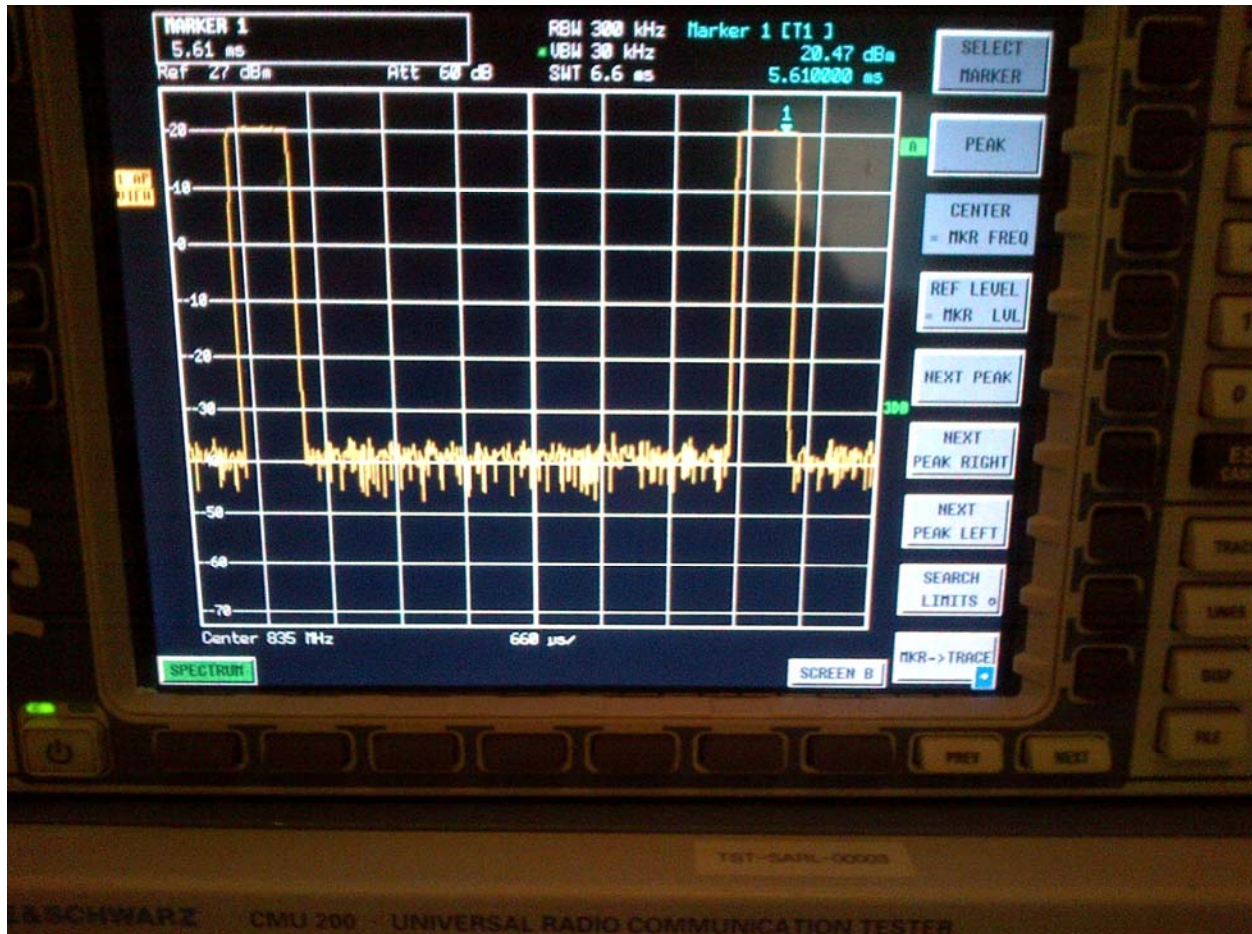


		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFM121LW		Page 1 (154)
Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW	

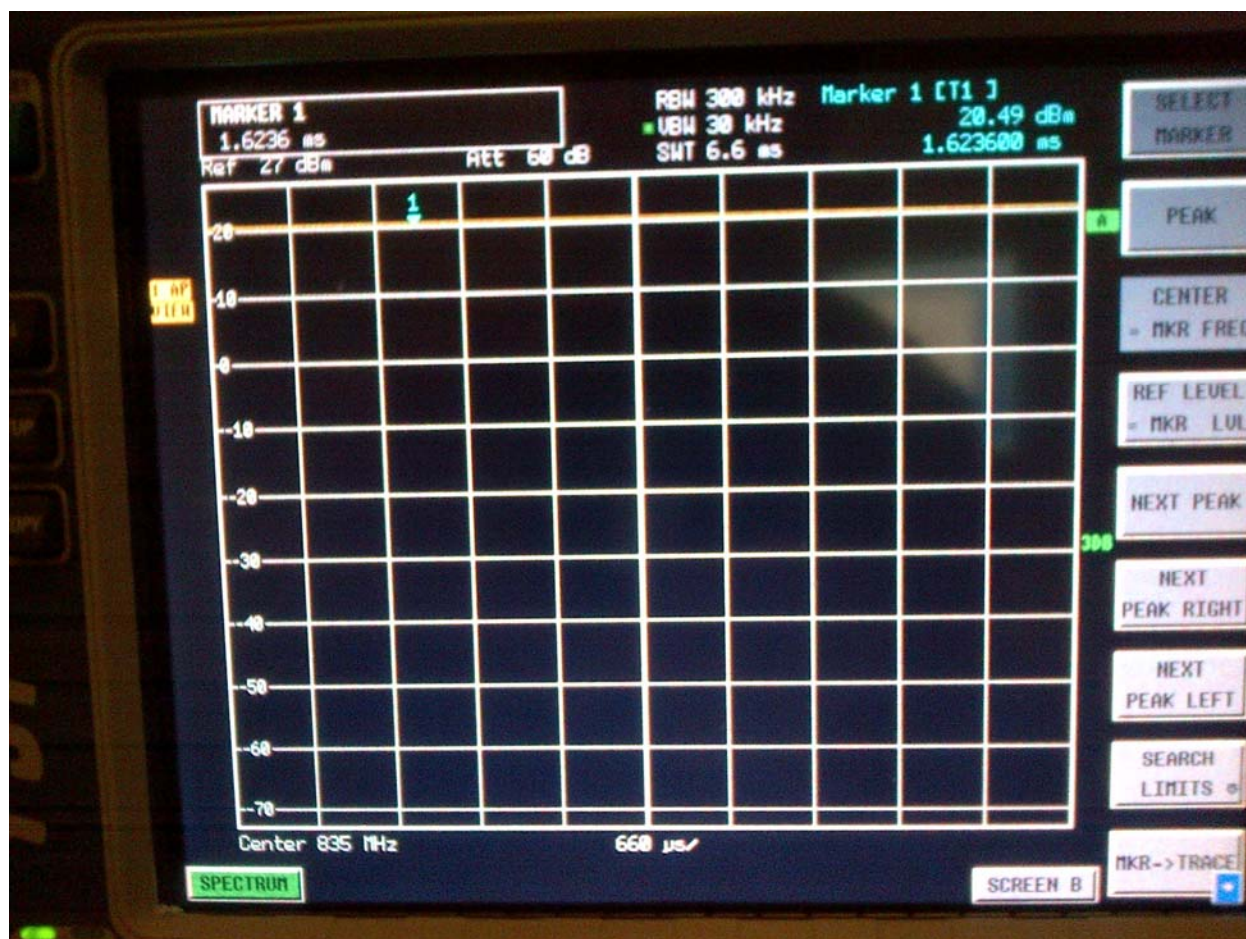
Annex A: Measurement data and plots

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



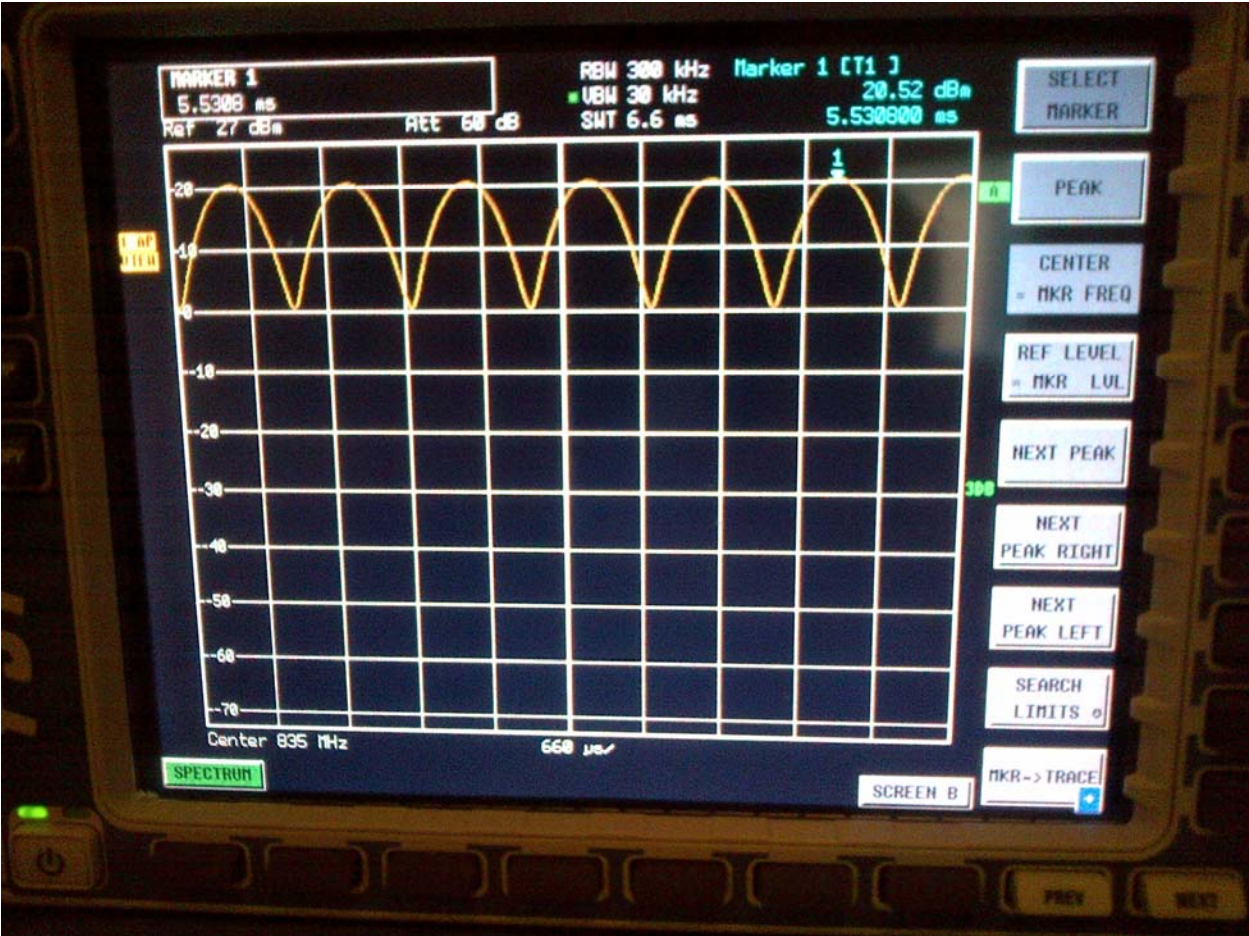
GSM 835 MHz

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CW 835 MHz

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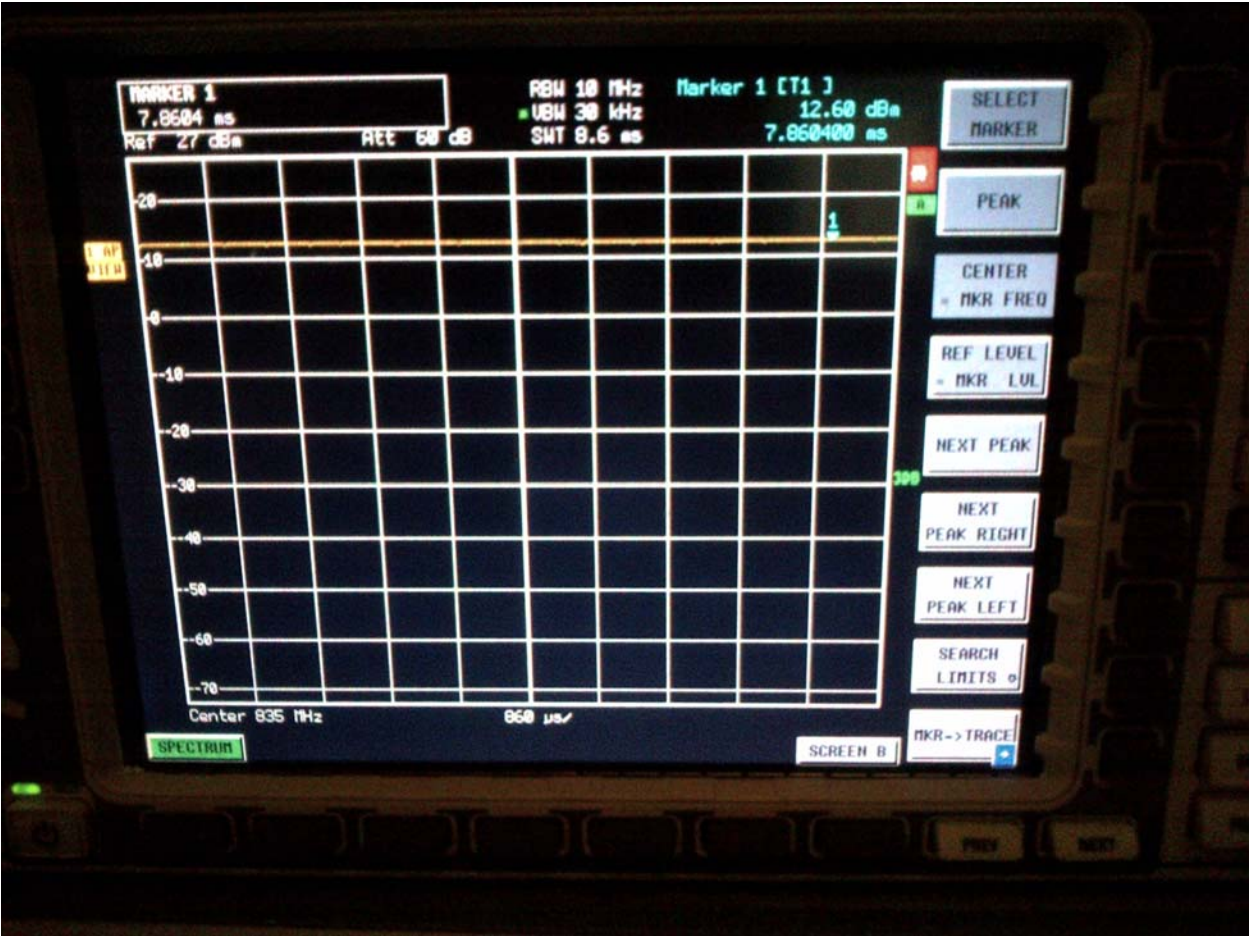
AM 80% 835 MHz

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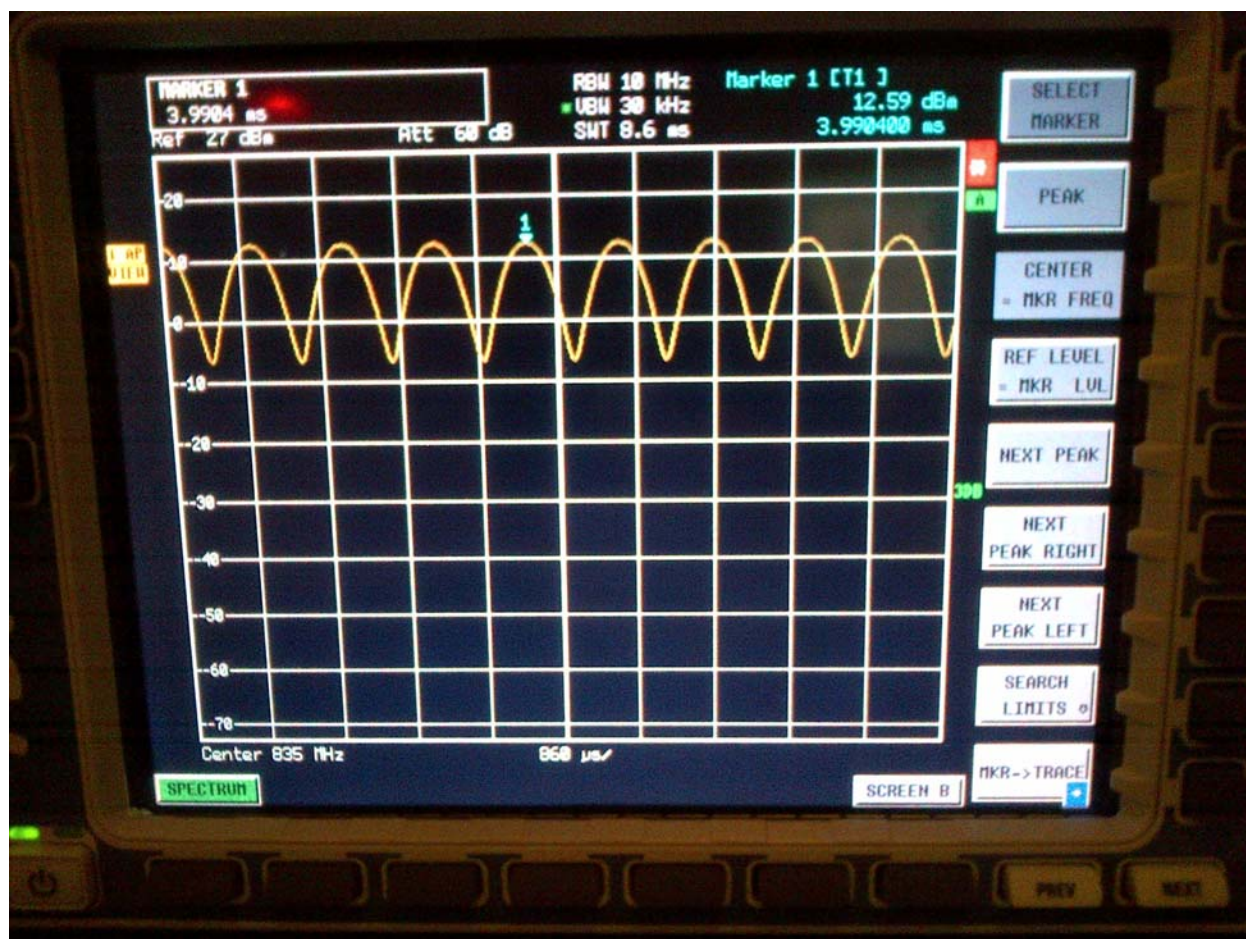
UMTS 835 MHz

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFM121LW		Page 6 (154)
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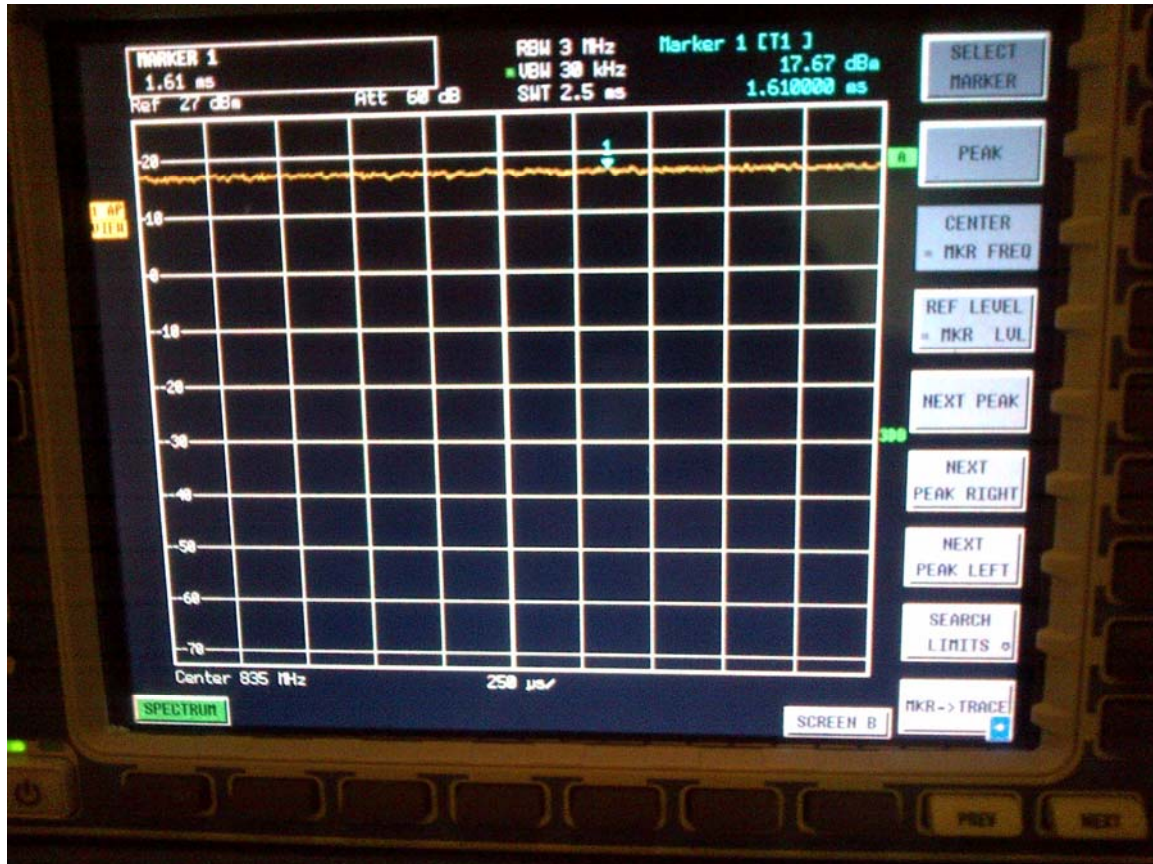
CW 835 MHz

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFM121LW		Page 7 (154)
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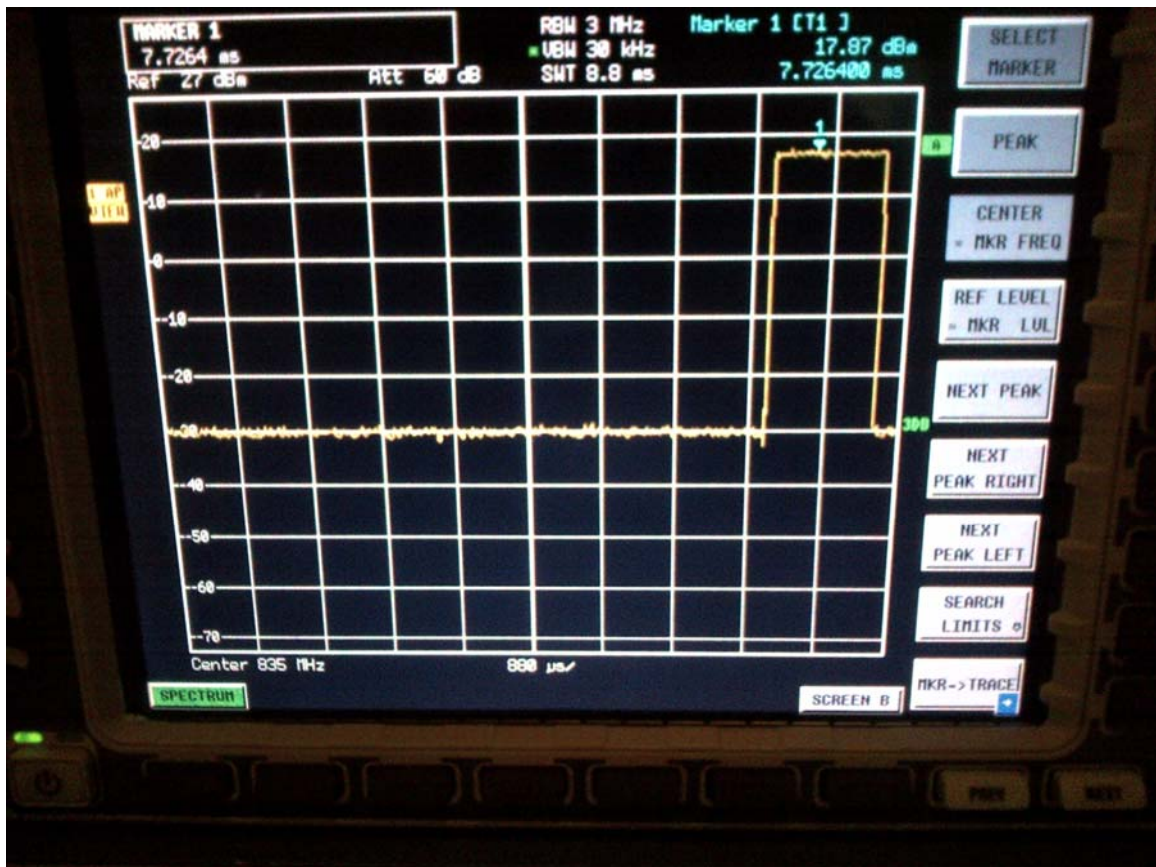
AM 80% 835 MHz

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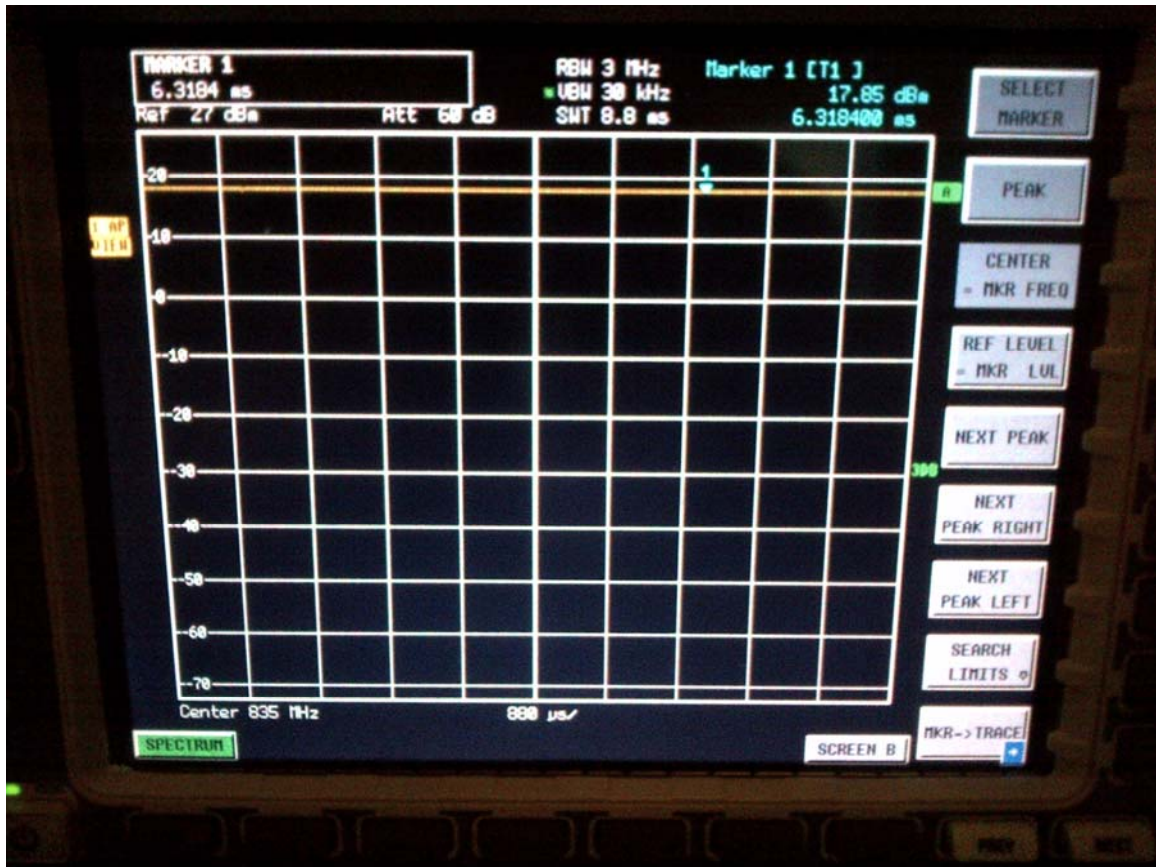
CDMA 835 MHz (BC0)

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CDMA 835 MHz (BC0) 1/8th

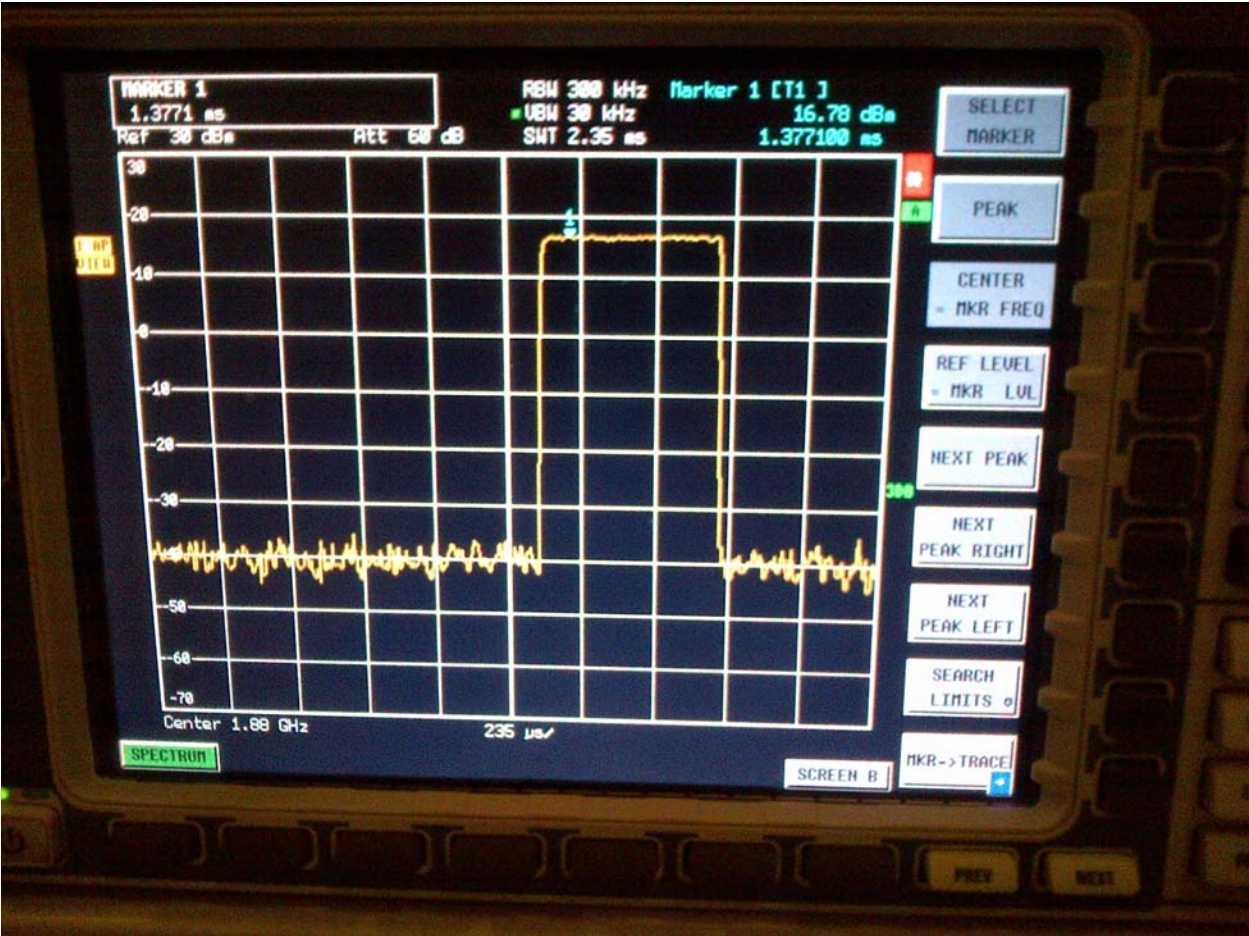
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFM121LW		Page 10 (154)
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CW 835 MHz

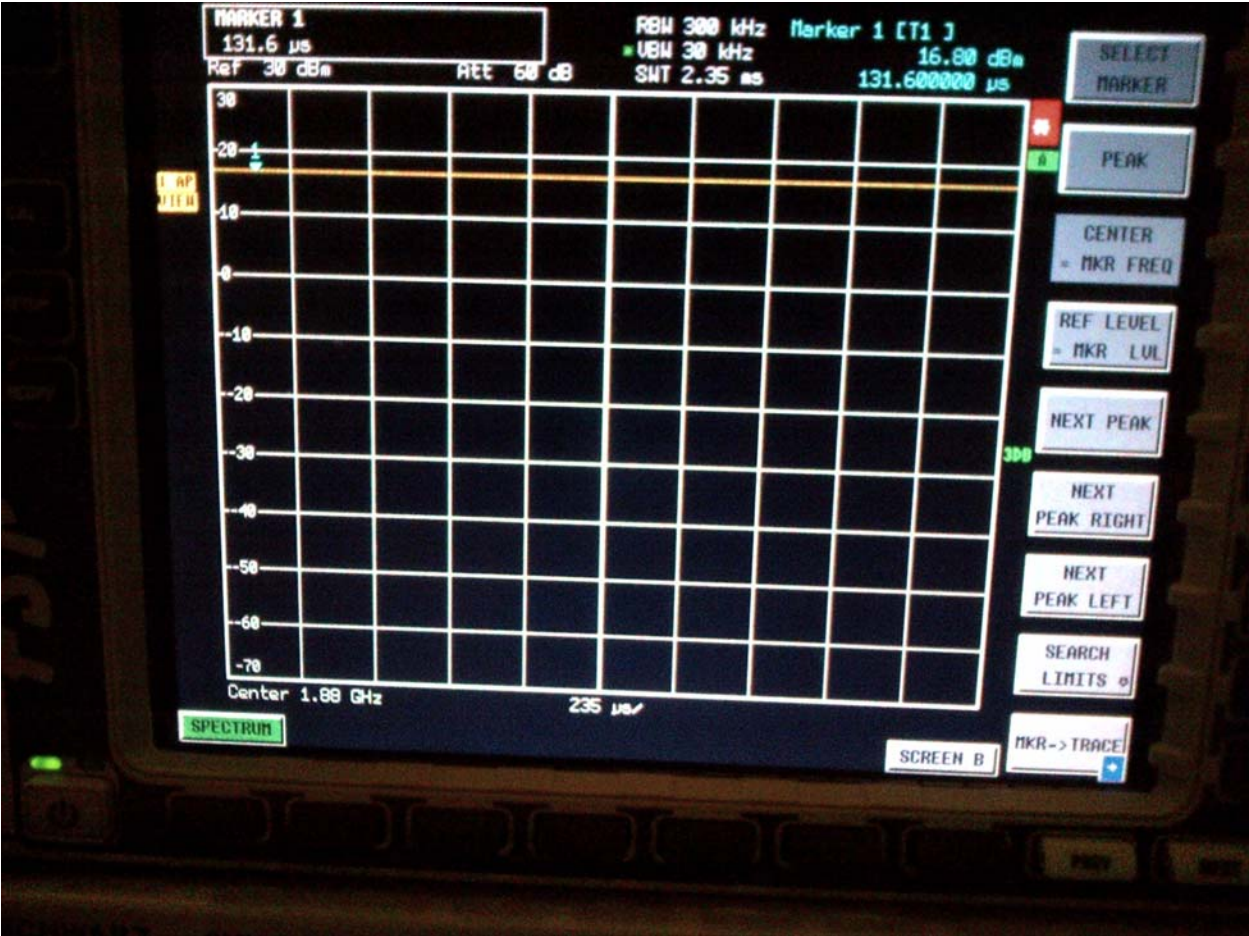
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GSM 1880 MHz

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CW 1880 MHz

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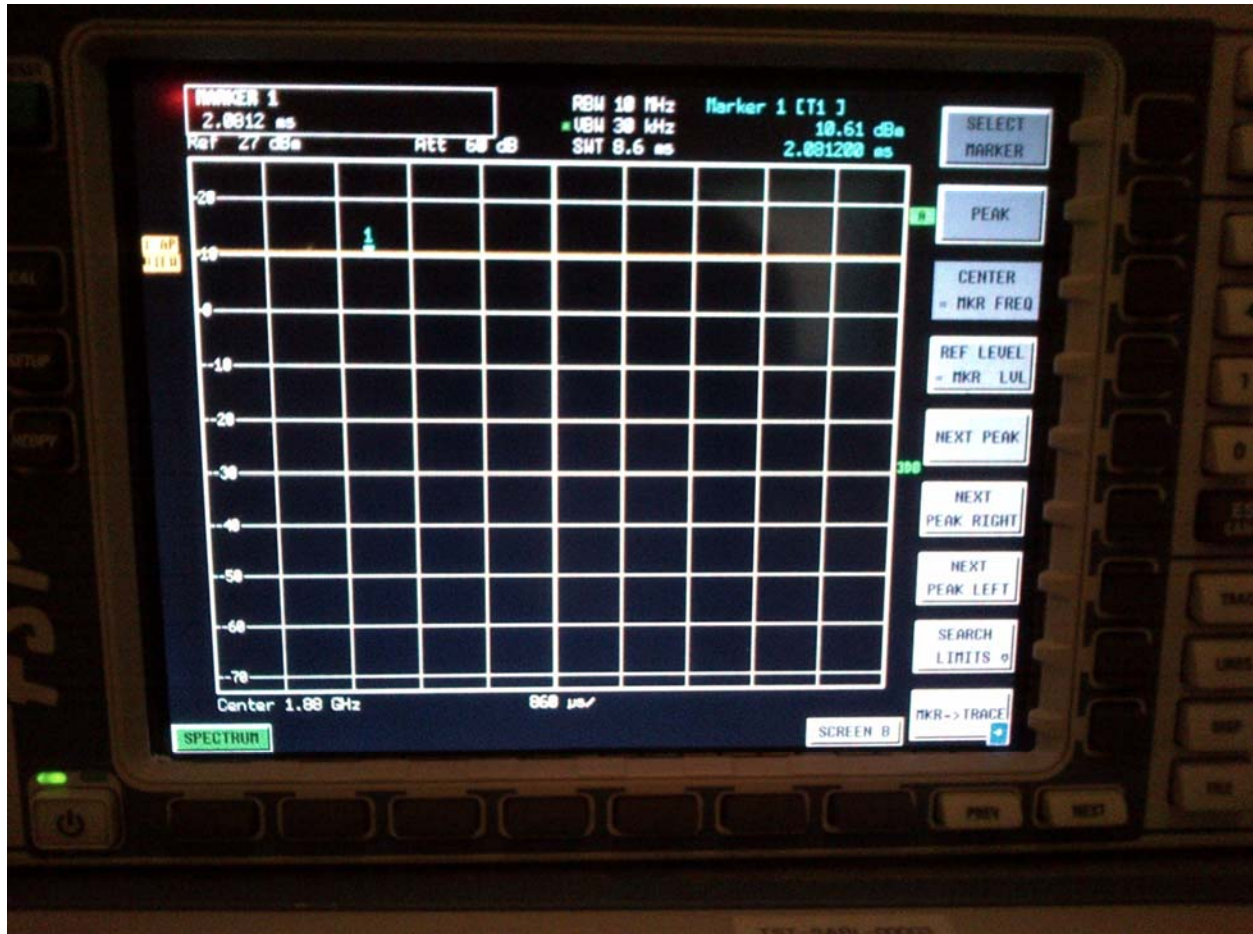
AM 80 % 1880 MHz

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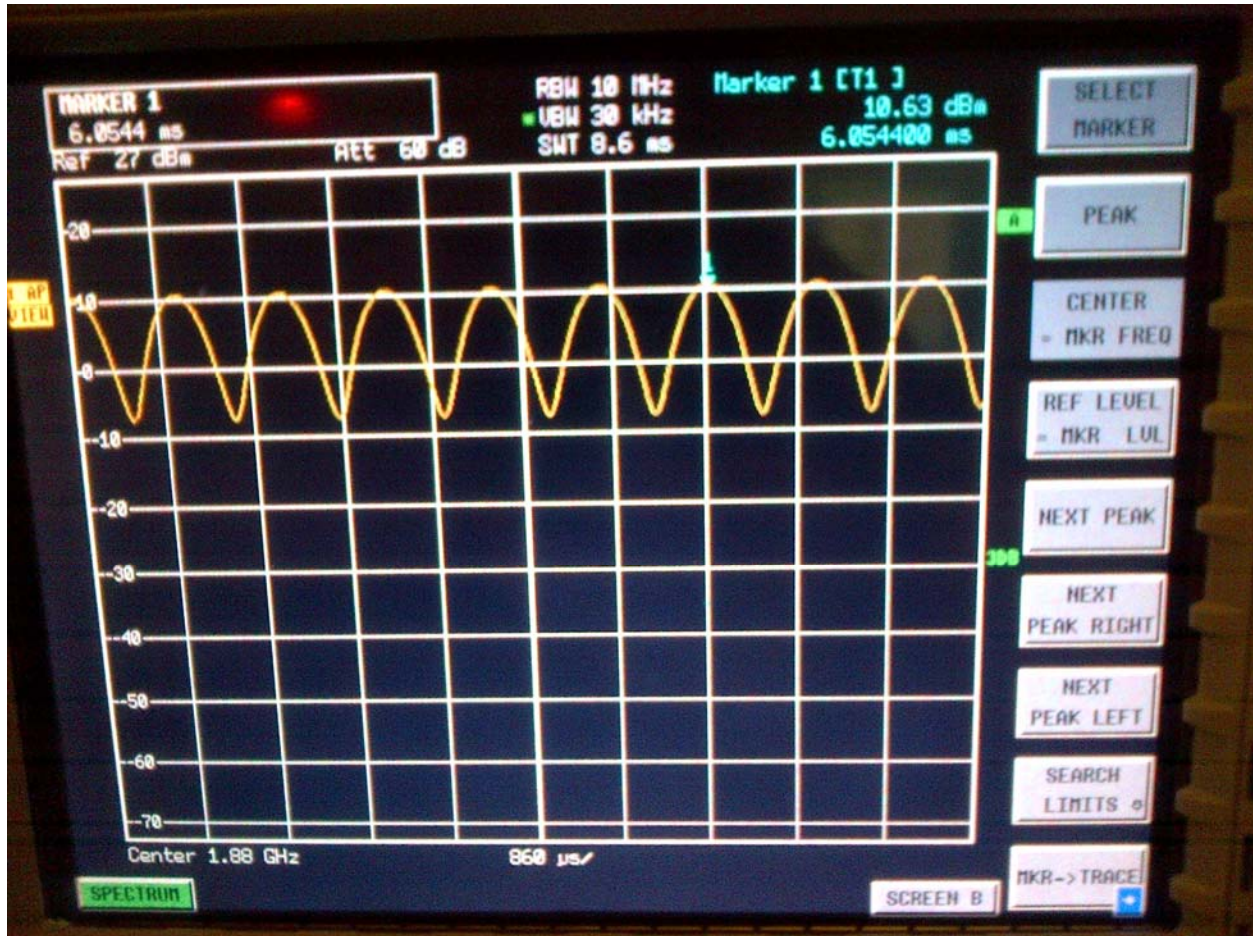
UMTS 1880 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFM121LW		Page 16 (154)
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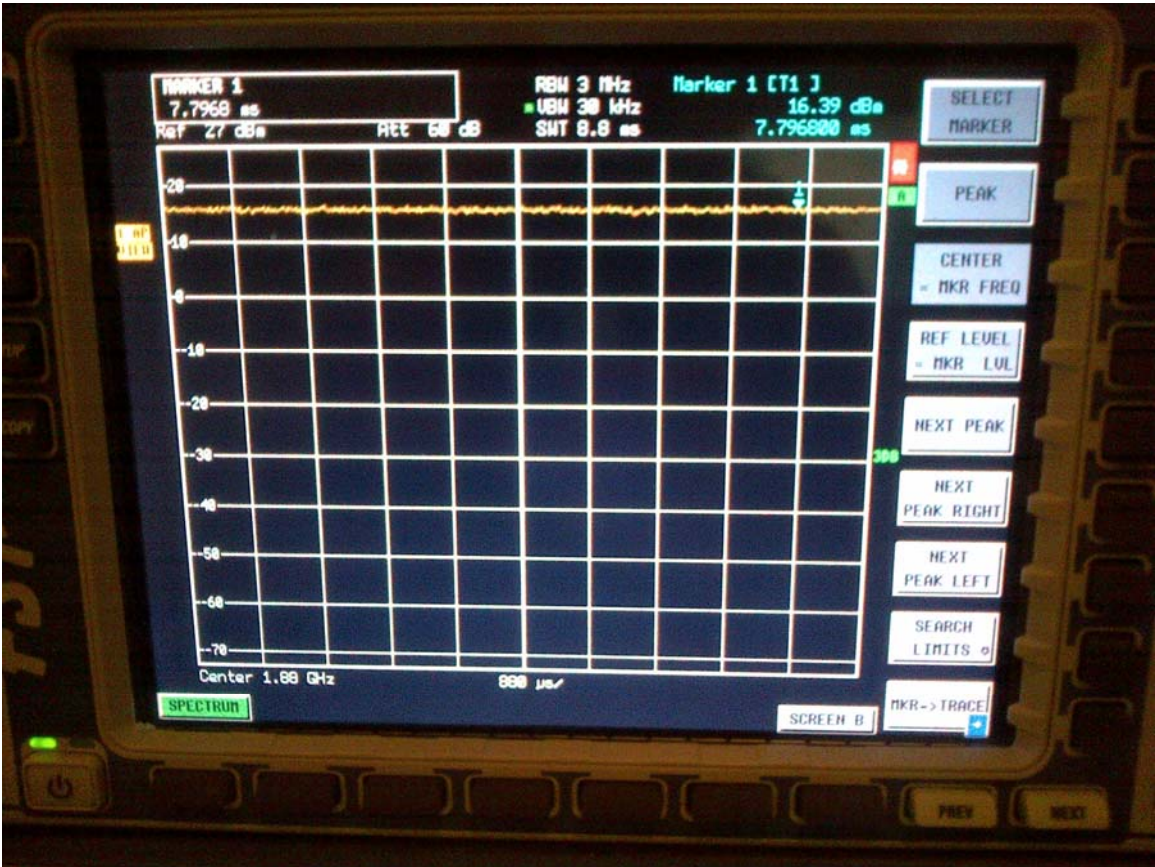
CW 1880 MHz

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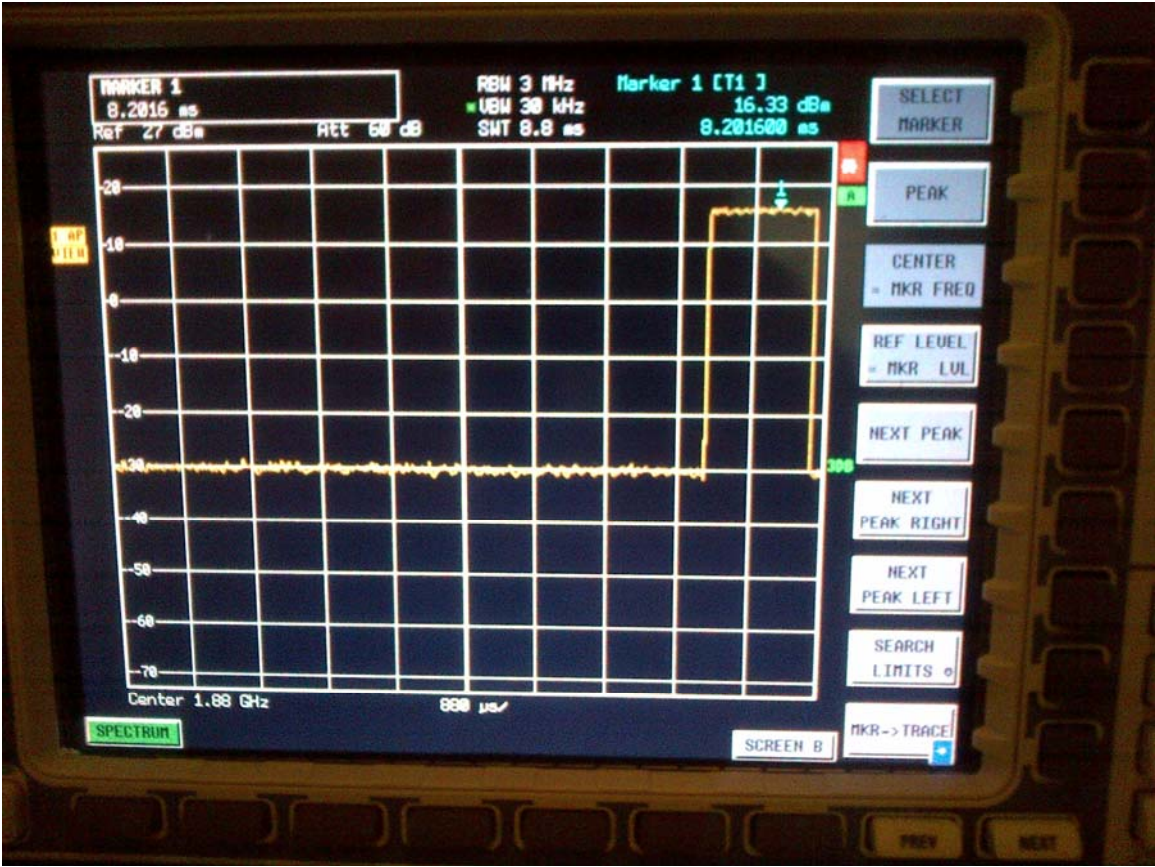
AM 80 % 1880 MHz

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CDMA 1880 MHz (BC1)

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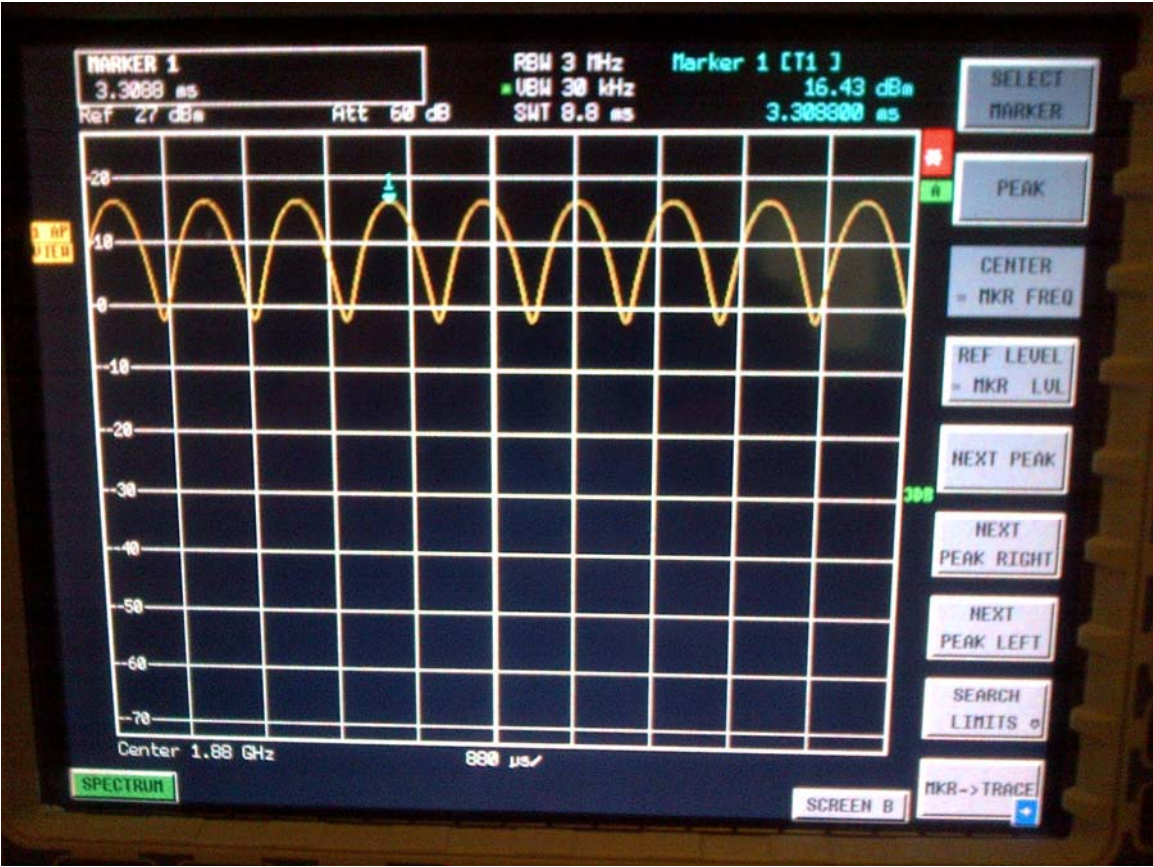
CDMA 1880 MHz (BC1) 1/8 th

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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: 4/3/2013 3:14:37 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_835 MHz_04_03_13

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1011

Communication System: CW; Frequency: 835 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), $z = 4.7$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

(41x361x1): Interpolated grid: $dx=0.5000$ mm, $dy=0.5000$ mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 106.4 V/m; Power Drift = 0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 167.6 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 159.3 V/m	Grid 2 M4 167.1 V/m	Grid 3 M4 166.4 V/m
Grid 4 M4 85.12 V/m	Grid 5 M4 87.66 V/m	Grid 6 M4 86.00 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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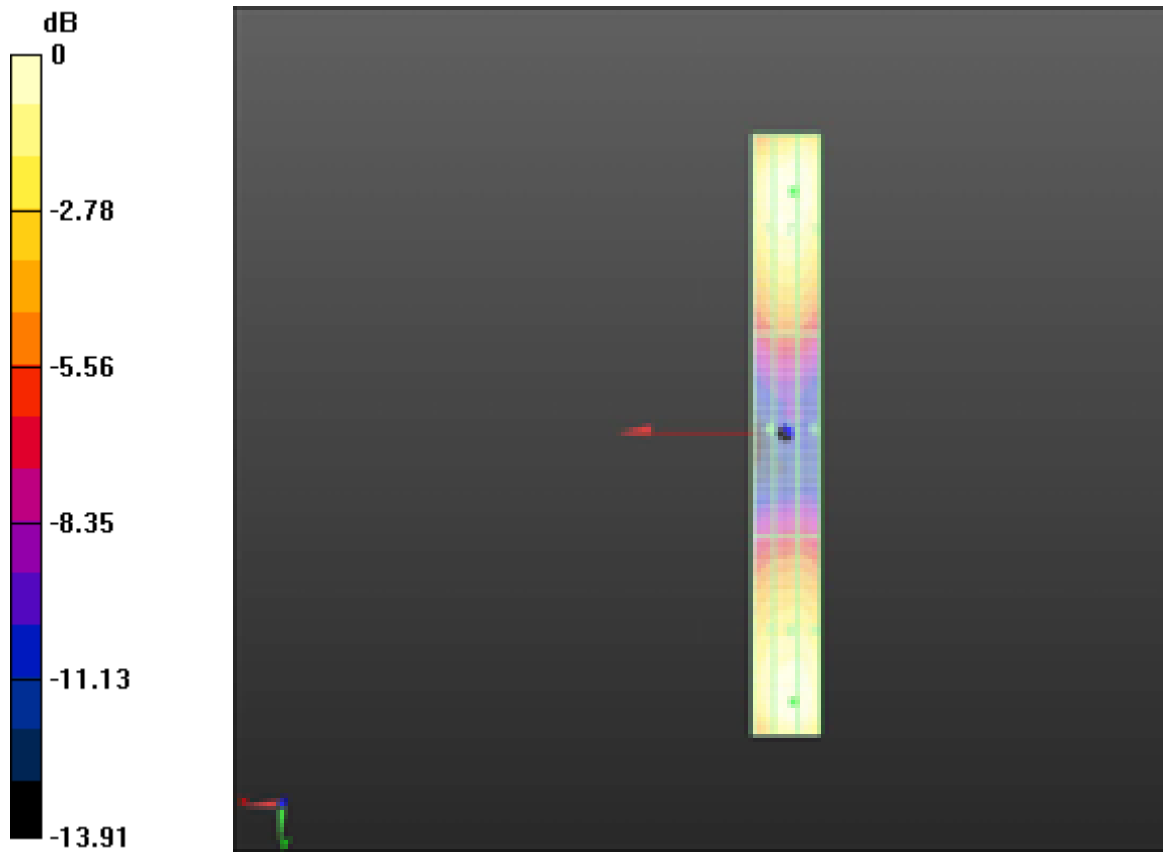
154.8 V/m	167.6 V/m	167.2 V/m
------------------	------------------	------------------

Cursor:

Total = 167.6 V/m

E Category: M4

Location: -2.5, 80, 4.7 mm



0 dB = 167.6 V/m = 44.49 dBV/m

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Date/Time: 6/28/2012 1:13:34 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_GSM835 MHz_06_28_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: GSM 835_PMF, Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz

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)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), $z = 4.7$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole E-Field measurement/E Scan - GSM 835_PMF/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 34.76 V/m; Power Drift = -0.00 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 54.25 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 49.26 V/m	Grid 2 M4 51.48 V/m	Grid 3 M4 51.48 V/m
Grid 4 M4 27.95 V/m	Grid 5 M4 28.56 V/m	Grid 6 M4 28.13 V/m
Grid 7 M4 51.48 V/m	Grid 8 M4 54.25 V/m	Grid 9 M4 53.95 V/m

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Cursor:

Total = 54.247 V/m

E Category: M4

Location: -2.5, 80.5, 4.7 mm

**Dipole E-Field measurement/E Scan - CW 835_PMF/Hearing Aid
Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 103.0 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 162.8 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 148.5 V/m	Grid 2 M4 160.5 V/m	Grid 3 M4 160.4 V/m
Grid 4 M4 82.74 V/m	Grid 5 M4 86.24 V/m	Grid 6 M4 84.62 V/m
Grid 7 M4 158.1 V/m	Grid 8 M4 162.8 V/m	Grid 9 M4 155.2 V/m

Cursor:

Total = 162.8 V/m

E Category: M4

Location: 0.5, 79.5, 4.7 mm

**Dipole E-Field measurement/E Scan - AM80%_ 835_PMF/Hearing
Aid Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 64.73 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 102.0 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 93.30 V/m	Grid 2 M4 100.3 V/m	Grid 3 M4 100.3 V/m
Grid 4 M4	Grid 5 M4	Grid 6 M4

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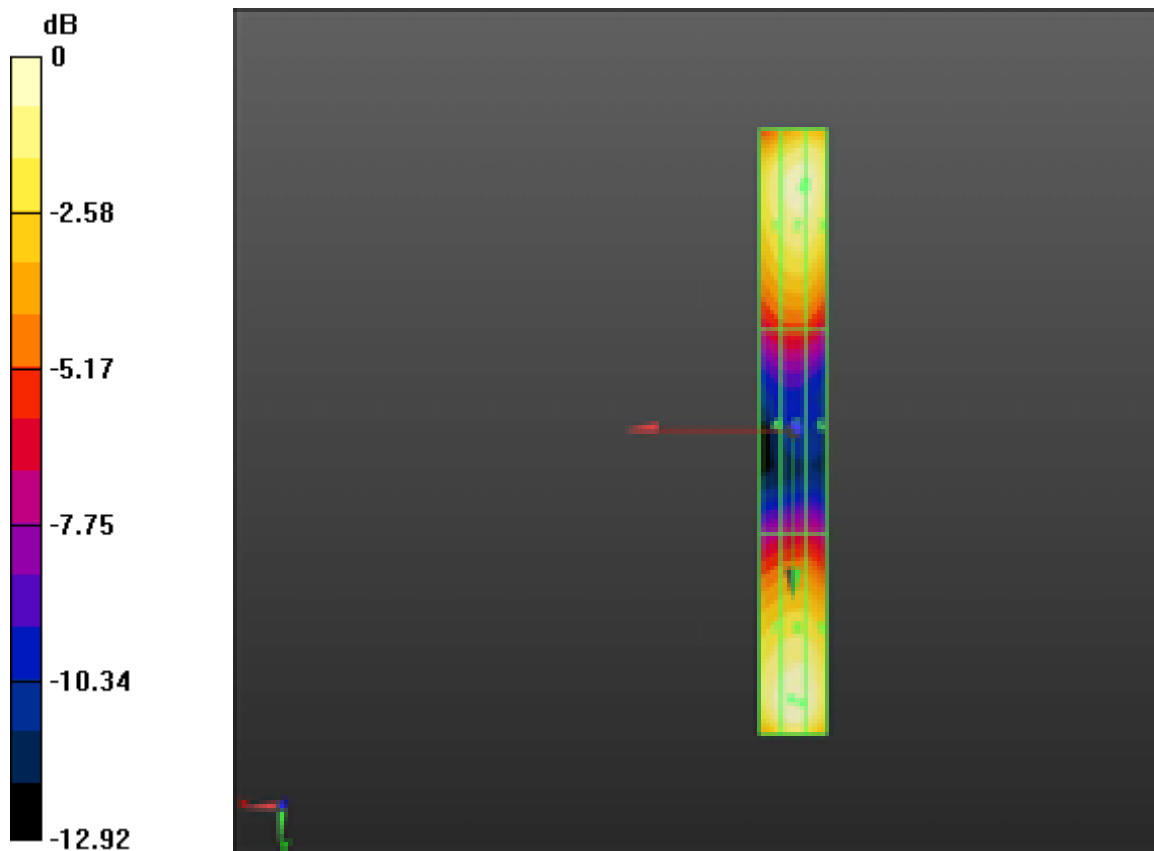
52.75 V/m	54.62 V/m	53.83 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
99.38 V/m	102.0 V/m	97.92 V/m

Cursor:

Total = 102.0 V/m

E Category: M4

Location: 0.5, 79.5, 4.7 mm



0 dB = 54.250V/m = 34.69 dB V/m

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Date/Time: 2/17/2012 12:24:15 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_UMTS835 MHz_02_17_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: WCDMA FDD V, Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz

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)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole E-Field measurement/E Scan - UMTS 835_PMF/Hearing Aid Compatibility Test (41x361x1):

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 41.08 V/m; Power Drift = 0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 64.41 V/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled E-field

Grid 1 M4 53.11 V/m	Grid 2 M4 55.59 V/m	Grid 3 M4 55.40 V/m
Grid 4 M4 29.72 V/m	Grid 5 M4 30.66 V/m	Grid 6 M4 29.79 V/m
Grid 7 M4 61.55 V/m	Grid 8 M4 64.41 V/m	Grid 9 M4 63.22 V/m

Cursor:

Total = 64.412 V/m

E Category: M4

Location: -0.5, 79, 4.7 mm

**Dipole E-Field measurement/E Scan - CW 835_PMF/Hearing Aid
Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 43.11 V/m; Power Drift = -0.14 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 68.64 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 58.55 V/m	Grid 2 M4 59.20 V/m	Grid 3 M4 57.13 V/m
Grid 4 M4 32.35 V/m	Grid 5 M4 32.63 V/m	Grid 6 M4 31.24 V/m
Grid 7 M4 61.85 V/m	Grid 8 M4 68.64 V/m	Grid 9 M4 68.56 V/m

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Cursor:

Total = 68.635 V/m

E Category: M4

Location: -3, 79.5, 4.7 mm

Dipole E-Field measurement/E Scan - AM80%_ 835_PMF/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 28.41 V/m; Power Drift = 0.09 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 45.21 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 38.28 V/m	Grid 2 M4 38.73 V/m	Grid 3 M4 37.25 V/m
Grid 4 M4 21.72 V/m	Grid 5 M4 21.89 V/m	Grid 6 M4 20.80 V/m
Grid 7 M4 40.90 V/m	Grid 8 M4 45.21 V/m	Grid 9 M4 45.16 V/m

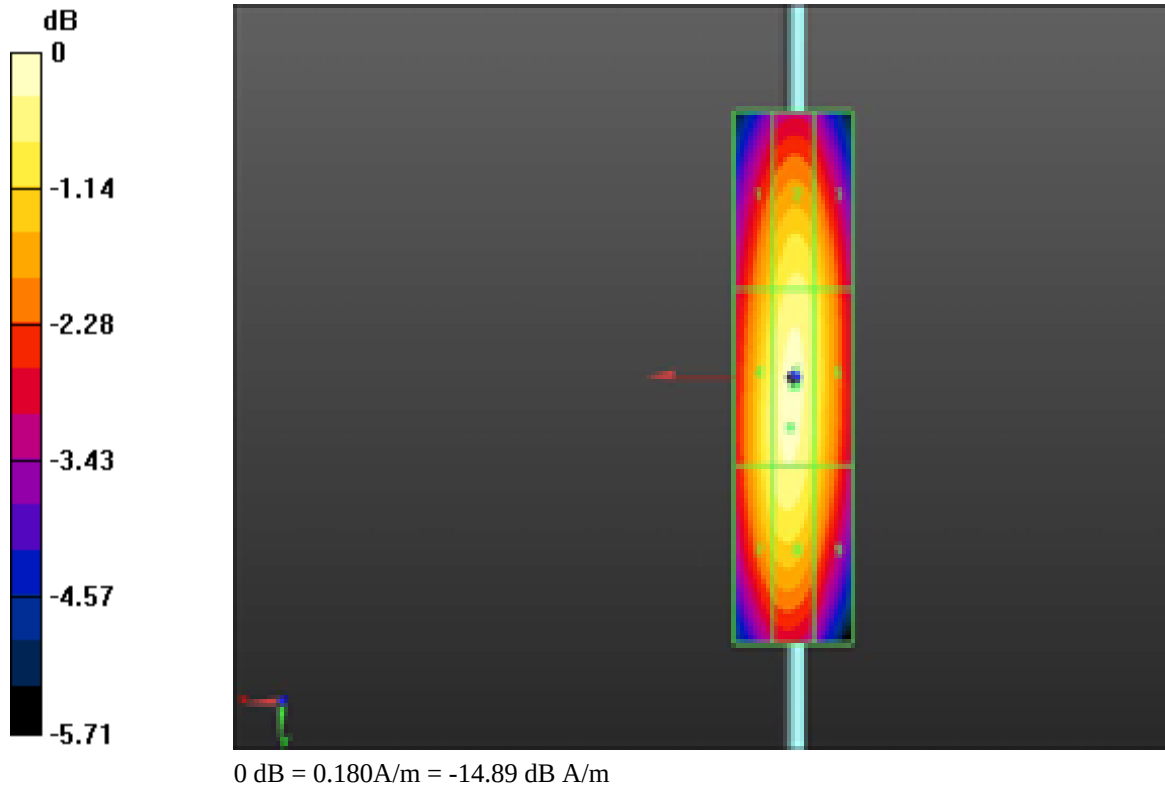
Cursor:

Total = 45.209 V/m

E Category: M4

Location: -3, 79.5, 4.7 mm

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Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CDMA835 MHz_02_29_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: CDMA 850, Communication System: CDMA 850 1/8th,

Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz

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)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole E-Field measurement/E Scan - CDMA FR 835_PMF/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 79.95 V/m; Power Drift = -0.18 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 118.9 V/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled E-field

Grid 1 M4 104.7 V/m	Grid 2 M4 108.7 V/m	Grid 3 M4 107.6 V/m
Grid 4 M4 56.56 V/m	Grid 5 M4 57.99 V/m	Grid 6 M4 56.06 V/m
Grid 7 M4 112.0 V/m	Grid 8 M4 118.9 V/m	Grid 9 M4 116.1 V/m

Cursor:

Total = 118.9 V/m

E Category: M4

Location: -0.5, 79, 4.7 mm

Dipole E-Field measurement/E Scan - CDMA 1/8th 835_PMF 2/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 30.10 V/m; Power Drift = 0.23 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 43.21 V/m

Near-field category: **M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 M4 39.00 V/m	Grid 2 M4 41.81 V/m	Grid 3 M4 39.31 V/m
Grid 4 M4 20.47 V/m	Grid 5 M4 22.99 V/m	Grid 6 M4 20.34 V/m
Grid 7 M4 41.05 V/m	Grid 8 M4 43.21 V/m	Grid 9 M4 42.62 V/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFM121LW		Page 34 (154)
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Cursor:

Total = 43.214 V/m

E Category: M4

Location: -0.5, 84, 4.7 mm

Dipole E-Field measurement/E Scan - CW 835_PMF/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 82.56 V/m; Power Drift = -0.07 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 125.5 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 110.7 V/m	Grid 2 M4 114.9 V/m	Grid 3 M4 113.7 V/m
Grid 4 M4 60.24 V/m	Grid 5 M4 61.44 V/m	Grid 6 M4 59.31 V/m
Grid 7 M4 119.5 V/m	Grid 8 M4 125.5 V/m	Grid 9 M4 122.3 V/m

Cursor:

Total = 125.5 V/m

E Category: M4

Location: -0.5, 79, 4.7 mm

Dipole E-Field measurement/E Scan - AM80%_ 835_PMF/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 51.22 V/m; Power Drift = 0.06 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 78.06 V/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled E-field

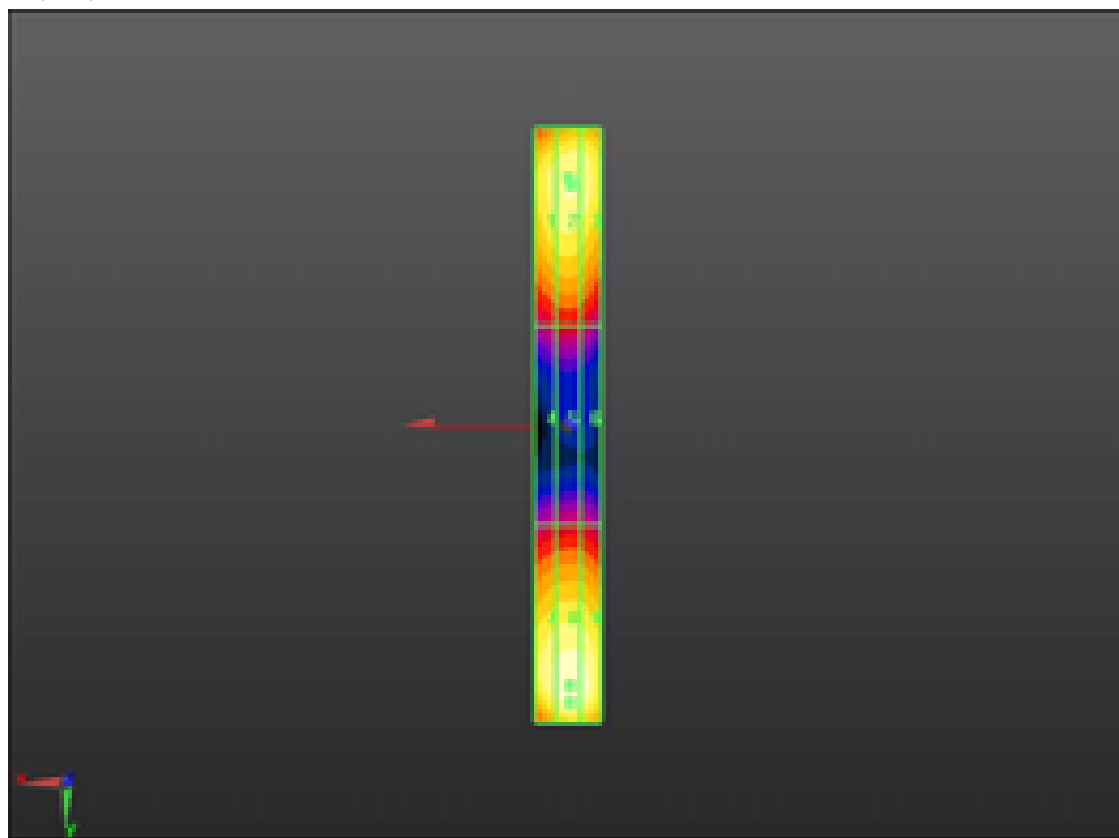
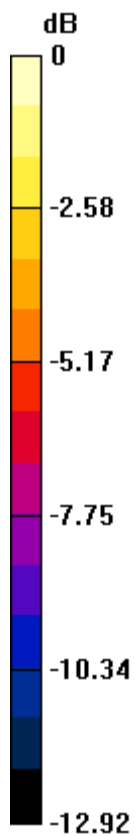
Grid 1 M4 69.60 V/m	Grid 2 M4 71.98 V/m	Grid 3 M4 71.35 V/m
Grid 4 M4 38.16 V/m	Grid 5 M4 38.79 V/m	Grid 6 M4 37.51 V/m
Grid 7 M4 74.44 V/m	Grid 8 M4 78.06 V/m	Grid 9 M4 76.37 V/m

Cursor:

Total = 78.060 V/m

E Category: M4

Location: -0.5, 79, 4.7 mm



0 dB = 118.9V/m = 41.50 dB V/m

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Date/Time: 4/3/2013 3:42:14 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz_04_03_13

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: CW; Frequency: 1880 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), $z = 4.7$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

(41x181x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 141.6 V/m; Power Drift = -0.00 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 129.8 V/m

Near-field category: M2 (AWF 0 dB)

PMF scaled E-field

Grid 1 M2 117.1 V/m	Grid 2 M2 125.5 V/m	Grid 3 M2 125.4 V/m
Grid 4 M3 82.24 V/m	Grid 5 M3 86.18 V/m	Grid 6 M3 85.16 V/m
Grid 7 M2	Grid 8 M2	Grid 9 M2

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		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFM121LW		Page 37 (154)
Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013		Report No RTS-6026-1304-09	FCC ID L6ARFM120LW

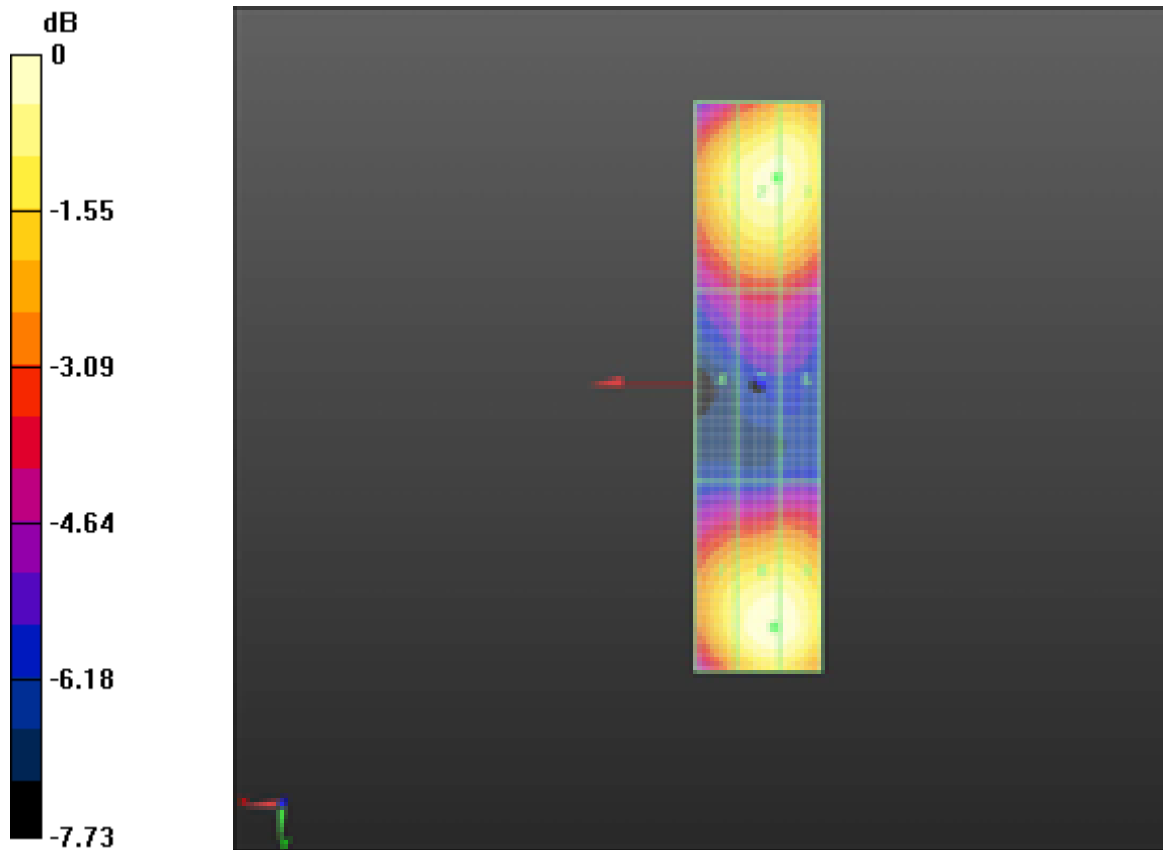
117.9 V/m	129.8 V/m	129.4 V/m
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Cursor:

Total = 129.8 V/m

E Category: M2

Location: -2.5, 38, 4.7 mm



0 dB = 129.8 V/m = 42.27 dBV/m

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Date/Time: 6/28/2012 12:54:33 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_GSM1880 MHz_06_28_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: GSM 1880, Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz

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)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), $z = 4.7$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole E-Field measurement/E Scan - GSM 1880_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 33.26 V/m; Power Drift = 0.00 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 29.81 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 27.34 V/m	Grid 2 M4 28.65 V/m	Grid 3 M4 28.59 V/m
Grid 4 M4 19.83 V/m	Grid 5 M4 20.51 V/m	Grid 6 M4 20.10 V/m
Grid 7 M4 28.20 V/m	Grid 8 M4 29.81 V/m	Grid 9 M4 29.37 V/m

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Cursor:

Total = 29.810 V/m

E Category: M4

Location: -1, 38.5, 4.7 mm

**Dipole E-Field measurement/E Scan- CW 1800_PMF/Hearing Aid
Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 95.34 V/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 84.88 V/m

Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

Grid 1 M3 78.80 V/m	Grid 2 M3 82.95 V/m	Grid 3 M3 82.43 V/m
Grid 4 M4 56.84 V/m	Grid 5 M4 58.53 V/m	Grid 6 M4 56.53 V/m
Grid 7 M3 80.11 V/m	Grid 8 M3 84.88 V/m	Grid 9 M3 83.31 V/m

Cursor:

Total = 84.885 V/m

E Category: M3

Location: -0.5, 38.5, 4.7 mm

**Dipole E-Field measurement/E Scan - AM80%_ 1880_PMF/Hearing
Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 60.62 V/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 53.60 V/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled E-field

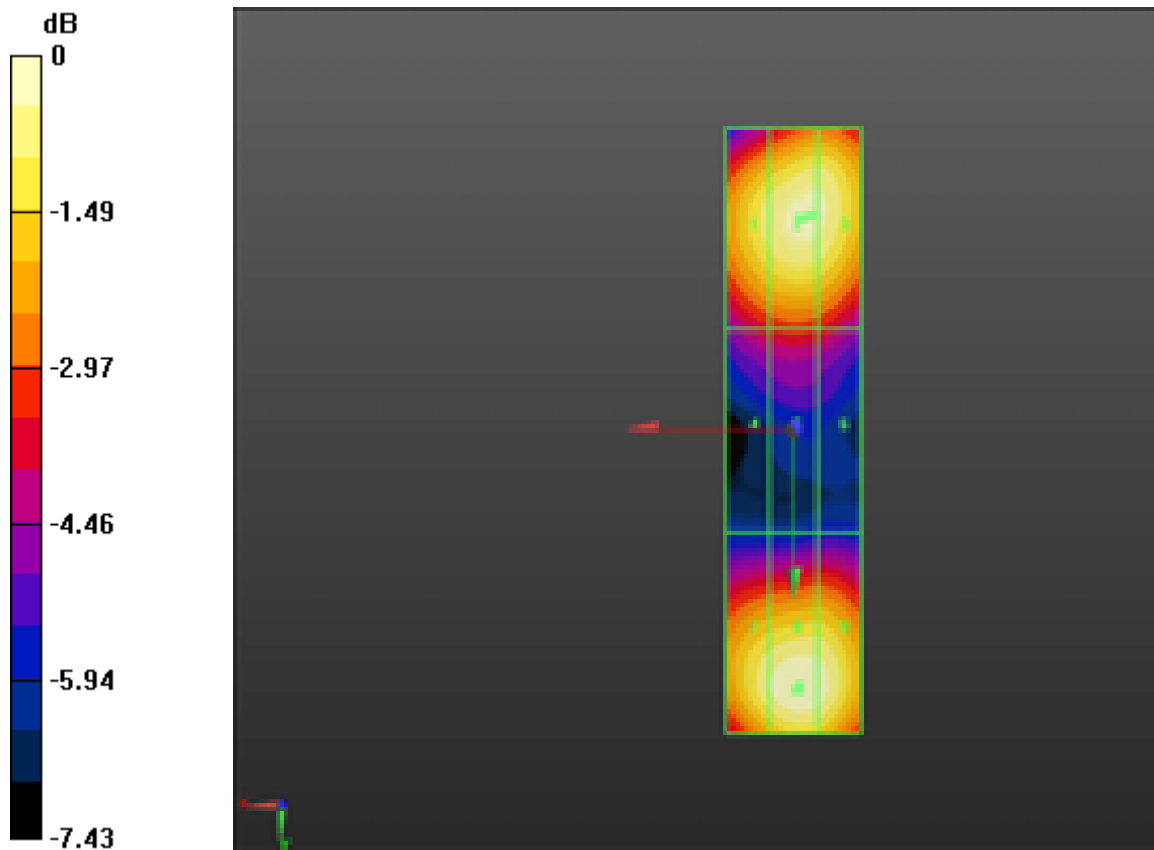
Grid 1 M4 49.75 V/m	Grid 2 M4 52.55 V/m	Grid 3 M4 52.06 V/m
Grid 4 M4 35.78 V/m	Grid 5 M4 36.92 V/m	Grid 6 M4 36.02 V/m
Grid 7 M4 50.66 V/m	Grid 8 M4 53.60 V/m	Grid 9 M4 52.63 V/m

Cursor:

Total = 53.599 V/m

E Category: M4

Location: -1, 38, 4.7 mm



0 dB = 29.810V/m = 29.49 dB V/m

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Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW	

Date/Time: 2/17/2012 2:20:23 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_UMTS1880 MHz_02_17_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: WCDMA FDD II, Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz

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)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole E-Field measurement/E Scan - UMTS 1880_PMF/Hearing Aid Compatibility Test (41x181x1):

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 47.02 V/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 42.43 V/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled E-field

Grid 1 M4 37.98 V/m	Grid 2 M4 39.42 V/m	Grid 3 M4 39.04 V/m
Grid 4 M4 26.86 V/m	Grid 5 M4 27.50 V/m	Grid 6 M4 26.70 V/m
Grid 7 M4 39.63 V/m	Grid 8 M4 42.43 V/m	Grid 9 M4 41.87 V/m

Cursor:

Total = 42.427 V/m

E Category: M4

Location: -1, 38, 4.7 mm

**Dipole E-Field measurement/E Scan- CW 1800_PMF/Hearing Aid
Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 47.33 V/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 42.41 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 38.23 V/m	Grid 2 M4 39.51 V/m	Grid 3 M4 39.41 V/m
Grid 4 M4 26.94 V/m	Grid 5 M4 27.41 V/m	Grid 6 M4 26.77 V/m
Grid 7 M4 40.02 V/m	Grid 8 M4 42.41 V/m	Grid 9 M4 41.99 V/m

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Cursor:

Total = 42.409 V/m

E Category: M4

Location: -1.5, 38, 4.7 mm

**Dipole E-Field measurement/E Scan - AM80%_ 1880_PMF/Hearing
Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 30.18 V/m; Power Drift = 0.06 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 27.40 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 24.40 V/m	Grid 2 M4 25.26 V/m	Grid 3 M4 24.95 V/m
Grid 4 M4 17.20 V/m	Grid 5 M4 17.65 V/m	Grid 6 M4 17.12 V/m
Grid 7 M4 25.54 V/m	Grid 8 M4 27.40 V/m	Grid 9 M4 27.02 V/m

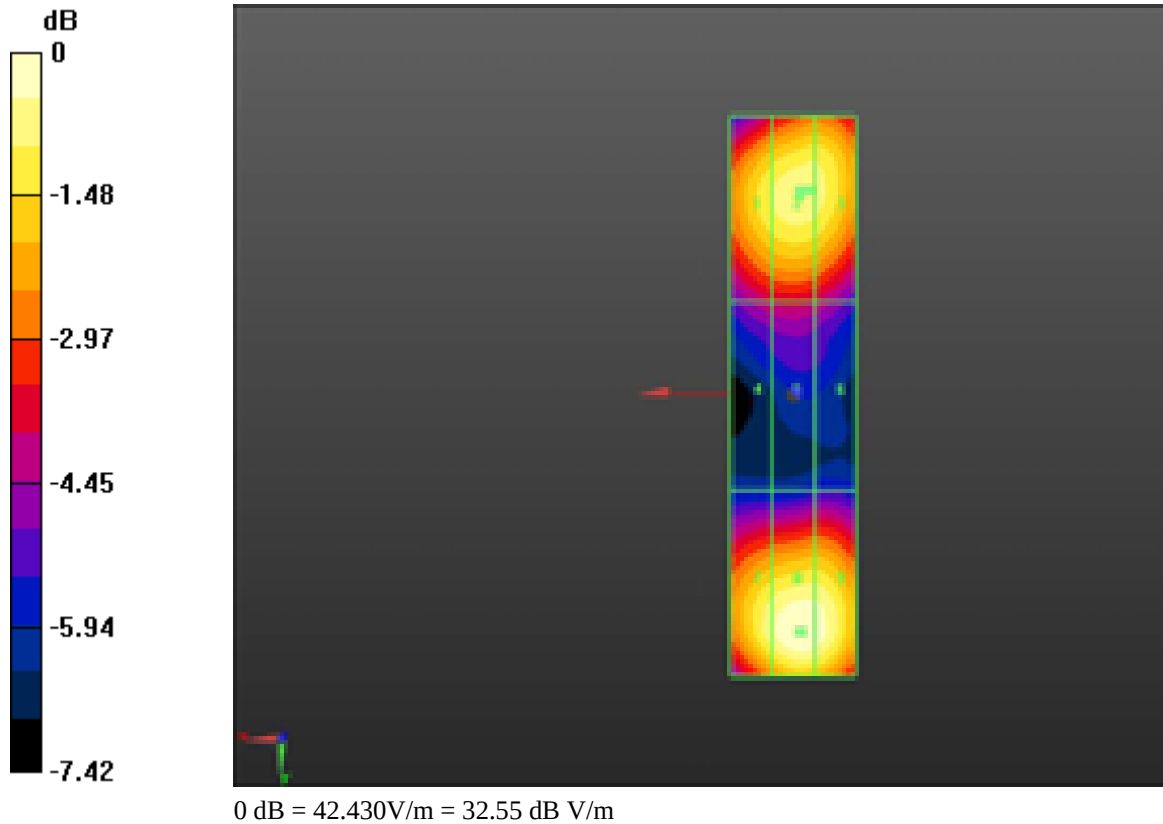
Cursor:

Total = 27.402 V/m

E Category: M4

Location: -1, 38, 4.7 mm

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Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW	

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CDMA1880 MHz_02_29_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: CDMA 1900, Communication System: CDMA 1900 1/8th,

Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz

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)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole E-Field measurement/E Scan - CDMA FR 1880_PMF/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 87.80 V/m; Power Drift = 0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 80.60 V/m

Near-field category: M3 (AWF 0 dB)

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Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW	

PMF scaled E-field

Grid 1 M3 73.45 V/m	Grid 2 M3 76.11 V/m	Grid 3 M3 74.97 V/m
Grid 4 M4 50.62 V/m	Grid 5 M4 51.75 V/m	Grid 6 M4 50.16 V/m
Grid 7 M3 76.91 V/m	Grid 8 M3 80.60 V/m	Grid 9 M3 78.58 V/m

Cursor:

Total = 80.601 V/m

E Category: M3

Location: -0.5, 37.5, 4.7 mm

Dipole E-Field measurement/E Scan - CDMA 1/8th 1880_PMF 2/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 30.81 V/m; Power Drift = 0.09 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 30.61 V/m

Near-field category: **M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 M4 28.31 V/m	Grid 2 M4 30.22 V/m	Grid 3 M4 28.54 V/m
Grid 4 M4 18.23 V/m	Grid 5 M4 20.72 V/m	Grid 6 M4 18.32 V/m
Grid 7 M4 26.79 V/m	Grid 8 M4 30.61 V/m	Grid 9 M4 30.61 V/m

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Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW	

Cursor:

Total = 30.614 V/m

E Category: M4

Location: -3.5, 36, 4.7 mm

Dipole E-Field measurement/E Scan- CW 1880_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 90.26 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 81.58 V/m

Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

Grid 1 M3 75.79 V/m	Grid 2 M3 78.08 V/m	Grid 3 M3 77.27 V/m
Grid 4 M4 52.44 V/m	Grid 5 M4 53.31 V/m	Grid 6 M4 51.71 V/m
Grid 7 M3 78.00 V/m	Grid 8 M3 81.58 V/m	Grid 9 M3 79.79 V/m

Cursor:

Total = 81.580 V/m

E Category: M3

Location: -0.5, 37.5, 4.7 mm

Dipole E-Field measurement/E Scan - AM80%_ 1880_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 56.79 V/m; Power Drift = 0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 52.04 V/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled E-field

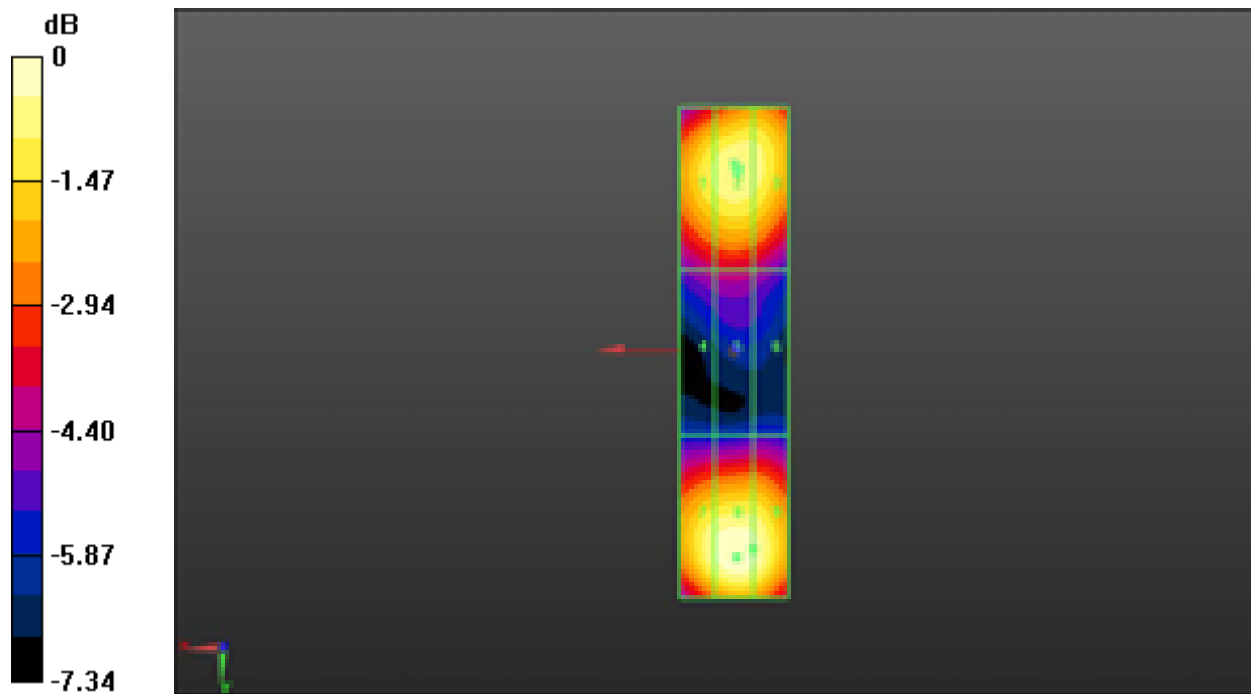
Grid 1 M4 47.54 V/m	Grid 2 M4 49.44 V/m	Grid 3 M4 48.95 V/m
Grid 4 M4 33.05 V/m	Grid 5 M4 33.87 V/m	Grid 6 M4 32.89 V/m
Grid 7 M4 49.67 V/m	Grid 8 M4 52.04 V/m	Grid 9 M4 50.92 V/m

Cursor:

Total = 52.041 V/m

E Category: M4

Location: -0.5, 37.5, 4.7 mm



0 dB = 80.600V/m = 38.13 dB V/m

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Date/Time: 4/4/2013 2:08:45 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_835 MHz_04_04_13

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1011

Communication System: CW; Frequency: 835 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), $z = 4.7$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.4930 A/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.4665 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

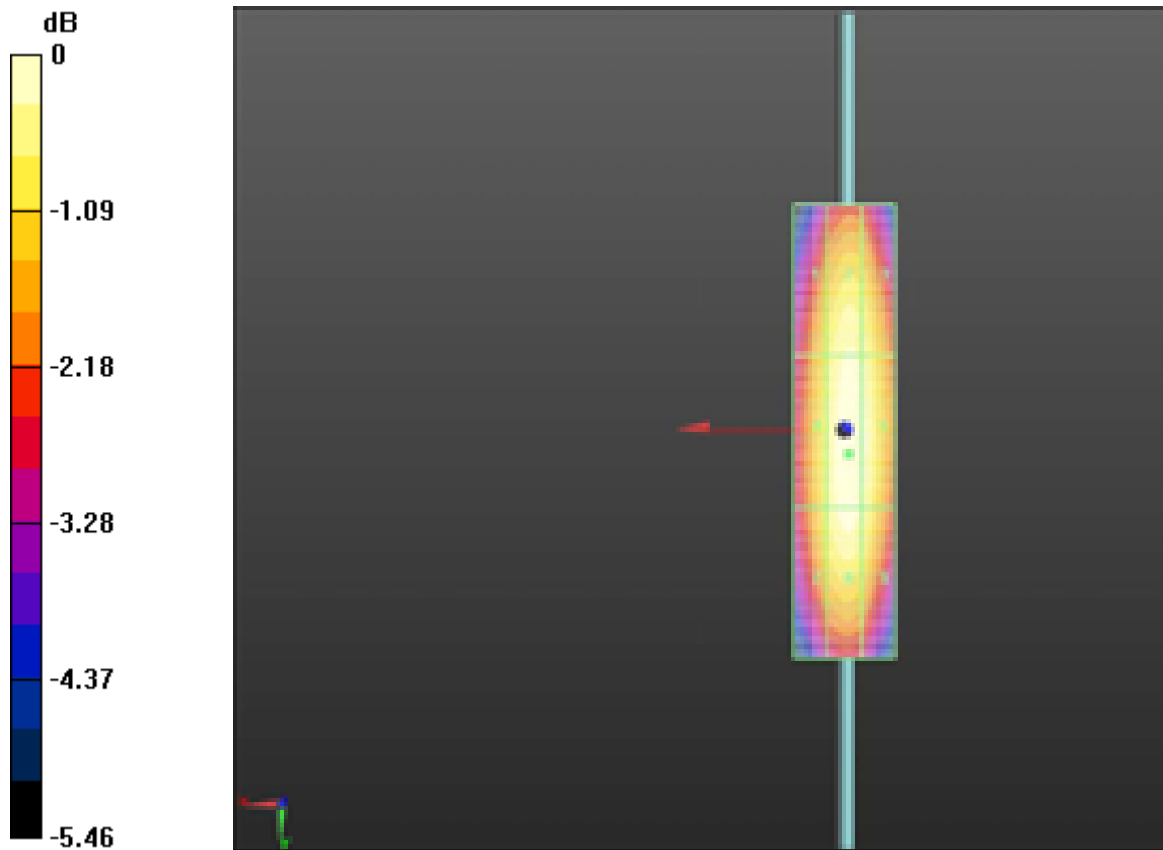
Grid 1 M4 0.417 A/m	Grid 2 M4 0.450 A/m	Grid 3 M4 0.442 A/m
Grid 4 M4 0.429 A/m	Grid 5 M4 0.466 A/m	Grid 6 M4 0.456 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFM121LW		Page 50 (154)
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0.426 A/m	0.459 A/m	0.445 A/m
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Cursor:
Total = 0.4665 A/m
H Category: M4
Location: -1, 4.5, 4.7 mm



0 dB = 0.4665 A/m = -6.62 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFM121LW		Page 51 (154)
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Date/Time: 6/28/2012 11:48:13 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_GSM835 MHz_06_28_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: GSM 835_PMF, Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz
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)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole H-Field measurement with H3DV6 probe/H Scan - GSM

835_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.17 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.16 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.15 A/m	Grid 2 M4 0.16 A/m	Grid 3 M4 0.15 A/m
Grid 4 M4	Grid 5 M4	Grid 6 M4

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0.16 A/m	0.16 A/m	0.16 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
0.15 A/m	0.16 A/m	0.15 A/m

Cursor:

Total = 0.163 A/m

H Category: M4

Location: 0, 8.5, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan - CW

835_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.28 V/m; Power Drift = 0.08 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.47 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4	Grid 2 M4	Grid 3 M4
0.44 A/m	0.46 A/m	0.44 A/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
0.45 A/m	0.47 A/m	0.45 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
0.45 A/m	0.47 A/m	0.44 A/m

Cursor:

Total = 0.471 A/m

H Category: M4

Location: 0, 8, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan -

AM80%_PMF/Hearing Aid Compatibility Test (41x181x1):

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.32 V/m; Power Drift = 0.12 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.30 A/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled H-field

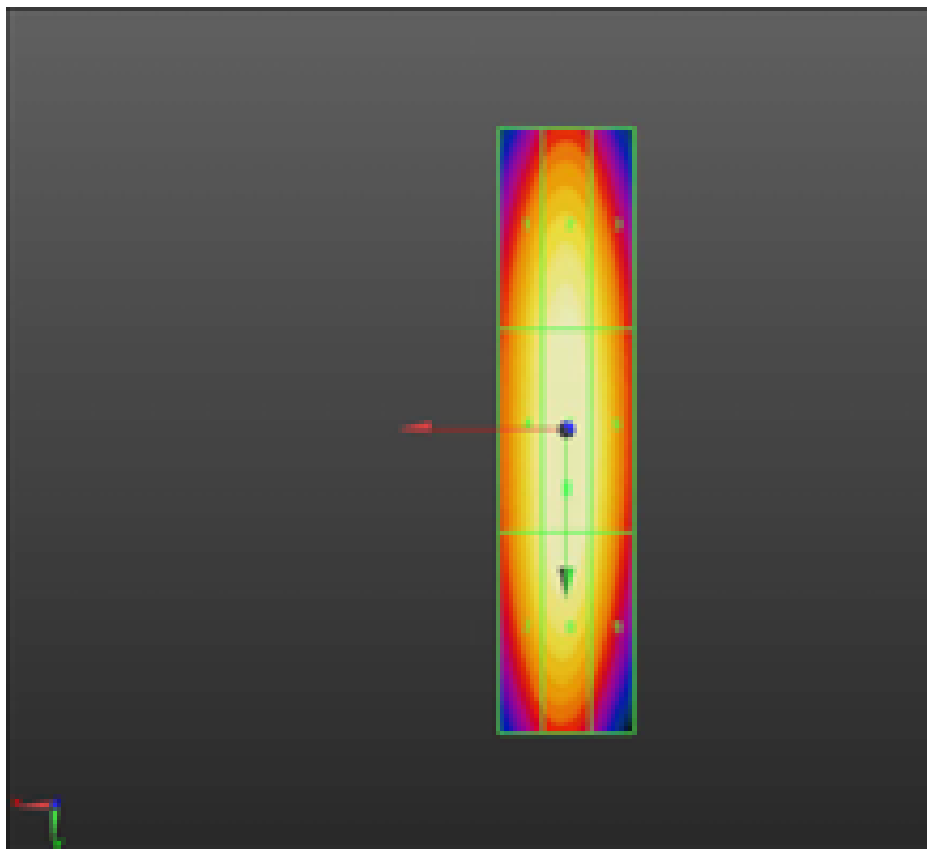
Grid 1 M4 0.28 A/m	Grid 2 M4 0.29 A/m	Grid 3 M4 0.28 A/m
Grid 4 M4 0.29 A/m	Grid 5 M4 0.30 A/m	Grid 6 M4 0.29 A/m
Grid 7 M4 0.29 A/m	Grid 8 M4 0.30 A/m	Grid 9 M4 0.28 A/m

Cursor:

Total = 0.304 A/m

H Category: M4

Location: 0, 9, 4.7 mm



0 dB = 0.160A/m = -15.92 dB A/m

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Date/Time: 2/17/2012 4:08:25 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_UMTS835 MHz_02_17_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: WCDMA FDD V, Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz

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)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole H-Field measurement with H3DV6 probe/H Scan - UMTS

835_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.19 V/m; Power Drift = 0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.18 A/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled H-field

Grid 1 M4 0.16 A/m	Grid 2 M4 0.17 A/m	Grid 3 M4 0.16 A/m
Grid 4 M4 0.17 A/m	Grid 5 M4 0.18 A/m	Grid 6 M4 0.17 A/m
Grid 7 M4 0.17 A/m	Grid 8 M4 0.18 A/m	Grid 9 M4 0.17 A/m

Cursor:

Total = 0.181 A/m

H Category: M4

Location: 0.5, 8.5, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan - CW

835_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.11 V/m; Power Drift = 0.08 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.20 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.17 A/m	Grid 2 M4 0.19 A/m	Grid 3 M4 0.18 A/m
Grid 4 M4 0.18 A/m	Grid 5 M4 0.20 A/m	Grid 6 M4 0.19 A/m
Grid 7 M4 0.18 A/m	Grid 8 M4 0.19 A/m	Grid 9 M4 0.18 A/m

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Cursor:

Total = 0.197 A/m

H Category: M4

Location: -0.5, 1, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan -
AM80%_PMF/Hearing Aid Compatibility Test (41x181x1):**

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.14 V/m; Power Drift = 0.10 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.13 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.11 A/m	Grid 2 M4 0.12 A/m	Grid 3 M4 0.12 A/m
Grid 4 M4 0.12 A/m	Grid 5 M4 0.13 A/m	Grid 6 M4 0.12 A/m
Grid 7 M4 0.12 A/m	Grid 8 M4 0.12 A/m	Grid 9 M4 0.12 A/m

Cursor:

Total = 0.127 A/m

H Category: M4

Location: 0, 1.5, 4.7 mm

Author Data

Daoud Attayi

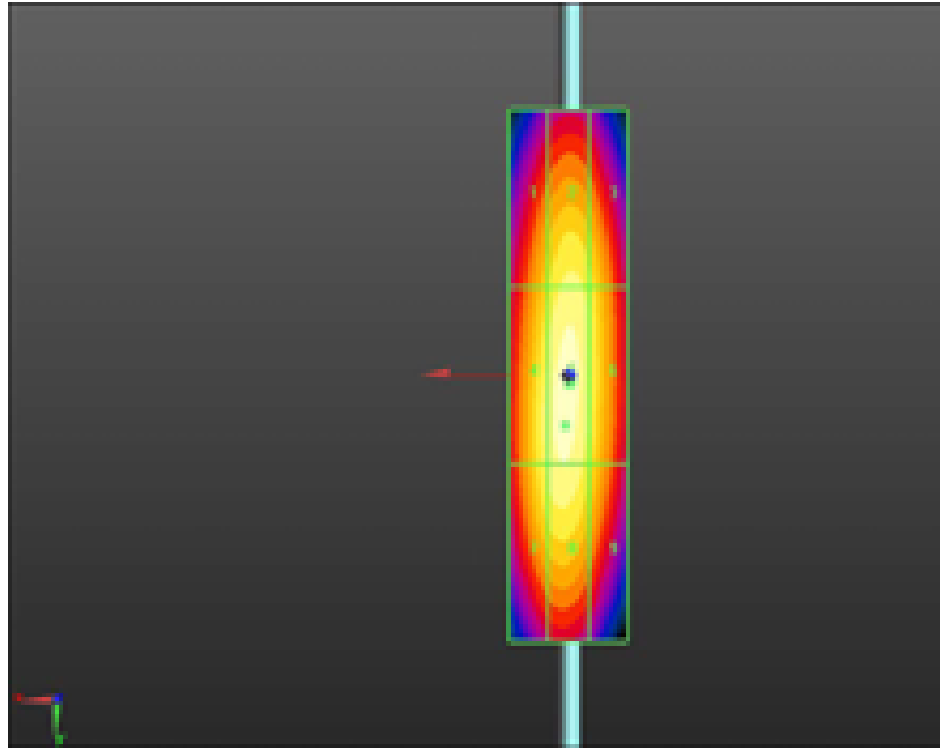
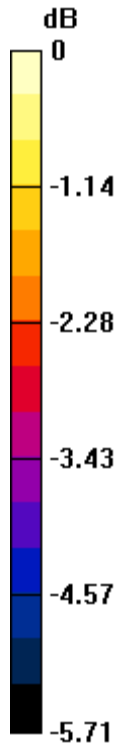
Dates of Test

**Feb. 17-29, June 28, 2012
April 03-04, 2013**

Report No

RTS-6026-1304-09

FCC ID

L6ARFM120LW


0 dB = 0.180A/m = -14.89 dB A/m

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Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CDMA835 MHz_02_29_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: CDMA 850, Communication System: CDMA 850 1/8th,

Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz

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)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole H-Field measurement with H3DV6 probe/H Scan - CDMA FR

835_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.37 V/m; Power Drift = 0.11 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.34 A/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled H-field

Grid 1 M4 0.32 A/m	Grid 2 M4 0.33 A/m	Grid 3 M4 0.32 A/m
Grid 4 M4 0.33 A/m	Grid 5 M4 0.34 A/m	Grid 6 M4 0.33 A/m
Grid 7 M4 0.32 A/m	Grid 8 M4 0.34 A/m	Grid 9 M4 0.32 A/m

Cursor:

Total = 0.344 A/m

H Category: M4

Location: 0, 1.5, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan - CDMA 1/8th

835_PMF 2/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.13 V/m; Power Drift = 0.09 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.13 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.12 A/m	Grid 2 M4 0.12 A/m	Grid 3 M4 0.12 A/m
Grid 4 M4 0.13 A/m	Grid 5 M4 0.13 A/m	Grid 6 M4 0.12 A/m
Grid 7 M4 0.12 A/m	Grid 8 M4 0.13 A/m	Grid 9 M4 0.12 A/m

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Cursor:

Total = 0.134 A/m

H Category: M4

Location: 0, 0, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan - CW

835_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.39 V/m; Power Drift = 0.08 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.35 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.32 A/m	Grid 2 M4 0.34 A/m	Grid 3 M4 0.32 A/m
Grid 4 M4 0.34 A/m	Grid 5 M4 0.35 A/m	Grid 6 M4 0.33 A/m
Grid 7 M4 0.33 A/m	Grid 8 M4 0.35 A/m	Grid 9 M4 0.33 A/m

Cursor:

Total = 0.355 A/m

H Category: M4

Location: 0, 5, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan -

AM80%_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.24 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.23 A/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled H-field

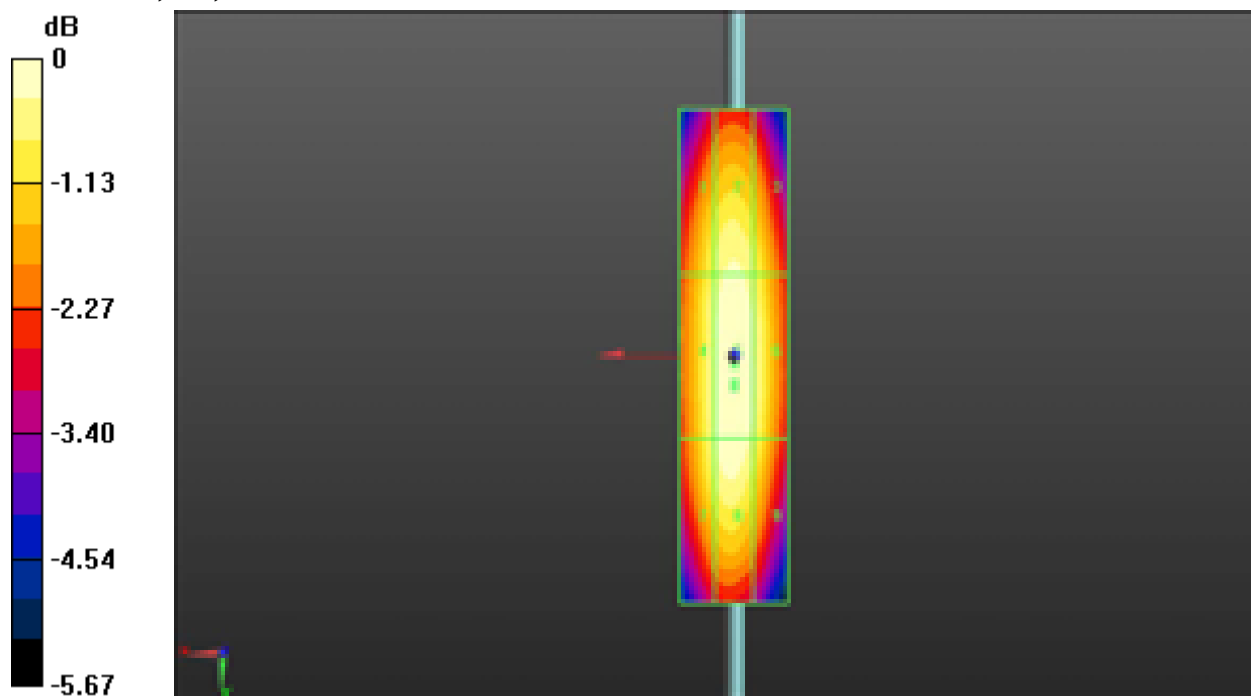
Grid 1 M4 0.20 A/m	Grid 2 M4 0.21 A/m	Grid 3 M4 0.20 A/m
Grid 4 M4 0.21 A/m	Grid 5 M4 0.23 A/m	Grid 6 M4 0.22 A/m
Grid 7 M4 0.21 A/m	Grid 8 M4 0.22 A/m	Grid 9 M4 0.21 A/m

Cursor:

Total = 0.227 A/m

H Category: M4

Location: 0, 5.5, 4.7 mm



0 dB = 0.340A/m = -9.37 dB A/m

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Date/Time: 4/4/2013 2:39:32 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz_04_04_13

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: CW; Frequency: 1880 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), $z = 4.7$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.4630 A/m; Power Drift = -0.07 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.4393 A/m

Near-field category: M2 (AWF 0 dB)

PMF scaled H-field

Grid 1 M2 0.399 A/m	Grid 2 M2 0.429 A/m	Grid 3 M2 0.424 A/m
Grid 4 M2 0.407 A/m	Grid 5 M2 0.439 A/m	Grid 6 M2 0.434 A/m
Grid 7 M2	Grid 8 M2	Grid 9 M2

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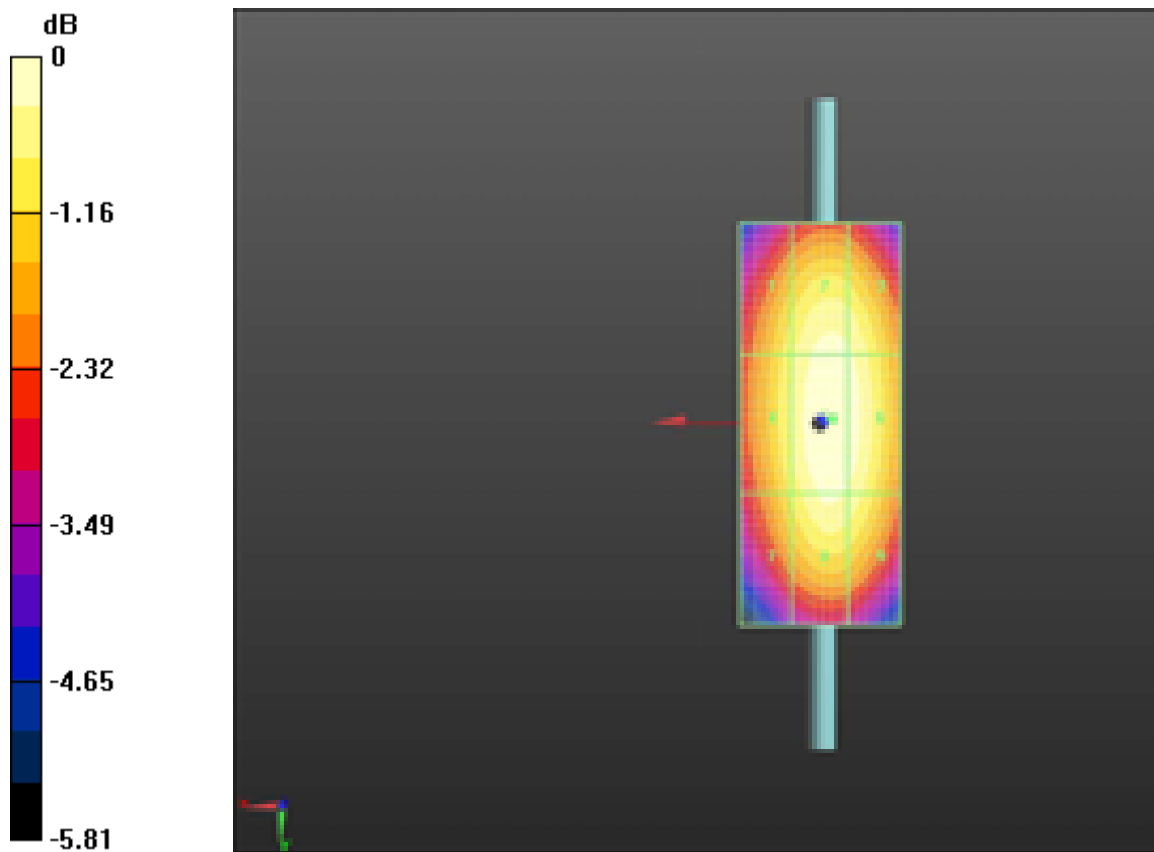
0.390 A/m	0.425 A/m	0.418 A/m
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Cursor:

Total = 0.4393 A/m

H Category: M2

Location: -1.5, -0.5, 4.7 mm



0 dB = 0.4393 A/m = -7.14 dBA/m

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Date/Time: 6/28/2012 12:25:06 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_GSM1880 MHz_06_28_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: GSM 1880_PMF, Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz

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)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole H-Field measurement with H3DV6 probe/H Scan -GSM

1880_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.11 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.11 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.10 A/m	Grid 2 M4 0.10 A/m	Grid 3 M4 0.10 A/m
Grid 4 M4	Grid 5 M4	Grid 6 M4

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0.10 A/m	0.11 A/m	0.10 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
0.10 A/m	0.10 A/m	0.10 A/m

Cursor:

Total = 0.105 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan - CW
1800_PMF/Hearing Aid Compatibility Test (41x101x1):** Measurement

grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.32 V/m; Power Drift = 0.00 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.30 A/m

Near-field category: M3 (AWF 0 dB)

PMF scaled H-field

Grid 1 M3 0.28 A/m	Grid 2 M3 0.29 A/m	Grid 3 M3 0.28 A/m
Grid 4 M3 0.29 A/m	Grid 5 M3 0.30 A/m	Grid 6 M3 0.29 A/m
Grid 7 M3 0.28 A/m	Grid 8 M3 0.29 A/m	Grid 9 M3 0.28 A/m

Cursor:

Total = 0.300 A/m

H Category: M3

Location: 0, 1, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan -
AM80%_1880_PMF/Hearing Aid Compatibility Test (41x101x1):**

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.21 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.19 A/m

Near-field category: M3 (AWF 0 dB)

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PMF scaled H-field

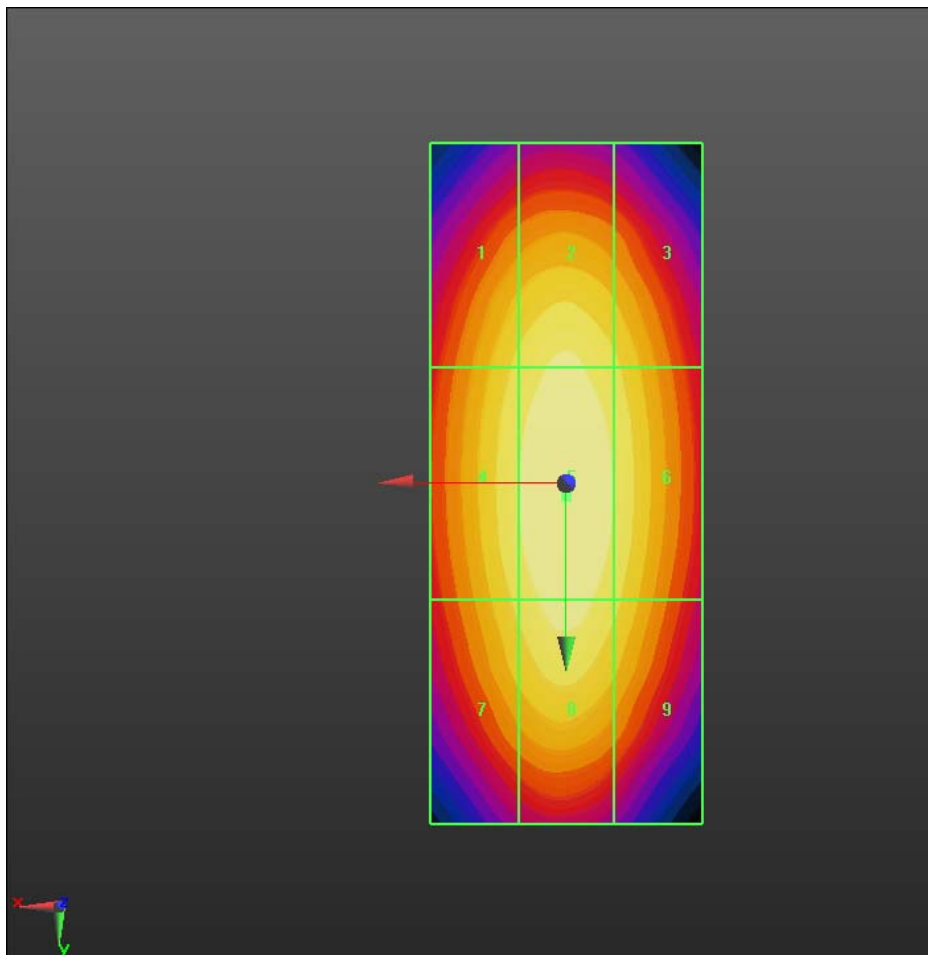
Grid 1 M4 0.18 A/m	Grid 2 M4 0.19 A/m	Grid 3 M4 0.18 A/m
Grid 4 M4 0.19 A/m	Grid 5 M3 0.19 A/m	Grid 6 M4 0.19 A/m
Grid 7 M4 0.18 A/m	Grid 8 M3 0.19 A/m	Grid 9 M4 0.18 A/m

Cursor:

Total = 0.194 A/m

H Category: M3

Location: 0, 0.5, 4.7 mm



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$$0 \text{ dB} = 0.110 \text{ A/m} = -19.17 \text{ dB A/m}$$

Date/Time: 2/17/2012 3:56:44 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_UMTS1880 MHz_02_17_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: WCDMA FDD II, Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), $z = 4.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole H-Field measurement with H3DV6 probe/H Scan -UMTS

1880_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.16 V/m; Power Drift = 0.06 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.15 A/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled H-field

Grid 1 M4 0.14 A/m	Grid 2 M4 0.14 A/m	Grid 3 M4 0.14 A/m
Grid 4 M4 0.14 A/m	Grid 5 M4 0.15 A/m	Grid 6 M4 0.14 A/m
Grid 7 M4 0.14 A/m	Grid 8 M4 0.15 A/m	Grid 9 M4 0.14 A/m

Cursor:

Total = 0.150 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan - CW
1880_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement**

grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.16 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.15 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.14 A/m	Grid 2 M4 0.14 A/m	Grid 3 M4 0.14 A/m
Grid 4 M4 0.14 A/m	Grid 5 M4 0.15 A/m	Grid 6 M4 0.14 A/m
Grid 7 M4 0.14 A/m	Grid 8 M4 0.15 A/m	Grid 9 M4 0.14 A/m

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Cursor:

Total = 0.149 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan -
AM80%_1880_PMF/Hearing Aid Compatibility Test (41x101x1):**

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.10 V/m; Power Drift = -0.07 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.10 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.09 A/m	Grid 2 M4 0.09 A/m	Grid 3 M4 0.09 A/m
Grid 4 M4 0.09 A/m	Grid 5 M4 0.10 A/m	Grid 6 M4 0.09 A/m
Grid 7 M4 0.09 A/m	Grid 8 M4 0.09 A/m	Grid 9 M4 0.09 A/m

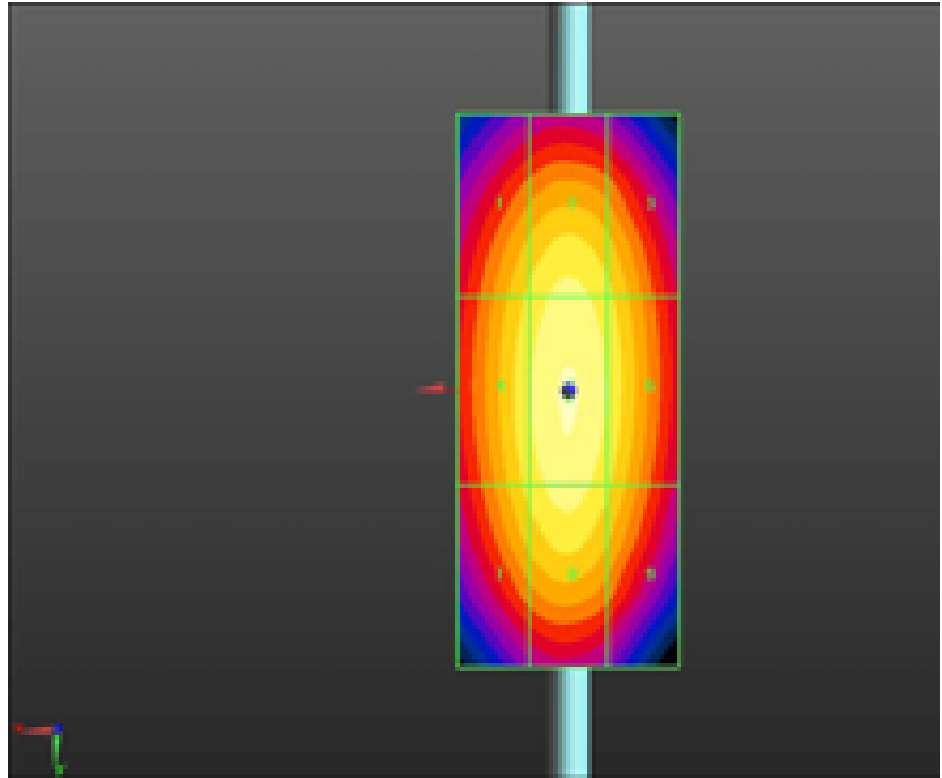
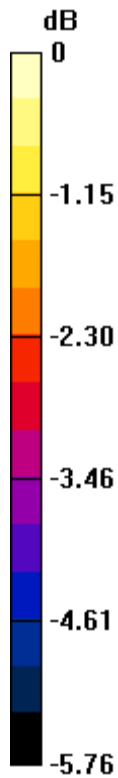
Cursor:

Total = 0.096 A/m

H Category: M4

Location: 0, 0, 4.7 mm

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0 dB = 0.150A/m = -16.48 dB A/m

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Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CDMA1880 MHz_02_29_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: CDMA 1900, Communication System: CDMA 1900 1/8th,
Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz

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)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), $z = 4.7$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole H-Field measurement with H3DV6 probe/H Scan -CDMA FR

1880_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

$dx=5\text{mm}$, $dy=5\text{mm}$

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.31 V/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.29 A/m

Near-field category: M3 (AWF 0 dB)

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PMF scaled H-field

Grid 1 M3 0.27 A/m	Grid 2 M3 0.28 A/m	Grid 3 M3 0.27 A/m
Grid 4 M3 0.28 A/m	Grid 5 M3 0.29 A/m	Grid 6 M3 0.28 A/m
Grid 7 M3 0.27 A/m	Grid 8 M3 0.28 A/m	Grid 9 M3 0.27 A/m

Cursor:

Total = 0.293 A/m

H Category: M3

Location: 0, -0.5, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan -CDMA 1/8th

1880_PMF 2/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.12 V/m; Power Drift = -0.90 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.11 A/m

Near-field category: **M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 M4 0.10 A/m	Grid 2 M4 0.10 A/m	Grid 3 M4 0.09 A/m
Grid 4 M4 0.10 A/m	Grid 5 M4 0.11 A/m	Grid 6 M4 0.10 A/m
Grid 7 M4 0.09 A/m	Grid 8 M4 0.11 A/m	Grid 9 M4 0.09 A/m

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Cursor:

Total = 0.111 A/m

H Category: M4

Location: 0, 0, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan - CW

1880_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.31 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.29 A/m

Near-field category: M3 (AWF 0 dB)

PMF scaled H-field

Grid 1 M3 0.27 A/m	Grid 2 M3 0.28 A/m	Grid 3 M3 0.27 A/m
Grid 4 M3 0.28 A/m	Grid 5 M3 0.29 A/m	Grid 6 M3 0.28 A/m
Grid 7 M3 0.27 A/m	Grid 8 M3 0.28 A/m	Grid 9 M3 0.26 A/m

Cursor:

Total = 0.289 A/m

H Category: M3

Location: 0, 0, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan -

AM80%_1880_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.20 V/m; Power Drift = 0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.19 A/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled H-field

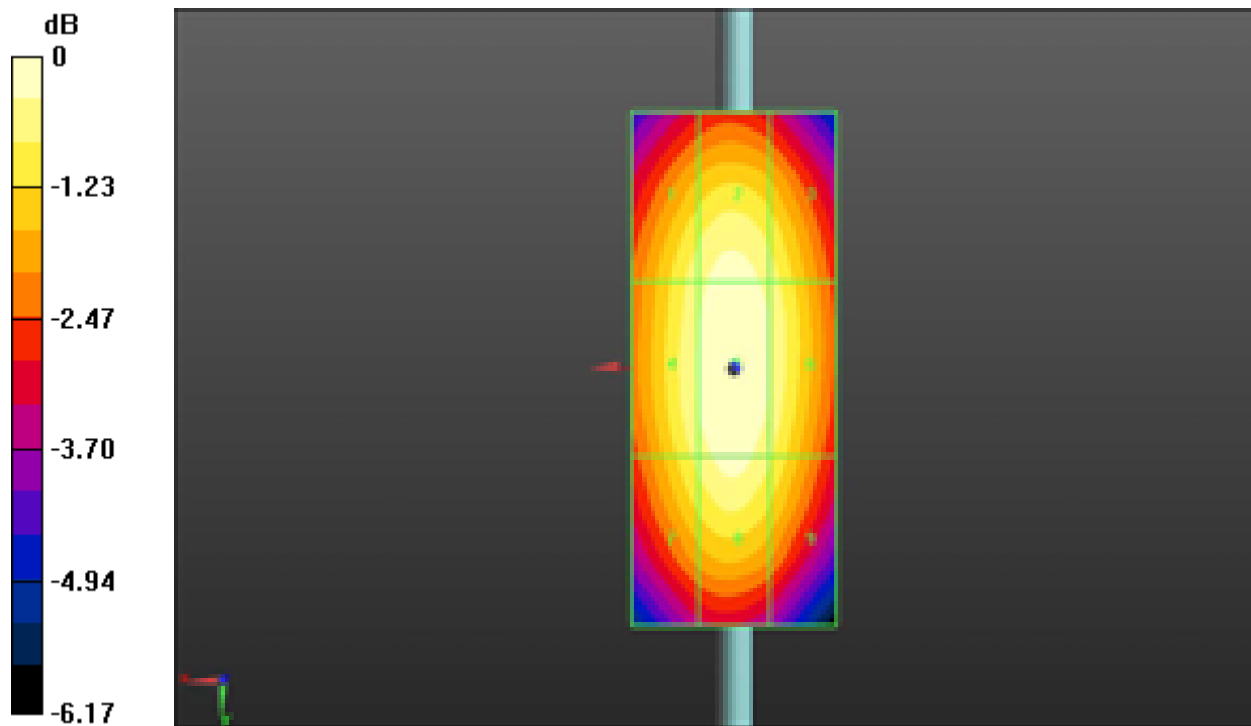
Grid 1 M4 0.17 A/m	Grid 2 M4 0.18 A/m	Grid 3 M4 0.17 A/m
Grid 4 M4 0.18 A/m	Grid 5 M4 0.19 A/m	Grid 6 M4 0.18 A/m
Grid 7 M4 0.17 A/m	Grid 8 M4 0.18 A/m	Grid 9 M4 0.17 A/m

Cursor:

Total = 0.187 A/m

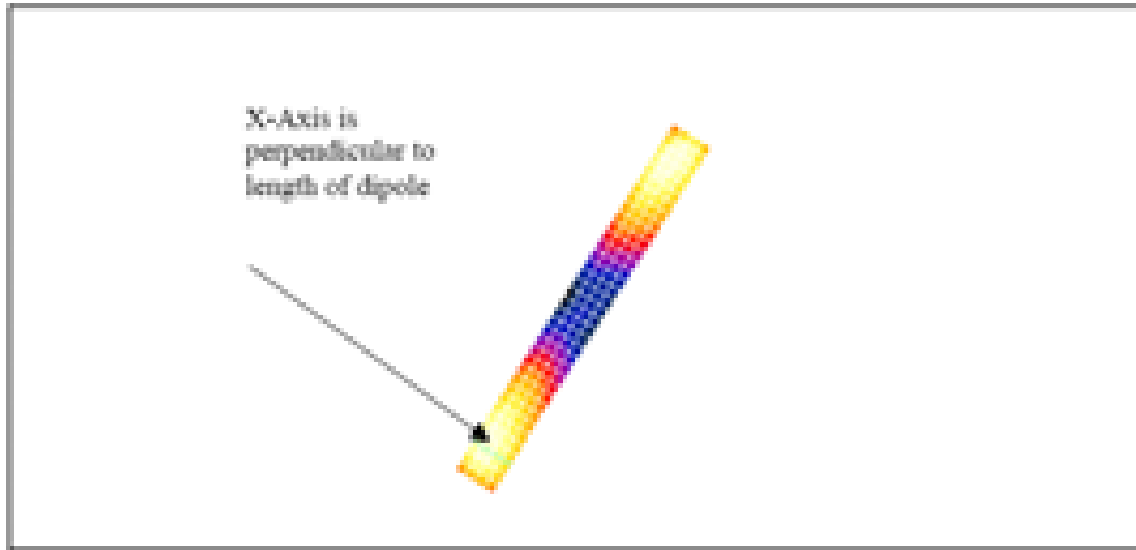
H Category: M4

Location: 0, 0, 4.7 mm



0 dB = 0.290A/m = -10.75 dB A/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 ($\approx 0.4\%$ for E and 0% for H), demonstrating that 5mm is sufficient. The plots follow.



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Date/Time: 14/07/2009 11:24:24 AM

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 0°_14_05**DUT: HAC Dipole 1880 MHz Type CD1880V3**

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

Medium: Air Medium (parameters used: $\epsilon = 1$; $\mu = 0$ mH/m, $\sigma = 0$; $\rho = 1000$ kg/m³)

Phantom system: H Device Series

DASY4 Configuration:

- Probe: ERJDP4 - S32285; Gain(F1, F, F2) Calibrated: 10/12/2004
- Sensor/Surface: Horn (F1) Surface/Sensor/Surface: (F1) Surface
- Electronics: DMC3 S4472; Calibrated: 03/01/2005
- Phantom: HAC Test Aids; Type: SD-HAC P00 B/A;
- Measurement SW: DASY4, V1.5 Build 10; Postprocessing SW: SEMCAD, V1.8 Build 186.

E-Scan 1 Horn above CD 1880 MHz/Hearing Aid Compatibility Test (3s19s1s)

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

Maximum value of Total measured = 134.8 V/m

E-Scan 1 Horn above CD 1880 MHz/Hearing Aid Compatibility Test (41s181s1s)

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

Maximum value of Total field (not averaged) = 131.8 V/m

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

E in V/m (Time averaged) E in V/m (Not 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
98.9	92.3	92.2	98.9	92.3	92.2
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
119.8	131.6	136.7	119.8	131.6	136.7

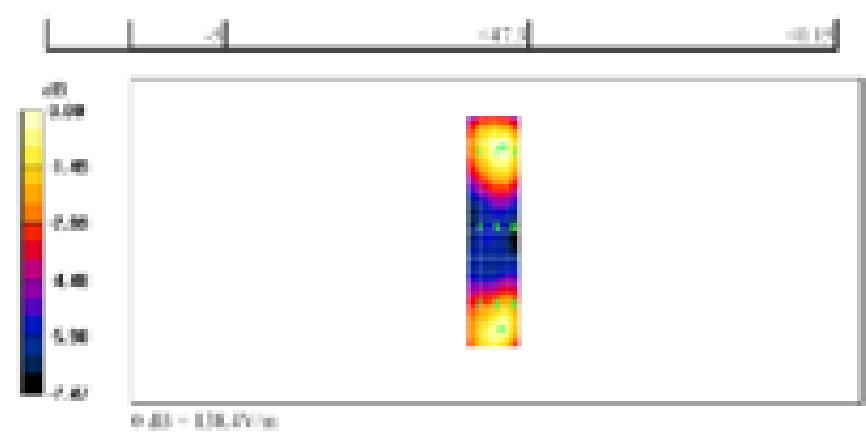
Category	SWT (dB)	Limits for E-Field Limitations (V/m)	Limits for H-Field Limitations (A/m)
M1	0	100.5 ± 151.4	0.6 ± 1.05
	<5	88.6 ± 126.1	0.43 ± 0.63
M2	0	112.2 ± 169.5	0.68 ± 1.04
	<5	94.1 ± 139.3	0.42 ± 0.62
M3	0	62.1 ± 112.2	0.32 ± 0.49
	<5	47.3 ± 81.6	0.19 ± 0.27
M4	0	<63.1	<0.19

File: C:\Program Files\201 Tools\DASY4 Print_Template\CDipole%20Validation%201880%20... 14/07/2009

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Date/Time: 14/07/2009 11:44:51 AM

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz, 2mm step, E-Field 0°, 14, 85°**DUT: HAC Dipole 1880 MHz, Type: CD1880V3**

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

Medium: Air Medium (parameters used: $\epsilon = 0$ mho/m, $\sigma_1 = 0$; $\rho = 1000$ kg/m³)

Phantom system: H Device System

DASY4 Configuration:

- Probe: ERJDP4 - S32285; Gain(F1, F, F2) Calibrated: 10/12/2004
- Sensor/Surface: Hvac (F1a Surface/Sensor/Surface) (F1a Surface)
- Electronics: DMCJ Sx472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD-HAC P01 B/A;
- Measurement SW: DASY4, V1.5 Build 10; Postprocessing SW: SEMCAD, V1.8 Build 186.

E-Scan: 14mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x85x1)

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

Maximum value of Total measured = 138.9 V/m

E-Scan: 14mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x45x1)

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

Maximum value of Total field (not averaged) = 131.2 V/m

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

E in V/m (Time averaged) E in V/m (Not averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.8	138.6	138.6	123.8	138.6	138.6
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
98.4	92.1	91.6	98.4	92.1	91.6
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
121.3	131.2	138.6	121.3	131.2	138.6

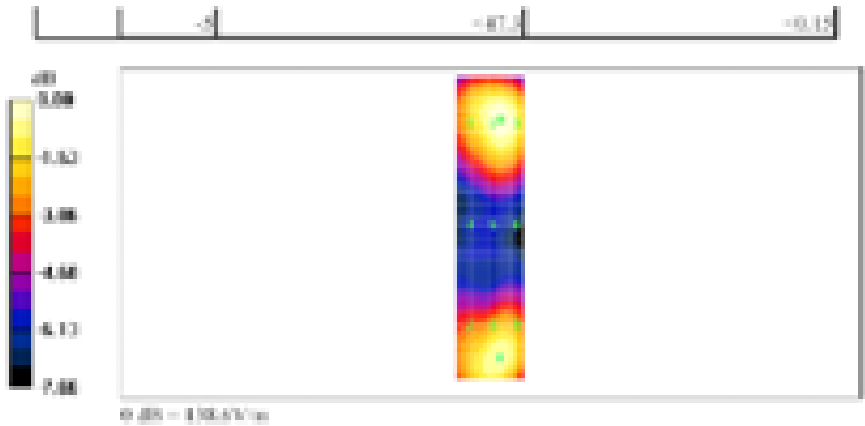
Category	AWF (dB)	Limits for E-Field Limitations (V/m)	Limits for H-Field Limitations (A/m)
M1	0	199.5 ± 151.4	0.9 ± 1.05
	-5	189.6 ± 146.1	0.83 ± 0.93
M2	0	112.2 ± 100.5	0.51 ± 0.46
	-5	104.1 ± 100.5	0.47 ± 0.45
M3	0	63.1 ± 112.2	0.19 ± 0.34
	-5	47.8 ± 81.0	0.15 ± 0.25
M4	0	< 63.1	< 0.19

File: C:\Program Files\201 Tools\DASY4\Print_Template\Dipole\%20Validation\%201880\%20... 14/07/2009

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Lab: RTM Testing Services (RTS)

HAC_H_Dipole_CW 1880_5 mm step_07_14_05**BUT: HAC Dipole 1880 MHz Type: CD0000V3**

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

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

Phantom section: H Dipole Section

DAASY Configuration:

• Probe: UTDP46 + SMA105 ; Calibrated: 10/12/2004

• Sensor-Surface: 4mm (T/a Surface/Person-Surface: 0T/a Surface)

• Electronics: DAU3 Soft72; Calibrated: 03/04/2005

• Phantom: HAC Test Ant; Type: SD HAC P00 B/A;

• Measurement SW: DAASY 8, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 18mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x10x1):

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

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

H Scan 18mm above CD 1880 MHz/Hearing Aid Compatibility Test (01x101x1):

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	0.399	0.344	0.342	0.399	0.344
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.399	0.406	0.399	0.399	0.406	0.399
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.363	0.378	0.363	0.363	0.378	0.363

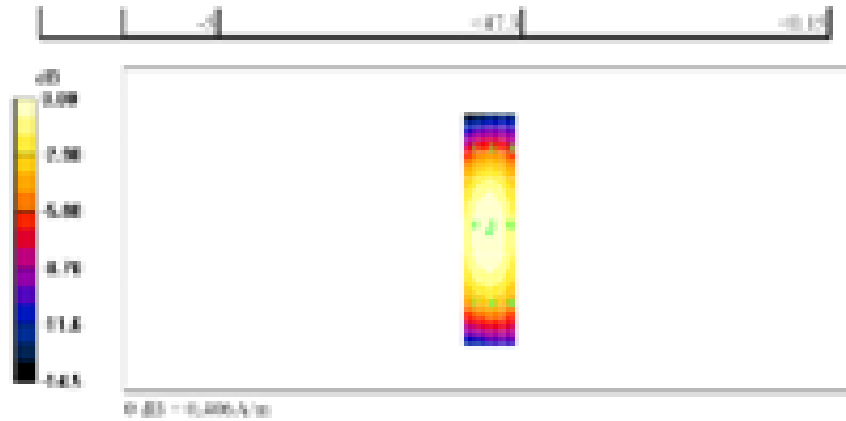
Category	AWF (dB)	Index for Full Field Evaluation (N) in dB	Index for Half Field Evaluation (N) in dB
M1	0	109.5 ~ 104.8	0.46 ~ 0.87
	-5	109.6 ~ 106.3	0.47 ~ 0.8
M2	0	112.2 ~ 109.5	0.54 ~ 0.8
	-5	111.8 ~ 109.5	0.73 ~ 0.87
M3	0	113.1 ~ 112.2	0.79 ~ 0.84
	-5	113.1 ~ 111.3	0.83 ~ 0.73
M4	0	<113.1	<0.73

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Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_97_14_95**DUT: HAC Dipole 1880 MHz Type: CD1880V3**

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

Medium: Air Medium parameters used: $\epsilon = 0$ m/s/m, $\sigma_p = 0$; $\rho = 1$ kg/m³

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: HSDPA - N54105; Calibrated: 10/12/2004
- Sensor/Surface: None (P/S Surface/Potential Surface) (P/S Surface)
- Electronics: DMU3 N5472; Calibrated: 03/01/2005
- Phantom: HAC Test Ant; Type: SD-HAC P00 B/A;
- Measurement SW: DASY4, V1.5 Build 10; Postprocessing SW: SEMCAD, V1.8 Build 106.

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x16)

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 (101x45x11)

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

Maximum value of Total field (not averaged) = 0.406 A/m

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

H in A/m (Time averaged) H in A/m (Not averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.347	0.361	0.345	0.347	0.361	0.345
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

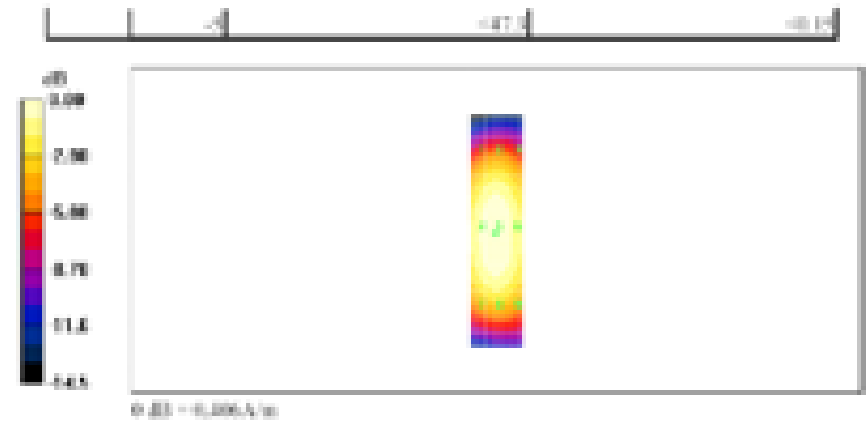
Category	AWF (dB)	Limits for E-Field Limitations (V/m)	Limits for H-Field Limitations (A/m)
M1	0	$100.5 - 151.5$	$0.6 - 1.05$
	<5	$109.6 - 266.1$	$0.43 - 0.33$
M2	0	$112.2 - 109.5$	$0.51 - 0.66$
	<5	$141.1 - 109.5$	$0.42 - 0.45$
M3	0	$63.1 - 112.2$	$0.19 - 0.34$
	<5	$87.8 - 81.1$	$0.19 - 0.25$
M4	0	<63.1	<0.19

E:\C:\Program%20Files\DASY4\Print_templates\HAC_H_Dipole_CW%201880_7%... 14/07/2009

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A.3 RF emission field plots

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Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

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

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 47.33 V/m; Power Drift = -0.00 dB

PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 120.4 V/m

Near-field category: M4 (AWF -5 dB)

PMF scaled E-field

Grid 1 M4 101.8 V/m	Grid 2 M4 116.8 V/m	Grid 3 M4 116.8 V/m
Grid 4 M4 101.9 V/m	Grid 5 M4 120.4 V/m	Grid 6 M4 120.4 V/m

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Grid 7 M4 103.8 V/m	Grid 8 M4 119.4 V/m	Grid 9 M4 119.3 V/m
--------------------------------------	--------------------------------------	--------------------------------------

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_Mid_Chan/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 45.47 V/m; Power Drift = -0.06 dB
PMR not calibrated. PMF = 3.000 is applied.
E-field emissions = 120.8 V/m
Near-field category: M4 (AWF -5 dB)

PMF scaled E-field

Grid 1 M4 90.83 V/m	Grid 2 M4 113.4 V/m	Grid 3 M4 113.4 V/m
Grid 4 M4 96.15 V/m	Grid 5 M4 120.8 V/m	Grid 6 M4 120.9 V/m
Grid 7 M4 103.0 V/m	Grid 8 M4 121.7 V/m	Grid 9 M4 121.7 V/m

Cursor:

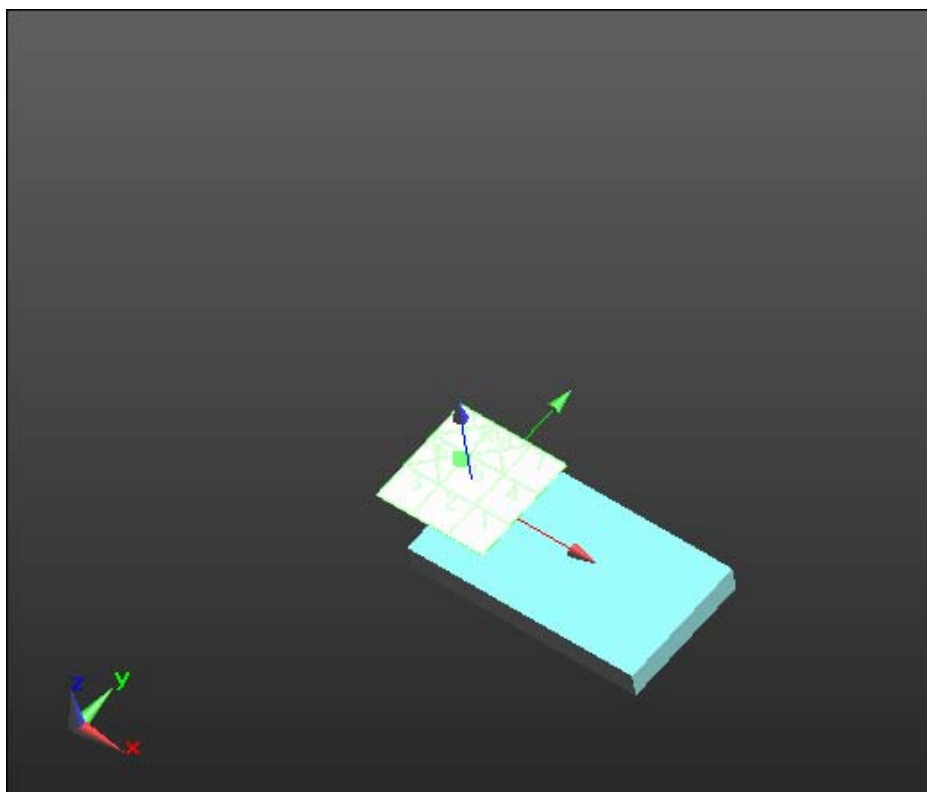
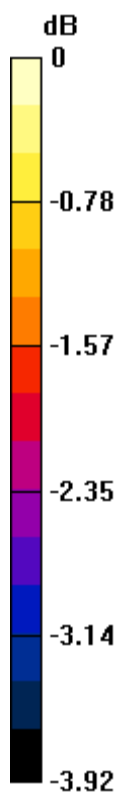
Total = 121.7 V/m
E Category: M4
Location: -8.5, 19.5, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_High_Chan/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 50.15 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 3.000 is applied.
E-field emissions = 133.8 V/m
Near-field category: M4 (AWF -5 dB)

PMF scaled E-field

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Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW	

Grid 1 M4 101.2 V/m	Grid 2 M4 127.5 V/m	Grid 3 M4 127.6 V/m
Grid 4 M4 105.9 V/m	Grid 5 M4 133.8 V/m	Grid 6 M4 134.0 V/m
Grid 7 M4 111.3 V/m	Grid 8 M4 133.7 V/m	Grid 9 M4 133.8 V/m



0 dB = 115.7 V/m = 41.27 dBV/m

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Date/Time: 4/4/2013 12:41:27 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM850-Telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

Communication System: GSM 850; Frequency: 848.8 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 49.68 V/m; Power Drift = -0.09 dB

PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 129.0 V/m

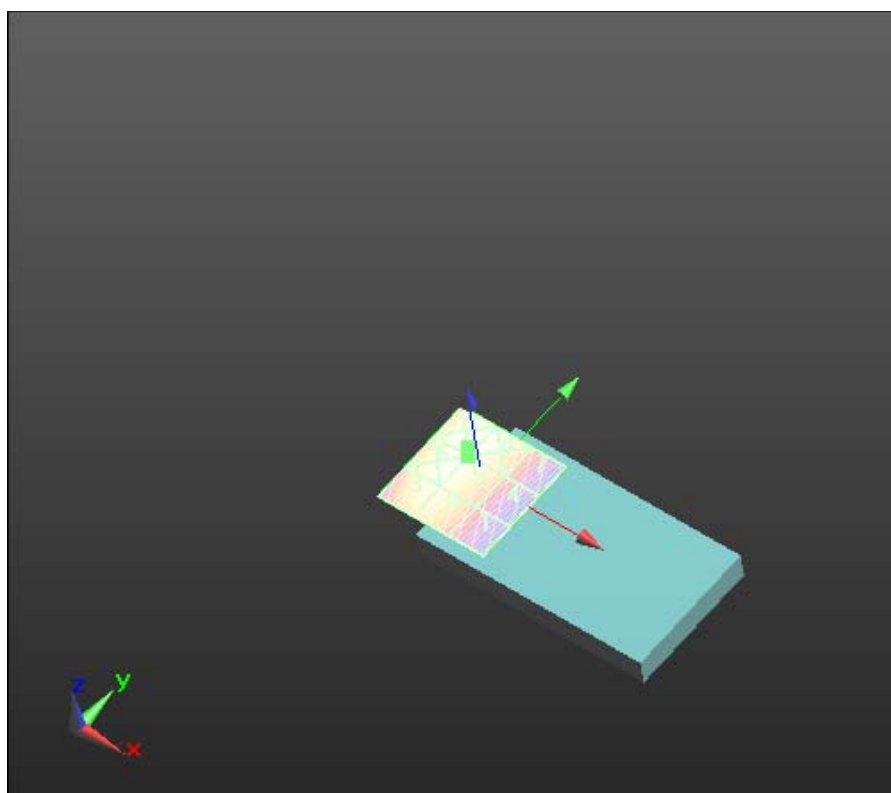
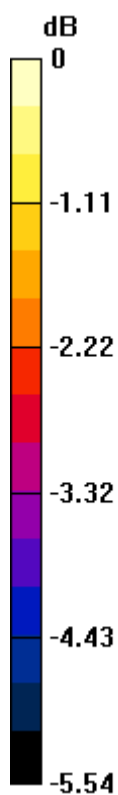
Near-field category: M4 (AWF -5 dB)

PMF scaled E-field

Grid 1 M4 95.92 V/m	Grid 2 M4 120.5 V/m	Grid 3 M4 121.2 V/m
Grid 4 M4 99.56 V/m	Grid 5 M4 129.0 V/m	Grid 6 M4 130.2 V/m
Grid 7 M4 101.5 V/m	Grid 8 M4 129.5 V/m	Grid 9 M4 130.6 V/m

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0 dB = 125.4 V/m = 41.97 dBV/m

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Date/Time: 4/4/2013 1:27:02 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_V

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

Communication System: WCDMA FDD V; Frequency: 826.4 MHz, Frequency: 836.4 MHz,
Frequency: 846.6 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 55.00 V/m; Power Drift = -0.11 dB

PMR not calibrated. PMF = 1.070 is applied.

E-field emissions = 50.73 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 41.04 V/m	Grid 2 M4 48.82 V/m	Grid 3 M4 48.56 V/m
Grid 4 M4 42.29 V/m	Grid 5 M4 50.73 V/m	Grid 6 M4 50.40 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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42.64 V/m	50.39 V/m	50.12 V/m
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Cursor:

Total = 50.73 V/m

E Category: M4

Location: -6, 5, 8.7 mm

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

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 54.74 V/m; Power Drift = 0.06 dB

PMR not calibrated. PMF = 1.070 is applied.

E-field emissions = 52.15 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 39.36 V/m	Grid 2 M4 49.28 V/m	Grid 3 M4 49.34 V/m
Grid 4 M4 41.53 V/m	Grid 5 M4 52.15 V/m	Grid 6 M4 52.17 V/m
Grid 7 M4 44.29 V/m	Grid 8 M4 52.39 V/m	Grid 9 M4 52.37 V/m

Cursor:

Total = 52.39 V/m

E Category: M4

Location: -8, 19.5, 8.7 mm

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

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 53.14 V/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 1.070 is applied.

E-field emissions = 50.03 V/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled E-field

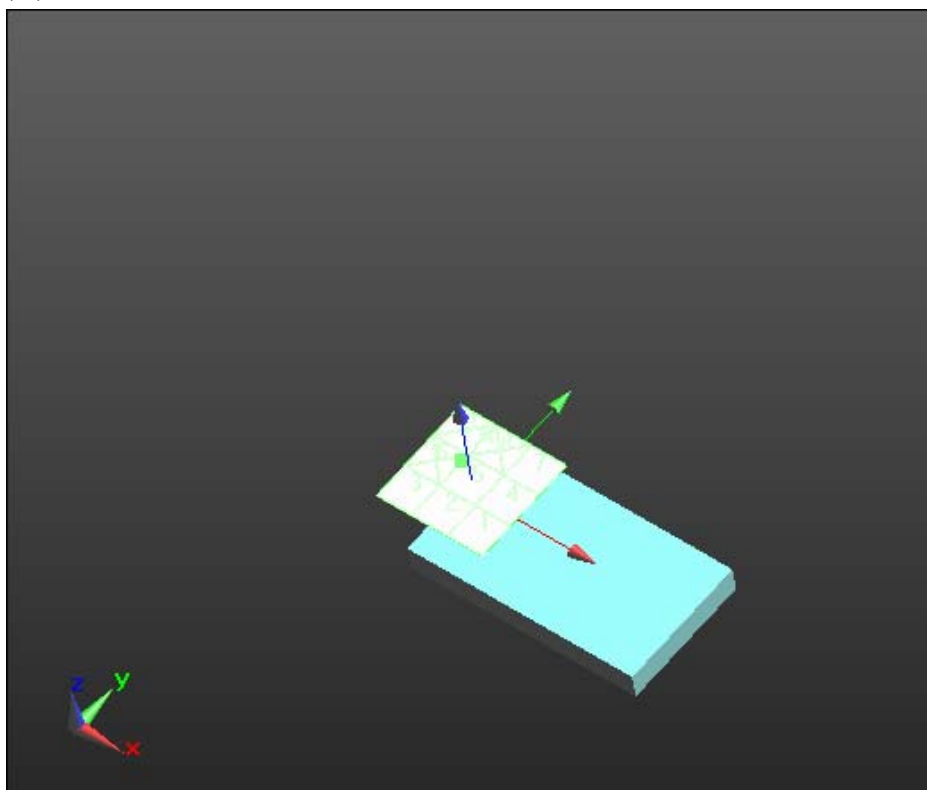
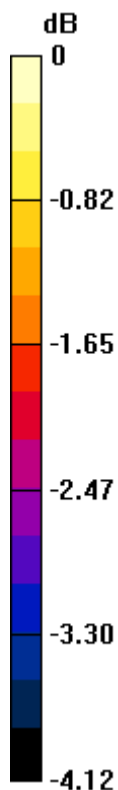
Grid 1 M4 39.02 V/m	Grid 2 M4 47.71 V/m	Grid 3 M4 47.73 V/m
Grid 4 M4 40.53 V/m	Grid 5 M4 50.03 V/m	Grid 6 M4 50.04 V/m
Grid 7 M4 42.40 V/m	Grid 8 M4 49.82 V/m	Grid 9 M4 49.82 V/m

Cursor:

Total = 50.04 V/m

E Category: M4

Location: -9, 5, 8.7 mm



0 dB = 50.73 V/m = 34.11 dBV/m

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Date/Time: 4/4/2013 1:57:49 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_V-Telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 55.39 V/m; Power Drift = -0.07 dB

PMR not calibrated. PMF = 1.070 is applied.

E-field emissions = 51.04 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 37.65 V/m	Grid 2 M4 46.99 V/m	Grid 3 M4 47.22 V/m
Grid 4 M4 39.74 V/m	Grid 5 M4 51.04 V/m	Grid 6 M4 51.57 V/m
Grid 7 M4 41.02 V/m	Grid 8 M4 52.15 V/m	Grid 9 M4 52.36 V/m

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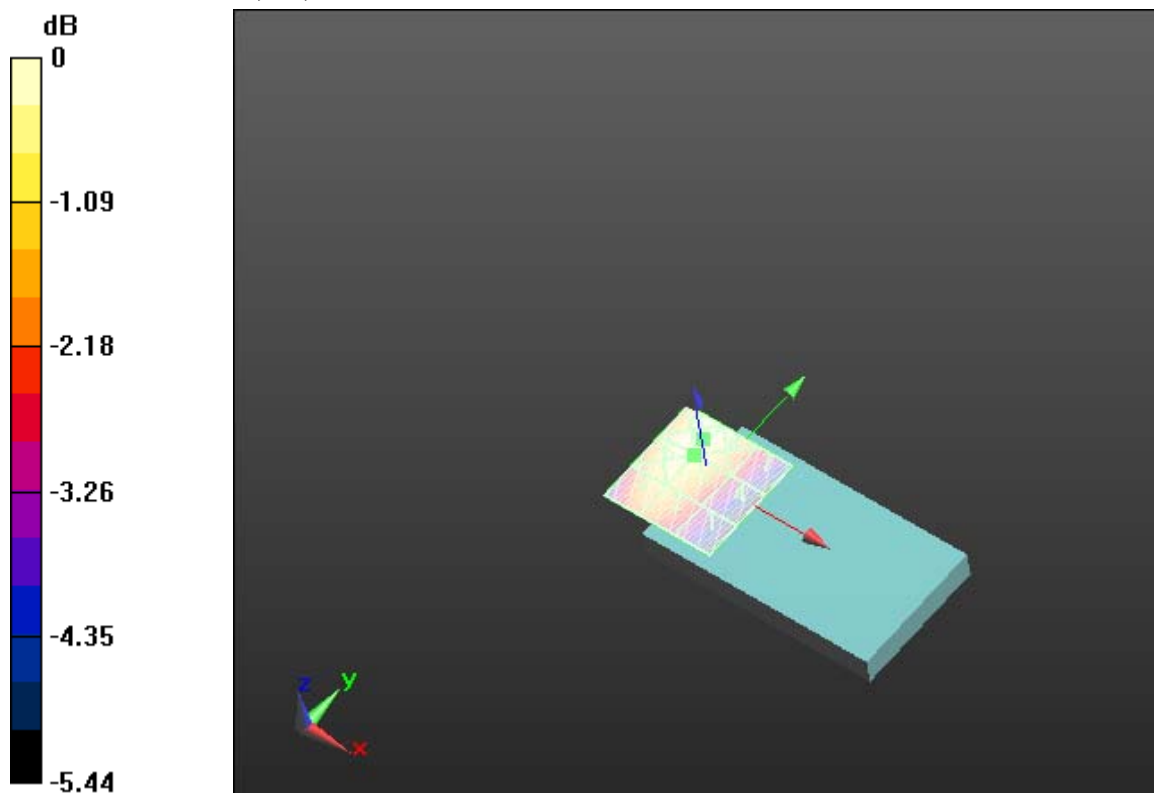
		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFM121LW		Page 94 (154)
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Cursor:

Total = 52.36 V/m

E Category: M4

Location: -8.5, 8.5, 8.7 mm



0 dB = 52.36 V/m = 34.38 dBV/m

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Date/Time: 4/4/2013 12:51:40 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

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

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 19.36 V/m; Power Drift = 0.10 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 57.97 V/m

Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 M3 55.60 V/m	Grid 2 M3 57.97 V/m	Grid 3 M3 55.05 V/m
Grid 4 M4 40.72 V/m	Grid 5 M3 50.10 V/m	Grid 6 M3 50.21 V/m
Grid 7 M4	Grid 8 M3	Grid 9 M3

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43.87 V/m	60.05 V/m	60.06 V/m
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Cursor:

Total = 60.06 V/m

E Category: M3

Location: -9, 25, 8.7 mm

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

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 19.21 V/m; Power Drift = 0.21 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 58.41 V/m

Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 M3 51.22 V/m	Grid 2 M3 53.98 V/m	Grid 3 M3 53.21 V/m
Grid 4 M4 36.12 V/m	Grid 5 M3 58.41 V/m	Grid 6 M3 58.88 V/m
Grid 7 M3 50.86 V/m	Grid 8 M3 71.66 V/m	Grid 9 M3 71.59 V/m

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

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 18.00 V/m; Power Drift = 0.12 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 68.61 V/m

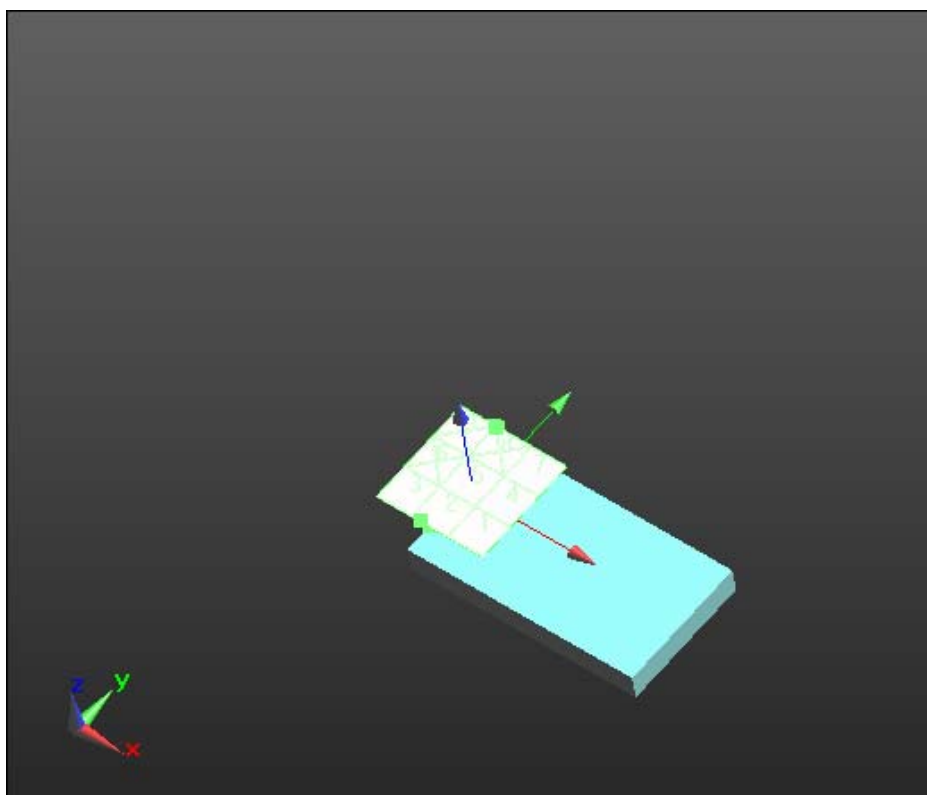
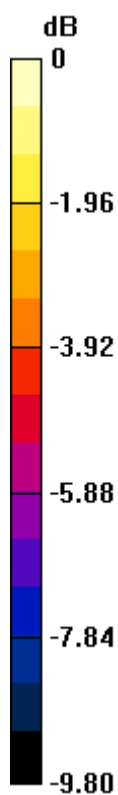
Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 M3	Grid 2 M3	Grid 3 M3
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63.09 V/m	68.61 V/m	68.46 V/m
Grid 4 M4 41.18 V/m	Grid 5 M3 54.45 V/m	Grid 6 M3 55.54 V/m
Grid 7 M3 52.32 V/m	Grid 8 M3 74.57 V/m	Grid 9 M3 74.56 V/m



0 dB = 60.72 V/m = 35.67 dBV/m

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Date/Time: 4/4/2013 3:04:32 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900-Telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

Communication System: GSM 1900; Frequency: 1909.8 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 17.27 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 65.40 V/m

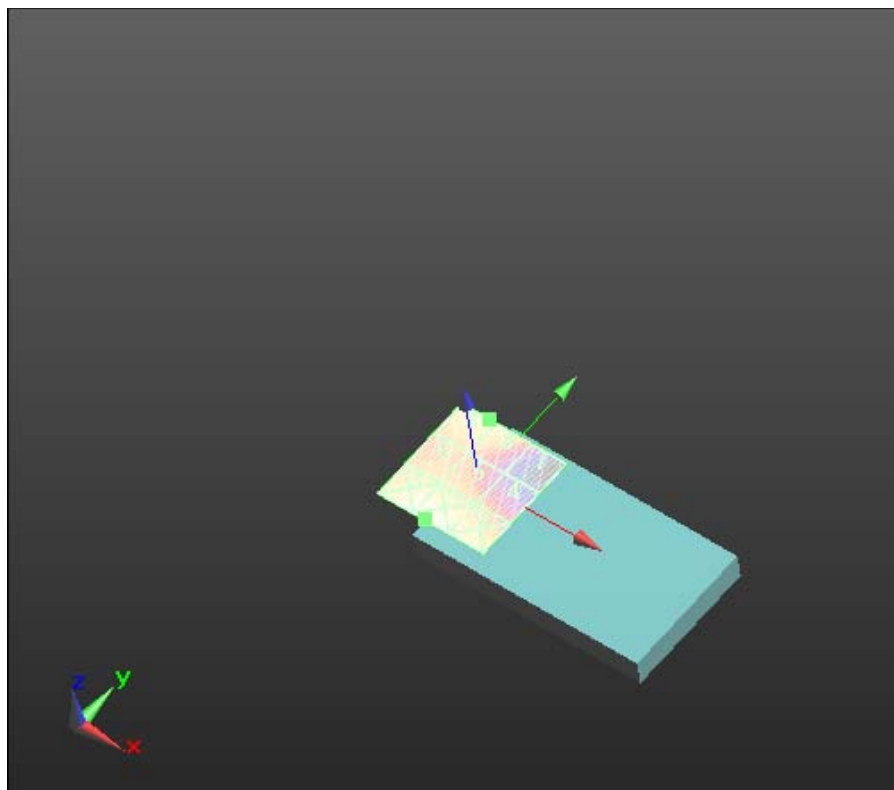
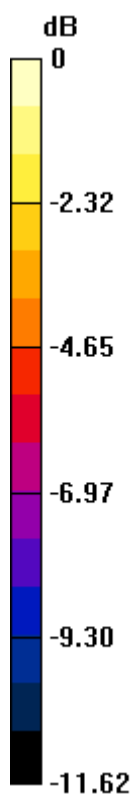
Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 M3 65.60 V/m	Grid 2 M3 70.55 V/m	Grid 3 M3 69.61 V/m
Grid 4 M4 46.02 V/m	Grid 5 M3 52.74 V/m	Grid 6 M3 52.67 V/m
Grid 7 M4 38.42 V/m	Grid 8 M3 64.21 V/m	Grid 9 M3 65.40 V/m

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0 dB = 71.32 V/m = 37.06 dBV/m

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Date/Time: 4/4/2013 3:09:14 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900_2100mA_Battery

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

Communication System: GSM 1900; Frequency: 1909.8 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_High Chan_2100mA_Battery/Hearing Aid

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.31 V/m; Power Drift = 0.10 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 66.49 V/m

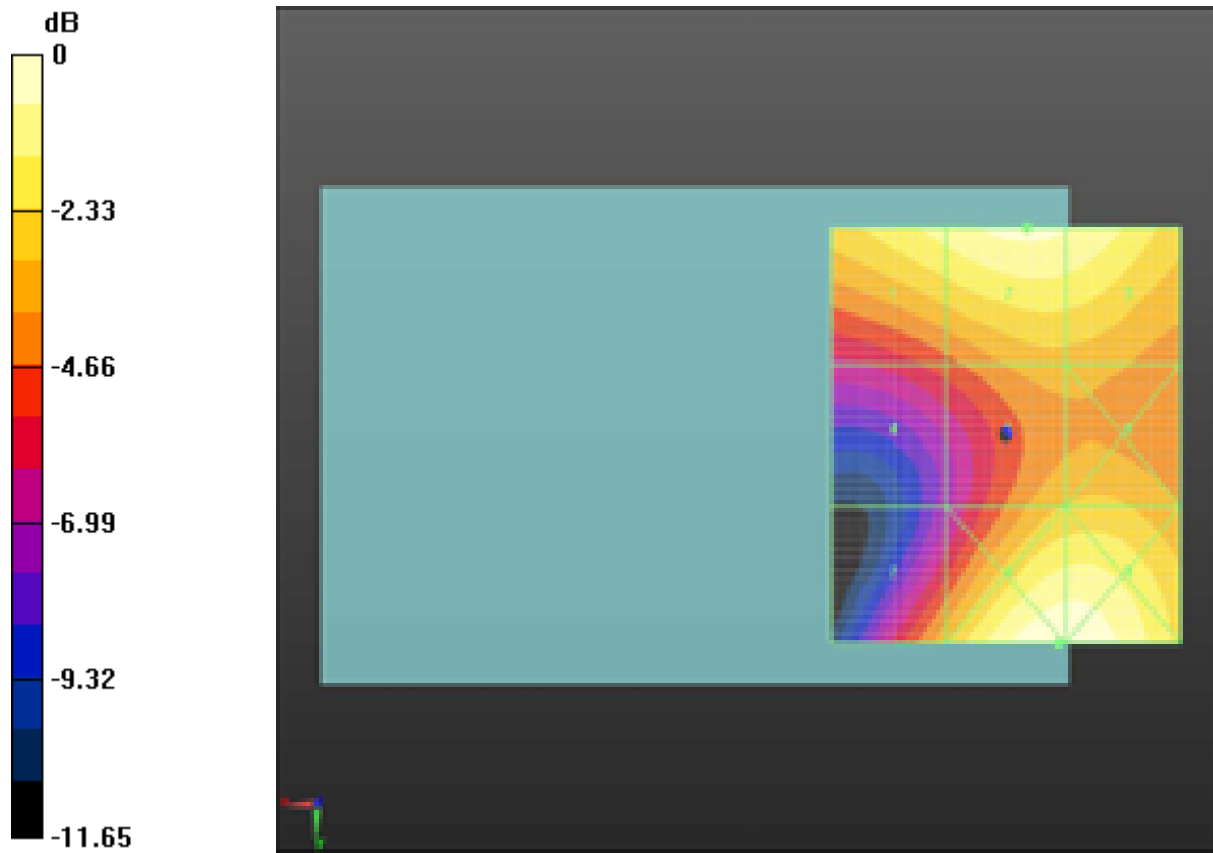
Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 M3 61.72 V/m	Grid 2 M3 66.49 V/m	Grid 3 M3 65.14 V/m
Grid 4 M4 40.05 V/m	Grid 5 M3 49.83 V/m	Grid 6 M3 50.90 V/m
Grid 7 M3	Grid 8 M3	Grid 9 M3

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49.01 V/m	69.93 V/m	69.89 V/m
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0 dB = 70.70 V/m = 36.99 dBV/m

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Date/Time: 4/4/2013 2:13:24 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_II

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz, Frequency: 1880 MHz,
Frequency: 1907.6 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 29.03 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 28.91 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 27.31 V/m	Grid 2 M4 28.91 V/m	Grid 3 M4 28.55 V/m
Grid 4 M4 19.63 V/m	Grid 5 M4 27.55 V/m	Grid 6 M4 27.56 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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26.66 V/m	34.86 V/m	34.77 V/m
------------------	------------------	------------------

Cursor:

Total = 34.86 V/m

E Category: M4

Location: -7, 25, 8.7 mm

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

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 28.84 V/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 30.70 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 26.67 V/m	Grid 2 M4 28.65 V/m	Grid 3 M4 28.15 V/m
Grid 4 M4 19.03 V/m	Grid 5 M4 30.70 V/m	Grid 6 M4 30.76 V/m
Grid 7 M4 27.41 V/m	Grid 8 M4 38.06 V/m	Grid 9 M4 38.05 V/m

Cursor:

Total = 38.06 V/m

E Category: M4

Location: -8, 25, 8.7 mm

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

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 23.51 V/m; Power Drift = -0.00 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 33.39 V/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled E-field

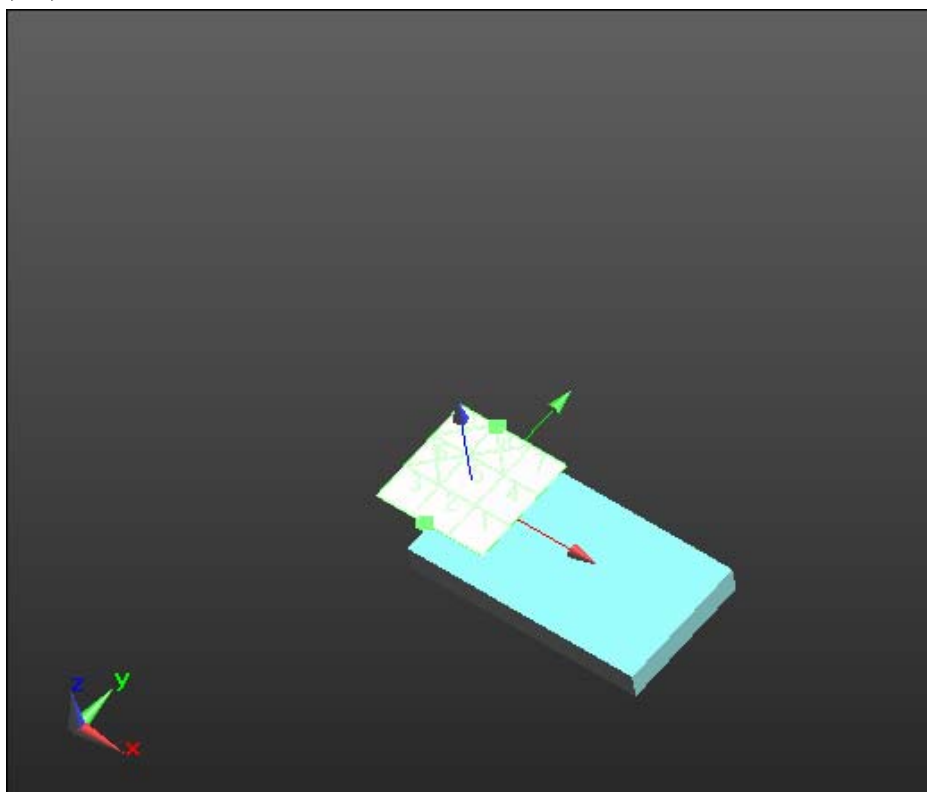
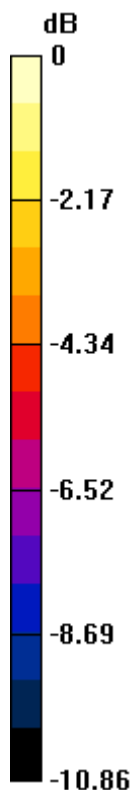
Grid 1 M4 31.58 V/m	Grid 2 M4 33.39 V/m	Grid 3 M4 32.54 V/m
Grid 4 M4 19.34 V/m	Grid 5 M4 26.91 V/m	Grid 6 M4 27.30 V/m
Grid 7 M4 25.79 V/m	Grid 8 M4 37.66 V/m	Grid 9 M4 37.66 V/m

Cursor:

Total = 37.66 V/m

E Category: M4

Location: -8, 25, 8.7 mm



0 dB = 34.86 V/m = 30.85 dBV/m

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Date/Time: 4/4/2013 3:34:32 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_II_Telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 23.26 V/m; Power Drift = 0.07 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 35.23 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 34.08 V/m	Grid 2 M4 36.29 V/m	Grid 3 M4 35.66 V/m
Grid 4 M4 22.33 V/m	Grid 5 M4 25.73 V/m	Grid 6 M4 25.73 V/m
Grid 7 M4 21.74 V/m	Grid 8 M4 34.83 V/m	Grid 9 M4 35.23 V/m

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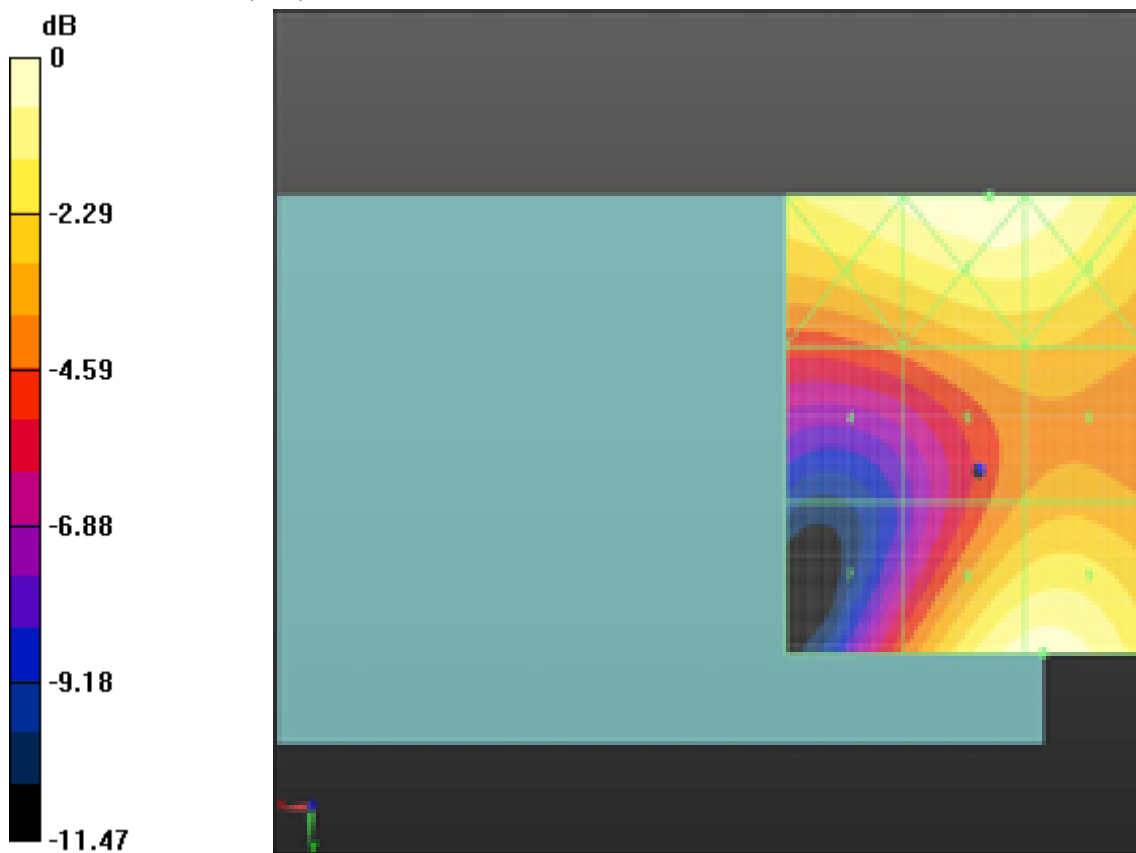
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Cursor:

Total = 36.29 V/m

E Category: M4

Location: -1.5, -30, 8.7 mm



0 dB = 36.29 V/m = 31.20 dBV/m

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Date/Time: 4/3/2013 4:55:51 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

Communication System: CDMA 850, Communication System: CDMA 850 1/8th Rate;

Frequency: 824.7 MHz, Frequency: 836.52 MHz, Frequency: 848.52 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), $z = 8.7$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device_Low_Chann_Full_Rate/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: $dx=0.5000$ mm, $dy=0.5000$ mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 71.27 V/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 1.060 is applied.

E-field emissions = 64.86 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 53.92 V/m	Grid 2 M4 62.40 V/m	Grid 3 M4 62.36 V/m
Grid 4 M4 55.29 V/m	Grid 5 M4 64.86 V/m	Grid 6 M4 64.86 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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56.27 V/m	64.27 V/m	64.23 V/m
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Cursor:

Total = 64.86 V/m

E Category: M4

Location: -8.5, 4.5, 8.7 mm

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

15 mm from Probe Center to the

Device_Mid_Chan_Full_Rate/Hearing Aid Compatibility Test

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 73.04 V/m; Power Drift = -0.16 dB

PMR not calibrated. PMF = 1.060 is applied.

E-field emissions = 67.52 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 53.81 V/m	Grid 2 M4 65.61 V/m	Grid 3 M4 65.69 V/m
Grid 4 M4 54.13 V/m	Grid 5 M4 67.52 V/m	Grid 6 M4 67.71 V/m
Grid 7 M4 53.52 V/m	Grid 8 M4 66.51 V/m	Grid 9 M4 66.63 V/m

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Cursor:

Total = 67.71 V/m

E Category: M4

Location: -9.5, 0.5, 8.7 mm

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

15 mm from Probe Center to the

Device_High_Chan_Full_Rate/Hearing Aid Compatibility Test

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 81.16 V/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 1.060 is applied.

E-field emissions = 76.00 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 62.54 V/m	Grid 2 M4 74.66 V/m	Grid 3 M4 74.66 V/m
Grid 4 M4 60.89 V/m	Grid 5 M4 76.00 V/m	Grid 6 M4 76.04 V/m
Grid 7 M4 58.67 V/m	Grid 8 M4 74.18 V/m	Grid 9 M4 74.20 V/m

Cursor:

Total = 76.04 V/m

E Category: M4

Location: -9, 0, 8.7 mm

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

15 mm from Probe Center to the

Device_High_Chan_1/8th_Rate/Hearing Aid Compatibility Test

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 28.93 V/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 2.900 is applied.

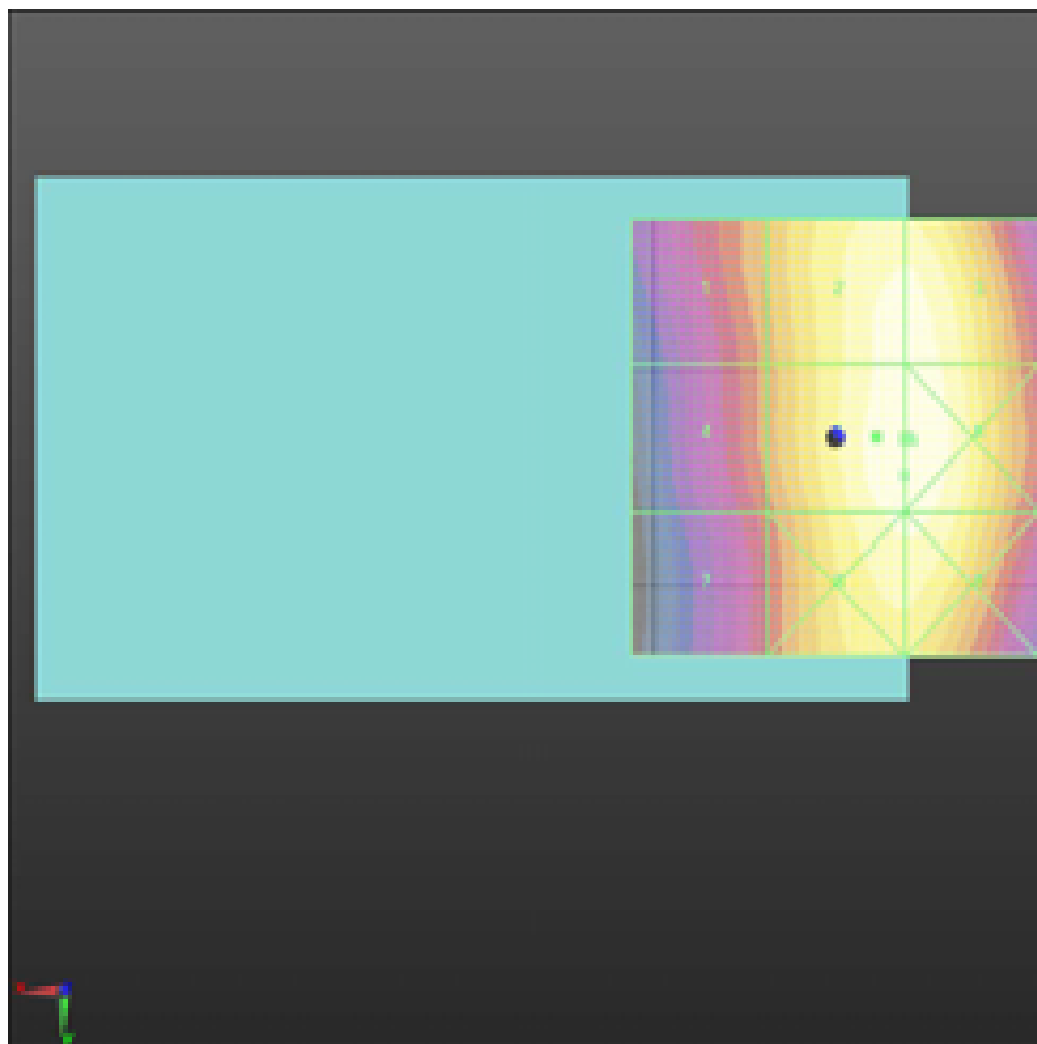
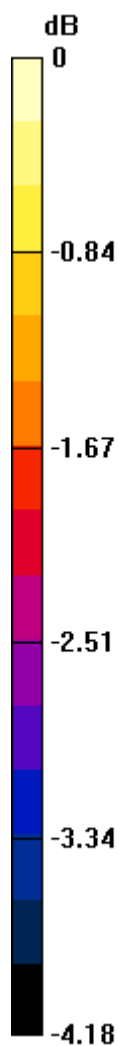
E-field emissions = 83.19 V/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled E-field

Grid 1 M4 67.57 V/m	Grid 2 M4 77.76 V/m	Grid 3 M4 79.08 V/m
Grid 4 M4 59.94 V/m	Grid 5 M4 83.19 V/m	Grid 6 M4 81.99 V/m
Grid 7 M4 62.77 V/m	Grid 8 M4 79.52 V/m	Grid 9 M4 81.55 V/m



0 dB = 64.86 V/m = 36.24 dBV/m

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Date/Time: 4/3/2013 5:31:38 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA850_Telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

Communication System: CDMA 850 1/8th Rate; Frequency: 848.52 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from
Probe Center to the_Device_High_Chan_1/8th_Rate_Telecoil/Hearing Aid
Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 29.67 V/m; Power Drift = -0.10 dB

PMR not calibrated. PMF = 2.900 is applied.

E-field emissions = 82.20 V/m

Near-field category: M4 (AWF 0 dB)

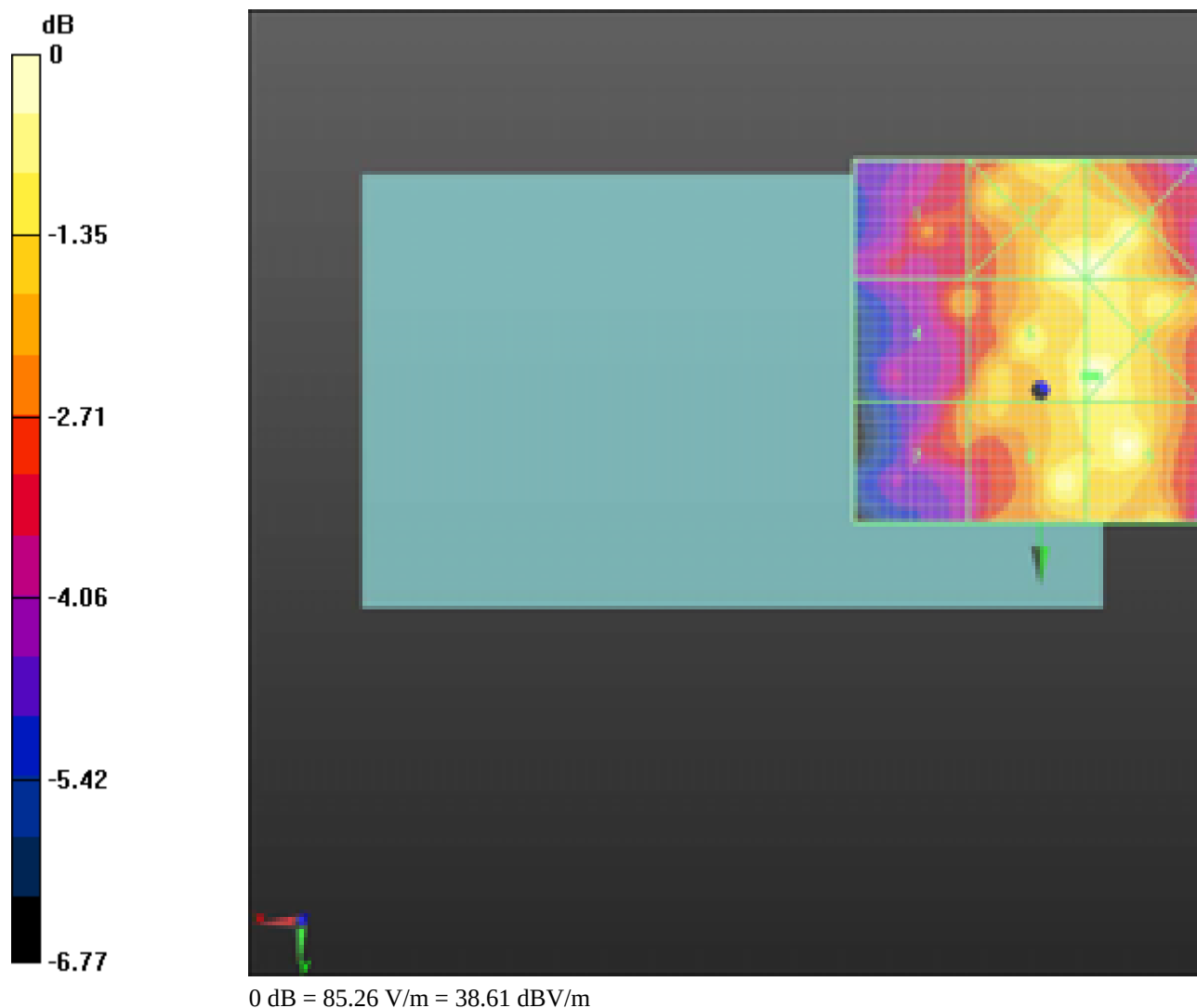
PMF scaled E-field

Grid 1 M4 63.22 V/m	Grid 2 M4 82.44 V/m	Grid 3 M4 83.11 V/m
Grid 4 M4 65.71 V/m	Grid 5 M4 82.20 V/m	Grid 6 M4 85.26 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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65.51 V/m	79.32 V/m	82.12 V/m
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Date/Time: 4/3/2013 5:55:41 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA1900

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

Communication System: CDMA 1900, Communication System: CDMA 1900 1/8th Rate;

Frequency: 1851.25 MHz, Frequency: 1880 MHz, Frequency: 1908.5 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), $z = 8.7$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device_Low_Chann_Full_Rate/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: $dx=0.5000$ mm, $dy=0.5000$ mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 15.97 V/m; Power Drift = 0.27 dB

PMR not calibrated. PMF = 1.010 is applied.

E-field emissions = 26.17 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 24.55 V/m	Grid 2 M4 26.17 V/m	Grid 3 M4 26.00 V/m
Grid 4 M4 17.88 V/m	Grid 5 M4 24.34 V/m	Grid 6 M4 24.42 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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29.98 V/m	36.60 V/m	36.22 V/m
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Cursor:

Total = 36.60 V/m

E Category: M4

Location: -6, 25, 8.7 mm

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

15 mm from Probe Center to the

Device_Mid_Chan_Full_Rate/Hearing Aid Compatibility Test

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 12.87 V/m; Power Drift = 0.33 dB

PMR not calibrated. PMF = 1.010 is applied.

E-field emissions = 28.23 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 26.51 V/m	Grid 2 M4 28.23 V/m	Grid 3 M4 27.53 V/m
Grid 4 M4 15.45 V/m	Grid 5 M4 23.84 V/m	Grid 6 M4 24.34 V/m
Grid 7 M4 30.02 V/m	Grid 8 M4 39.20 V/m	Grid 9 M4 39.00 V/m

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

15 mm from Probe Center to the

Device_High_Chan_Full_Rate/Hearing Aid Compatibility Test

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 11.38 V/m; Power Drift = -0.06 dB

PMR not calibrated. PMF = 1.010 is applied.

E-field emissions = 26.36 V/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled E-field

Grid 1 M4 24.77 V/m	Grid 2 M4 26.36 V/m	Grid 3 M4 26.03 V/m
Grid 4 M4 13.35 V/m	Grid 5 M4 20.56 V/m	Grid 6 M4 21.03 V/m
Grid 7 M4 27.54 V/m	Grid 8 M4 35.07 V/m	Grid 9 M4 34.77 V/m

Cursor:

Total = 35.07 V/m

E Category: M4

Location: -6, 25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the
Device_Mid_Chan_1/8th_Rate/Hearing Aid Compatibility Test
(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 4.858 V/m; Power Drift = -0.35 dB

PMR not calibrated. PMF = 2.670 is applied.

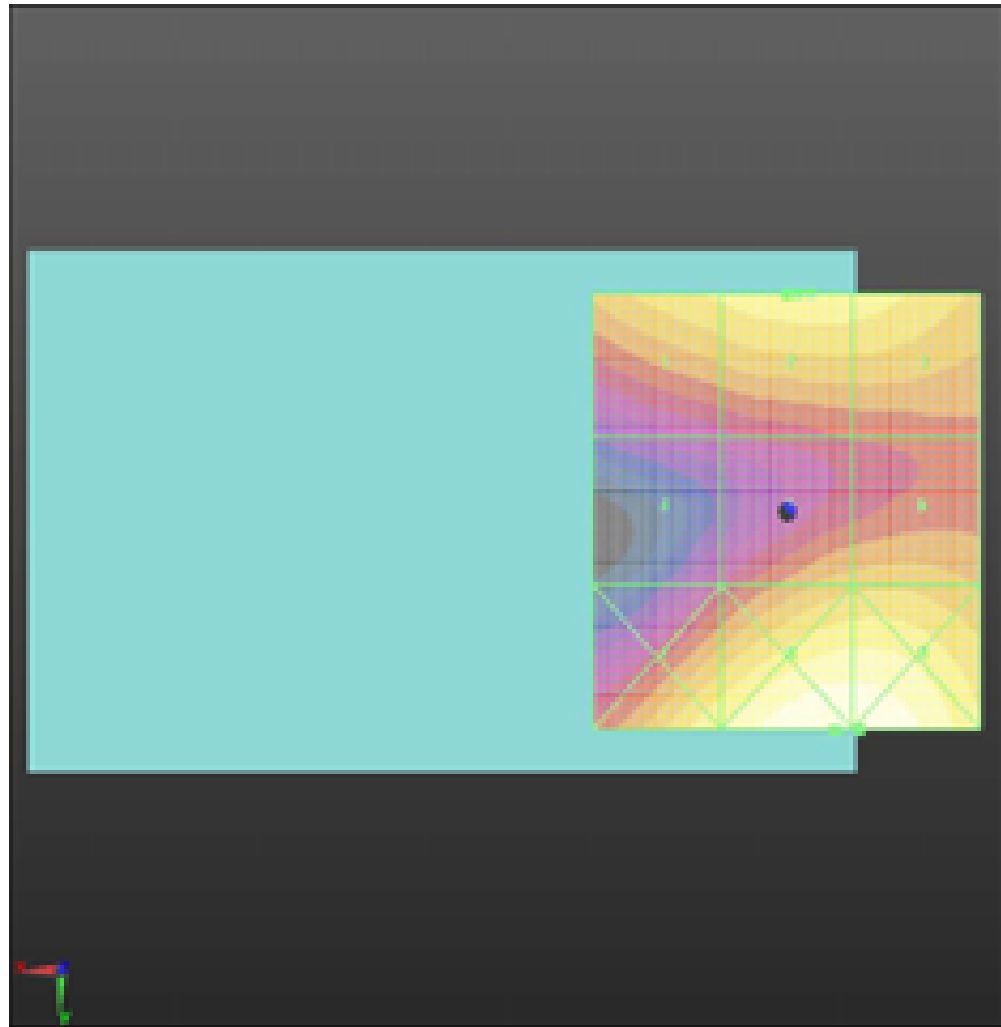
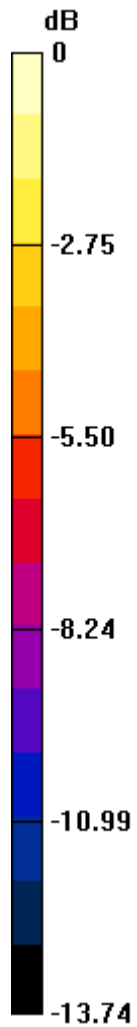
E-field emissions = 28.19 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 24.55 V/m	Grid 2 M4 28.19 V/m	Grid 3 M4 25.60 V/m
Grid 4 M4 14.53 V/m	Grid 5 M4 24.38 V/m	Grid 6 M4 25.99 V/m
Grid 7 M4 27.19 V/m	Grid 8 M4 39.17 V/m	Grid 9 M4 39.67 V/m

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0 dB = 36.23 V/m = 31.18 dBV/m

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Date/Time: 4/3/2013 6:52:47 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA1900_Telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 303E5577

Communication System: CDMA 1900 1/8th Rate; Frequency: 1880 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from
Probe Center to the_Device_Mid_Chan_1/8th_Rate_Telecoil/Hearing Aid
Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 4.649 V/m; Power Drift = -0.12 dB

PMR not calibrated. PMF = 2.670 is applied.

E-field emissions = 30.82 V/m

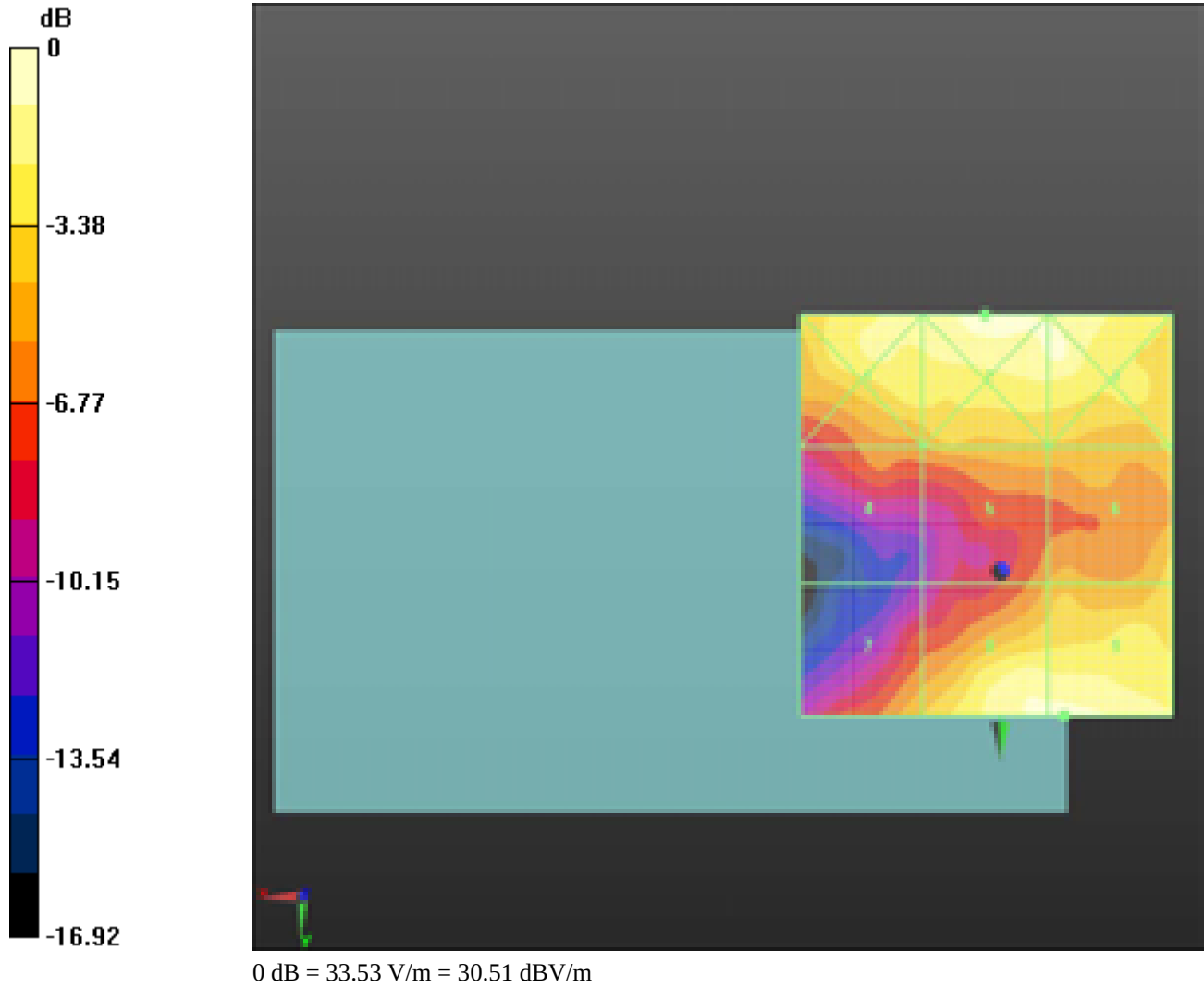
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 28.03 V/m	Grid 2 M4 33.53 V/m	Grid 3 M4 30.41 V/m
Grid 4 M4 17.34 V/m	Grid 5 M4 19.59 V/m	Grid 6 M4 21.52 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW	

20.14 V/m	30.61 V/m	30.82 V/m
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		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFM121LW		Page 119 (154)
Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW	

Date/Time: 4/4/2013 4:57:29 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_850

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

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

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_low_chan/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.04500 A/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.2785 A/m

Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

Grid 1 M4 0.279 A/m	Grid 2 M4 0.198 A/m	Grid 3 M4 0.133 A/m
Grid 4 M4 0.235 A/m	Grid 5 M4 0.170 A/m	Grid 6 M4 0.111 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW	

0.218 A/m	0.156 A/m	0.095 A/m
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Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_mid_chan/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.04600 A/m; Power Drift = -0.08 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.2667 A/m

Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

Grid 1 M4 0.267 A/m	Grid 2 M4 0.199 A/m	Grid 3 M4 0.139 A/m
Grid 4 M4 0.227 A/m	Grid 5 M4 0.170 A/m	Grid 6 M4 0.116 A/m
Grid 7 M4 0.217 A/m	Grid 8 M4 0.159 A/m	Grid 9 M4 0.097 A/m

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_high_chan/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.05500 A/m; Power Drift = -0.18 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.2981 A/m

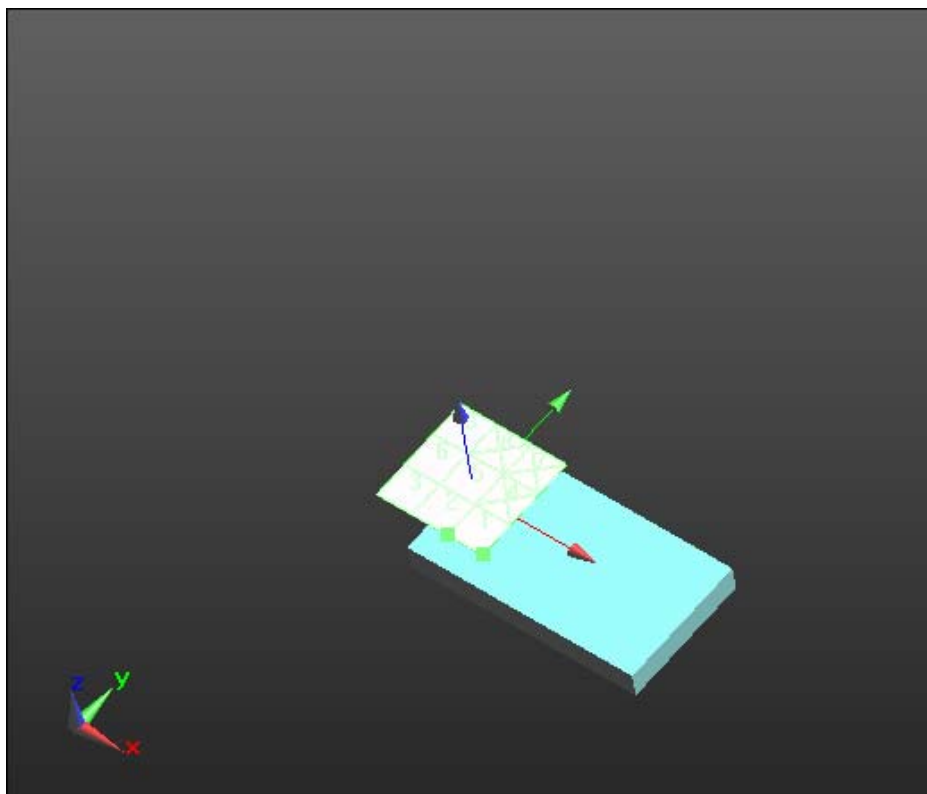
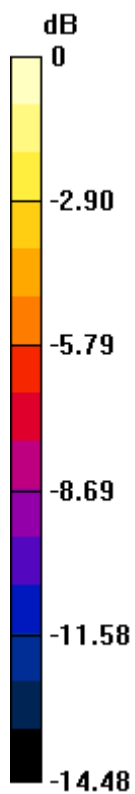
Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

Grid 1 M4 0.298 A/m	Grid 2 M4 0.224 A/m	Grid 3 M4 0.153 A/m
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	Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW

Grid 4 M4 0.257 A/m	Grid 5 M4 0.196 A/m	Grid 6 M4 0.132 A/m
Grid 7 M4 0.253 A/m	Grid 8 M4 0.192 A/m	Grid 9 M4 0.126 A/m



0 dB = 0.2777 A/m = -11.13 dBA/m

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Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW	

Date/Time: 4/4/2013 5:08:10 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_850-Telecoil

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

Communication System: GSM 850; Frequency: 848.8 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.05400 A/m; Power Drift = 0.05 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.3164 A/m

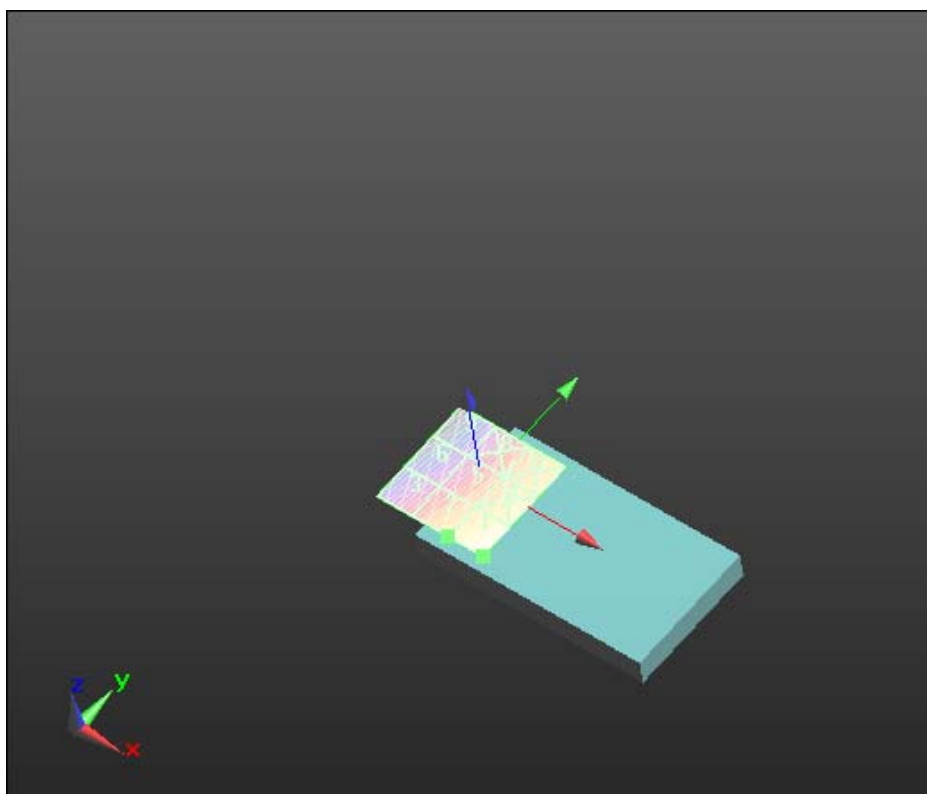
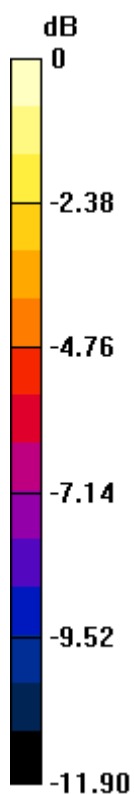
Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

Grid 1 M4 0.316 A/m	Grid 2 M4 0.242 A/m	Grid 3 M4 0.169 A/m
Grid 4 M4 0.276 A/m	Grid 5 M4 0.212 A/m	Grid 6 M4 0.148 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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0.248 A/m	0.193 A/m	0.131 A/m
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0 dB = 0.3154 A/m = -10.02 dBA/m

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Date/Time: 4/4/2013 5:15:54 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_V

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

Communication System: WCDMA FDD V; Frequency: 826.4 MHz, Frequency: 836.4 MHz,
Frequency: 846.6 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

**Device H-Field meausrement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm
from Probe Center to the Device_low_chan/Hearing Aid Compatibility Test
(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.05300 A/m; Power Drift = -0.06 dB

PMR not calibrated. PMF = 1.090 is applied.

H-field emissions = 0.1184 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.118 A/m	Grid 2 M4 0.087 A/m	Grid 3 M4 0.059 A/m
Grid 4 M4 0.100 A/m	Grid 5 M4 0.075 A/m	Grid 6 M4 0.049 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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0.096 A/m	0.070 A/m	0.043 A/m
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Cursor:

Total = 0.1184 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_mid_chan/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.05500 A/m; Power Drift = 0.05 dB

PMR not calibrated. PMF = 1.090 is applied.

H-field emissions = 0.1207 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.121 A/m	Grid 2 M4 0.090 A/m	Grid 3 M4 0.064 A/m
Grid 4 M4 0.102 A/m	Grid 5 M4 0.076 A/m	Grid 6 M4 0.053 A/m
Grid 7 M4 0.096 A/m	Grid 8 M4 0.070 A/m	Grid 9 M4 0.044 A/m

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Cursor:

Total = 0.1207 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_high_chan/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.05600 A/m; Power Drift = 0.12 dB

PMR not calibrated. PMF = 1.090 is applied.

H-field emissions = 0.1154 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.115 A/m	Grid 2 M4 0.089 A/m	Grid 3 M4 0.060 A/m
Grid 4 M4 0.100 A/m	Grid 5 M4 0.079 A/m	Grid 6 M4 0.053 A/m
Grid 7 M4 0.100 A/m	Grid 8 M4 0.077 A/m	Grid 9 M4 0.050 A/m

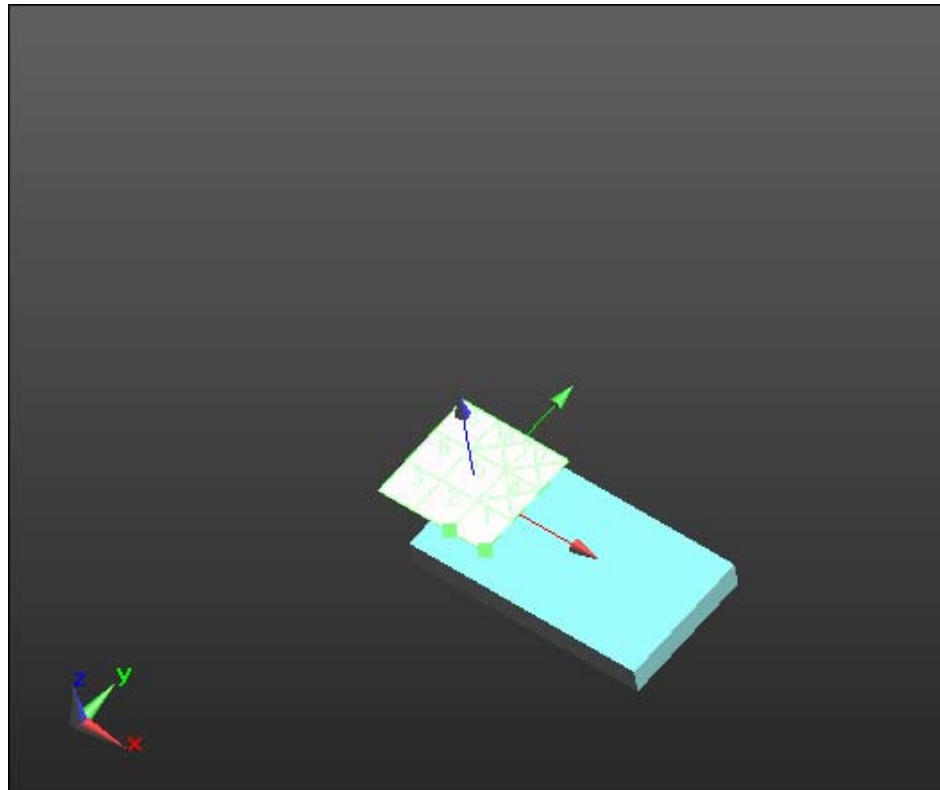
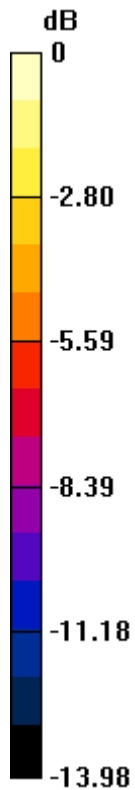
Cursor:

Total = 0.1154 A/m

H Category: M4

Location: 25, -25, 8.7 mm

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0 dB = 0.1184 A/m = -18.53 dBA/m

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Date/Time: 4/4/2013 5:22:57 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_V_Telecoil

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.05500 A/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 1.090 is applied.

H-field emissions = 0.1300 A/m

Near-field category: M4 (AWF 0 dB)

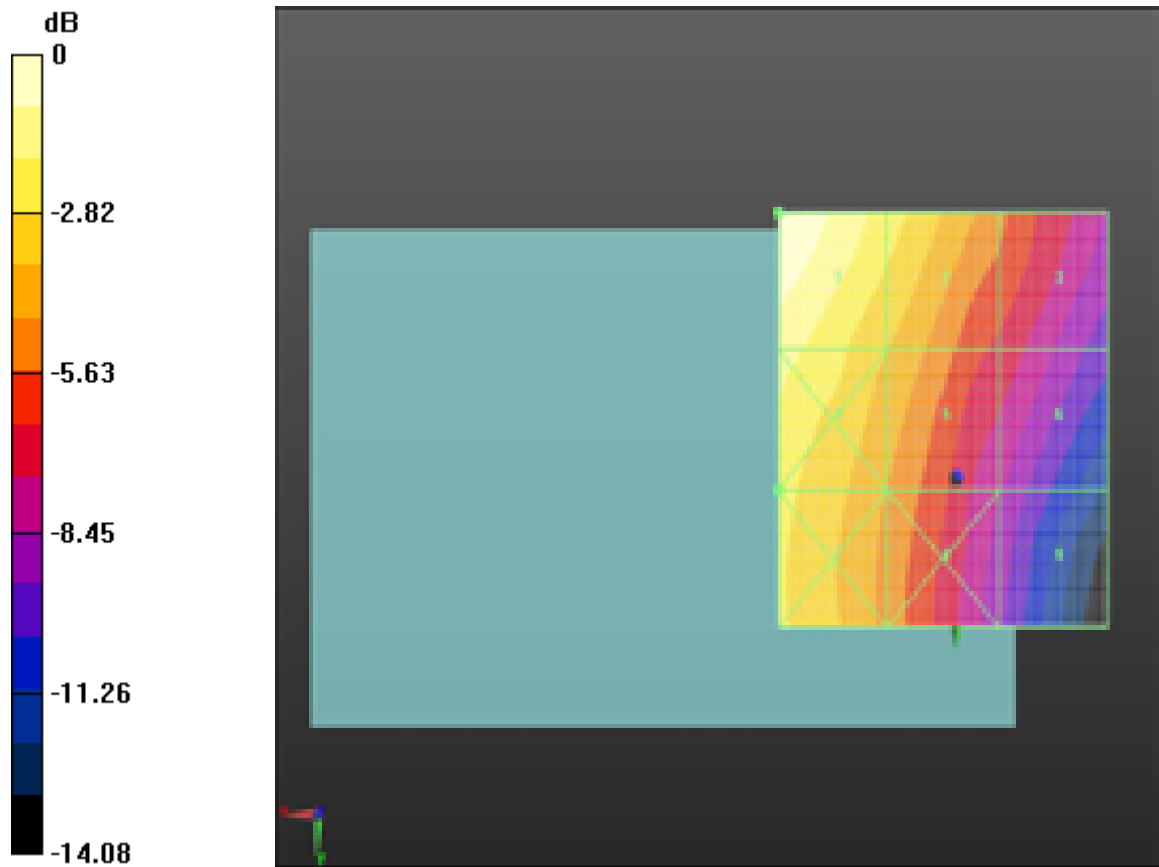
PMF scaled H-field

Grid 1 M4 0.130 A/m	Grid 2 M4 0.100 A/m	Grid 3 M4 0.070 A/m
Grid 4 M4 0.110 A/m	Grid 5 M4 0.085 A/m	Grid 6 M4 0.060 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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0.099 A/m	0.076 A/m	0.050 A/m
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Cursor:
Total = 0.1300 A/m
H Category: M4
Location: 27, -32, 8.7 mm



0 dB = 0.1300 A/m = -17.72 dBA/m

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Date/Time: 4/4/2013 4:42:51 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_1900

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

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

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

**Device H-Field meaurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm
from Probe Center to the Device_low_chan/Hearing Aid Compatibility Test
(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.05000 A/m; Power Drift = 0.15 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.1844 A/m

Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

Grid 1 M3 0.184 A/m	Grid 2 M3 0.140 A/m	Grid 3 M3 0.140 A/m
Grid 4 M4 0.129 A/m	Grid 5 M3 0.141 A/m	Grid 6 M3 0.141 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW	

0.123 A/m	0.125 A/m	0.125 A/m
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Cursor:

Total = 0.1844 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_mid_chan/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.06200 A/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.1797 A/m

Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

Grid 1 M3 0.180 A/m	Grid 2 M3 0.166 A/m	Grid 3 M3 0.166 A/m
Grid 4 M3 0.151 A/m	Grid 5 M3 0.166 A/m	Grid 6 M3 0.166 A/m
Grid 7 M3 0.169 A/m	Grid 8 M3 0.149 A/m	Grid 9 M3 0.144 A/m

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_high_chan/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.06900 A/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 2.860 is applied.

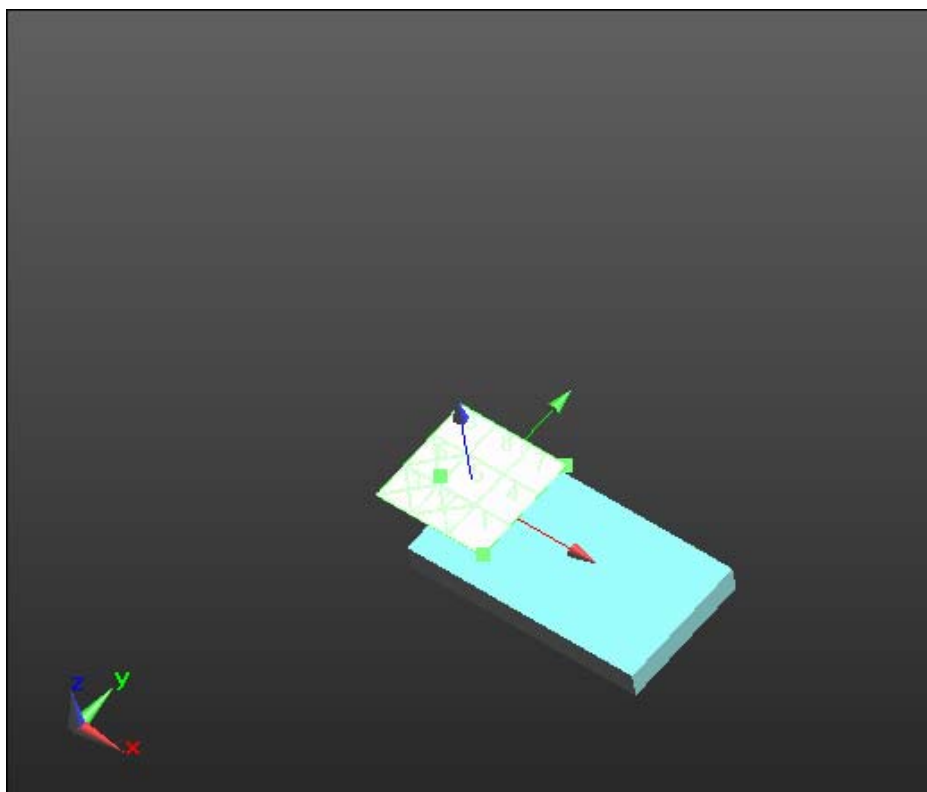
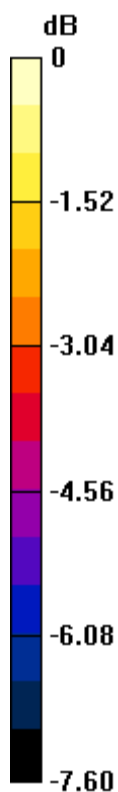
H-field emissions = 0.1959 A/m

Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

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Grid 1 M3 0.196 A/m	Grid 2 M3 0.192 A/m	Grid 3 M3 0.193 A/m
Grid 4 M3 0.151 A/m	Grid 5 M3 0.193 A/m	Grid 6 M3 0.194 A/m
Grid 7 M3 0.182 A/m	Grid 8 M3 0.179 A/m	Grid 9 M3 0.179 A/m



0 dB = 0.1858 A/m = -14.62 dBA/m

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Date/Time: 4/4/2013 4:53:26 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_1900-Telecoil

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

Communication System: GSM 1900; Frequency: 1909.8 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.06900 A/m; Power Drift = 0.18 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.1965 A/m

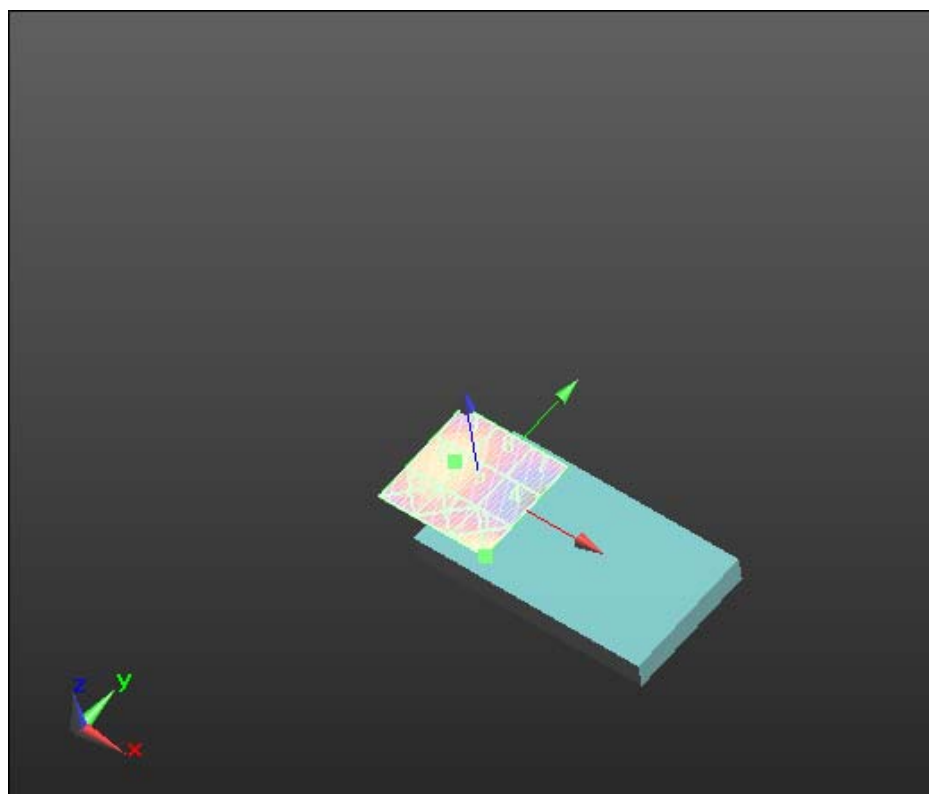
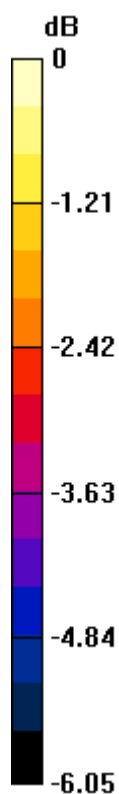
Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

Grid 1 M3 0.226 A/m	Grid 2 M3 0.185 A/m	Grid 3 M3 0.188 A/m
Grid 4 M3 0.151 A/m	Grid 5 M3 0.193 A/m	Grid 6 M3 0.196 A/m
Grid 7 M3	Grid 8 M3	Grid 9 M3

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFM121LW		Page 134 (154)
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0.160 A/m	0.190 A/m	0.193 A/m
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0 dB = 0.2281 A/m = -12.84 dBA/m

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Date/Time: 4/4/2013 1:24:24 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_1900_Telecoil_2100mA_Battery

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

Communication System: GSM 1900; Frequency: 1909.8 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Device H-Field meausrement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_telecoil_2100mA_Battery/Hearing Aid

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.07000 A/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.1953 A/m

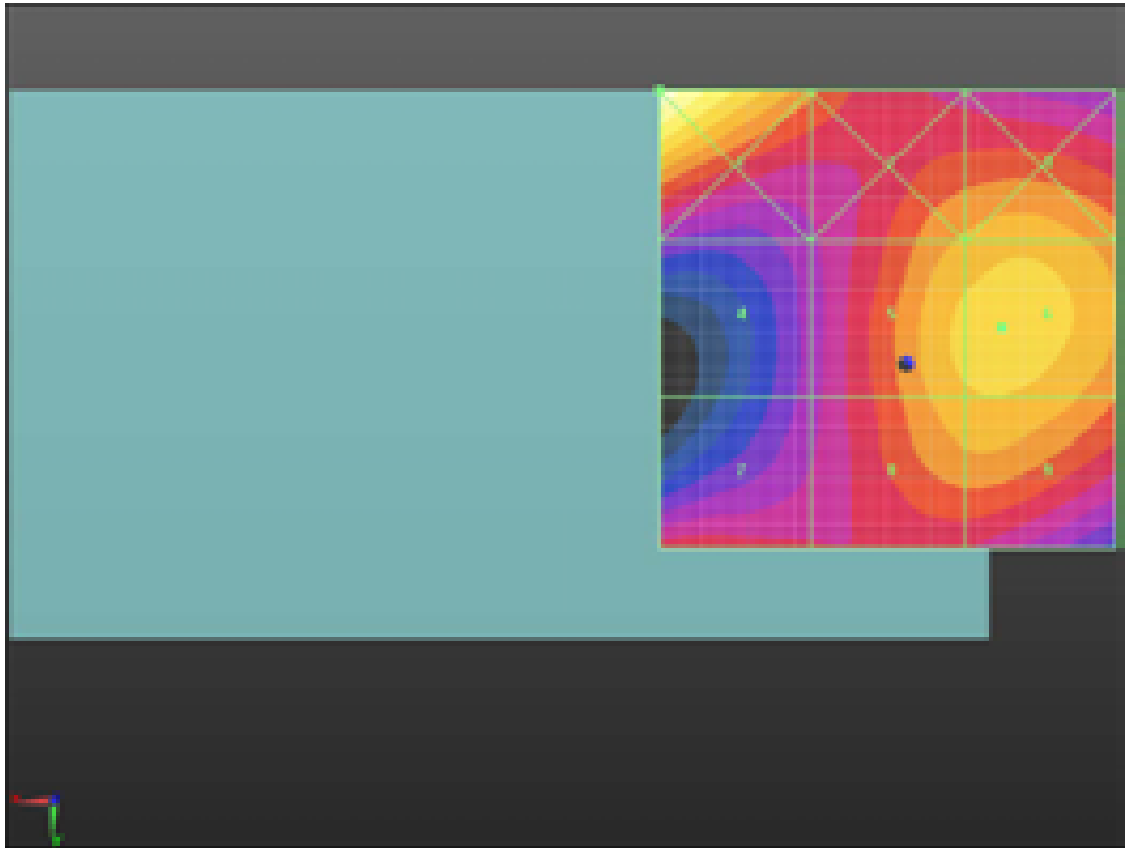
Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

Grid 1 M3 0.226 A/m	Grid 2 M3 0.183 A/m	Grid 3 M3 0.187 A/m
Grid 4 M3 0.150 A/m	Grid 5 M3 0.192 A/m	Grid 6 M3 0.195 A/m
Grid 7 M3	Grid 8 M3	Grid 9 M3

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0.165 A/m	0.188 A/m	0.190 A/m
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0 dB = 0.2272 A/m = -12.87 dBA/m

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Date/Time: 4/4/2013 5:52:03 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_II

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz, Frequency: 1880 MHz,
Frequency: 1907.6 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

**Device H-Field meausrement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm
from Probe Center to the Device_low_chan/Hearing Aid Compatibility Test
(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.08200 A/m; Power Drift = 0.08 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.09032 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.090 A/m	Grid 2 M4 0.079 A/m	Grid 3 M4 0.079 A/m
Grid 4 M4 0.071 A/m	Grid 5 M4 0.079 A/m	Grid 6 M4 0.079 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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0.076 A/m	0.070 A/m	0.070 A/m
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Cursor:

Total = 0.09032 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_mid_chan/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.09200 A/m; Power Drift = 0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.09346 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.093 A/m	Grid 2 M4 0.087 A/m	Grid 3 M4 0.086 A/m
Grid 4 M4 0.080 A/m	Grid 5 M4 0.087 A/m	Grid 6 M4 0.086 A/m
Grid 7 M4 0.093 A/m	Grid 8 M4 0.079 A/m	Grid 9 M4 0.077 A/m

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Cursor:

Total = 0.09346 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_high_chan/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.1020 A/m; Power Drift = 0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.09856 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.097 A/m	Grid 2 M4 0.098 A/m	Grid 3 M4 0.098 A/m
Grid 4 M4 0.080 A/m	Grid 5 M4 0.099 A/m	Grid 6 M4 0.099 A/m
Grid 7 M4 0.091 A/m	Grid 8 M4 0.091 A/m	Grid 9 M4 0.091 A/m

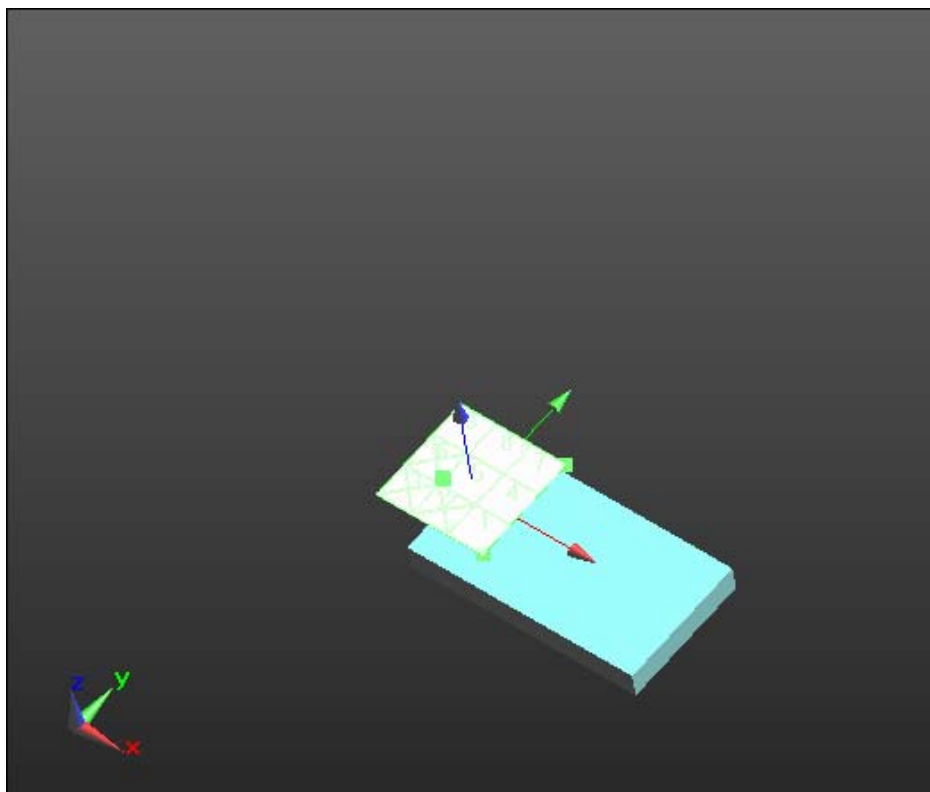
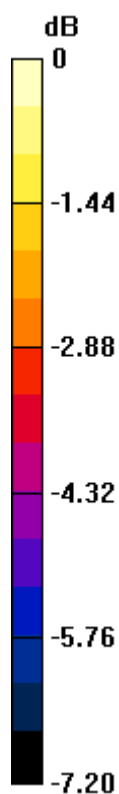
Cursor:

Total = 0.09871 A/m

H Category: M4

Location: -10, -5.5, 8.7 mm

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0 dB = 0.09032 A/m = -20.88 dBA/m

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Date/Time: 4/4/2013 9:30:08 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_II_Telecoil

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.09800 A/m; Power Drift = 0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.1080 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.108 A/m	Grid 2 M4 0.092 A/m	Grid 3 M4 0.093 A/m
Grid 4 M4 0.077 A/m	Grid 5 M4 0.095 A/m	Grid 6 M4 0.096 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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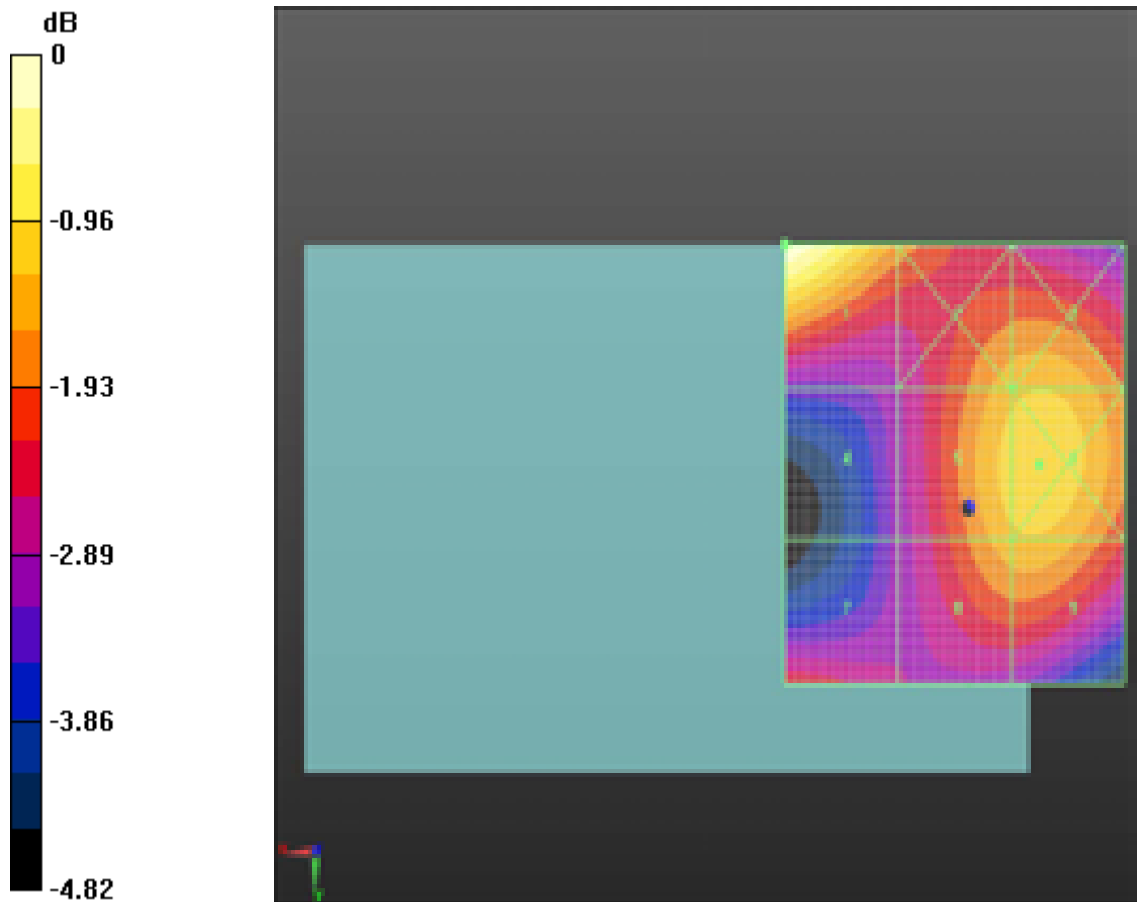
0.083 A/m	0.092 A/m	0.093 A/m
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Cursor:

Total = 0.1080 A/m

H Category: M4

Location: 27, -30, 8.7 mm



0 dB = 0.1080 A/m = -19.33 dBA/m

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Date/Time: 4/4/2013 10:08:26 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA850

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

Communication System: CDMA 850, Communication System: CDMA 850 1/8th Rate;
Frequency: 824.7 MHz, Frequency: 836.52 MHz, Frequency: 848.52 MHz
Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.07500 A/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.030 is applied.

H-field emissions = 0.1220 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.122 A/m	Grid 2 M4 0.090 A/m	Grid 3 M4 0.058 A/m
Grid 4 M4 0.130 A/m	Grid 5 M4 0.097 A/m	Grid 6 M4 0.066 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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0.154 A/m	0.113 A/m	0.078 A/m
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Cursor:

Total = 0.1541 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_mid_chan_Full_Rate/Hearing Aid Compatibility Test

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.07100 A/m; Power Drift = 0.12 dB

PMR not calibrated. PMF = 1.030 is applied.

H-field emissions = 0.1225 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.123 A/m	Grid 2 M4 0.089 A/m	Grid 3 M4 0.055 A/m
Grid 4 M4 0.127 A/m	Grid 5 M4 0.095 A/m	Grid 6 M4 0.064 A/m
Grid 7 M4 0.150 A/m	Grid 8 M4 0.111 A/m	Grid 9 M4 0.077 A/m

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Cursor:

Total = 0.1500 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_high_chan_Full_Rate/Hearing Aid Compatibility Test**

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.09500 A/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.030 is applied.

H-field emissions = 0.1434 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.143 A/m	Grid 2 M4 0.111 A/m	Grid 3 M4 0.076 A/m
Grid 4 M4 0.153 A/m	Grid 5 M4 0.121 A/m	Grid 6 M4 0.089 A/m
Grid 7 M4 0.180 A/m	Grid 8 M4 0.141 A/m	Grid 9 M4 0.105 A/m

Cursor:

Total = 0.1804 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_high_chan_1/8th_Rate/Hearing Aid Compatibility Test**

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.03900 A/m; Power Drift = 0.08 dB

PMR not calibrated. PMF = 2.650 is applied.

H-field emissions = 0.1511 A/m

Near-field category: M4 (AWF 0 dB)

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PMF scaled H-field

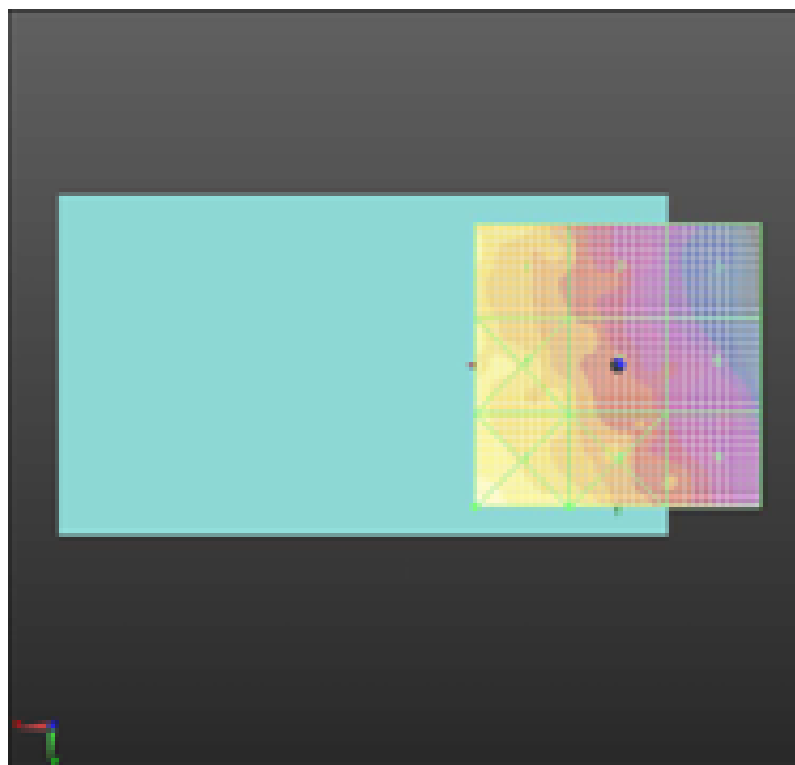
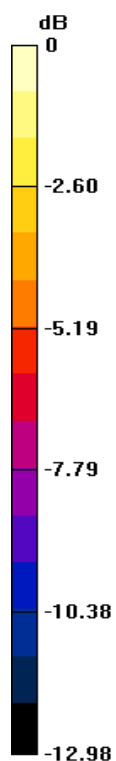
Grid 1 M4 0.151 A/m	Grid 2 M4 0.111 A/m	Grid 3 M4 0.073 A/m
Grid 4 M4 0.158 A/m	Grid 5 M4 0.125 A/m	Grid 6 M4 0.087 A/m
Grid 7 M4 0.191 A/m	Grid 8 M4 0.151 A/m	Grid 9 M4 0.105 A/m

Cursor:

Total = 0.1913 A/m

H Category: M4

Location: 25, 25, 8.7 mm



0 dB = 0.1541 A/m = -16.24 dBA/m

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Date/Time: 4/4/2013 11:58:51 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA850_Telecoil

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

Communication System: CDMA 850 1/8th Rate; Frequency: 848.52 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Device H-Field meausrement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_telecoil_1/8th Rate/Hearing Aid Compatibility

Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.03400 A/m; Power Drift = 0.27 dB

PMR not calibrated. PMF = 2.650 is applied.

H-field emissions = 0.1626 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.137 A/m	Grid 2 M4 0.108 A/m	Grid 3 M4 0.073 A/m
Grid 4 M4 0.142 A/m	Grid 5 M4 0.114 A/m	Grid 6 M4 0.084 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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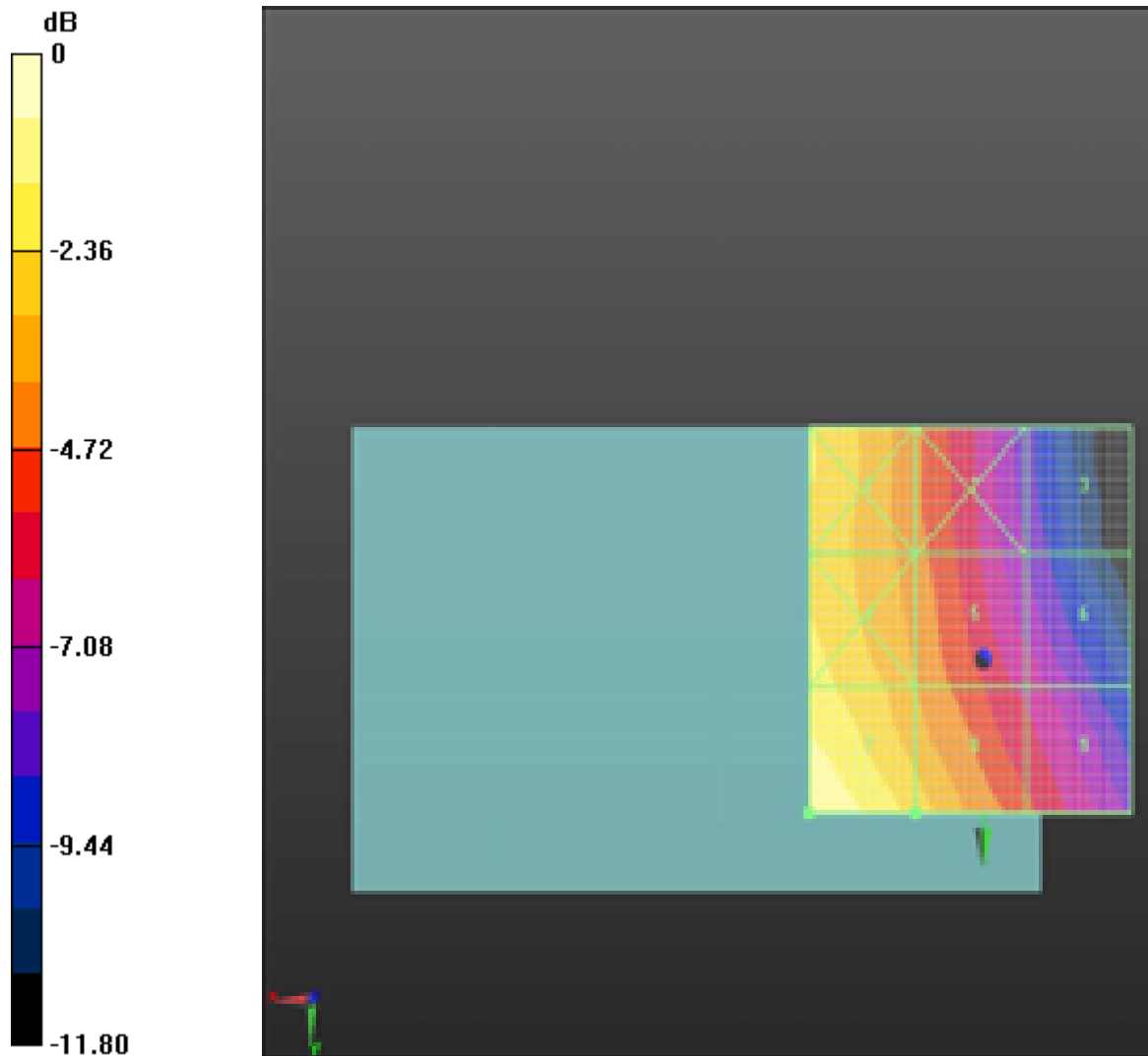
0.163 A/m	0.131 A/m	0.098 A/m
------------------	------------------	------------------

Cursor:

Total = 0.1626 A/m

H Category: M4

Location: 27, 20, 8.7 mm



0 dB = 0.1779 A/m = -15.00 dBA/m

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Date/Time: 4/4/2013 11:07:00 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA1900

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

Communication System: CDMA 1900, Communication System: CDMA 1900 1/8th Rate;
Frequency: 1851.25 MHz, Frequency: 1880 MHz, Frequency: 1908.5 MHz
Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

**Device H-Field meausrement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm
from Probe Center to the Device_low_chan_Full_Rate/Hearing Aid**

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.08400 A/m; Power Drift = -0.13 dB

PMR not calibrated. PMF = 0.9900 is applied.

H-field emissions = 0.08507 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.059 A/m	Grid 2 M4 0.083 A/m	Grid 3 M4 0.084 A/m
Grid 4 M4 0.062 A/m	Grid 5 M4 0.084 A/m	Grid 6 M4 0.085 A/m

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Grid 7 M4 0.086 A/m	Grid 8 M4 0.080 A/m	Grid 9 M4 0.080 A/m
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Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_mid_chan_Full_Rate/Hearing Aid Compatibility Test

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.09100 A/m; Power Drift = 0.17 dB

PMR not calibrated. PMF = 0.9900 is applied.

H-field emissions = 0.09190 A/m

Near-field category: **M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 M4 0.065 A/m	Grid 2 M4 0.089 A/m	Grid 3 M4 0.089 A/m
Grid 4 M4 0.071 A/m	Grid 5 M4 0.091 A/m	Grid 6 M4 0.092 A/m
Grid 7 M4 0.096 A/m	Grid 8 M4 0.088 A/m	Grid 9 M4 0.088 A/m

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

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.08500 A/m; Power Drift = 0.19 dB

PMR not calibrated. PMF = 0.9900 is applied.

H-field emissions = 0.08743 A/m

Near-field category: **M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 M4	Grid 2 M4	Grid 3 M4
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0.059 A/m	0.084 A/m	0.085 A/m
Grid 4 M4 0.069 A/m	Grid 5 M4 0.087 A/m	Grid 6 M4 0.087 A/m
Grid 7 M4 0.095 A/m	Grid 8 M4 0.084 A/m	Grid 9 M4 0.085 A/m

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_mid_chan_1/8th_Rate/Hearing Aid Compatibility Test

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.03200 A/m; Power Drift = -0.09 dB

PMR not calibrated. PMF = 2.600 is applied.

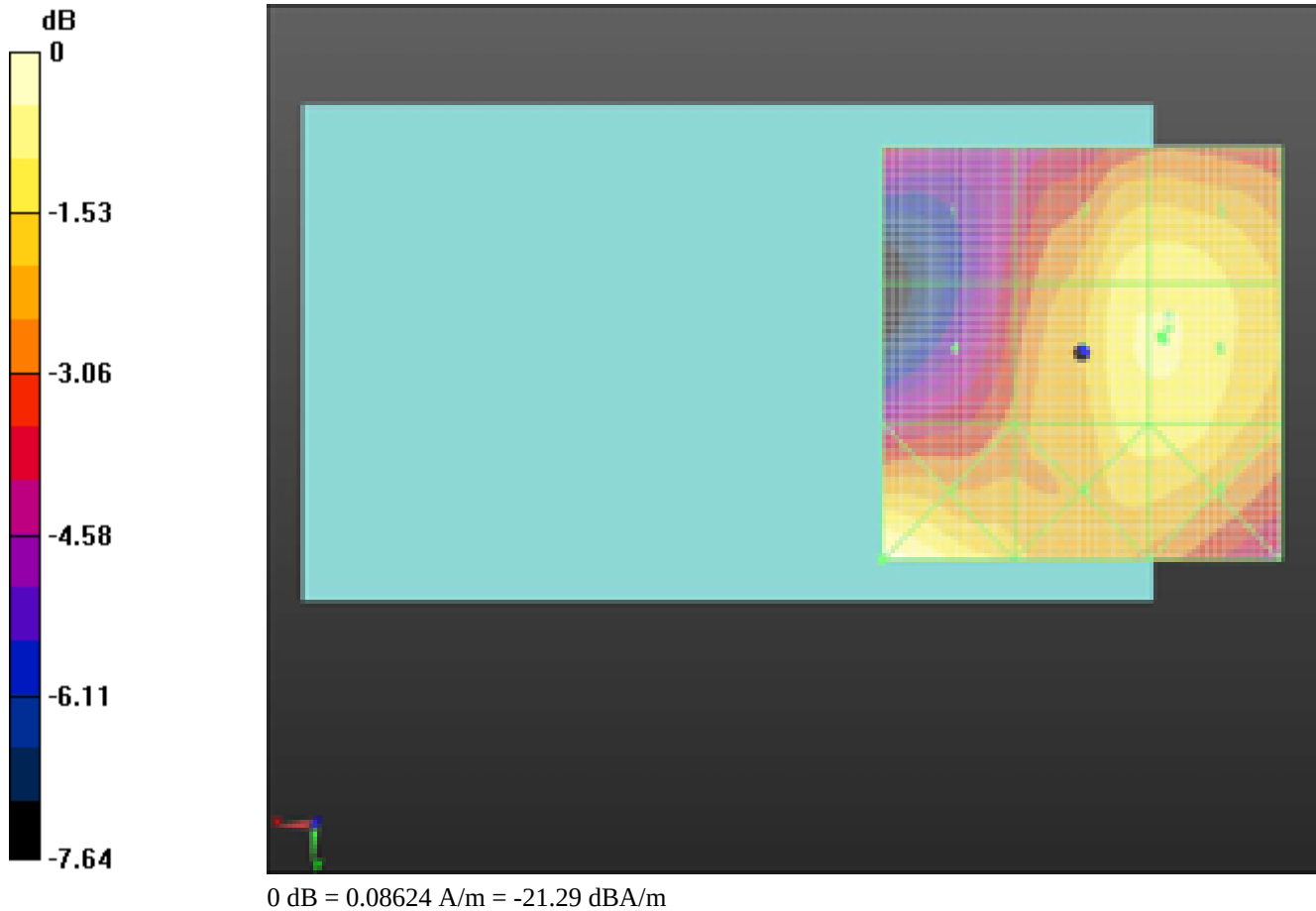
H-field emissions = 0.08217 A/m

Near-field category: **M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 M4 0.059 A/m	Grid 2 M4 0.080 A/m	Grid 3 M4 0.080 A/m
Grid 4 M4 0.065 A/m	Grid 5 M4 0.082 A/m	Grid 6 M4 0.082 A/m
Grid 7 M4 0.090 A/m	Grid 8 M4 0.080 A/m	Grid 9 M4 0.080 A/m

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Author Data Daoud Attayi	Dates of Test Feb. 17-29, June 28, 2012 April 03-04, 2013	Report No RTS-6026-1304-09	FCC ID L6ARFM120LW



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Date/Time: 4/4/2013 11:52:41 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA1900_Telecoil

DUT: BlackBerry Smartphone; Type: Sample; Serial: 303E5577

Communication System: CDMA 1900; Frequency: 1880 MHz

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_telecoil_Full_Rate/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.09200 A/m; Power Drift = -0.00 dB

PMR not calibrated. PMF = 0.9900 is applied.

H-field emissions = 0.08692 A/m

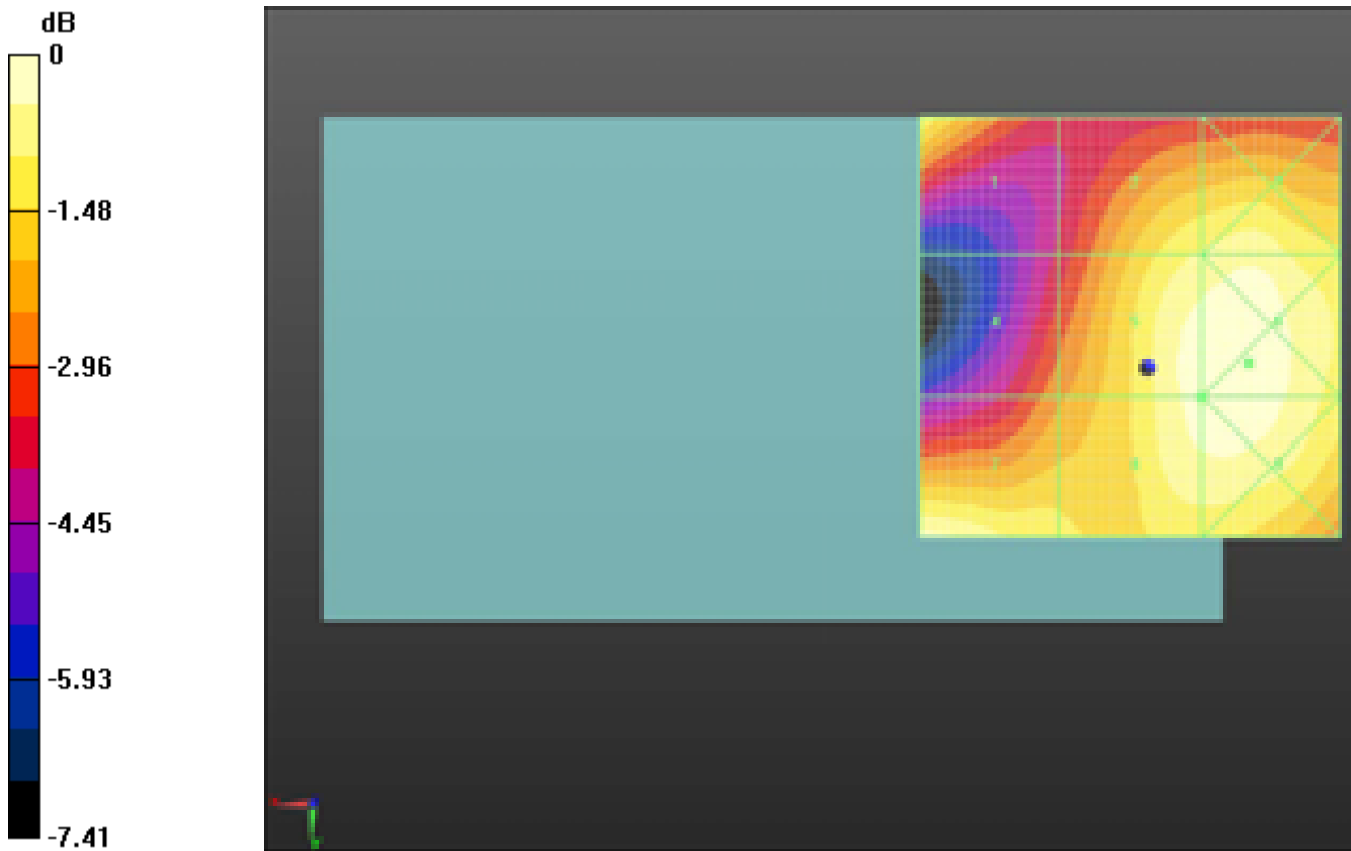
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.080 A/m	Grid 2 M4 0.080 A/m	Grid 3 M4 0.083 A/m
Grid 4 M4 0.066 A/m	Grid 5 M4 0.087 A/m	Grid 6 M4 0.089 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

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0.086 A/m	0.087 A/m	0.088 A/m
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0 dB = 0.08924 A/m = -20.99 dBA/m