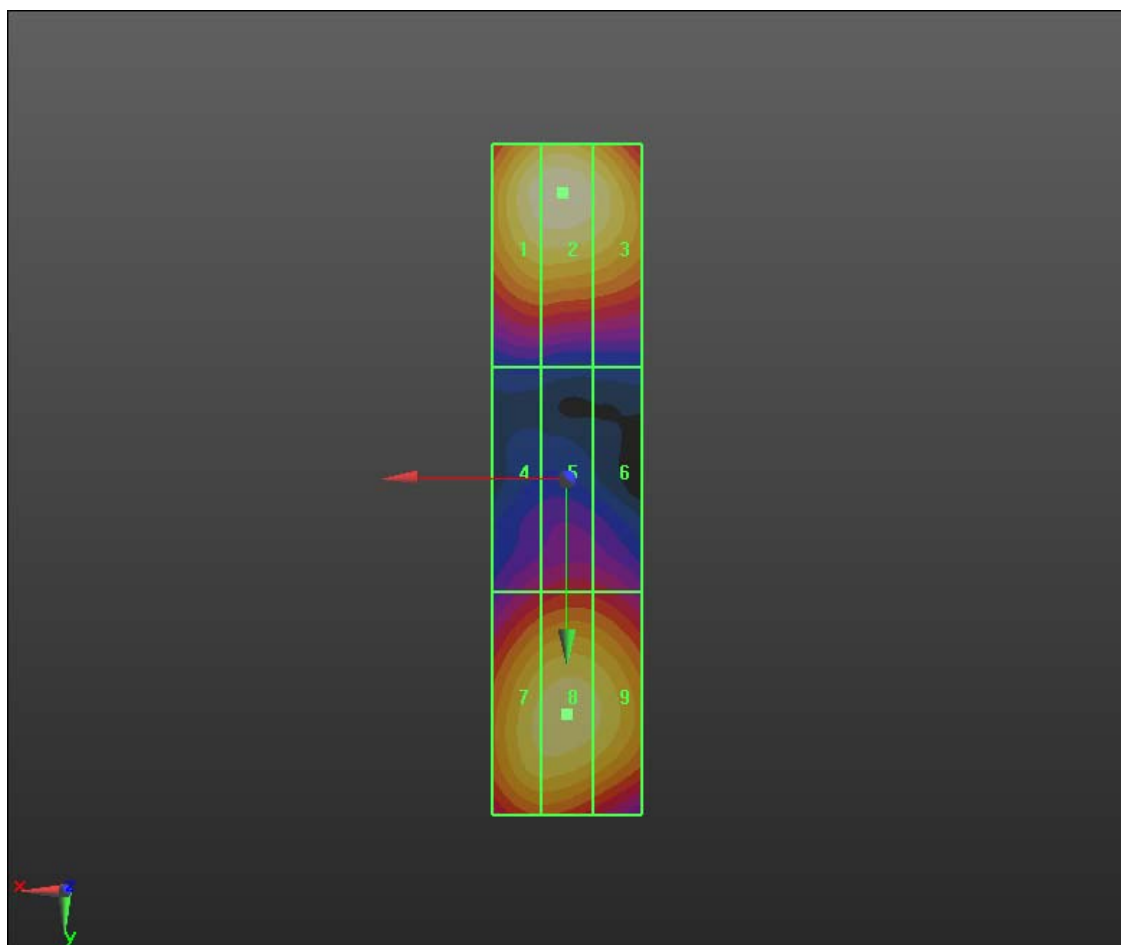
Reference Value = 49.939 V/m; Power Drift = -0.09 dB

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

Peak E-field in V/m

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Grid 1 52.377 M4	Grid 2 53.337 M4	Grid 3 50.671 M4
Grid 4 33.462 M4	Grid 5 35.058 M4	Grid 6 34.643 M4
Grid 7 48.429 M4	Grid 8 49.374 M4	Grid 9 48.243 M4



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; Serial: **32EFD945**

Communication System: WCDMA FDD II; Communication System Band:

Exported from older format (data unavailable - please correct).; 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 = 43.150 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

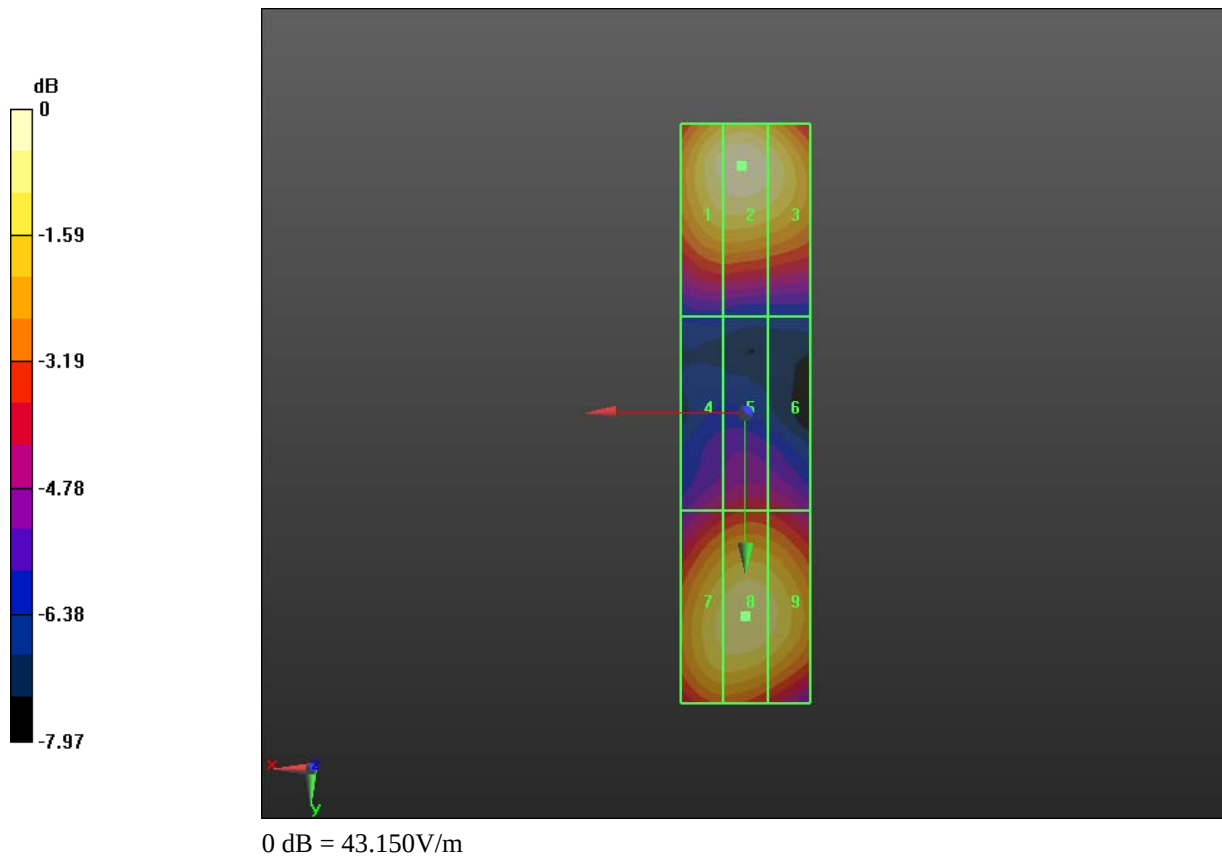
Reference Value = 40.108 V/m; Power Drift = -0.01 dB

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



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Date/Time: 6/21/2011 6:28:10 PM

Test Laboratory: RIM Testing Services

Dipole E-Field measurement/E Scan -

CW_CDMA1900_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 = 36.285 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 33.617 V/m; Power Drift = 0.04 dB

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

Peak E-field in V/m

Grid 1 34.758 M4	Grid 2 36.285 M4	Grid 3 34.848 M4
Grid 4 22.360 M4	Grid 5 23.679 M4	Grid 6 23.521 M4
Grid 7 32.897 M4	Grid 8 33.681 M4	Grid 9 33.221 M4

Dipole E-Field measurement/E Scan - AM80%_CDMA1900_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 = 23.269 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 21.624 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 22.379 M4	Grid 2 23.269 M4	Grid 3 22.386 M4
Grid 4 14.427 M4	Grid 5 15.311 M4	Grid 6 15.198 M4
Grid 7 21.091 M4	Grid 8 21.728 M4	Grid 9 21.374 M4

Dipole E-Field measurement/E Scan - CDMA1900_1_8th_measurement
distance from the probe sensor center to CD1880 Dipole = 10mm 2 2
2/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm,
dy=5mm

Maximum value of peak Total field = 14.129 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

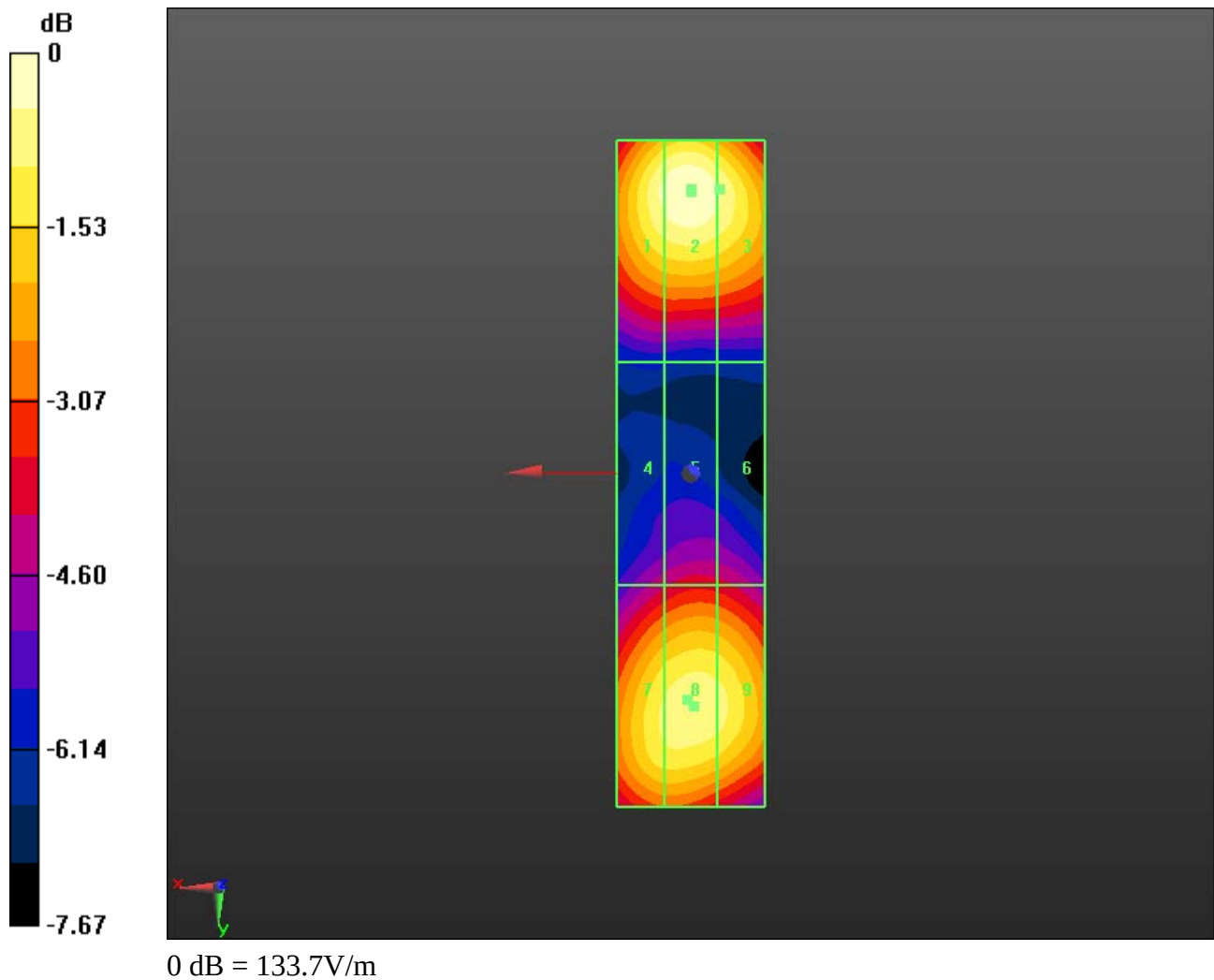
Reference Value = 13.323 V/m; Power Drift = -0.93 dB

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

Peak E-field in V/m

Grid 1 12.459 M4	Grid 2 14.120 M4	Grid 3 14.129 M4
Grid 4 8.084 M4	Grid 5 8.555 M4	Grid 6 8.489 M4
Grid 7 13.250 M4	Grid 8 13.548 M4	Grid 9 12.104 M4

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Date/Time: 6/21/2011 8:22:00 PM,

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_PMF_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 32EFD945

Communication System: CW, Communication System: CDMA 800,
Communication System: CDMA 850; Communication System Band: D835 (835.0 MHz), Communication System Band: CDMA 2000 BC 10 , Communication System Band: CDMA 2000 Cellular; Frequency: 835 MHz, Frequency: 820.5 MHz, Frequency: 836.52 MHz; Communication System PAR: 0, Communication System PAR: 9.19 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)

Dipole H-Field measurement with H3DV6 probe/H 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 = 0.479 A/m

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Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.509 A/m; Power Drift = -0.07 dB

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

Peak H-field in A/m

Grid 1 0.393 M4	Grid 2 0.406 M4	Grid 3 0.381 M4
Grid 4 0.459 M4	Grid 5 0.479 M4	Grid 6 0.450 M4
Grid 7 0.419 M4	Grid 8 0.435 M4	Grid 9 0.399 M4

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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; Serial: 32EFD945

Communication System: GSM 850; Communication System Band: Exported from older format (data unavailable - please correct).; 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
 - o Modulation Compensation: **Not calibrated**
- 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 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

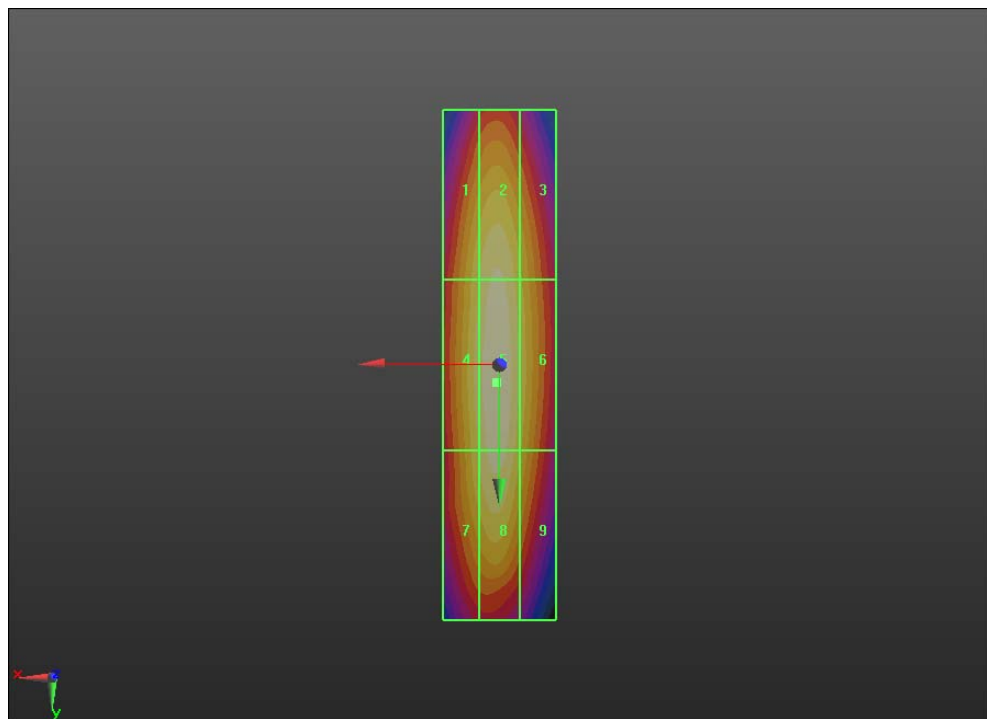
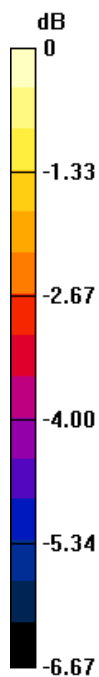
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW		Page 45 (111)
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Reference Value = 0.173 A/m; Power Drift = 0.43 dB

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

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



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; Serial: **32EFD945**

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: 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 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

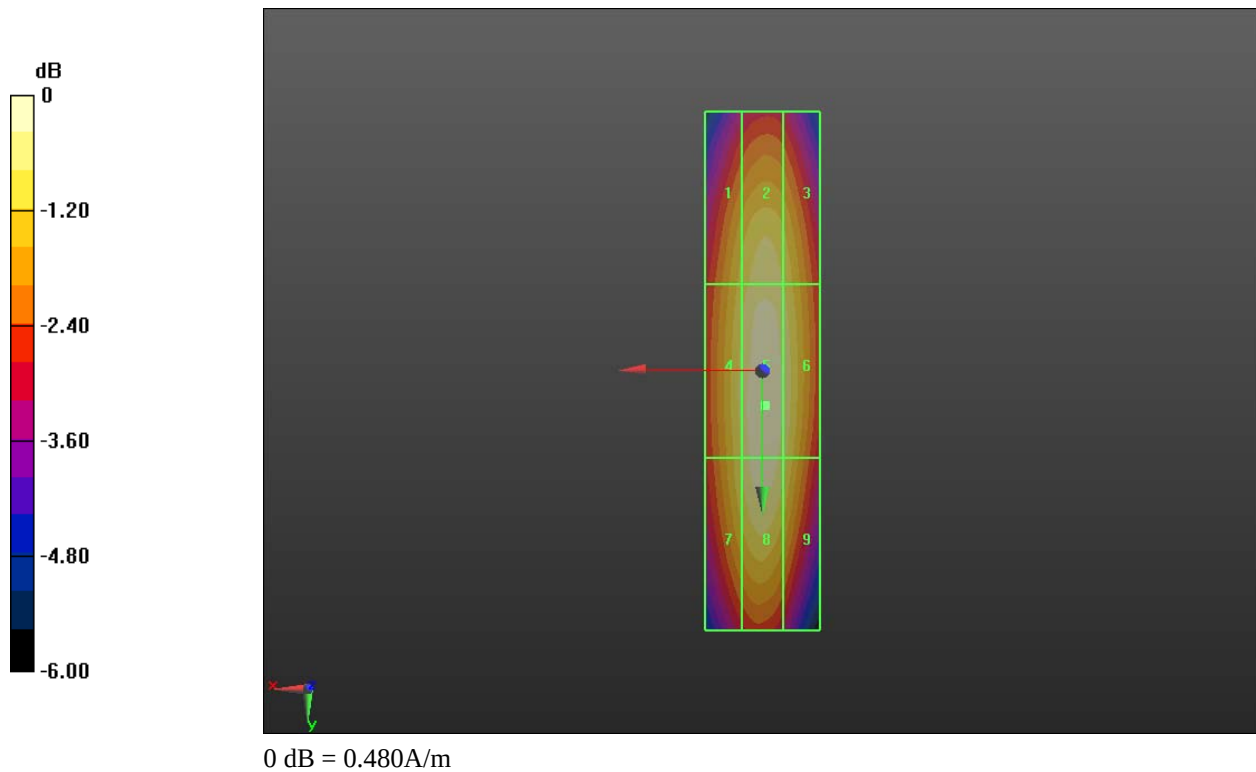
Reference Value = 0.503 A/m; Power Drift = -0.00099 dB

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



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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; Serial: **32EFD945**

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

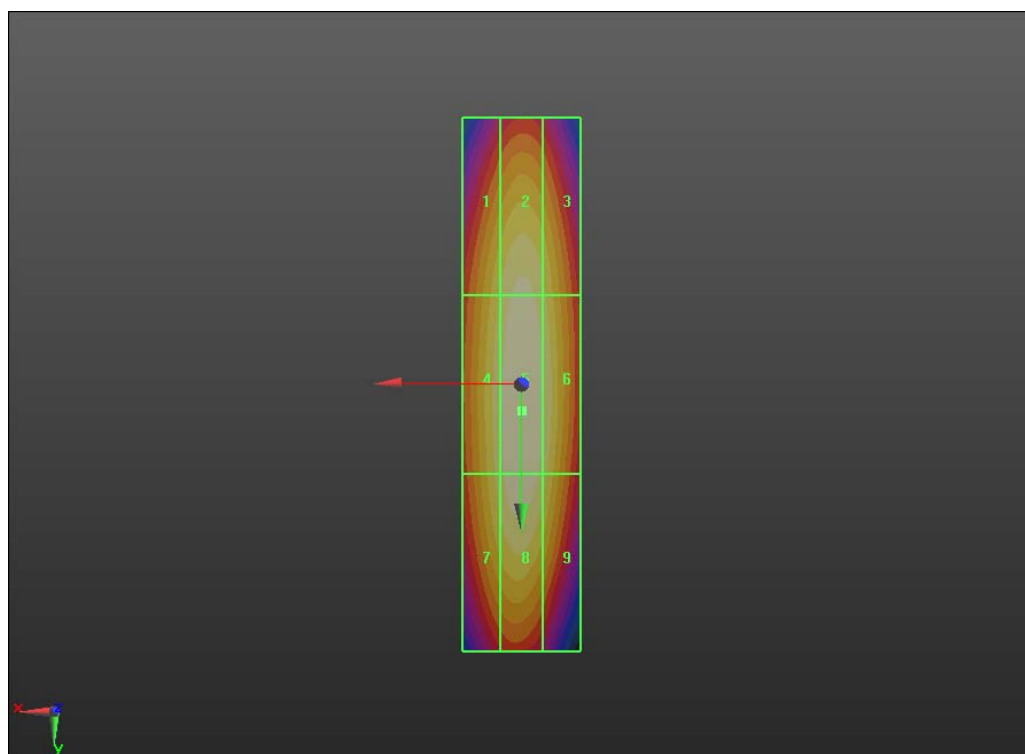
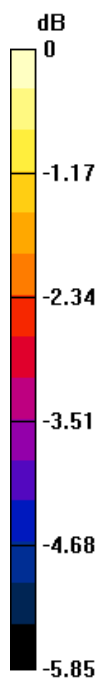
Reference Value = 0.326 A/m; Power Drift = -0.16 dB

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



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; Serial: **32EFD945**

Communication System: CDMA 800; Communication System Band: Exported from older format (data unavailable - please correct).; 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 meausrement 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

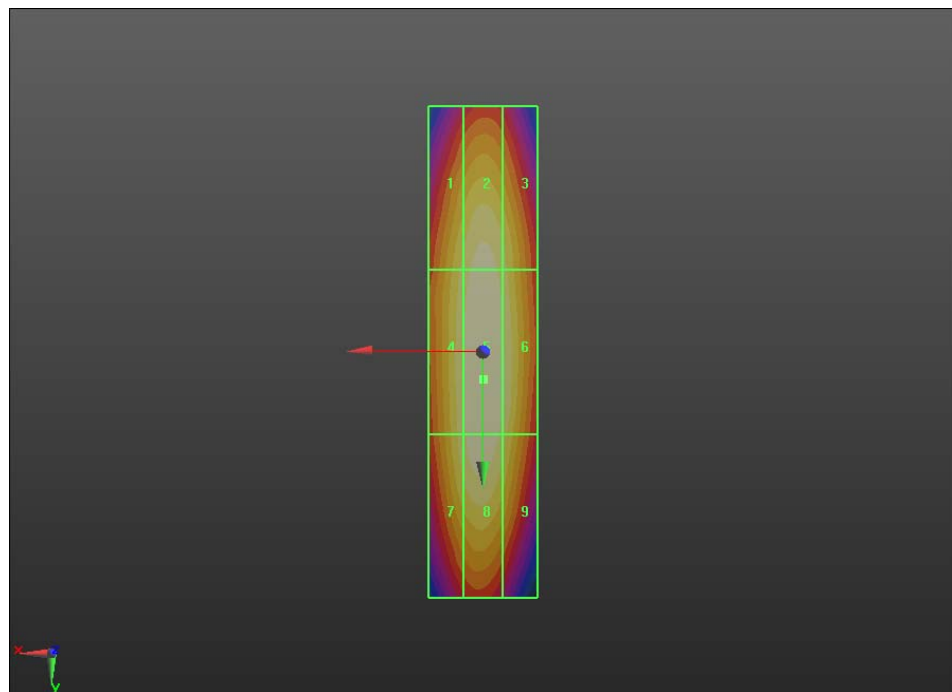
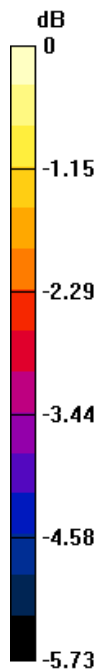
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW		Page 51 (111)
Author Data Daoud Attayi	Dates of Test Mar. 22-23, June 21-22, 2011	Report No RTS-2604-1107-07	FCC ID L6ARDR60CW

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

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

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



0 dB = 0.180A/m

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Date/Time: 6/21/2011 9:07:05 PM

Test Laboratory: RIM Testing Services

**Dipole H-Field measurement with H3DV6 probe/H Scan -
CDMA835_1_8th_measurement distance from the probe
sensor center to CD835 Dipole = 10mm/Hearing Aid
Compatibility Test (41x361x1):** Measurement grid: dx=5mm,
dy=5mm
Maximum value of peak Total field = 0.064 A/m
Probe Modulation Factor = 1.000
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.067 A/m; Power Drift = -0.08 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.052 M4	Grid 2 0.055 M4	Grid 3 0.052 M4
Grid 4 0.060 M4	Grid 5 0.064 M4	Grid 6 0.060 M4
Grid 7 0.055 M4	Grid 8 0.056 M4	Grid 9 0.052 M4

**Dipole H-Field measurement with H3DV6 probe/H Scan -
CW_CDMA835_measurement distance from the probe sensor center to
CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):**
Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.177 A/m
Probe Modulation Factor = 1.000
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.191 A/m; Power Drift = 0.0078 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

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Peak H-field in A/m

Grid 1 0.145 M4	Grid 2 0.151 M4	Grid 3 0.144 M4
Grid 4 0.169 M4	Grid 5 0.177 M4	Grid 6 0.167 M4
Grid 7 0.154 M4	Grid 8 0.159 M4	Grid 9 0.146 M4

Dipole H-Field measurement with H3DV6 probe/H Scan - AM80%_CDMA835_measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 0.114 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

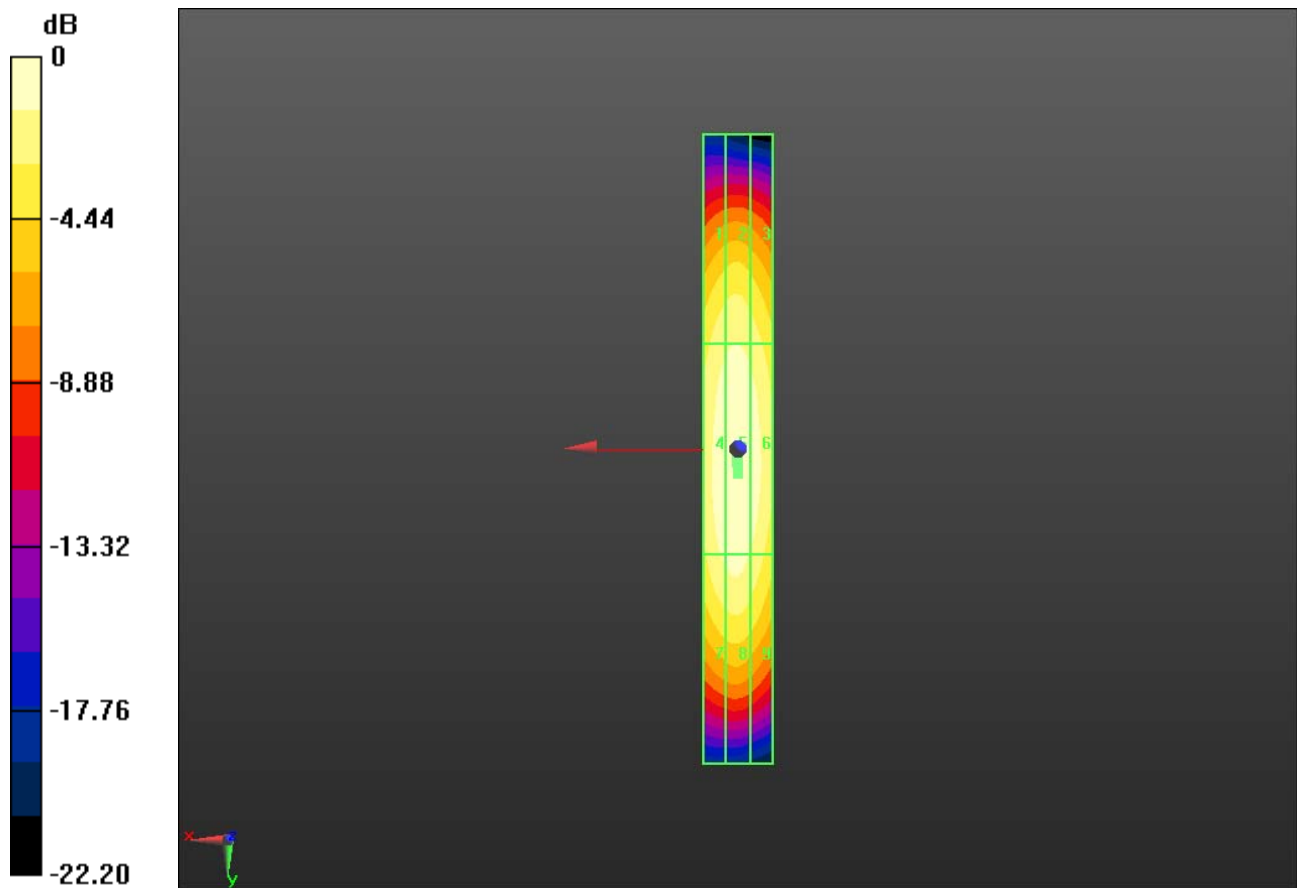
Reference Value = 0.120 A/m; Power Drift = 0.10 dB

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

Peak H-field in A/m

Grid 1 0.093 M4	Grid 2 0.097 M4	Grid 3 0.092 M4
Grid 4 0.109 M4	Grid 5 0.114 M4	Grid 6 0.108 M4
Grid 7 0.100 M4	Grid 8 0.103 M4	Grid 9 0.095 M4

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0 dB = 0.480A/m

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Date/Time: 6/21/2011 7:37:59 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_PMF_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 32EFD945

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0, Communication System PAR: 9.19 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)

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 = 0.466 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.494 A/m; Power Drift = -0.06 dB

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

Peak H-field in A/m

Grid 1 0.429 M2	Grid 2 0.449 M2	Grid 3 0.431 M2
Grid 4 0.443 M2	Grid 5 0.466 M2	Grid 6 0.445 M2
Grid 7 0.434 M2	Grid 8 0.457 M2	Grid 9 0.433 M2

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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; Serial: **32EFD945**

Communication System: GSM 1900; Communication System Band: Exported from older format (data unavailable - please correct).; 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

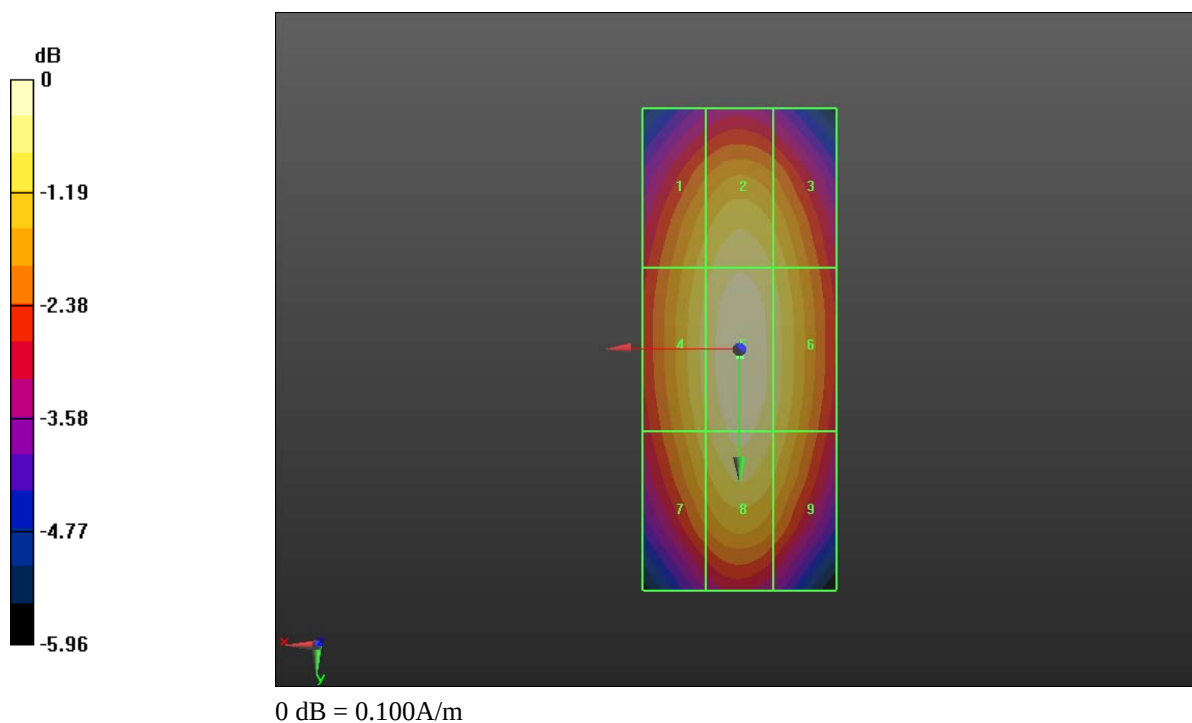
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Reference Value = 0.105 A/m; Power Drift = 0.04 dB

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

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



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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; Serial: **32EFD945**

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

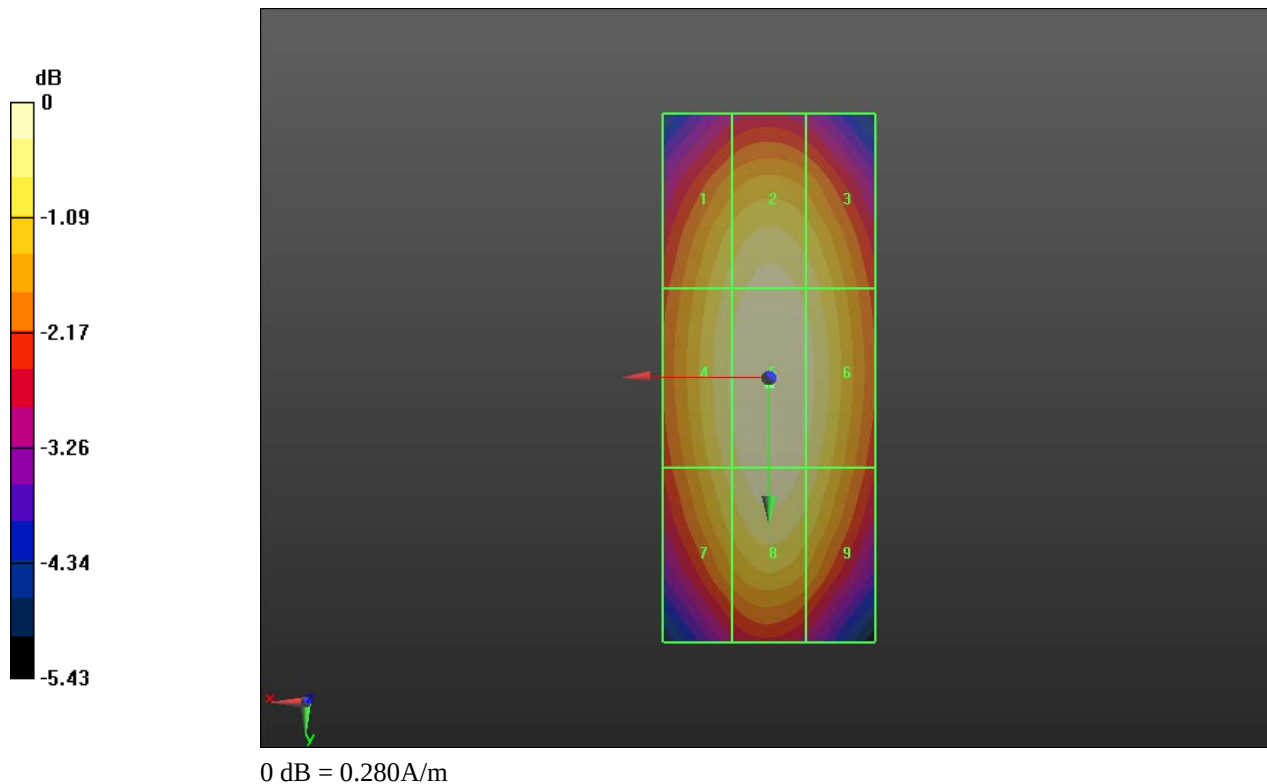
Reference Value = 0.302 A/m; Power Drift = -0.03 dB

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



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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; Serial: **32EFD945**

Communication System: AM 80%; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: TCoil Section

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

DASY5 Configuration:

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

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

10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.184 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

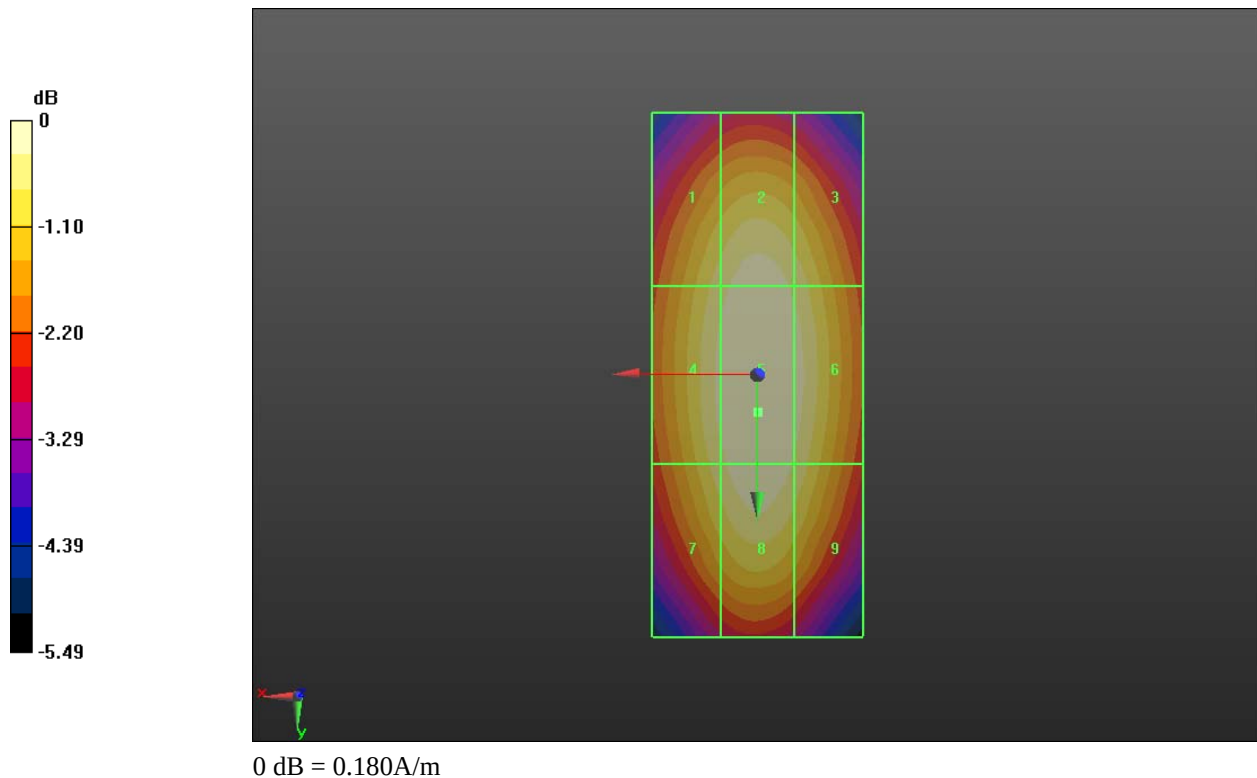
Reference Value = 0.196 A/m; Power Drift = -0.02 dB

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

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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



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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; Serial: 32EFD945

Communication System: CDMA 1900; Communication System Band: Exported from older format (data unavailable - please correct).; 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 meausrement 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

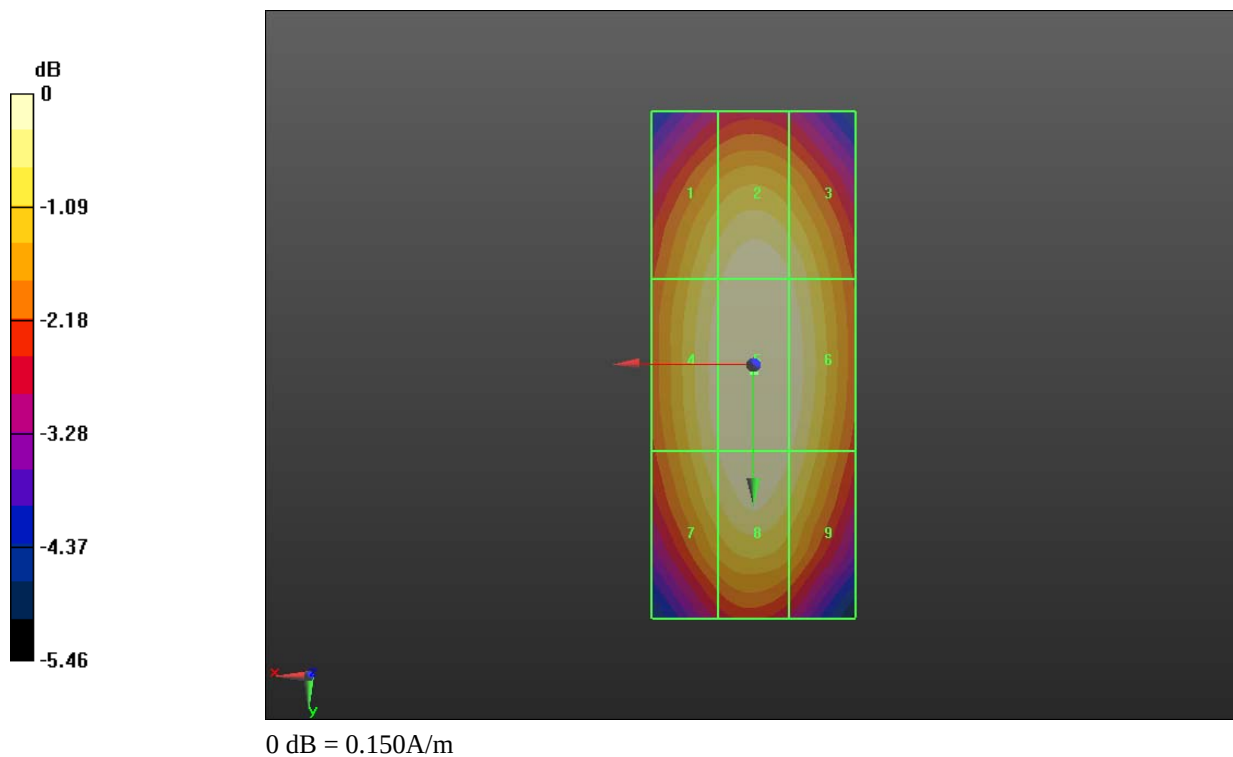
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Reference Value = 0.165 A/m; Power Drift = -0.02 dB

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

Peak H-field in A/m

Grid 1 0.143 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



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Date/Time: 6/21/2011 7:37:59 PM

Test Laboratory: RIM Testing Services

**Dipole H-Field measurement with H3DV6 probe/H Scan -
CW_CDMA1900_measurement distance from the probe sensor center to
CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):**

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

Maximum value of peak Total field = 0.126 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.135 A/m; Power Drift = -0.02 dB

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

Peak H-field in A/m

Grid 1 0.109 M4	Grid 2 0.113 M4	Grid 3 0.108 M4
Grid 4 0.121 M4	Grid 5 0.126 M4	Grid 6 0.120 M4
Grid 7 0.110 M4	Grid 8 0.116 M4	Grid 9 0.109 M4

**Dipole H-Field measurement with H3DV6 probe/H Scan -
AM80%_CDMA1900_measurement distance from the probe sensor center
to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):**

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

Maximum value of peak Total field = 0.081 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.086 A/m; Power Drift = -0.0042 dB

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

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Peak H-field in A/m

Grid 1 0.070 M4	Grid 2 0.073 M4	Grid 3 0.070 M4
Grid 4 0.077 M4	Grid 5 0.081 M4	Grid 6 0.077 M4
Grid 7 0.070 M4	Grid 8 0.074 M4	Grid 9 0.069 M4

**Dipole H-Field measurement with H3DV6 probe/H Scan -
CDMA1900_1_8th_measurement distance from the probe sensor center to
CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):**

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

Maximum value of peak Total field = 0.051 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

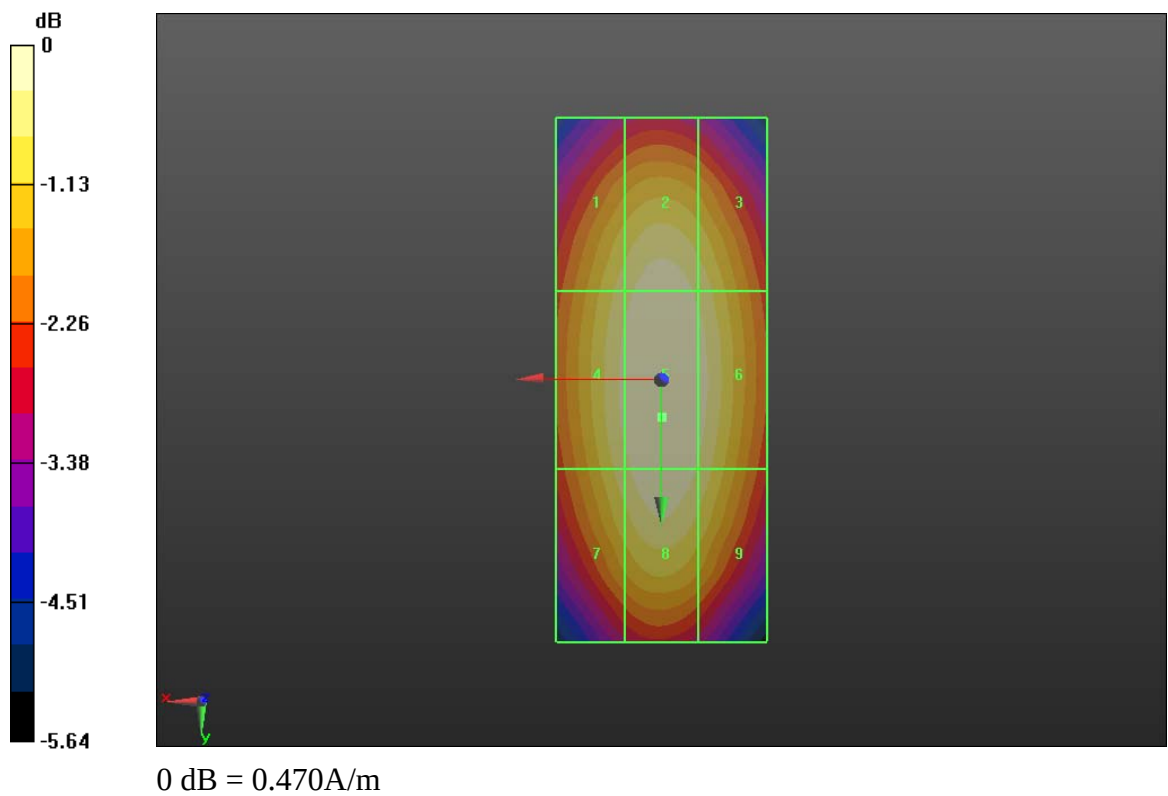
Reference Value = 0.050 A/m; Power Drift = -0.17 dB

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

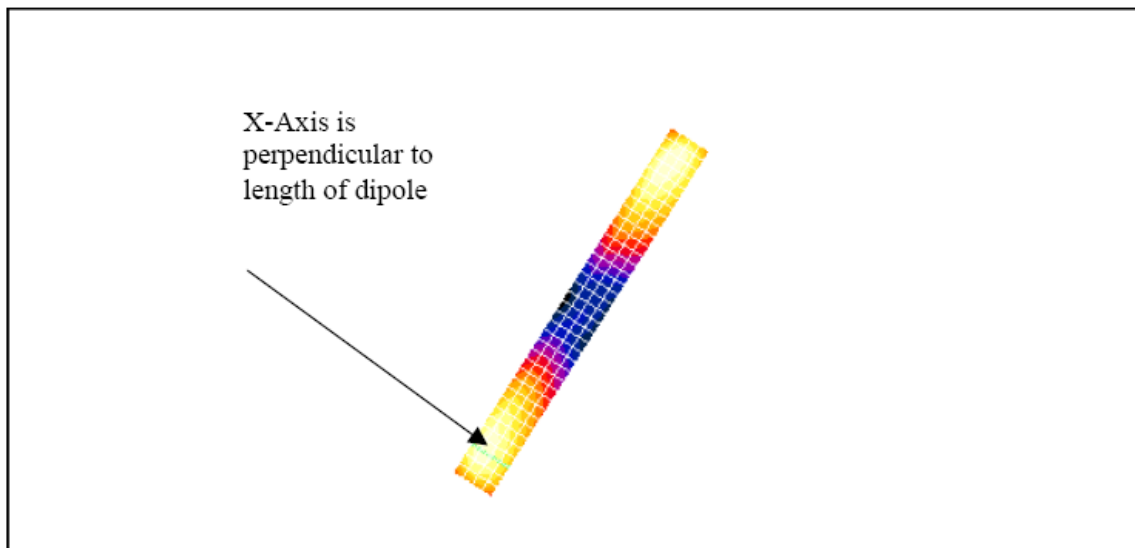
Peak H-field in A/m

Grid 1 0.040 M4	Grid 2 0.041 M4	Grid 3 0.038 M4
Grid 4 0.047 M4	Grid 5 0.051 M4	Grid 6 0.048 M4
Grid 7 0.040 M4	Grid 8 0.042 M4	Grid 9 0.040 M4

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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

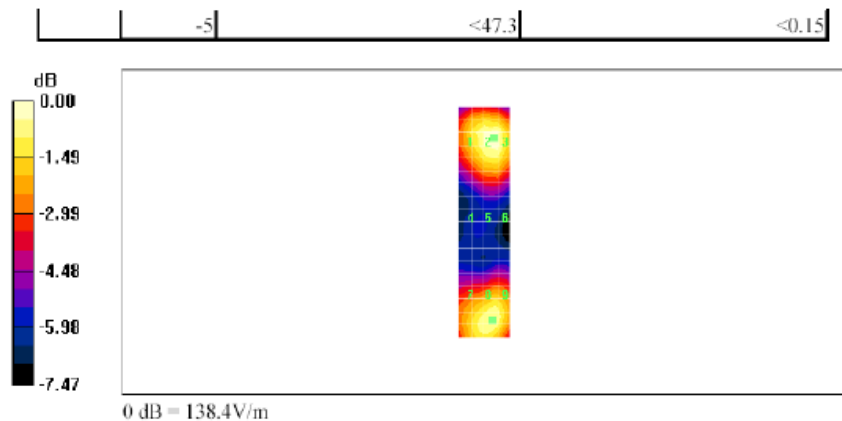
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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

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

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

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

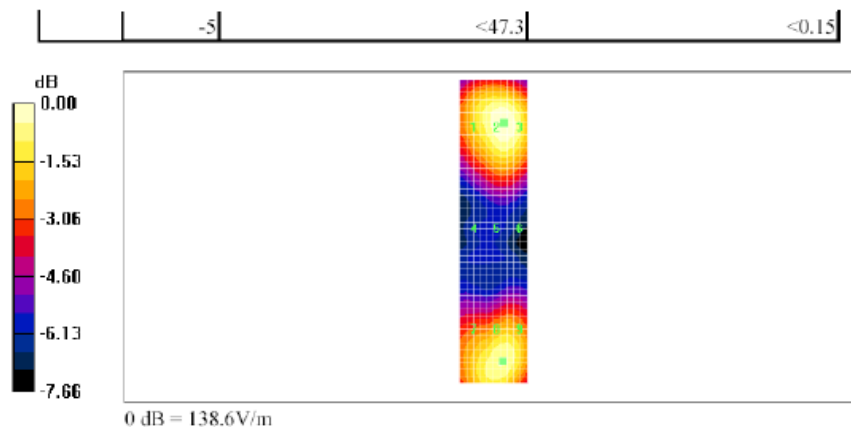
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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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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

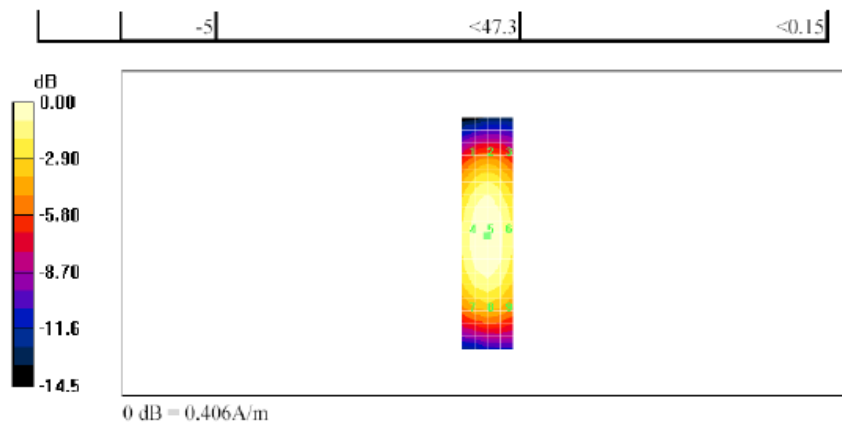
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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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

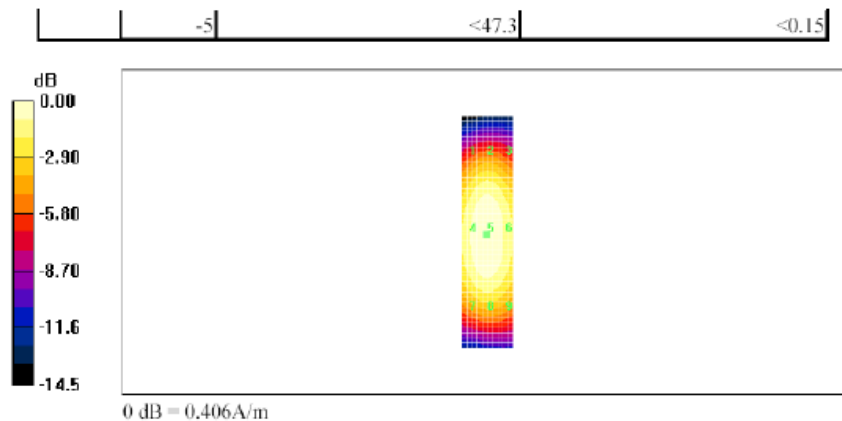
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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A.3 RF emissions plots

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Date/Time: 6/22/2011 8:39:25 PM,

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GSM 850; Communication System Band: Exported from older format (data unavailable - please correct).; 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: 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 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 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 = 186.5 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 79.298 V/m; Power Drift = 0.11 dB

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

Peak E-field in V/m

Grid 1 162.3 M3	Grid 2 178.7 M3	Grid 3 177.5 M3
Grid 4 167.7 M3	Grid 5 186.5 M3	Grid 6 184.5 M3
Grid 7 172.0 M3	Grid 8 187.1 M3	Grid 9 184.5 M3

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 = 201.1 V/m
Probe Modulation Factor = 2.940
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 83.471 V/m; Power Drift = 0.09 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

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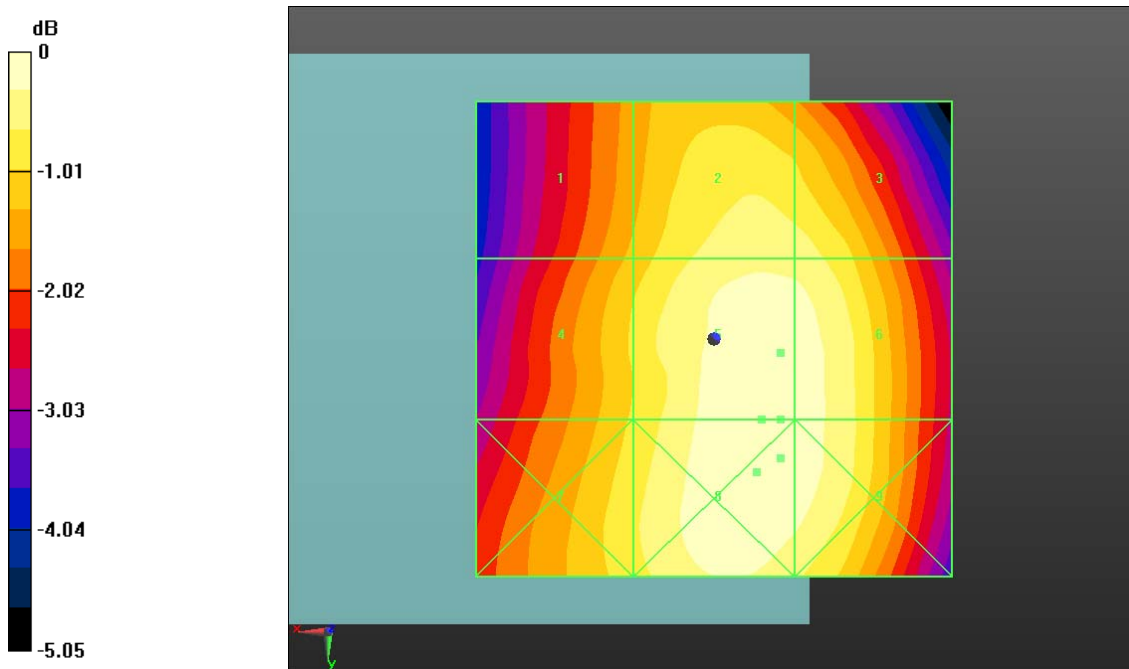
Peak E-field in V/m

Grid 1 163.7 M3	Grid 2 191.2 M3	Grid 3 191.2 M3
Grid 4 171.5 M3	Grid 5 201.1 M3	Grid 6 200.8 M3
Grid 7 177.2 M3	Grid 8 201.5 M3	Grid 9 201.1 M3

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 = 169.6 V/m
Probe Modulation Factor = 2.940
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 70.583 V/m; Power Drift = 0.02 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 138.2 M4	Grid 2 164.8 M3	Grid 3 164.8 M3
Grid 4 142.9 M4	Grid 5 169.6 M3	Grid 6 169.4 M3
Grid 7 144.5 M4	Grid 8 169.3 M3	Grid 9 169.1 M3



0 dB = 187.1V/m

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Date/Time: 6/22/2011 9:01:44 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GSM 1900; Communication System Band: 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: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- 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 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 = 83.193 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 22.590 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 76.118 M3	Grid 2 68.780 M3	Grid 3 50.404 M3
Grid 4 46.620 M4	Grid 5 83.193 M3	Grid 6 84.510 M2
Grid 7 72.311 M3	Grid 8 100.9 M2	Grid 9 100.9 M2

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 = 80.977 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 23.458 V/m; Power Drift = 0.24 dB

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

Peak E-field in V/m

Grid 1 66.868 M3	Grid 2 63.581 M3	Grid 3 54.895 M3
Grid 4 46.356 M4	Grid 5 80.977 M3	Grid 6 81.837 M3
Grid 7 66.484 M3	Grid 8 93.883 M2	Grid 9 93.883 M2

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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 = 75.872 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

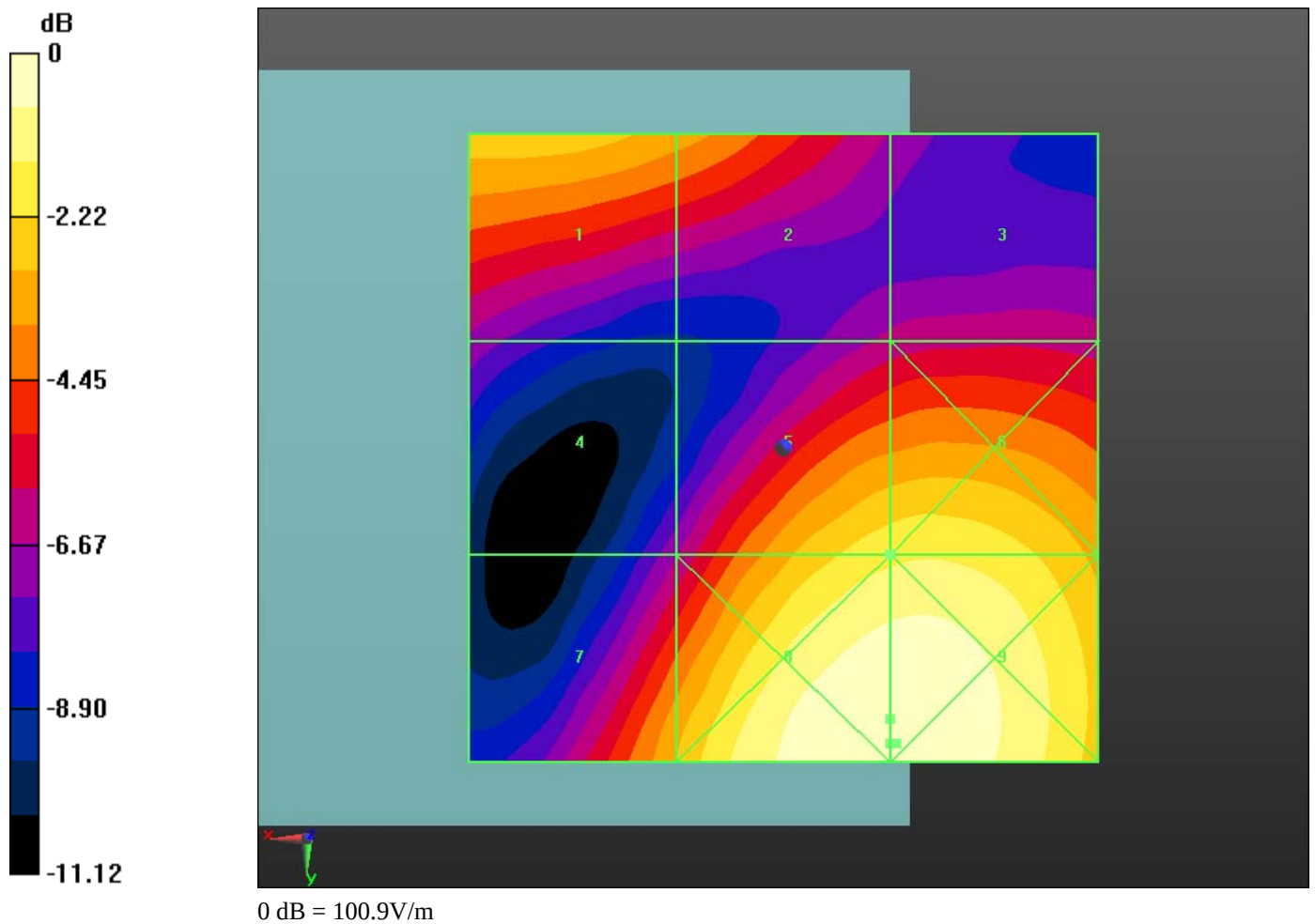
Reference Value = 22.845 V/m; Power Drift = 0.0085 dB

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

Peak E-field in V/m

Grid 1 66.330 M3	Grid 2 63.147 M3	Grid 3 54.597 M3
Grid 4 46.015 M4	Grid 5 75.872 M3	Grid 6 76.865 M3
Grid 7 61.242 M3	Grid 8 87.947 M2	Grid 9 87.952 M2

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Date/Time: 6/22/2011 8:18:05 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: CDMA 850; Communication System Band: CDMA 2000

Cellular; Frequency: 824.7 MHz, Frequency: 836.52 MHz, Frequency: 848.52

MHz; Communication System PAR: 0, Communication System PAR: 9.19 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 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 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 = 62.324 V/m

Probe Modulation Factor = 0.84

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 81.613 V/m; Power Drift = 0.21 dB

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

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Peak E-field in V/m

Grid 1 52.944 M4	Grid 2 59.576 M4	Grid 3 59.576 M4
Grid 4 55.469 M4	Grid 5 62.324 M4	Grid 6 62.306 M4
Grid 7 57.118 M4	Grid 8 62.640 M4	Grid 9 62.493 M4

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 = 66.632 V/m

Probe Modulation Factor = 0.84

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 85.532 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 52.871 M4	Grid 2 62.860 M4	Grid 3 62.860 M4
Grid 4 56.387 M4	Grid 5 66.632 M4	Grid 6 66.606 M4
Grid 7 58.708 M4	Grid 8 67.166 M4	Grid 9 67.005 M4

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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 = 62.896 V/m

Probe Modulation Factor = 0.84

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 81.124 V/m; Power Drift = 0.03 dB

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

Peak E-field in V/m

Grid 1 50.933 M4	Grid 2 60.753 M4	Grid 3 60.727 M4
Grid 4 52.928 M4	Grid 5 62.896 M4	Grid 6 62.870 M4
Grid 7 54.025 M4	Grid 8 63.143 M4	Grid 9 63.080 M4

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: CDMA835_1_8th_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 = 66.073 V/m

Probe Modulation Factor = 2.600

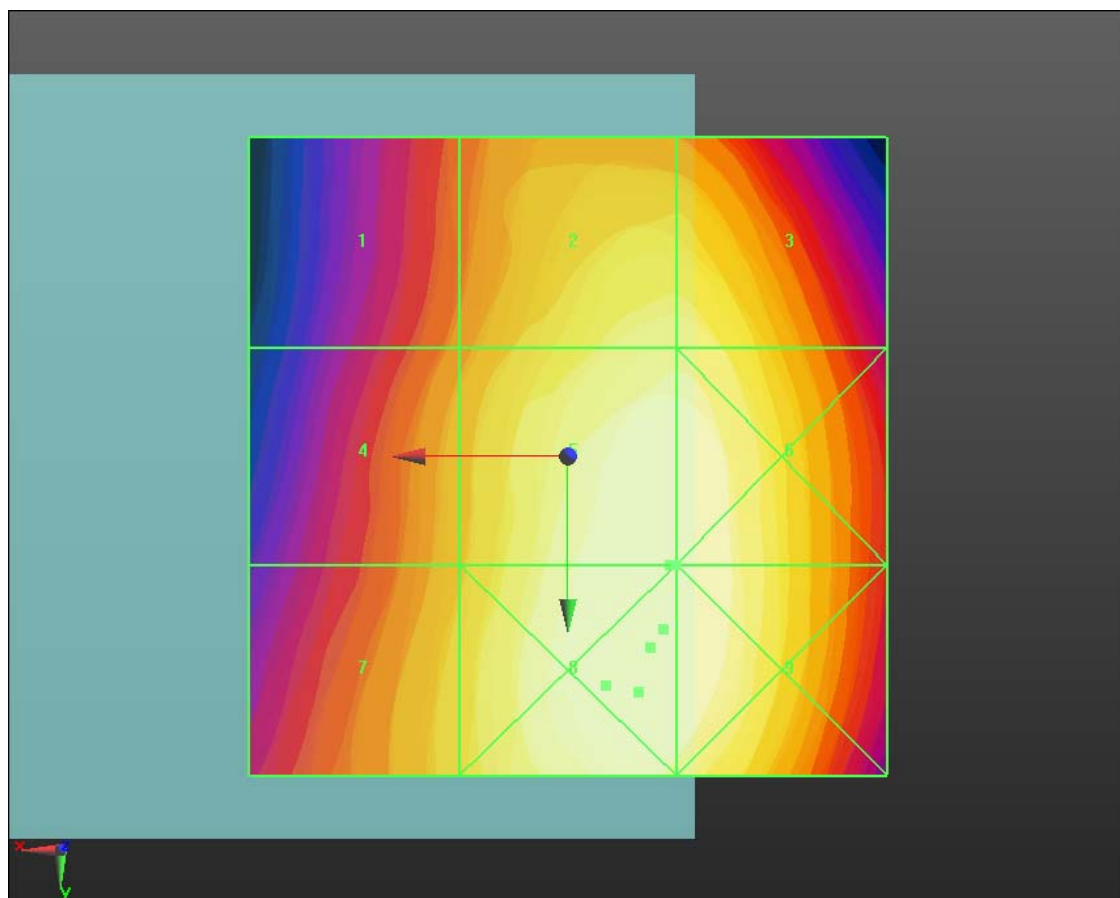
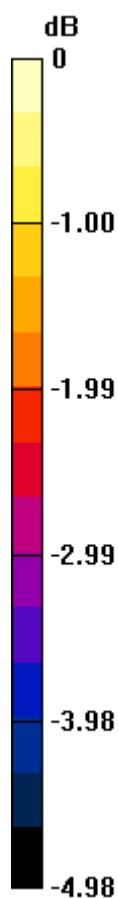
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 30.221 V/m; Power Drift = 0.16 dB

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

Peak E-field in V/m

Grid 1 52.835 M4	Grid 2 62.223 M4	Grid 3 62.223 M4
Grid 4 55.740 M4	Grid 5 66.073 M4	Grid 6 66.073 M4
Grid 7 58.007 M4	Grid 8 66.850 M4	Grid 9 66.409 M4



0 dB = 62.640V/m

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Date/Time: 6/22/2011 7:49:40 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA1900

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: CDMA 1900; Communication System Band: Exported from older format (data unavailable - please correct)., Communication System Band: CDMA 2000 PCS; Frequency: 1851.25 MHz, Frequency: 1880 MHz, Frequency: 1908.5 MHz; Communication System PAR: 4.6, Communication System PAR: 9.19 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 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 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 = 39.827 V/m

Probe Modulation Factor = 0.84

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 34.241 V/m; Power Drift = -0.07 dB

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

Peak E-field in V/m

Grid 1 35.365 M4	Grid 2 34.441 M4	Grid 3 26.153 M4
Grid 4 22.037 M4	Grid 5 39.827 M4	Grid 6 40.840 M4
Grid 7 33.950 M4	Grid 8 48.660 M4	Grid 9 48.730 M4

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 = 39.412 V/m

Probe Modulation Factor = 0.84

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 37.193 V/m; Power Drift = -0.09 dB

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

Peak E-field in V/m

Grid 1 31.897 M4	Grid 2 31.039 M4	Grid 3 26.651 M4
Grid 4 22.556 M4	Grid 5 39.412 M4	Grid 6 39.973 M4
Grid 7 32.707 M4	Grid 8 46.277 M4	Grid 9 46.277 M4

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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 = 35.692 V/m

Probe Modulation Factor = 0.84

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 33.813 V/m; Power Drift = -0.13 dB

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

Peak E-field in V/m

Grid 1 32.731 M4	Grid 2 30.816 M4	Grid 3 25.868 M4
Grid 4 21.852 M4	Grid 5 35.692 M4	Grid 6 36.105 M4
Grid 7 29.886 M4	Grid 8 42.105 M4	Grid 9 42.121 M4

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: CDMA1900_1_8th_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 = 37.240 V/m

Probe Modulation Factor = 2.570

Device Reference Point: 0, 0, -6.3 mm

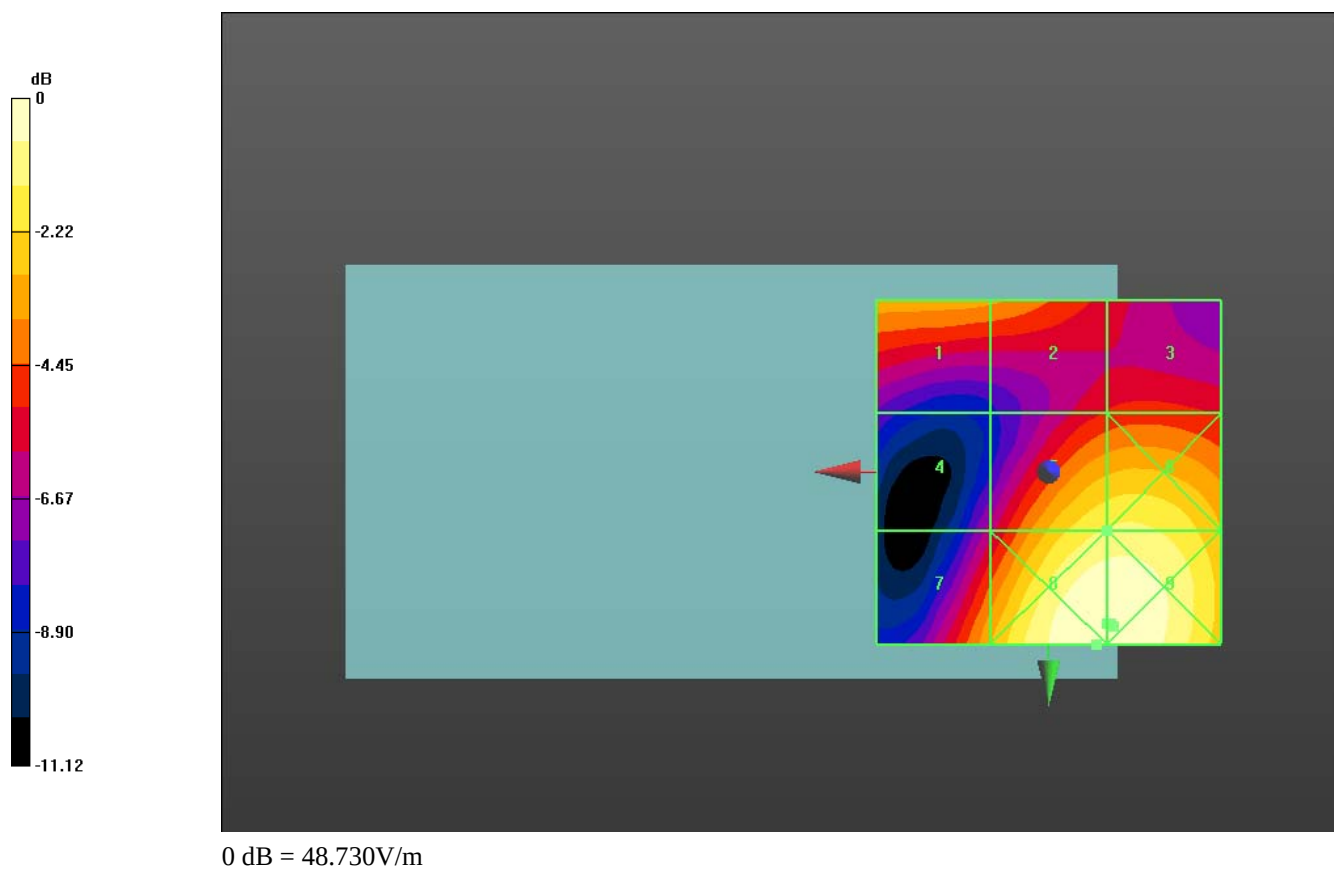
Reference Value = 11.988 V/m; Power Drift = -0.35 dB

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

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Peak E-field in V/m

Grid 1 34.159 M4	Grid 2 32.590 M4	Grid 3 25.040 M4
Grid 4 21.265 M4	Grid 5 37.240 M4	Grid 6 37.819 M4
Grid 7 32.448 M4	Grid 8 45.628 M4	Grid 9 45.505 M4



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Date/Time: 6/22/2011 5:18:56 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GSM 850; Communication System Band: Exported from older format (data unavailable - please correct).; 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 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 = 0.291 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.088 A/m; Power Drift = -1.02 dB

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

Peak H-field in A/m

Grid 1 0.446 M4	Grid 2 0.276 M4	Grid 3 0.179 M4
Grid 4 0.407 M4	Grid 5 0.267 M4	Grid 6 0.165 M4
Grid 7 0.424 M4	Grid 8 0.291 M4	Grid 9 0.190 M4

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 = 0.330 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.090 A/m; Power Drift = -0.02 dB

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

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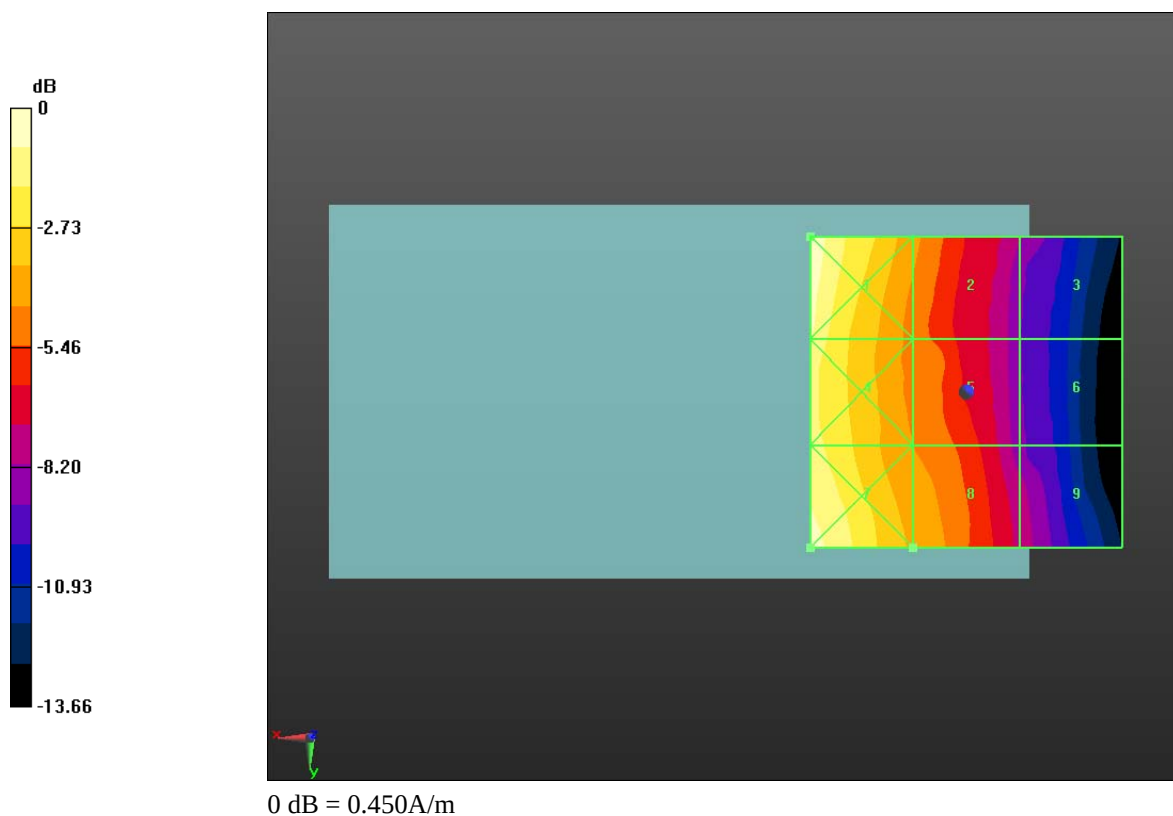
Peak H-field in A/m

Grid 1 0.445 M4	Grid 2 0.313 M4	Grid 3 0.203 M4
Grid 4 0.408 M4	Grid 5 0.292 M4	Grid 6 0.191 M4
Grid 7 0.456 M3	Grid 8 0.330 M4	Grid 9 0.199 M4

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 = 0.314 A/m
Probe Modulation Factor = 2.870
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.085 A/m; Power Drift = -0.12 dB
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.382 M4	Grid 2 0.273 M4	Grid 3 0.172 M4
Grid 4 0.358 M4	Grid 5 0.280 M4	Grid 6 0.192 M4
Grid 7 0.408 M4	Grid 8 0.314 M4	Grid 9 0.204 M4



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Date/Time: 6/22/2011 5:31:26 PM,

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM1900

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GSM 1900; Communication System Band: 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 = 0.220 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.092 A/m; Power Drift = -0.16 dB

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

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Peak H-field in A/m

Grid 1 0.196 M3	Grid 2 0.220 M3	Grid 3 0.214 M3
Grid 4 0.204 M3	Grid 5 0.220 M3	Grid 6 0.214 M3
Grid 7 0.282 M2	Grid 8 0.239 M3	Grid 9 0.182 M3

**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 = 0.222 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.085 A/m; Power Drift = 0.13 dB

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

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Peak H-field in A/m

Grid 1 0.207 M3	Grid 2 0.222 M3	Grid 3 0.208 M3
Grid 4 0.220 M3	Grid 5 0.222 M3	Grid 6 0.207 M3
Grid 7 0.285 M2	Grid 8 0.256 M2	Grid 9 0.181 M3

**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 = 0.201 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

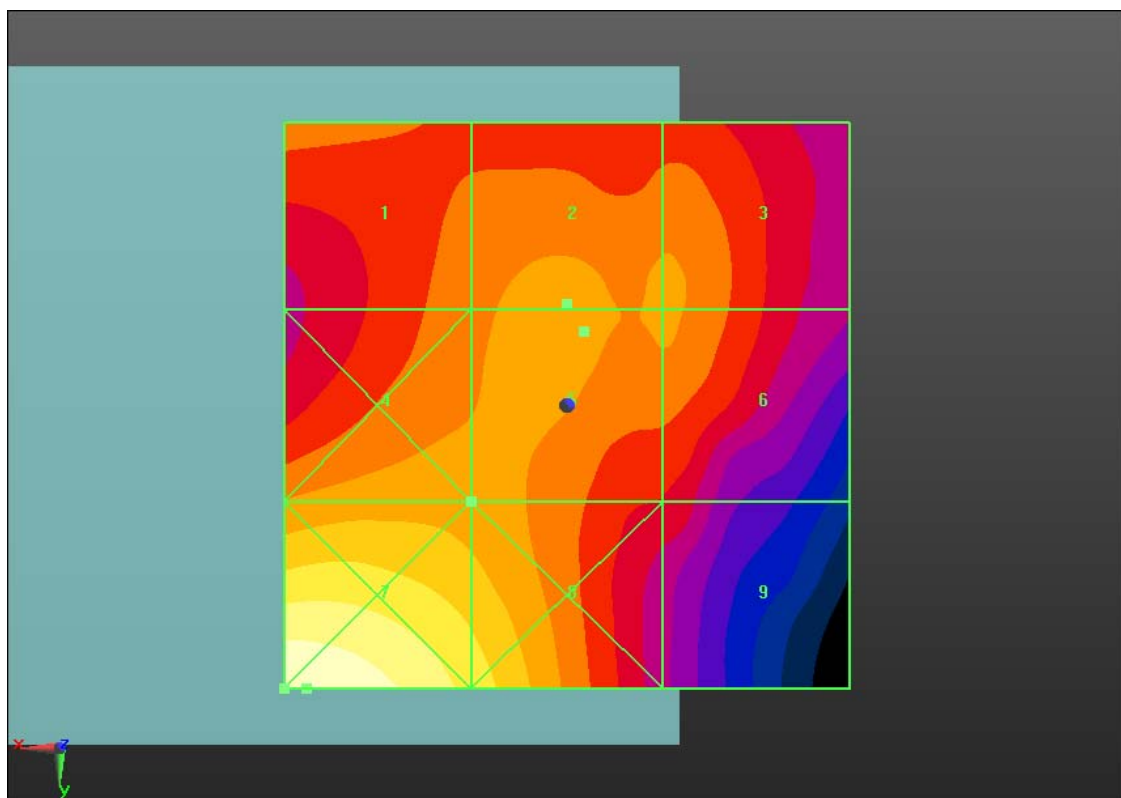
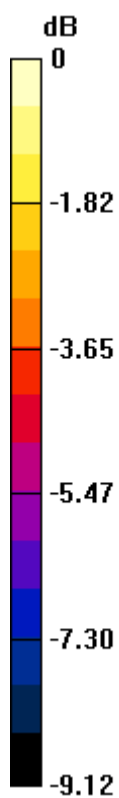
Reference Value = 0.082 A/m; Power Drift = 0.24 dB

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

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Peak H-field in A/m

Grid 1 0.190 M3	Grid 2 0.198 M3	Grid 3 0.196 M3
Grid 4 0.203 M3	Grid 5 0.201 M3	Grid 6 0.196 M3
Grid 7 0.269 M2	Grid 8 0.231 M3	Grid 9 0.169 M3



0 dB = 0.280A/m

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Date/Time: 6/22/2011 6:23:54 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: CDMA 850; Communication System Band: CDMA 2000

Cellular; Frequency: 824.7 MHz, Frequency: 836.52 MHz, Frequency: 848.52

MHz; Communication System PAR: 0, Communication System PAR: 9.19 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 = 0.145 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.089 A/m; Power Drift = -0.13 dB

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

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Peak H-field in A/m

Grid 1 0.145 M4	Grid 2 0.101 M4	Grid 3 0.065 M4
Grid 4 0.133 M4	Grid 5 0.098 M4	Grid 6 0.062 M4
Grid 7 0.147 M4	Grid 8 0.108 M4	Grid 9 0.066 M4

**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 = 0.153 A/m

Probe Modulation Factor = 0.970

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 0.153 M4	Grid 2 0.110 M4	Grid 3 0.074 M4
Grid 4 0.140 M4	Grid 5 0.107 M4	Grid 6 0.071 M4
Grid 7 0.156 M4	Grid 8 0.117 M4	Grid 9 0.074 M4

**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 = 0.147 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.100 A/m; Power Drift = 0.008 dB

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

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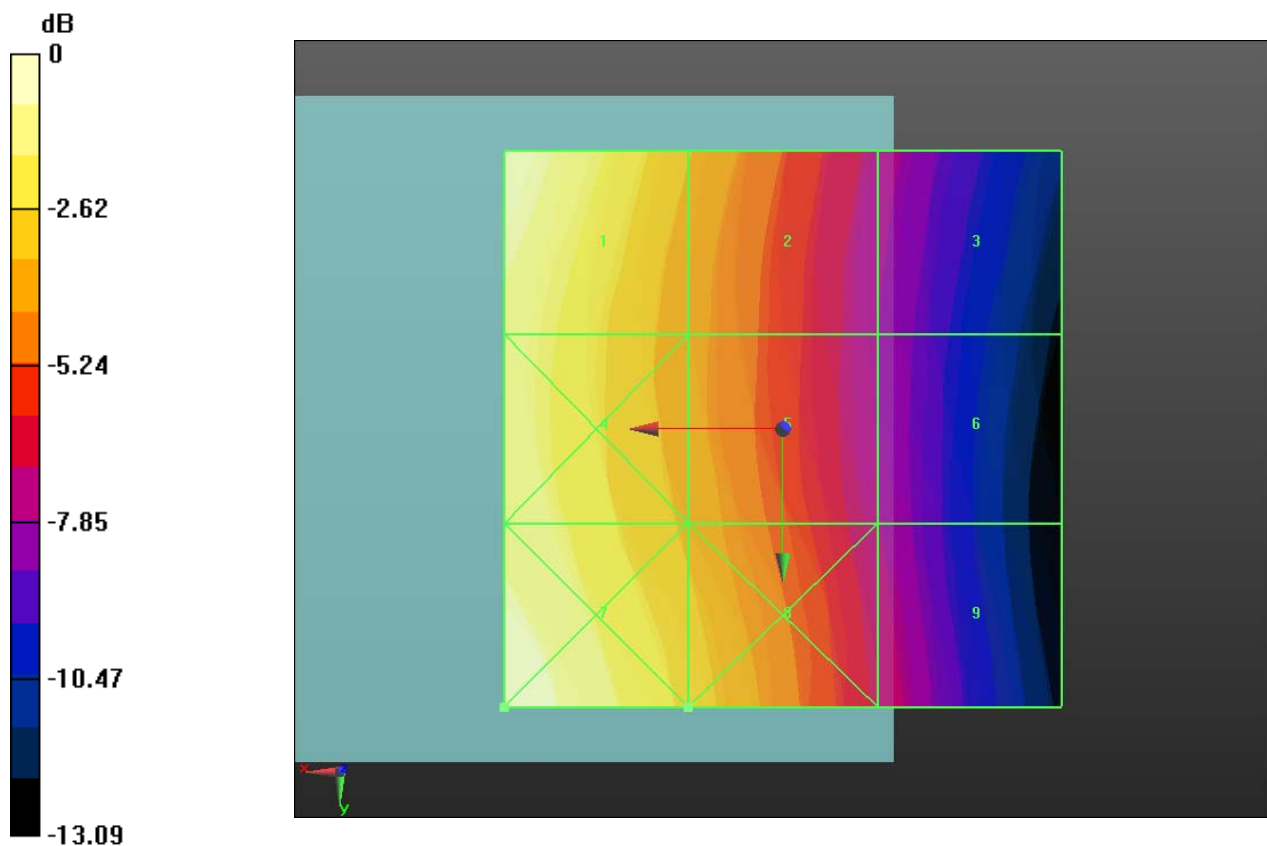
Peak H-field in A/m

Grid 1 0.147 M4	Grid 2 0.106 M4	Grid 3 0.069 M4
Grid 4 0.142 M4	Grid 5 0.112 M4	Grid 6 0.077 M4
Grid 7 0.161 M4	Grid 8 0.126 M4	Grid 9 0.086 M4

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 1/8/Hearing Aid Compatibility Test (101x101x1): Measurement
grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.150 A/m
Probe Modulation Factor = 2.760
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.035 A/m; Power Drift = 0.20 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.150 M4	Grid 2 0.110 M4	Grid 3 0.071 M4
Grid 4 0.150 M4	Grid 5 0.116 M4	Grid 6 0.079 M4
Grid 7 0.170 M4	Grid 8 0.131 M4	Grid 9 0.088 M4



0 dB = 0.150A/m

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Date/Time: 6/22/2011 6:56:22 PM, Date/Time: 6/22/2011 7:01:13 PM,
Date/Time: 6/22/2011 7:04:49 PM, Date/Time: 6/22/2011 7:09:05 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA1900

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS; Frequency: 1851.25 MHz, Frequency: 1880 MHz, Frequency: 1908.5 MHz; Communication System PAR: 0, Communication System PAR: 9.19 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/Hearing Aid

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

Maximum value of peak Total field = 0.099 A/m

Probe Modulation Factor = 0.820

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.141 A/m; Power Drift = 0.10 dB

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

Peak H-field in A/m

Grid 1 0.090 M4	Grid 2 0.098 M4	Grid 3 0.096 M4
Grid 4 0.087 M4	Grid 5 0.099 M4	Grid 6 0.096 M4
Grid 7 0.117 M4	Grid 8 0.099 M4	Grid 9 0.081 M4

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 = 0.091 A/m
Probe Modulation Factor = 0.820
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.129 A/m; Power Drift = 0.004 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

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Peak H-field in A/m

Grid 1 0.089 M4	Grid 2 0.091 M4	Grid 3 0.086 M4
Grid 4 0.086 M4	Grid 5 0.091 M4	Grid 6 0.086 M4
Grid 7 0.117 M4	Grid 8 0.101 M4	Grid 9 0.075 M4

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

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.091 A/m

Probe Modulation Factor = 0.820

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.127 A/m; Power Drift = 0.20 dB

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

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Peak H-field in A/m

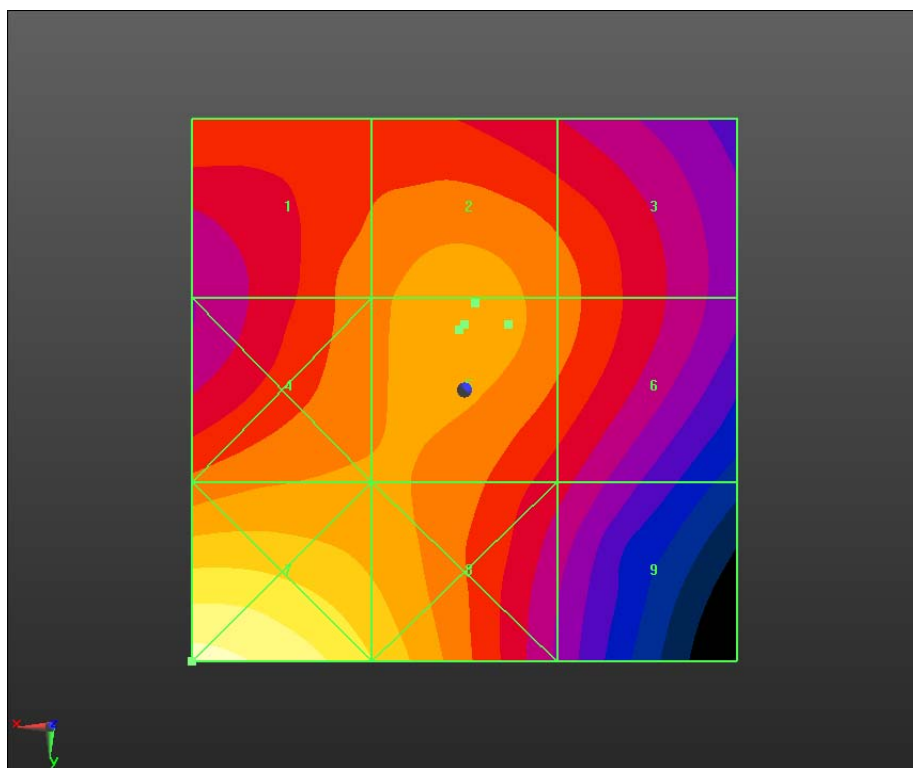
Grid 1 0.087 M4	Grid 2 0.091 M4	Grid 3 0.086 M4
Grid 4 0.089 M4	Grid 5 0.091 M4	Grid 6 0.086 M4
Grid 7 0.116 M4	Grid 8 0.100 M4	Grid 9 0.076 M4

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 1/8/Hearing Aid Compatibility Test (101x101x1): Measurement
grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.096 A/m
Probe Modulation Factor = 2.470
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.046 A/m; Power Drift = -0.20 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

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Peak H-field in A/m

Grid 1 0.095 M4	Grid 2 0.096 M4	Grid 3 0.091 M4
Grid 4 0.093 M4	Grid 5 0.096 M4	Grid 6 0.091 M4
Grid 7 0.127 M4	Grid 8 0.107 M4	Grid 9 0.079 M4



0 dB = 0.120A/m