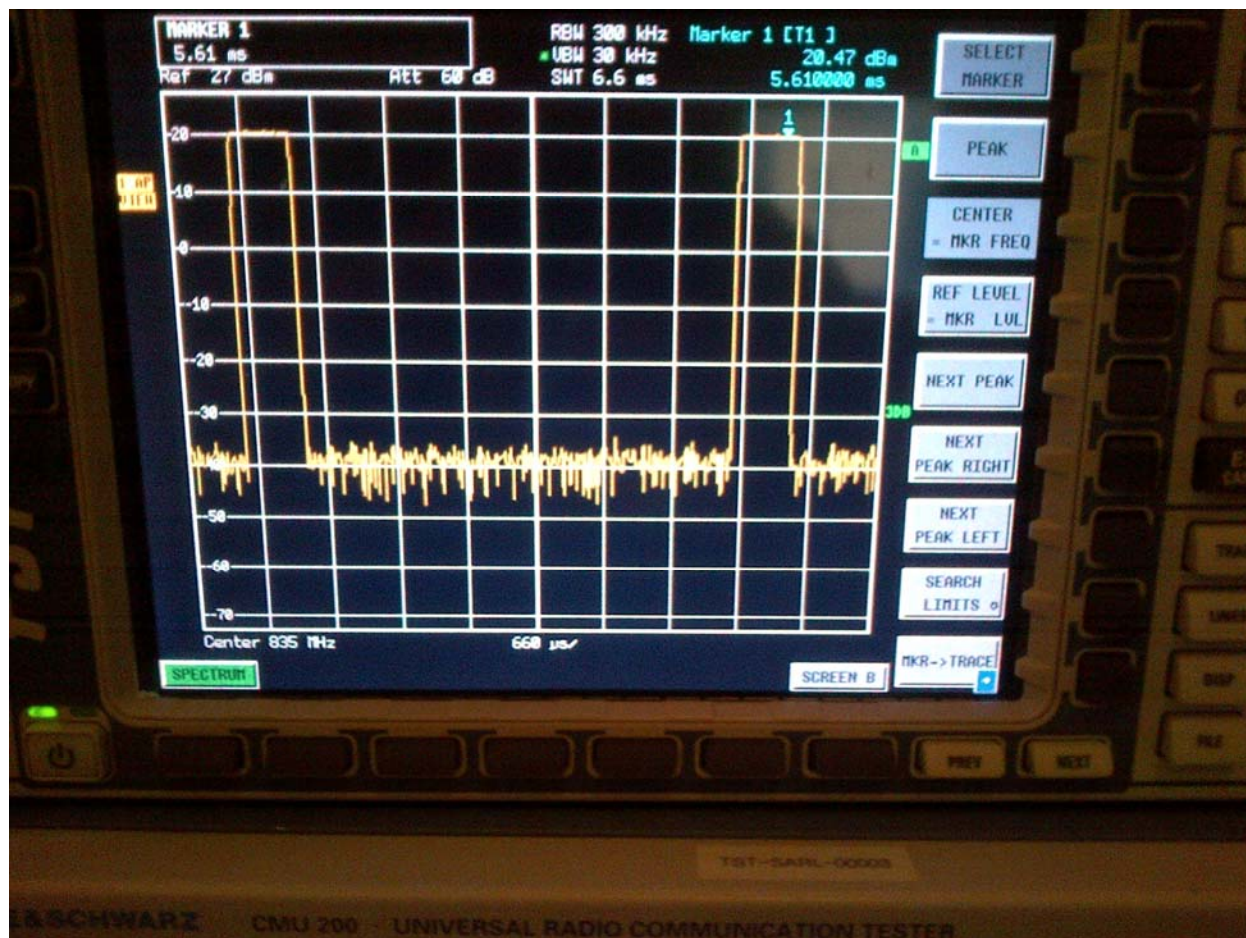


		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 1 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Annex A: Measurement data and plots

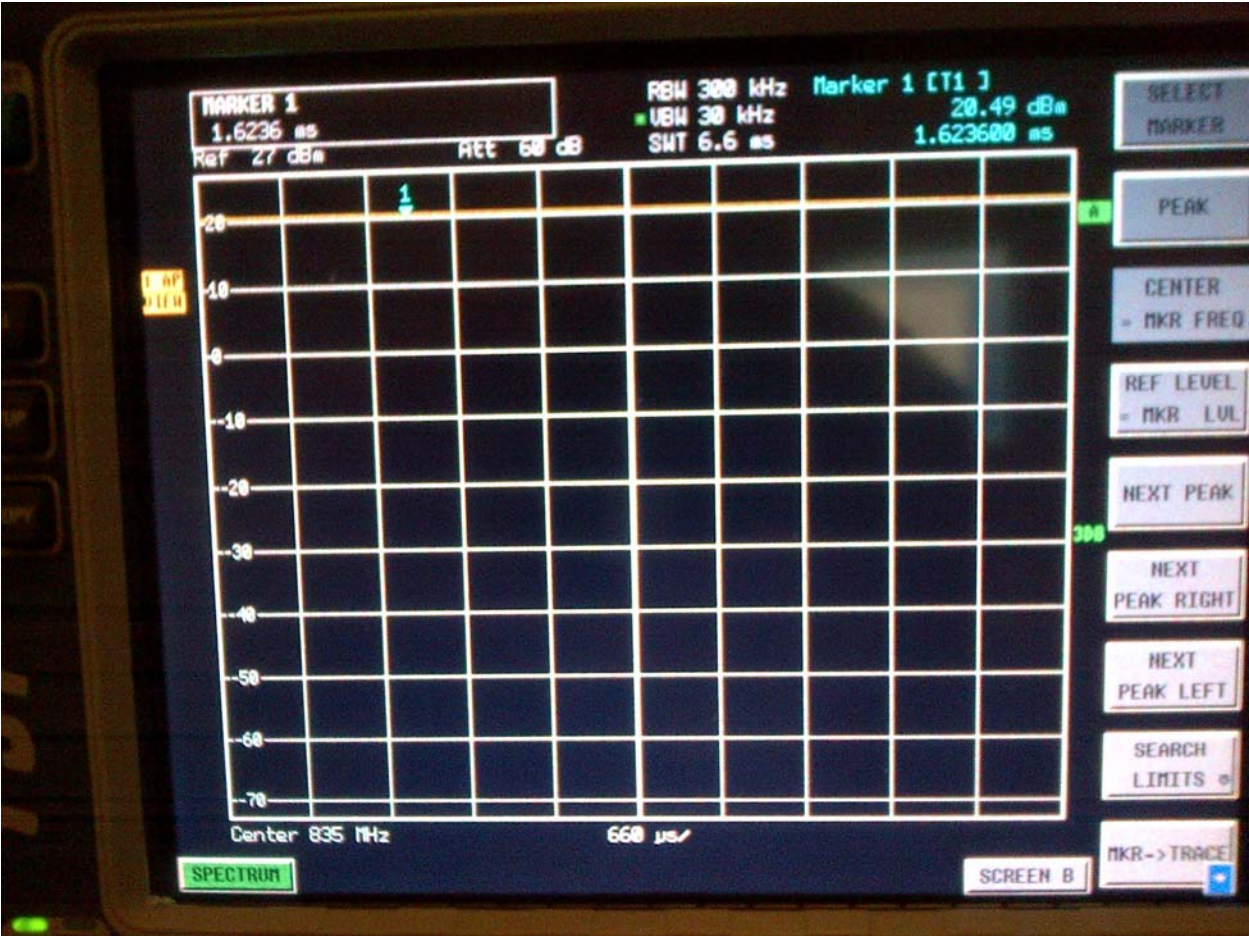
A.1 Spectrum analyser plots: GSM/UMTS, CW, 80%AM, signals

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 2 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	



GSM 835 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 3 (125)
	Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53



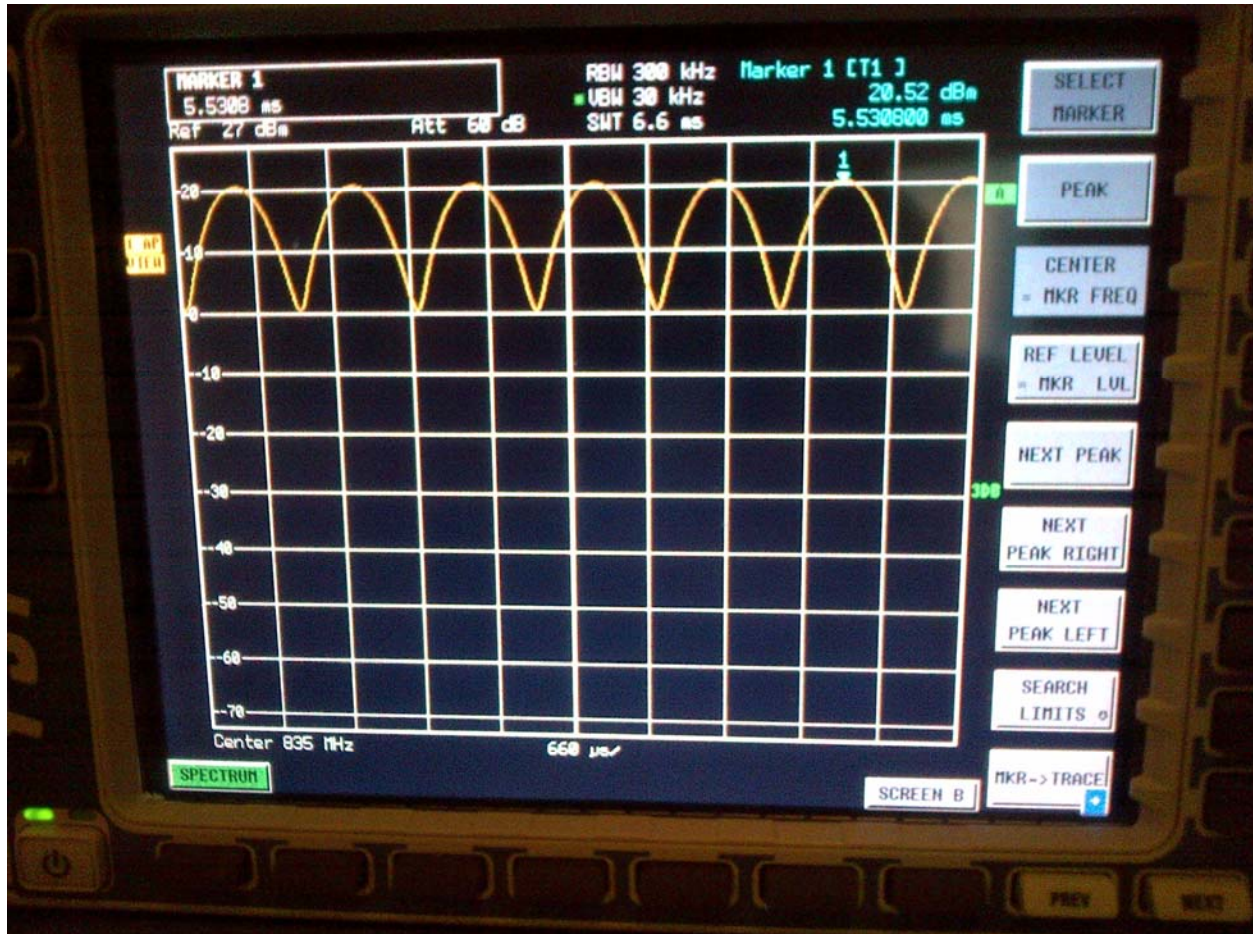
CW 835 MHz

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

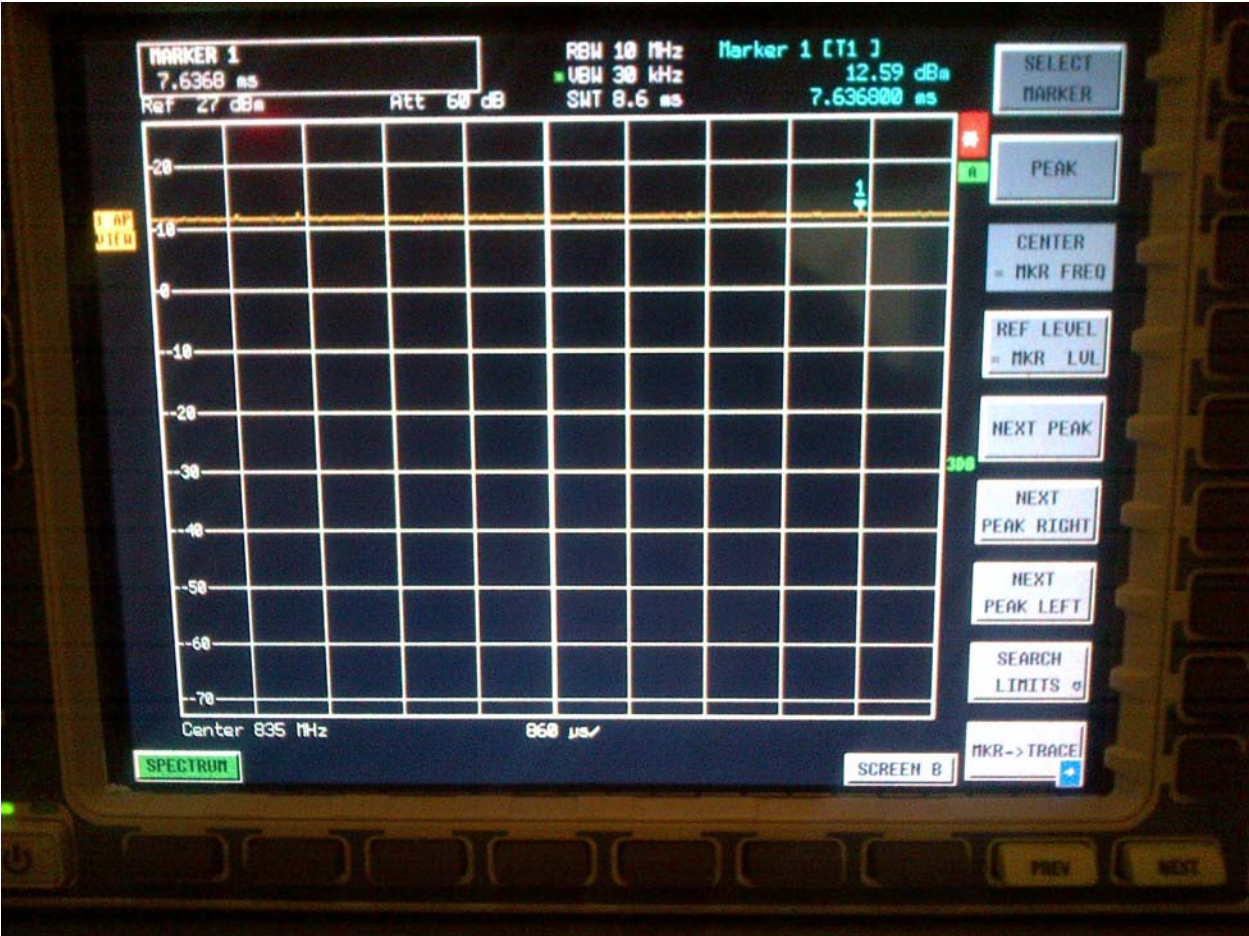
Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW



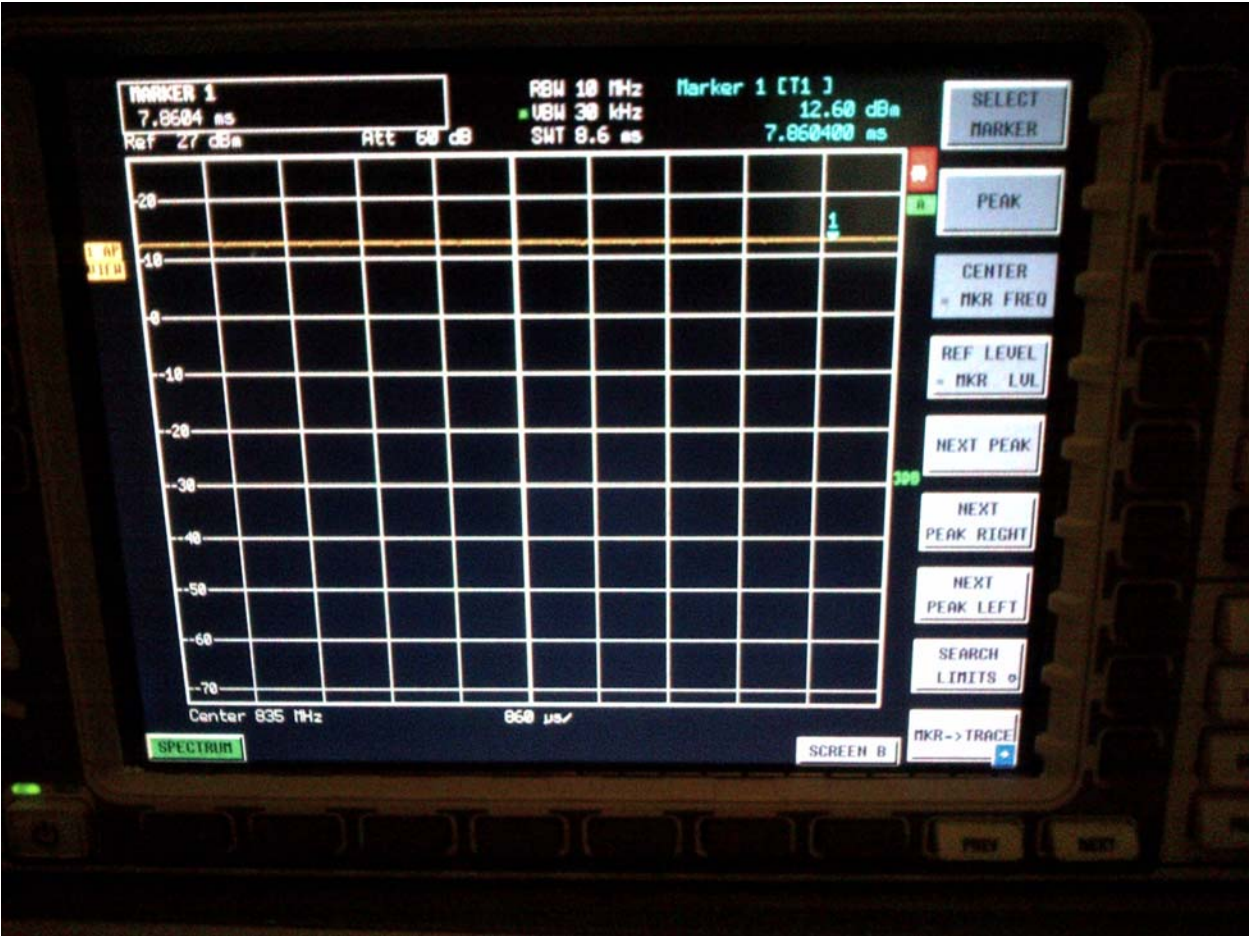
AM 80% 835 MHz

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 5 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	



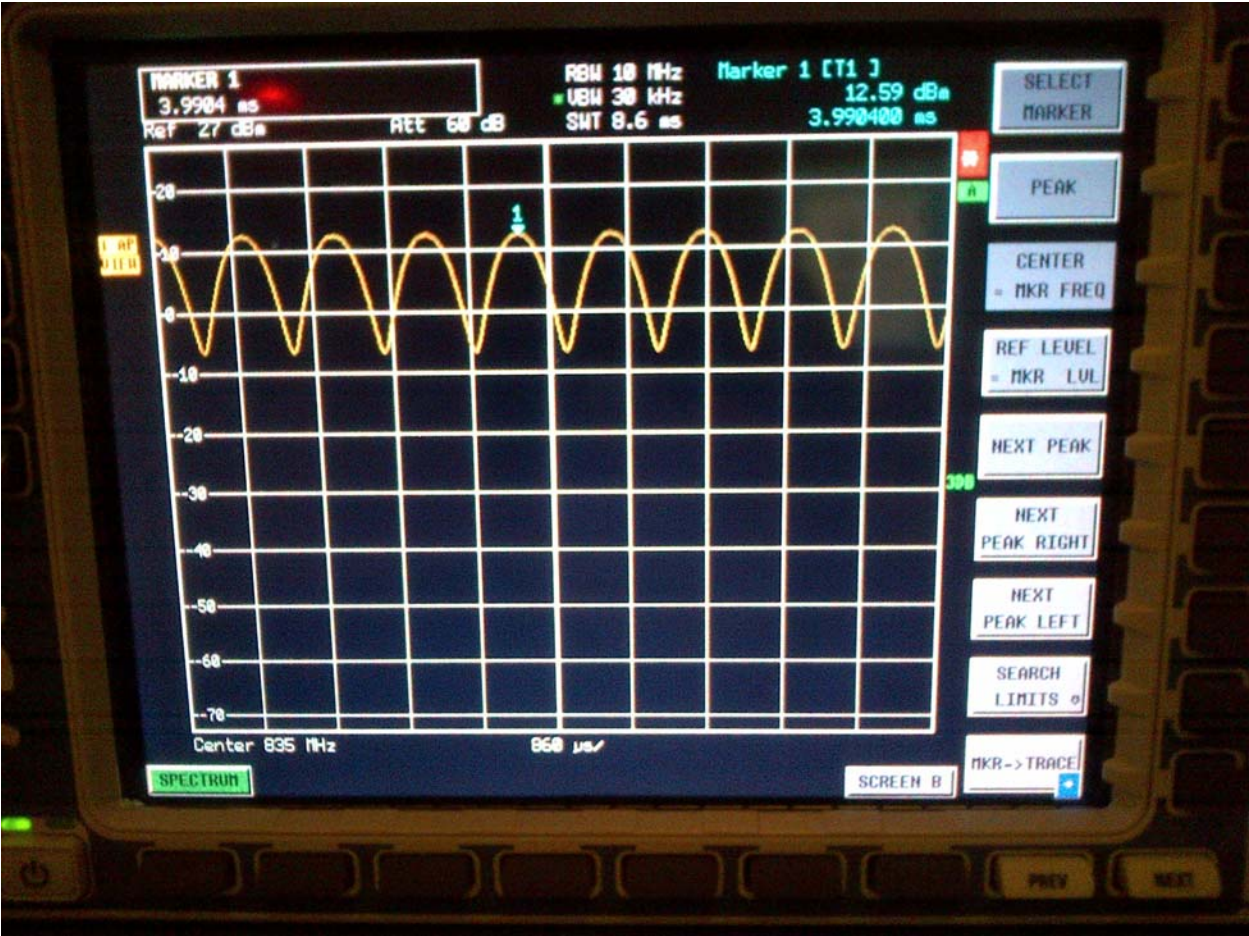
UMTS 835 MHz

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 6 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	



CW 835 MHz

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 7 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	



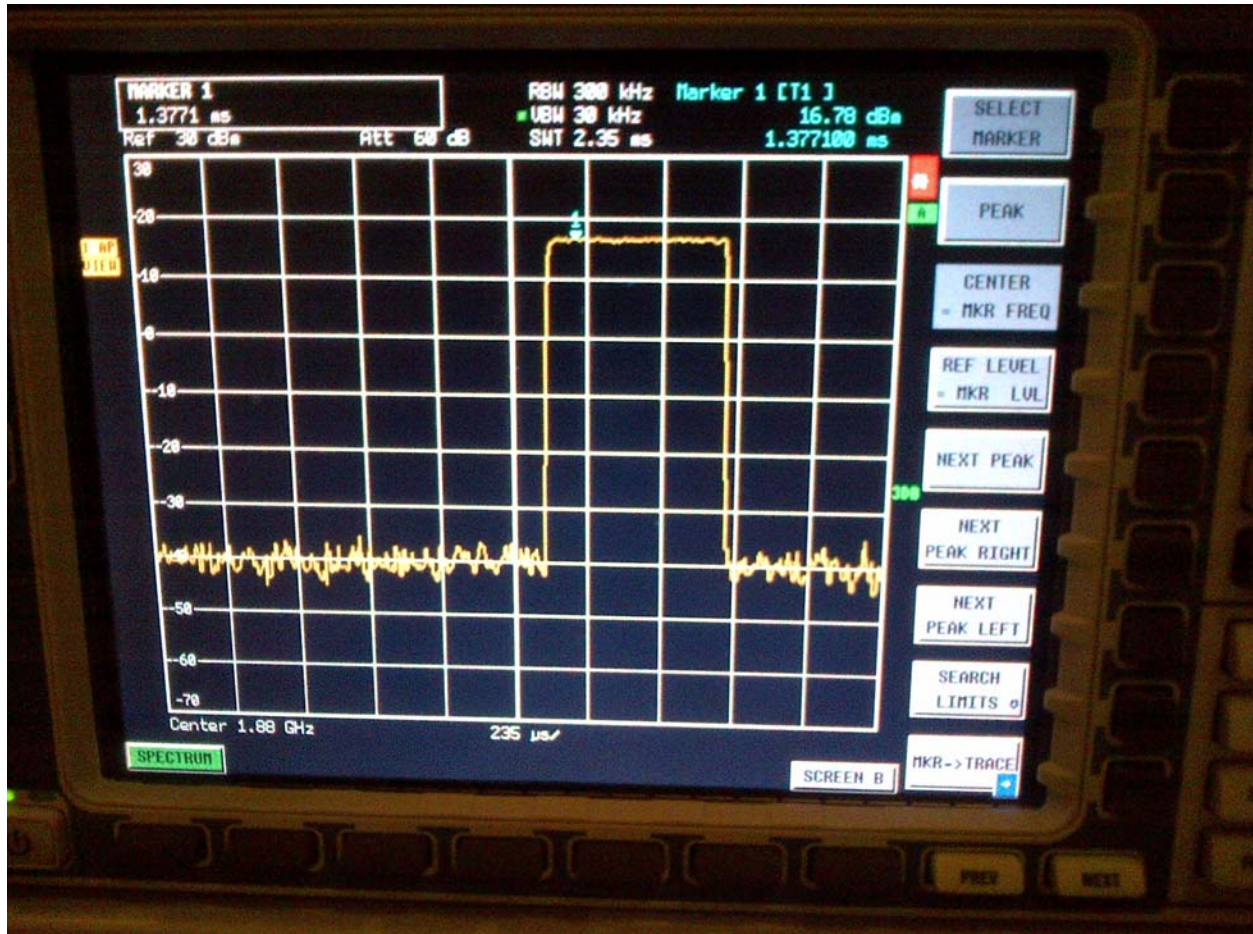
AM 80% 835 MHz

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

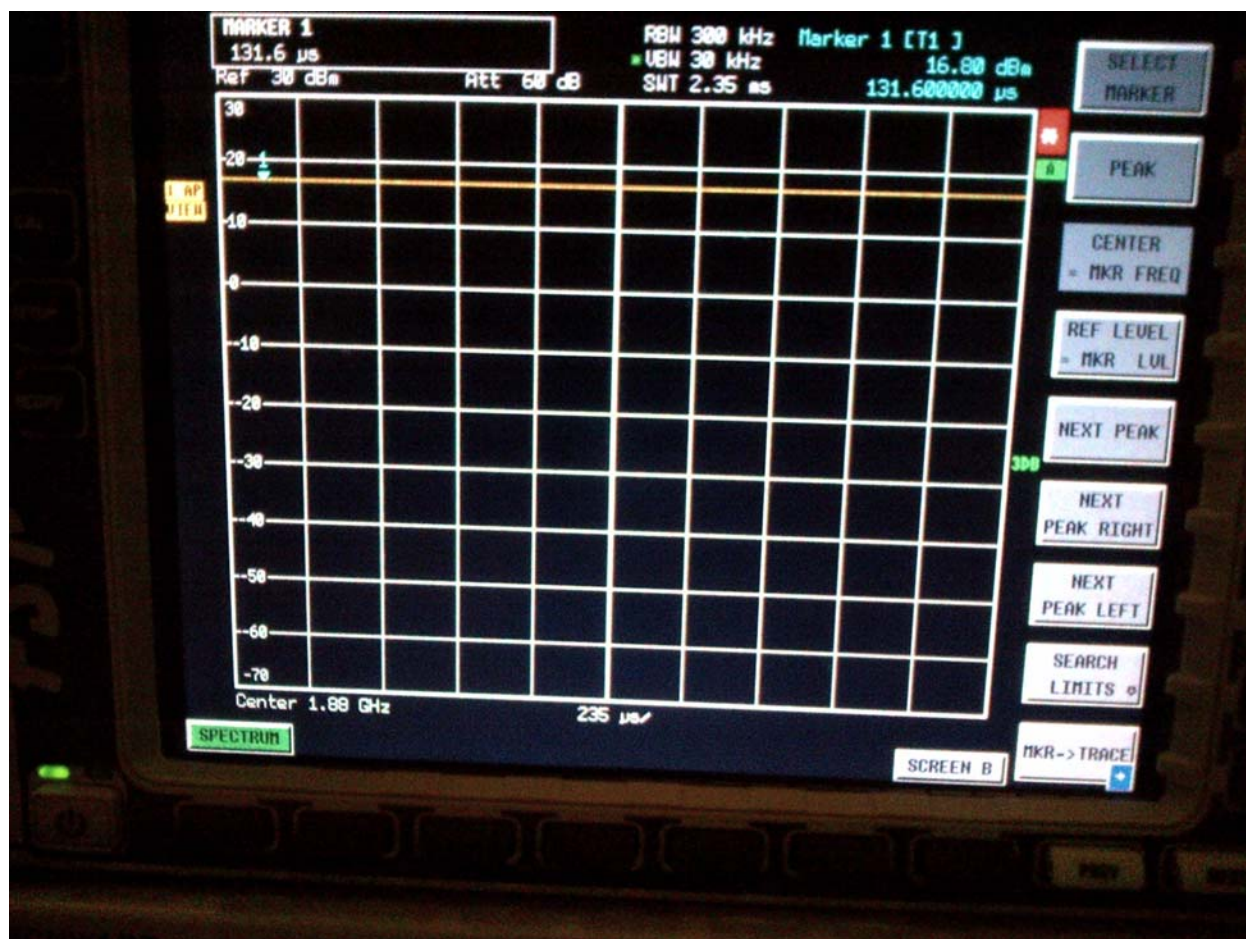
Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW



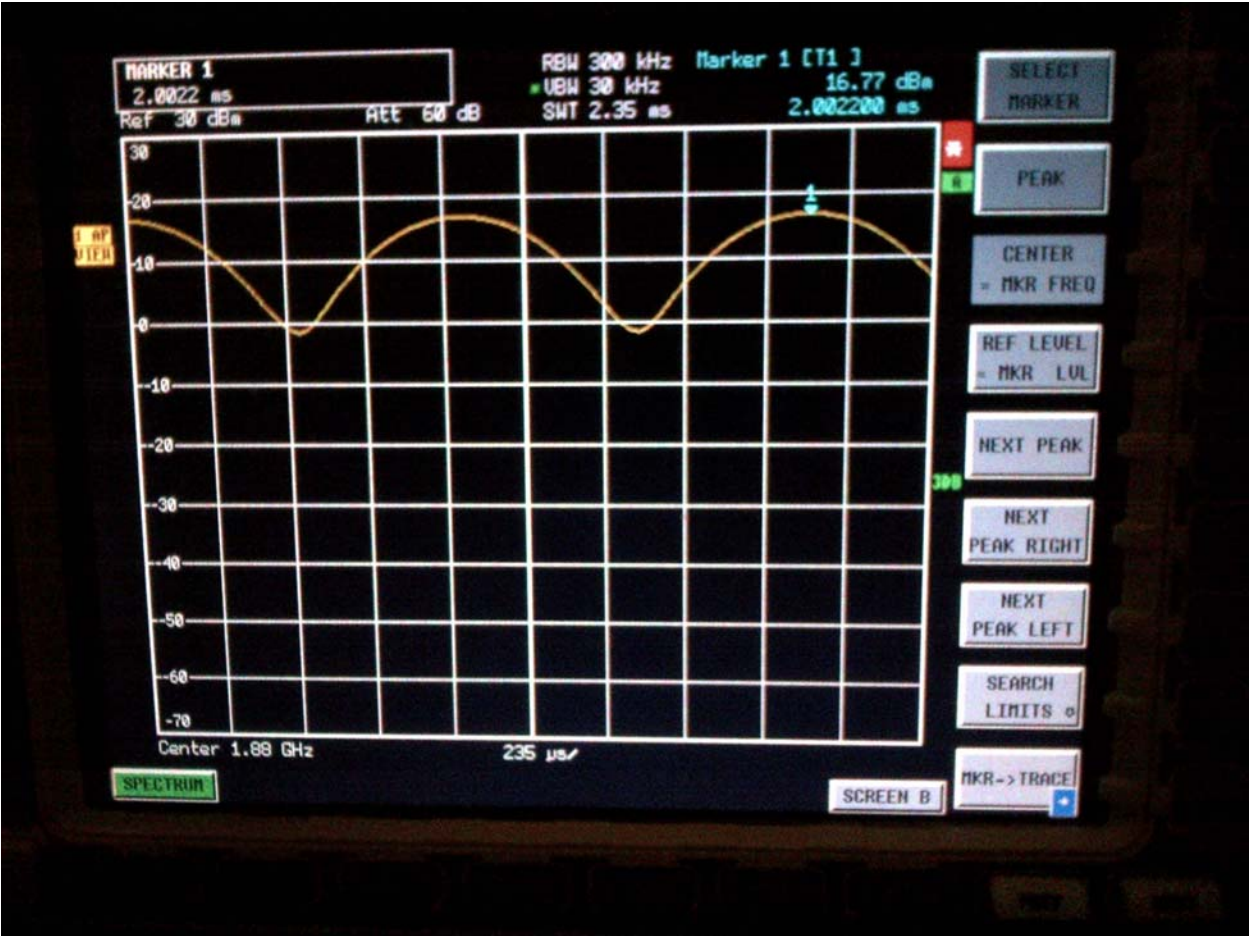
GSM 1880 MHz

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 9 (125)
		Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53



CW 1880 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 10 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW



AM 80 % 1880 MHz

Author Data

Daoud Attayi

Dates of Test

Feb. 17, June 28, 2012
March 22-June 04, 2013

Report No

RTS-6036-1304-53

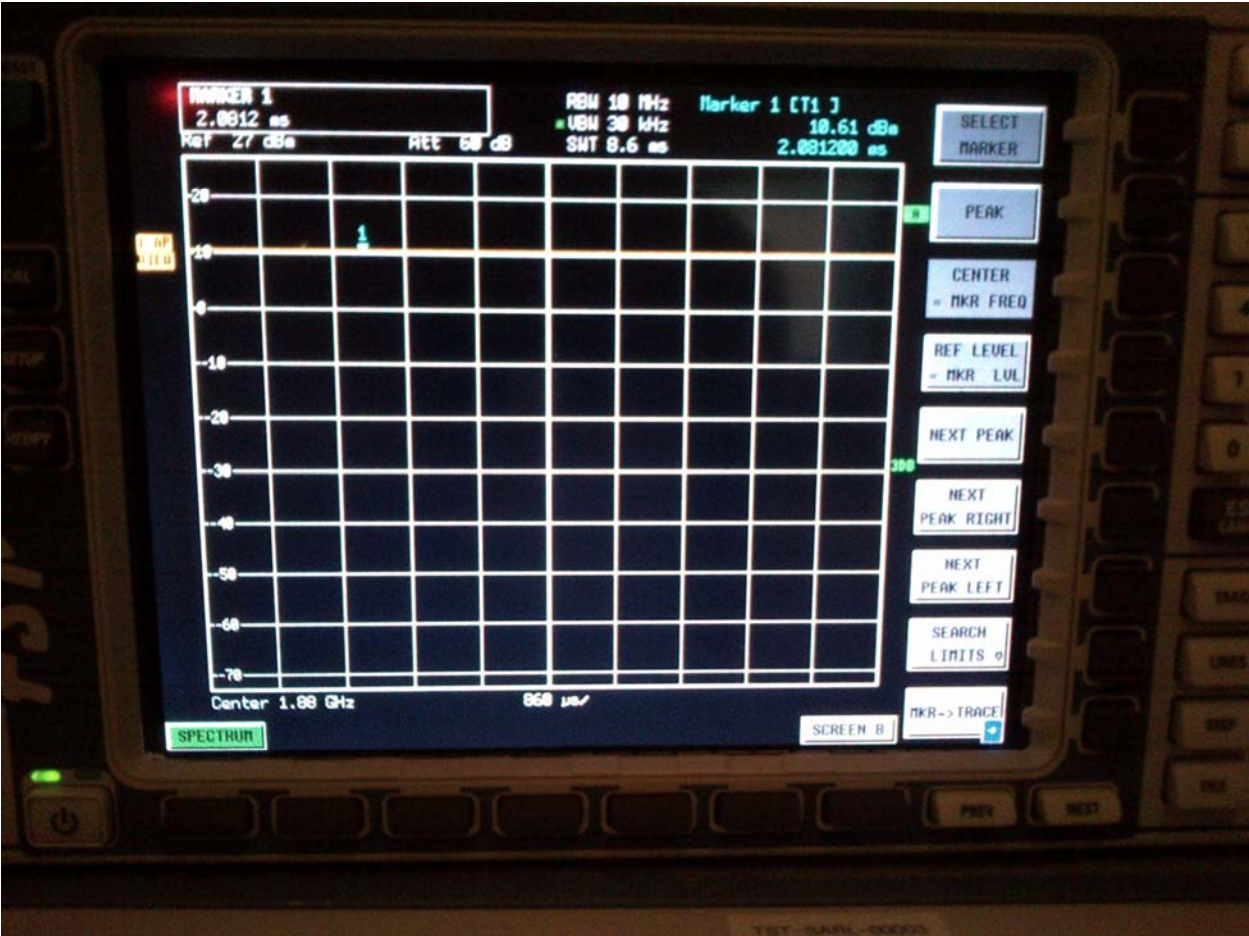
FCC ID

L6ARFR100LW



UMTS 1880 MHz

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 12 (125)
		Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53



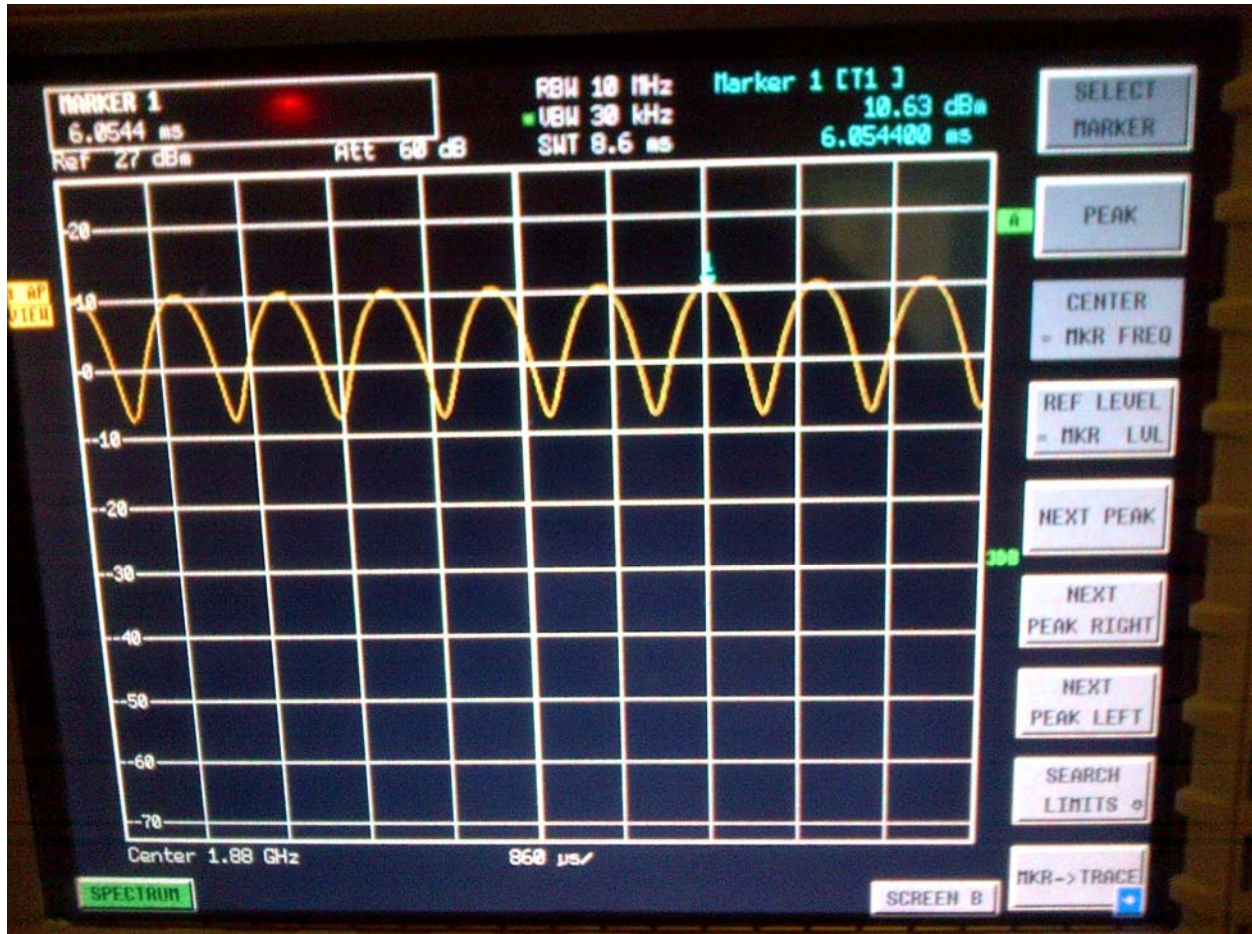
CW 1880 MHz

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW



AM 80 % 1880 MHz

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 14 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

A.2 Dipole validation and probe modulation factor plots

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 15 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 4/24/2013 3:48:05 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_835 MHz_04_24_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
- 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 = 106.1 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 168.2 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 153.8 V/m	Grid 2 M4 164.4 V/m	Grid 3 M4 164.1 V/m
Grid 4 M4 81.96 V/m	Grid 5 M4 85.57 V/m	Grid 6 M4 84.27 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

154.3 V/m

168.2 V/m

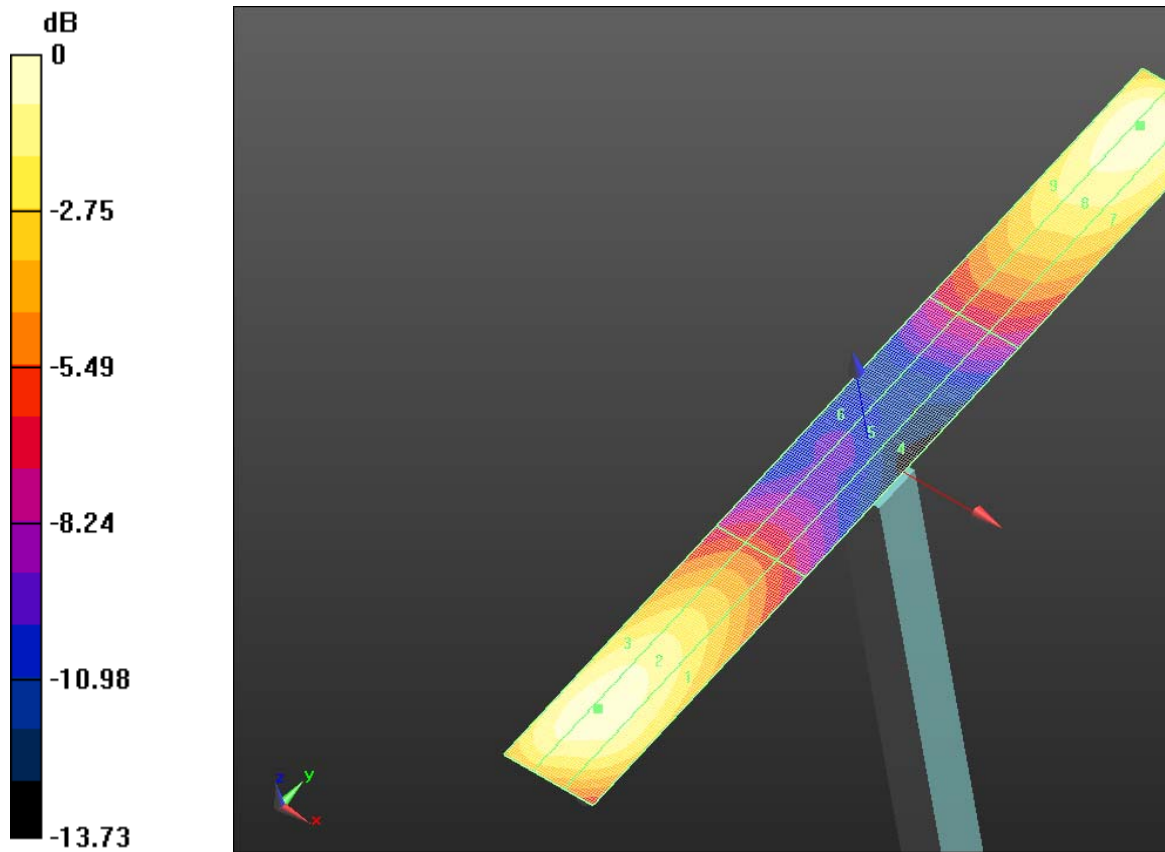
167.7 V/m

Cursor:

Total = 168.2 V/m

E Category: M4

Location: -2.5, 80, 4.7 mm



0 dB = 168.2 V/m = 44.52 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 17 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 18 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

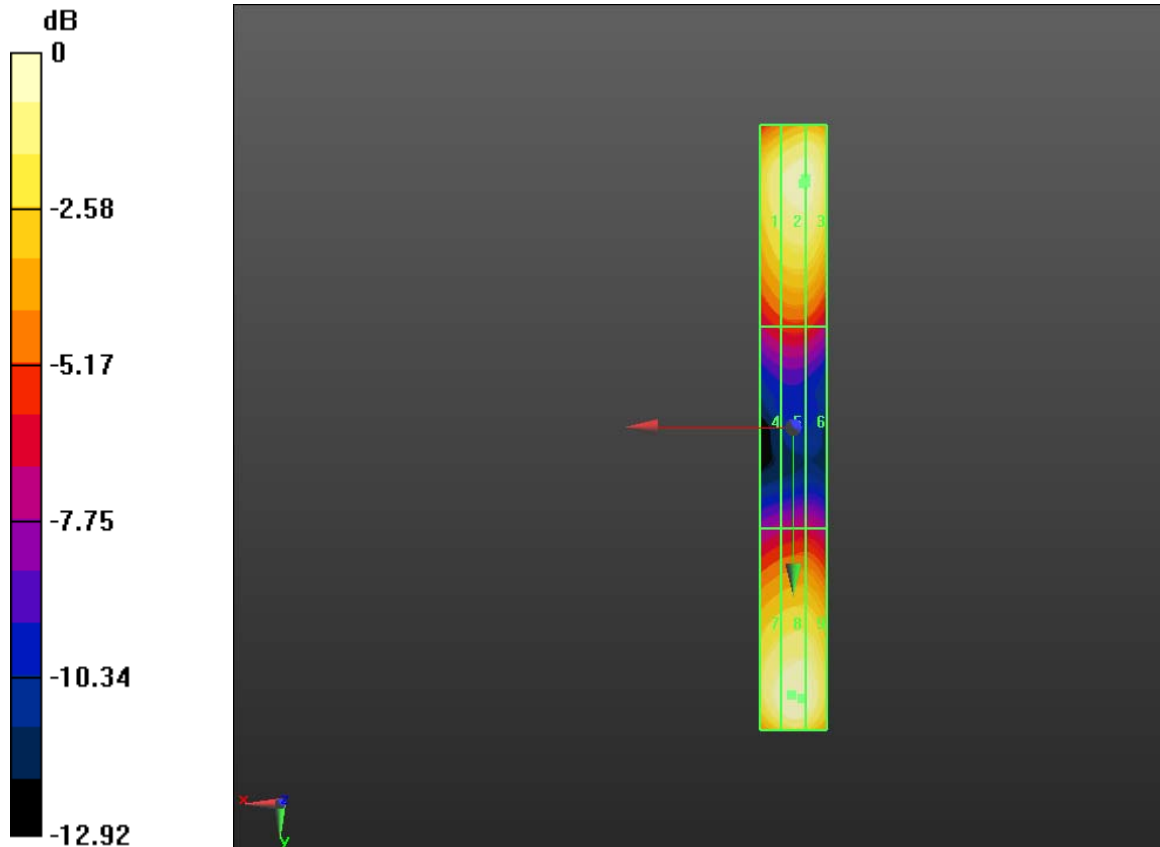
52.75 V/m	54.62 V/m	53.83 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
99.38 V/m	102.0 V/m	97.92 V/m

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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 20 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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)

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 22 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

Author Data

Daoud Attayi

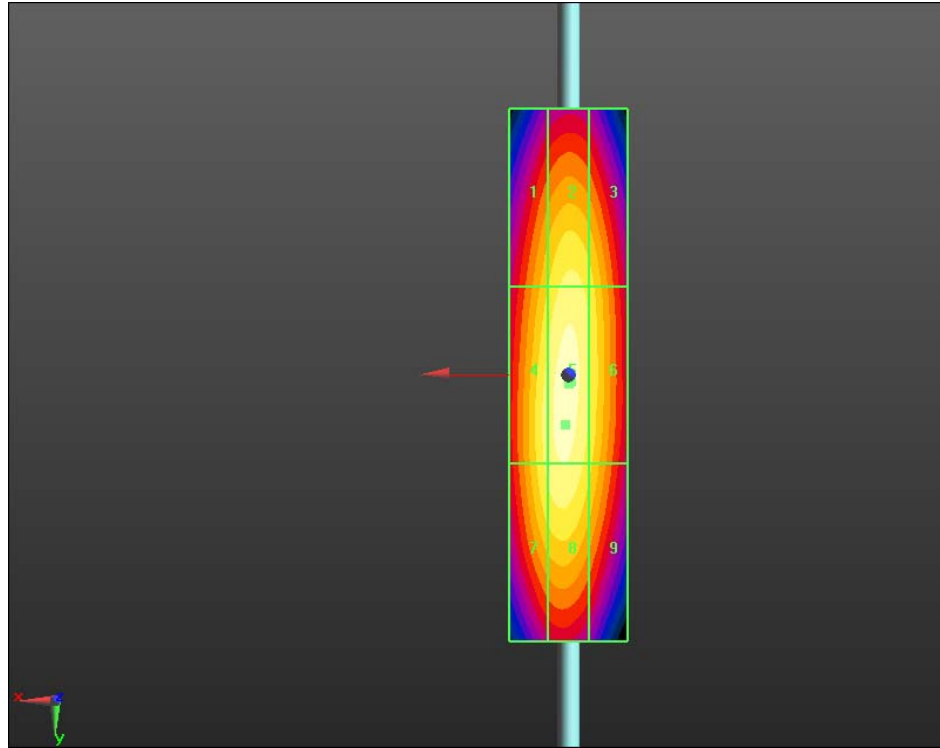
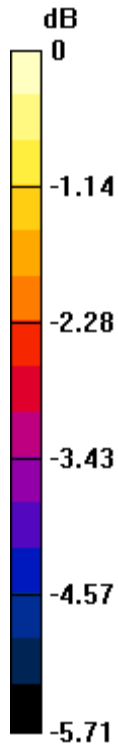
Dates of Test

**Feb. 17, June 28, 2012
March 22-June 04, 2013**

Report No

RTS-6036-1304-53

FCC ID

L6ARFR100LW


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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 24 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 4/24/2013 3:08:00 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz_04_24_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;
- 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 = 142.0 V/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 131.0 V/m

Near-field category: M2 (AWF 0 dB)

PMF scaled E-field

Grid 1 M2 121.1 V/m	Grid 2 M2 130.6 V/m	Grid 3 M2 130.4 V/m
Grid 4 M3 82.22 V/m	Grid 5 M3 87.04 V/m	Grid 6 M3 85.72 V/m
Grid 7 M2	Grid 8 M2	Grid 9 M2

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

118.4 V/m

131.0 V/m

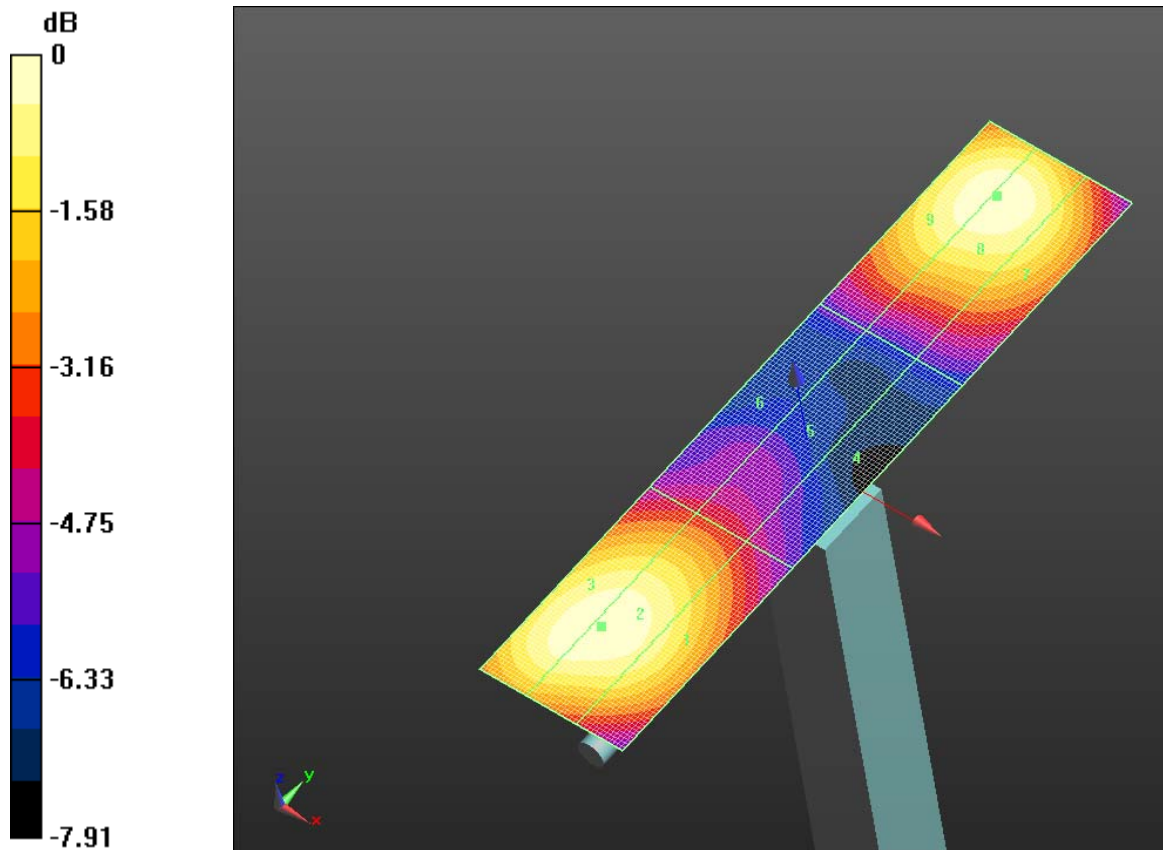
130.8 V/m

Cursor:

Total = 131.0 V/m

E Category: M2

Location: -3, 37.5, 4.7 mm



0 dB = 131.0 V/m = 42.35 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 26 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 6/3/2013 4:32:36 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz_06_03_13

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

Communication System: UID 0 - n/a, 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 52.8.6(1115); SEMCAD X 14.6.9(7117)

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 = 139.6 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 128.7 V/m

Near-field category: M2 (AWF 0 dB)

PMF scaled E-field

Grid 1 M2 118.5 V/m	Grid 2 M2 127.4 V/m	Grid 3 M2 127.3 V/m
Grid 4 M3 81.74 V/m	Grid 5 M3 86.52 V/m	Grid 6 M3 85.43 V/m
Grid 7 M2	Grid 8 M2	Grid 9 M2

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

115.5 V/m

128.7 V/m

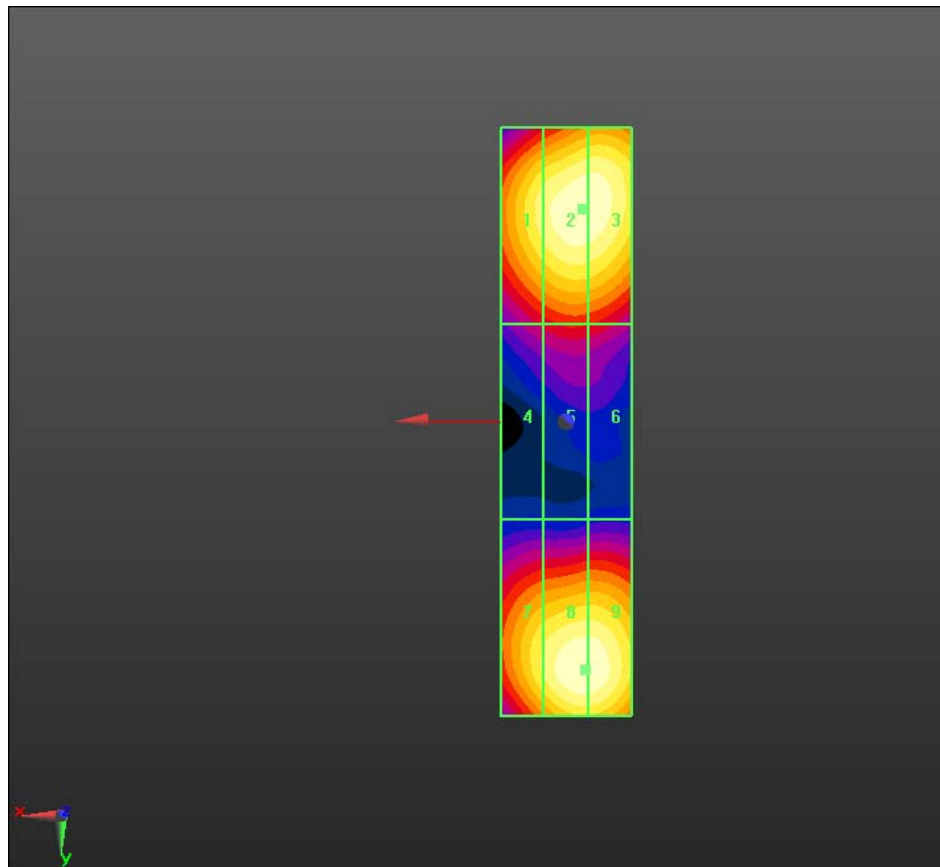
128.6 V/m

Cursor:

Total = 128.7 V/m

E Category: M2

Location: -3, 38, 4.7 mm



0 dB = 128.7 V/m = 42.19 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 28 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 2/17/2012 3:04:25 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_UMTS1733 MHz_02_17_12

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

Communication System: WCDMA FDD IV, Communication System: CW, Communication System: AM 80%; Frequency: 1732.6 MHz, Frequency: 1733 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 1733_PMF/Hearing Aid Compatibility Test (41x181x1):

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 50.62 V/m; Power Drift = -0.07 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 45.31 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 38.99 V/m	Grid 2 M4 40.35 V/m	Grid 3 M4 39.86 V/m
Grid 4 M4 28.58 V/m	Grid 5 M4 29.21 V/m	Grid 6 M4 28.30 V/m
Grid 7 M4 42.57 V/m	Grid 8 M4 45.31 V/m	Grid 9 M4 44.53 V/m

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 29 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Cursor:

Total = 45.306 V/m

E Category: M4

Location: -1, 38, 4.7 mm

**Dipole E-Field measurement/E Scan- CW 1733_PMF/Hearing Aid
Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 50.63 V/m; Power Drift = 0.07 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 46.45 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 40.60 V/m	Grid 2 M4 41.81 V/m	Grid 3 M4 41.04 V/m
Grid 4 M4 29.57 V/m	Grid 5 M4 30.18 V/m	Grid 6 M4 29.29 V/m
Grid 7 M4 44.02 V/m	Grid 8 M4 46.45 V/m	Grid 9 M4 45.54 V/m

Cursor:

Total = 46.446 V/m

E Category: M4

Location: -1, 38, 4.7 mm

**Dipole E-Field measurement/E Scan - AM80%_ 1733_PMF/Hearing
Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 32.26 V/m; Power Drift = 0.12 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 29.45 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 25.68 V/m	Grid 2 M4 26.42 V/m	Grid 3 M4 25.96 V/m
Grid 4 M4	Grid 5 M4	Grid 6 M4

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 30 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

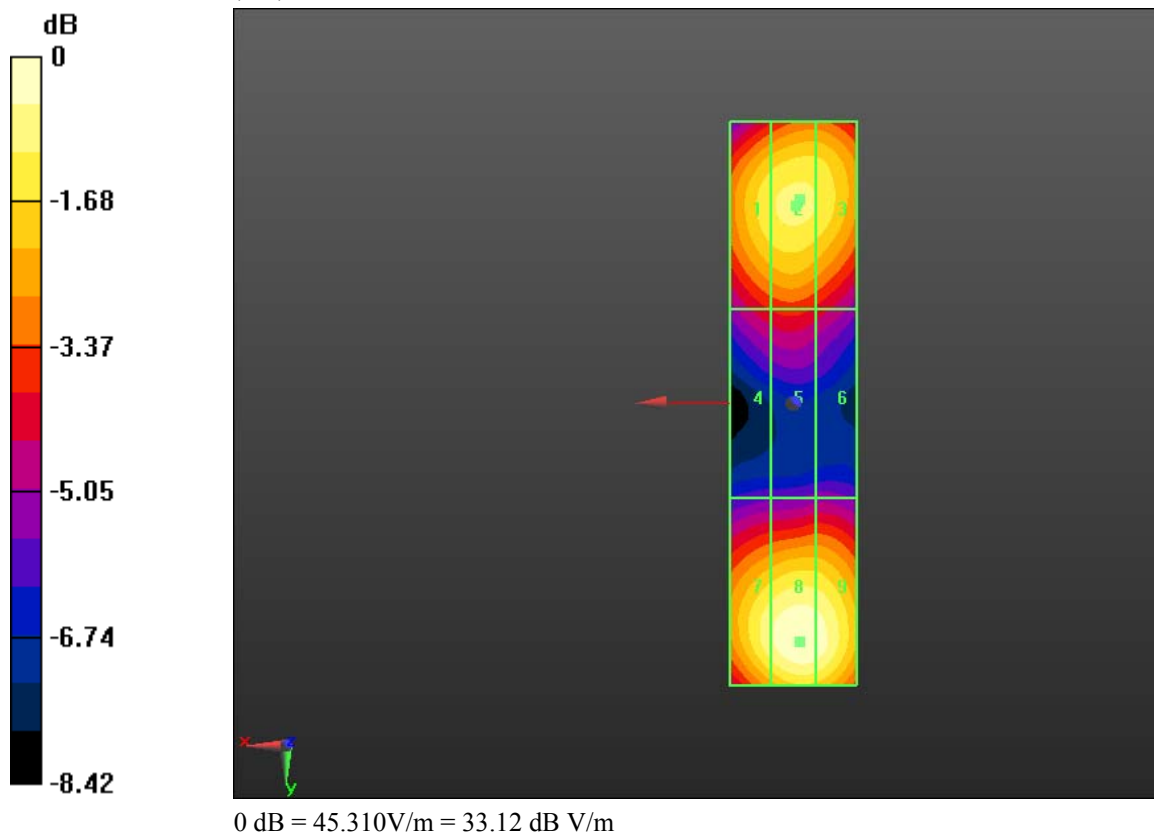
18.91 V/m	19.39 V/m	18.52 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
27.45 V/m	29.45 V/m	28.94 V/m

Cursor:

Total = 29.451 V/m

E Category: M4

Location: -1, 38, 4.7 mm



		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 31 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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	Grid 8 M4	Grid 9 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 32 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

28.20 V/m	29.81 V/m	29.37 V/m
------------------	------------------	------------------

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)

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

PMF scaled E-field

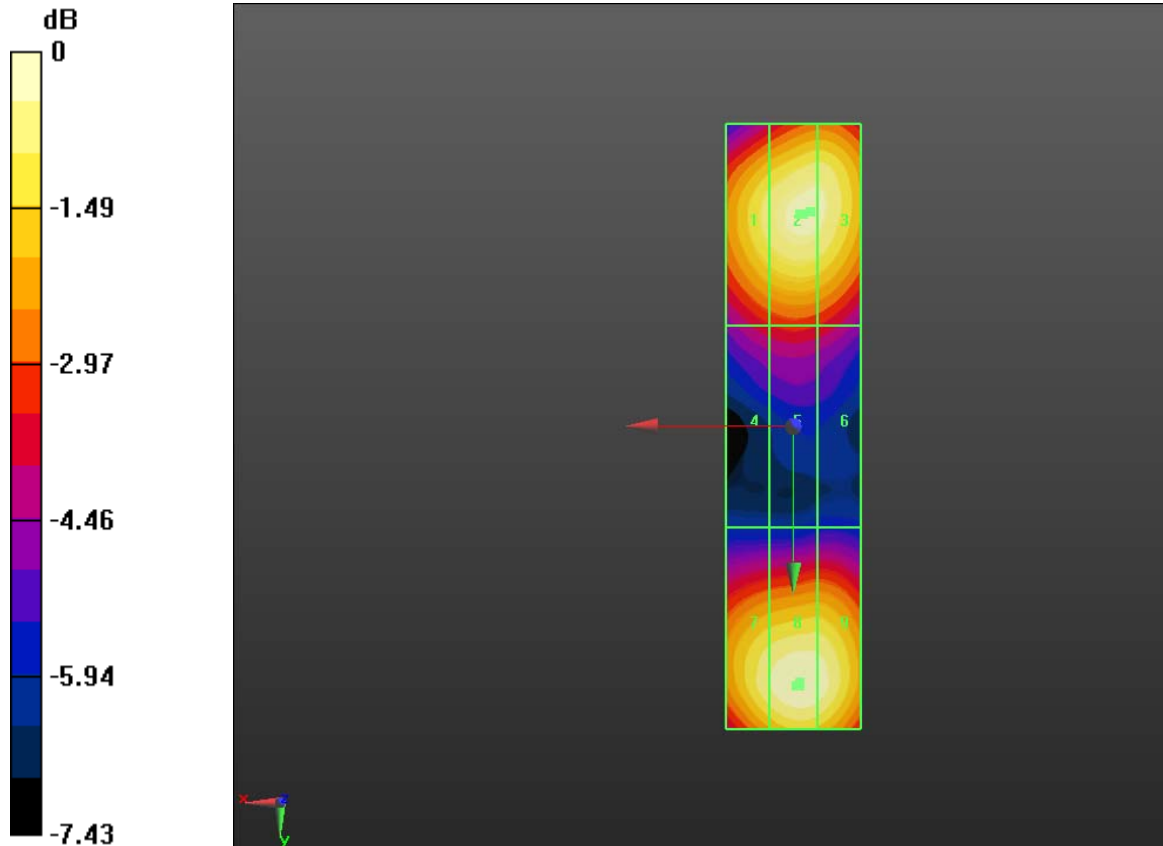
Grid 1 M4 49.75 V/m	Grid 2 M4 52.55 V/m	Grid 3 M4 52.06 V/m
Grid 4 M4 35.78 V/m	Grid 5 M4 36.92 V/m	Grid 6 M4 36.02 V/m
Grid 7 M4 50.66 V/m	Grid 8 M4 53.60 V/m	Grid 9 M4 52.63 V/m

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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 34 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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)

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 35 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 36 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

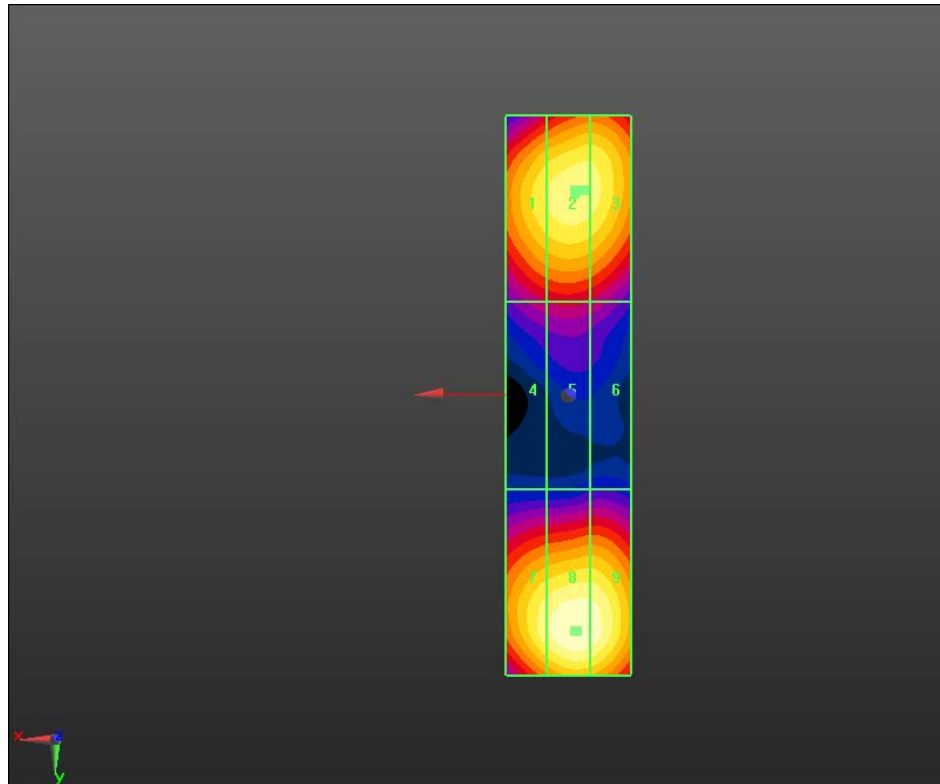
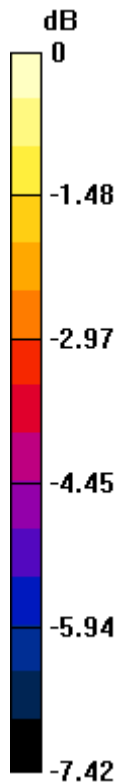
Location: -1, 38, 4.7 mm

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW



0 dB = 42.430V/m = 32.55 dB V/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 38 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 4/24/2013 4:14:18 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_835 MHz_04_24_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
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.5000 A/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.4745 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.416 A/m	Grid 2 M4 0.459 A/m	Grid 3 M4 0.452 A/m
Grid 4 M4 0.431 A/m	Grid 5 M4 0.474 A/m	Grid 6 M4 0.465 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

0.425 A/m

0.462 A/m

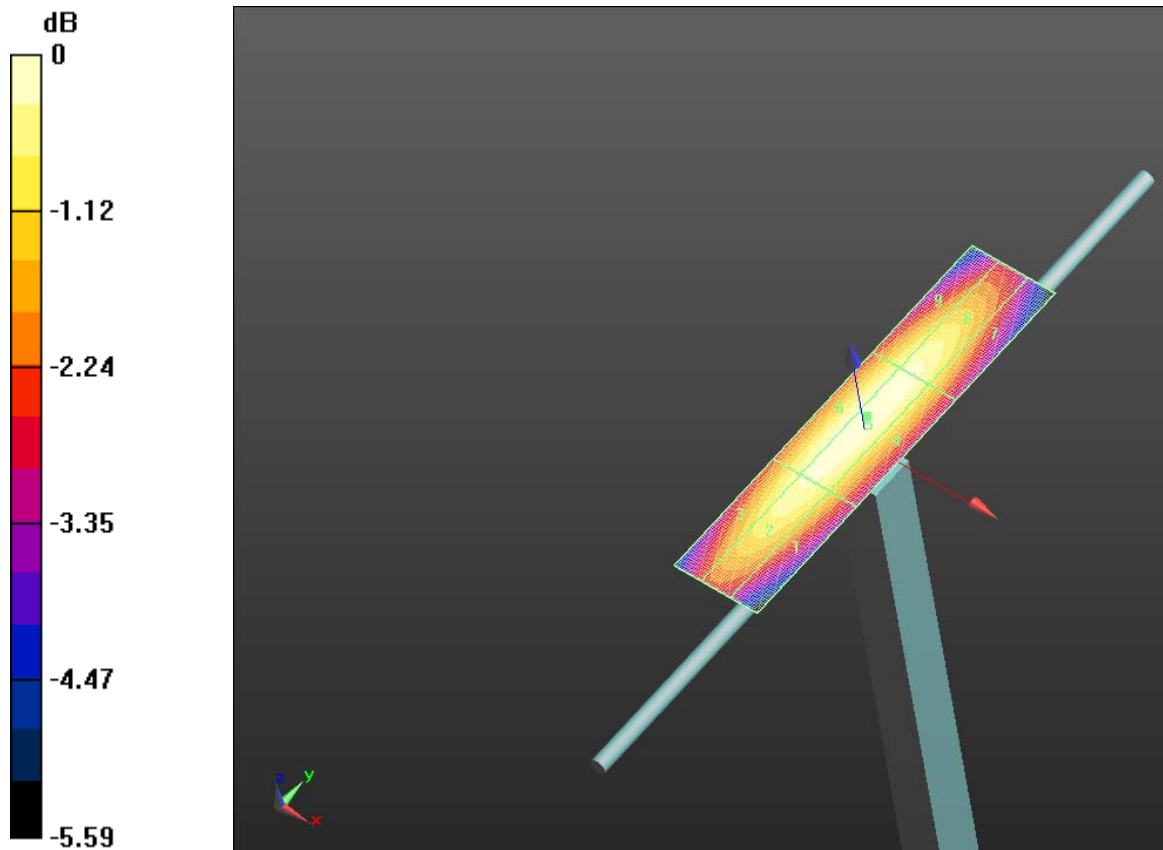
0.449 A/m

Cursor:

Total = 0.4744 A/m

H Category: M4

Location: -1.5, 2.5, 4.7 mm



0 dB = 0.4744 A/m = -6.48 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 40 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 41 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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)

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

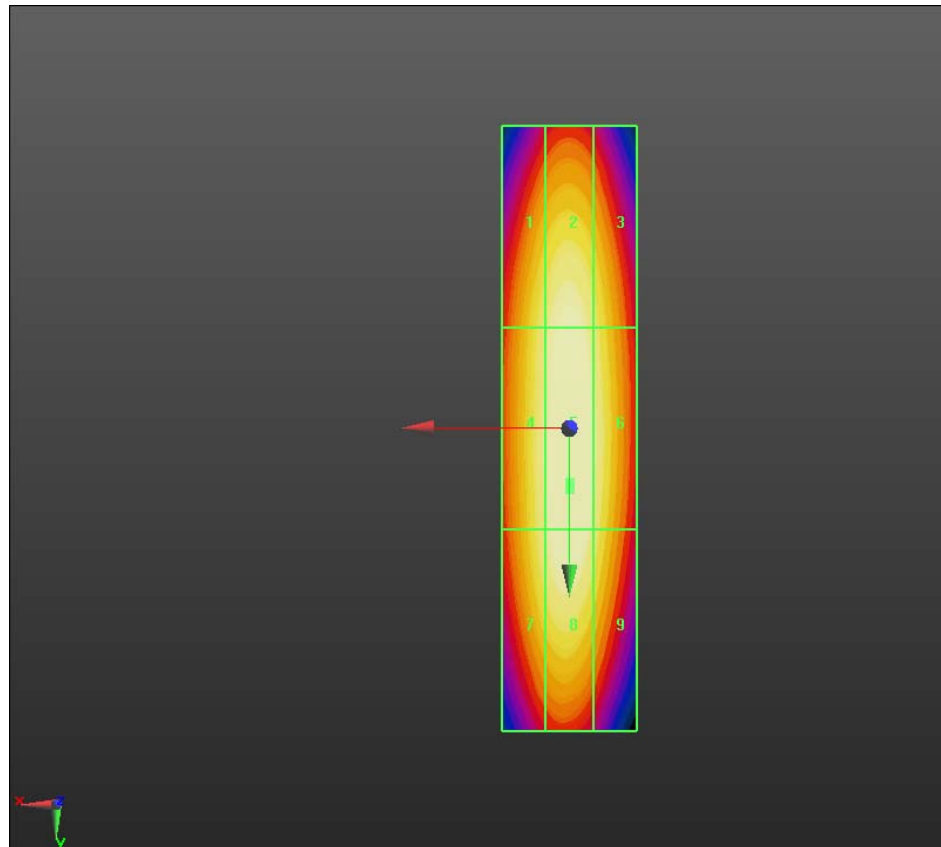
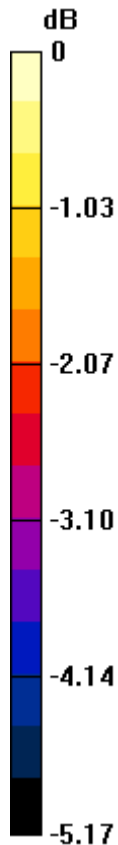
Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 43 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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: 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 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS2 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)

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 44 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 45 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

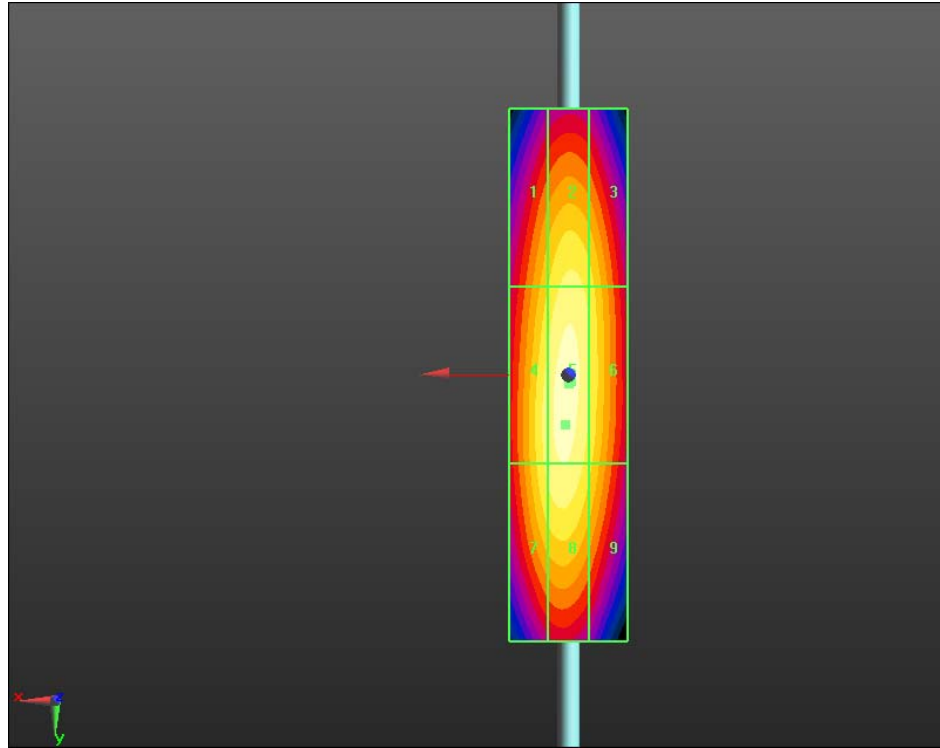
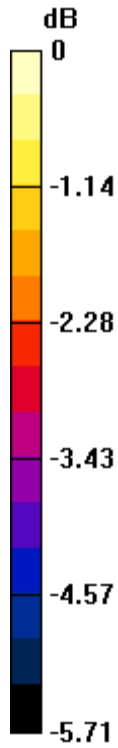
Dates of Test

**Feb. 17, June 28, 2012
March 22-June 04, 2013**

Report No

RTS-6036-1304-53

FCC ID

L6ARFR100LW


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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 47 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 4/24/2013 4:30:53 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz_04_24_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
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

Compatibility Test (41x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.5110 A/m; Power Drift = -0.06 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.4847 A/m

Near-field category: M2 (AWF 0 dB)

PMF scaled H-field

Grid 1 M2 0.427 A/m	Grid 2 M2 0.473 A/m	Grid 3 M2 0.467 A/m
Grid 4 M2 0.438 A/m	Grid 5 M2 0.485 A/m	Grid 6 M2 0.479 A/m
Grid 7 M2	Grid 8 M2	Grid 9 M2

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

0.427 A/m

0.470 A/m

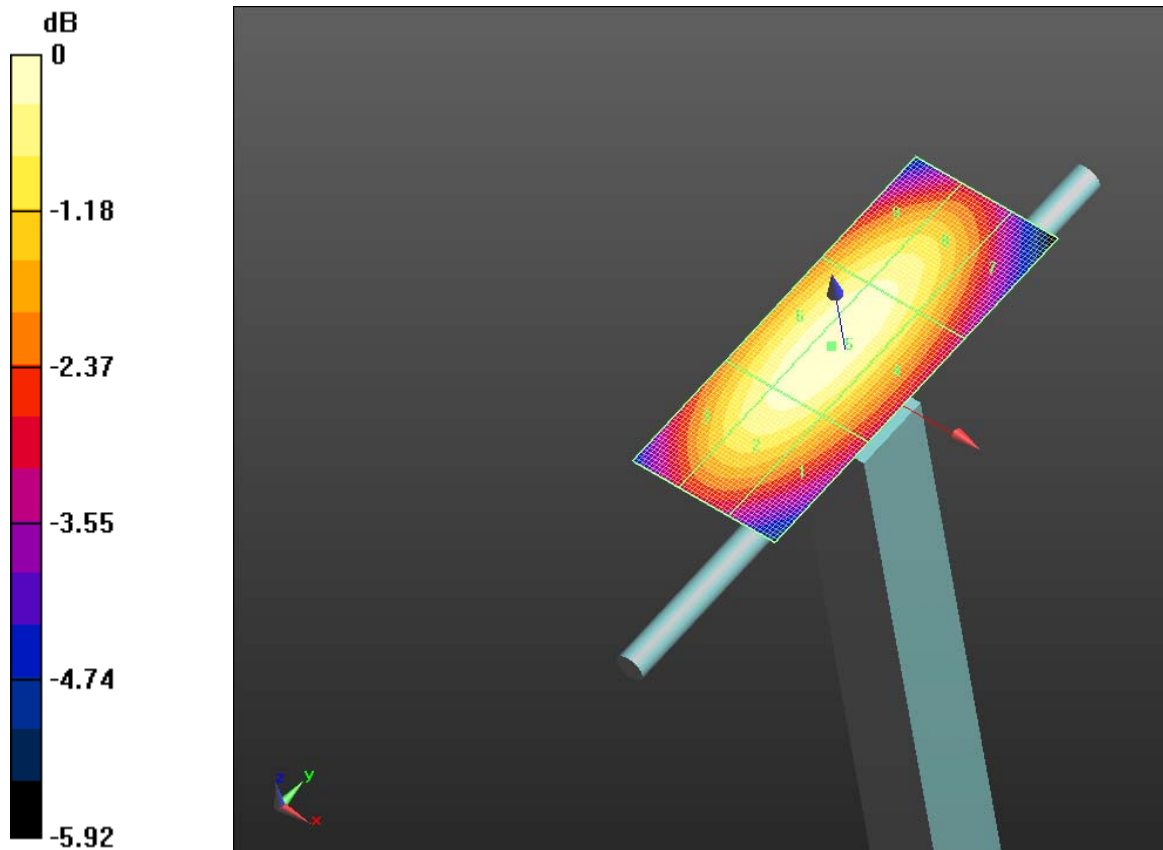
0.463 A/m

Cursor:

Total = 0.4847 A/m

H Category: M2

Location: -1.5, -0.5, 4.7 mm



0 dB = 0.4847 A/m = -6.29 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 49 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 6/3/2013 4:49:38 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz_06_03_13

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

Communication System: UID 0 - n/a, 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 52.8.6(1115); SEMCAD X 14.6.9(7117)

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

Compatibility Test (41x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.4670 A/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.4465 A/m

Near-field category: M2 (AWF 0 dB)

PMF scaled H-field

Grid 1 M2 0.397 A/m	Grid 2 M2 0.436 A/m	Grid 3 M2 0.433 A/m
Grid 4 M2 0.406 A/m	Grid 5 M2 0.447 A/m	Grid 6 M2 0.443 A/m
Grid 7 M2	Grid 8 M2	Grid 9 M2

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

0.393 A/m

0.435 A/m

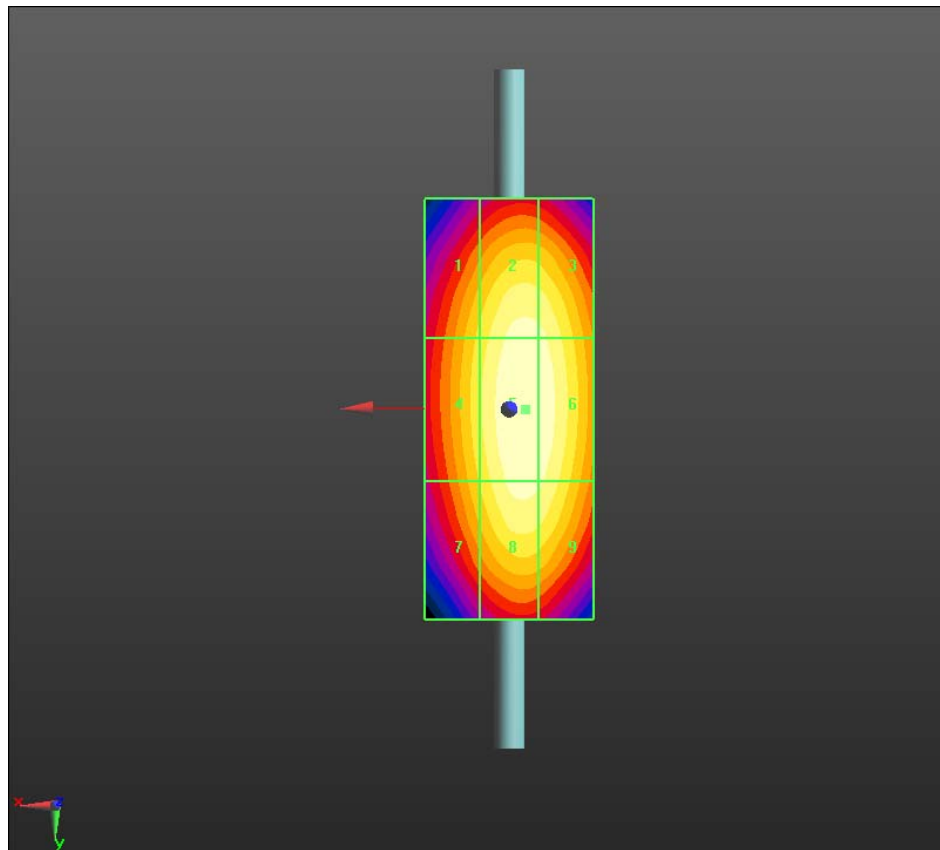
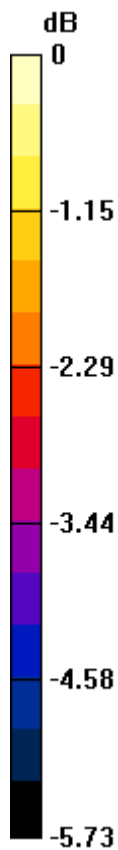
0.431 A/m

Cursor:

Total = 0.4465 A/m

H Category: M2

Location: -2, 0, 4.7 mm



0 dB = 0.4465 A/m = -7.00 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 51 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 2/17/2012 3:27:55 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_UMTS1733 MHz_02_17_12

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

Communication System: WCDMA FDD IV, Communication System: CW, Communication System: AM 80%; Frequency: 1732.6 MHz, Frequency: 1733 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

1733_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.17 V/m; Power Drift = -0.03 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 0.14 A/m	Grid 2 M4 0.15 A/m	Grid 3 M4 0.14 A/m
Grid 4 M4 0.15 A/m	Grid 5 M4 0.16 A/m	Grid 6 M4 0.15 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 52 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

0.14 A/m	0.15 A/m	0.14 A/m
-----------------	-----------------	-----------------

Cursor:

Total = 0.157 A/m

H Category: M4

Location: 0, 0, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan - CW
1733_PMF/Hearing Aid Compatibility Test (41x101x1):** Measurement

grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.17 V/m; Power Drift = -0.16 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 0.14 A/m	Grid 2 M4 0.15 A/m	Grid 3 M4 0.14 A/m
Grid 4 M4 0.15 A/m	Grid 5 M4 0.16 A/m	Grid 6 M4 0.15 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 = 0.157 A/m

H Category: M4

Location: -0.5, 0.5, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan -
AM80%_1733_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 = -0.14 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.10 A/m

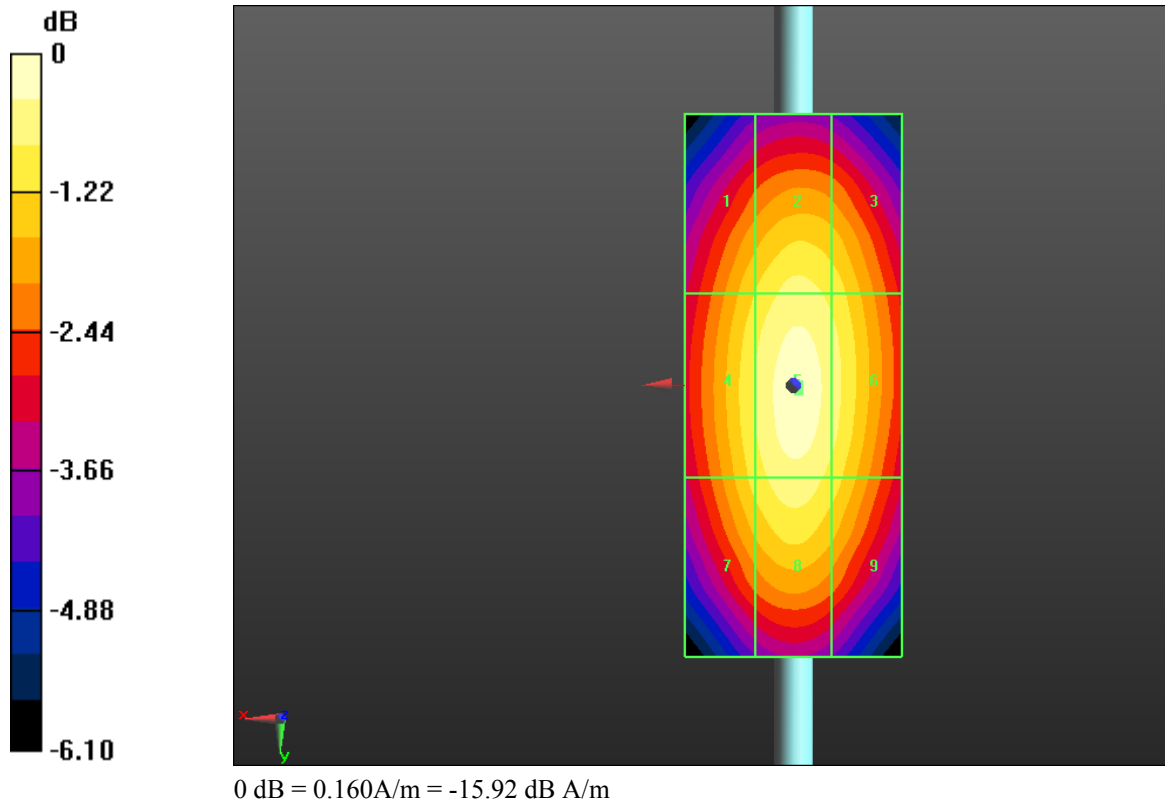
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 53 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Grid 1 M4 0.09 A/m	Grid 2 M4 0.10 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 0.10 A/m
Grid 7 M4 0.09 A/m	Grid 8 M4 0.10 A/m	Grid 9 M4 0.09 A/m

Cursor:
Total = 0.100 A/m
H Category: M4
Location: -0.5, 0, 4.7 mm



		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 54 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 55 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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)

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

PMF scaled H-field

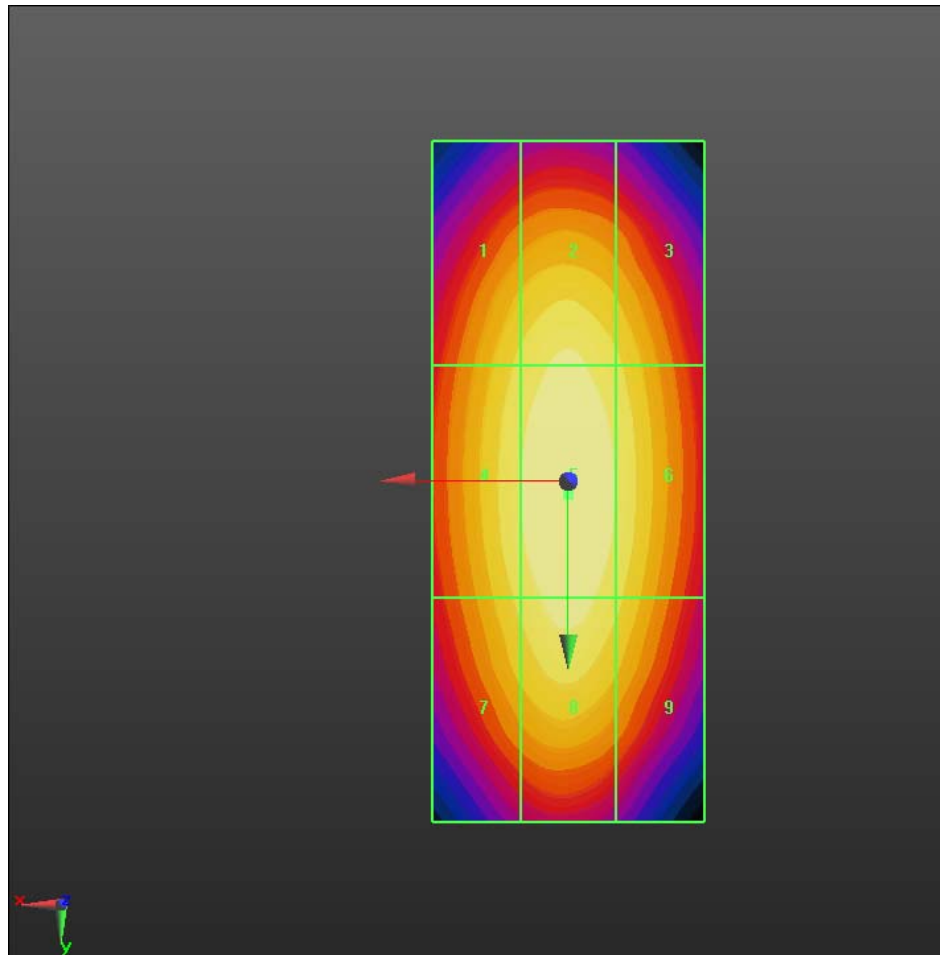
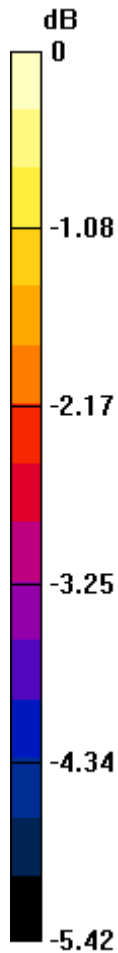
Grid 1 M4 0.18 A/m	Grid 2 M4 0.19 A/m	Grid 3 M4 0.18 A/m
Grid 4 M4 0.19 A/m	Grid 5 M3 0.19 A/m	Grid 6 M4 0.19 A/m
Grid 7 M4 0.18 A/m	Grid 8 M3 0.19 A/m	Grid 9 M4 0.18 A/m

Cursor:

Total = 0.194 A/m

H Category: M3

Location: 0, 0.5, 4.7 mm



		Document		Page
		Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		57 (125)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	Feb. 17, June 28, 2012 March 22-June 04, 2013	RTS-6036-1304-53	L6ARFR100LW	

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

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)

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 58 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 59 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

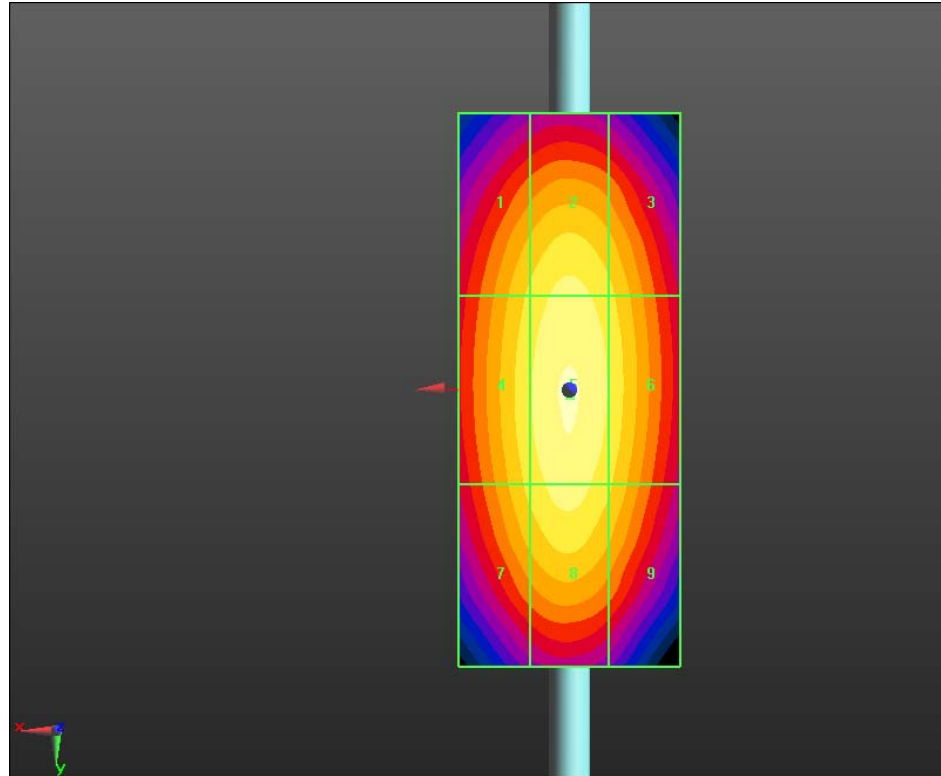
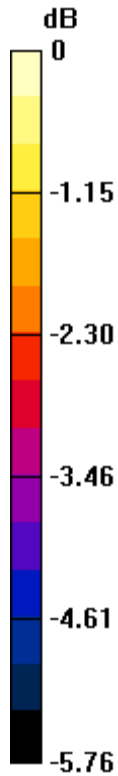
Location: 0, 0, 4.7 mm

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

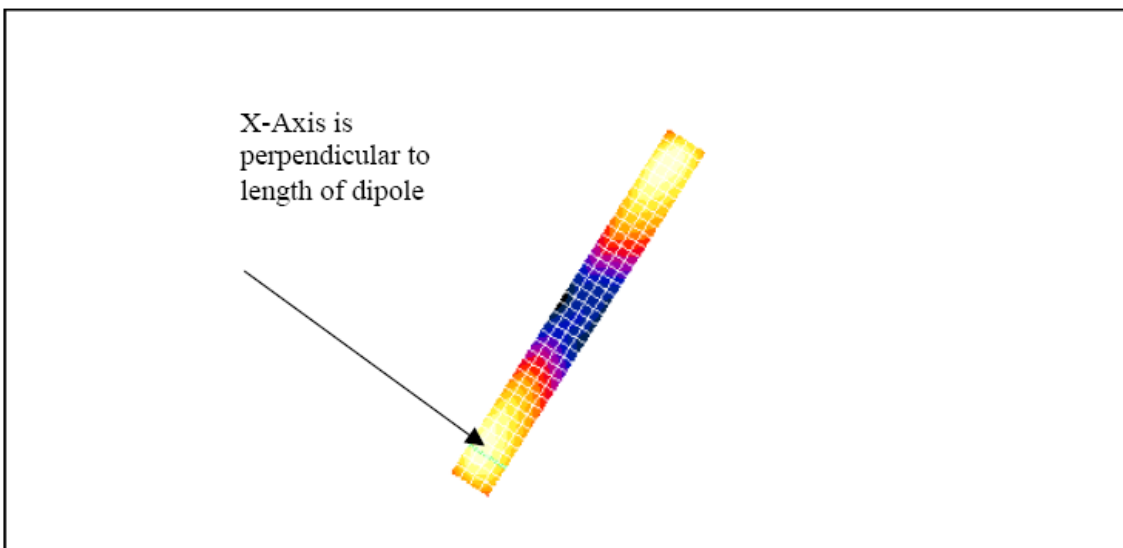
Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW



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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 61 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	



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

Comparison of 5mm and 2mm step sizes

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

		Document		Page
		Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		62 (125)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	Feb. 17, June 28, 2012 March 22-June 04, 2013	RTS-6036-1304-53	L6ARFR100LW	

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

DASY4 Configuration:

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

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

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

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

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

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

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

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

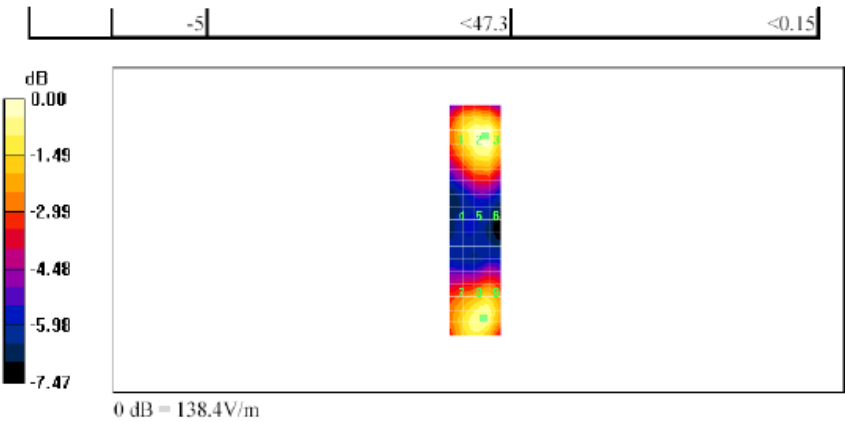
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 63 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

Page 2 of 2



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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 64 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

DASY4 Configuration:

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

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

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

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

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

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

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

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

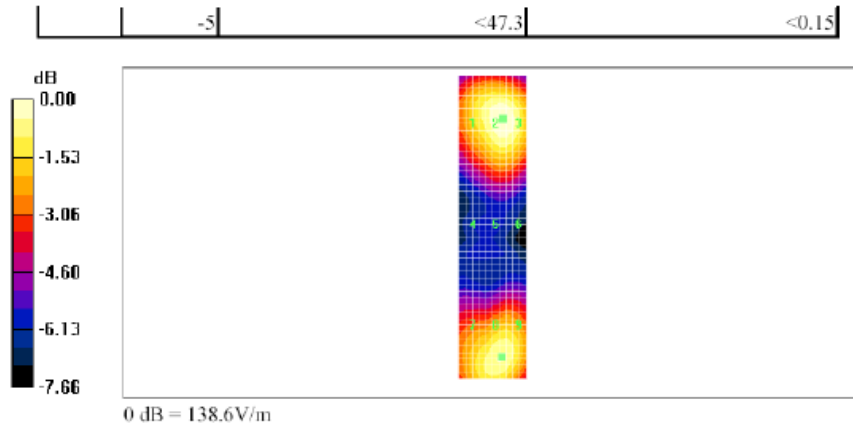
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 65 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

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

Page 2 of 2



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

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited



Document

**Annex A to Hearing Aid Compatibility RF Emissions Test
Report for the BlackBerry® Smartphone model RFR101LW**

Page

66 (125)

Author Data

Daoud Attayi

Dates of Test

**Feb. 17, June 28, 2012
March 22-June 04, 2013**

Report No

RTS-6036-1304-53

FCC ID

L6ARFR100LW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)**HAC_H_Dipole_CW 1880_5 mm step_07_14_05****DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004

- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn472; Calibrated: 03/01/2005

- Phantom: HAC Test Arch; Type: SD HAC P01 BA;

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

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

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

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

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

Maximum value of Total field (slot averaged) = 0.406 A/m

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

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

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

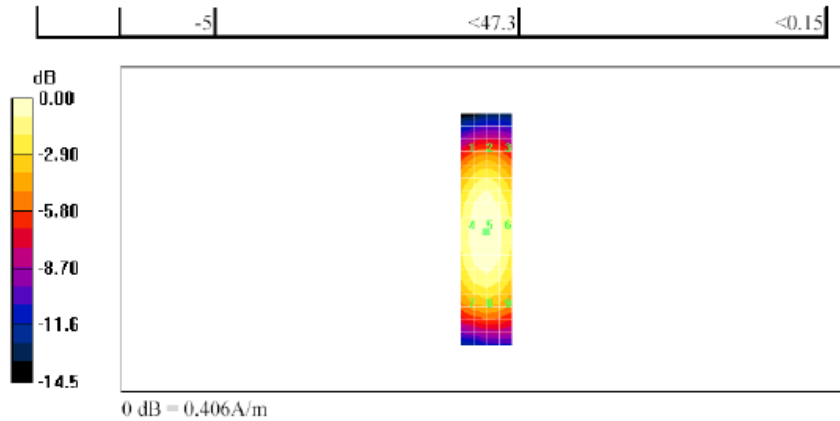
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 67 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013		Report No RTS-6036-1304-53	FCC ID L6ARFR100LW

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

Page 2 of 2



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

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited



Document

**Annex A to Hearing Aid Compatibility RF Emissions Test
Report for the BlackBerry® Smartphone model RFR101LW**

Page

68 (125)

Author Data

Daoud Attayi

Dates of Test

**Feb. 17, June 28, 2012
March 22-June 04, 2013**

Report No

RTS-6036-1304-53

FCC ID

L6ARFR100LW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)**HAC_H_Dipole_CW 1880_2 mm step_07_14_05****DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

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

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

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

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

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

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

Maximum value of Total field (slot averaged) = 0.406 A/m

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

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

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

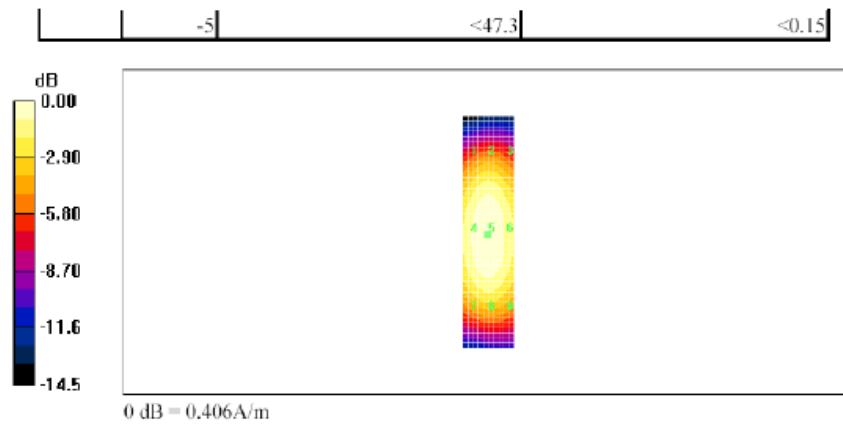
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 69 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW

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

Page 2 of 2



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

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 70 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

A.3 RF emission field plots

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 71 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 3/22/2013 3:15:45 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29

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 = 75.81 V/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 194.1 V/m

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

PMF scaled E-field

Grid 1 M4 149.1 V/m	Grid 2 M3 177.3 V/m	Grid 3 M3 177.3 V/m
Grid 4 M3 163.3 V/m	Grid 5 M3 194.1 V/m	Grid 6 M3 194.0 V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		72 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW

Grid 7 M3 175.2 V/m	Grid 8 M3 195.9 V/m	Grid 9 M3 195.6 V/m
--------------------------------------	--------------------------------------	--------------------------------------

Cursor:

Total = 195.9 V/m

E Category: M3

Location: -7, 16, 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 = 84.05 V/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 222.8 V/m

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

PMF scaled E-field

Grid 1 M3 159.3 V/m	Grid 2 M3 197.4 V/m	Grid 3 M3 197.6 V/m
Grid 4 M3 181.1 V/m	Grid 5 M3 222.8 V/m	Grid 6 M3 222.8 V/m
Grid 7 M3 198.7 V/m	Grid 8 M3 227.1 V/m	Grid 9 M3 227.0 V/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 73 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Cursor:

Total = 227.1 V/m

E Category: M3

Location: -8, 16, 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 = 83.08 V/m; Power Drift = 0.08 dB

PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 220.8 V/m

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

PMF scaled E-field

Grid 1 M3 162.3 V/m	Grid 2 M3 199.6 V/m	Grid 3 M3 199.8 V/m
Grid 4 M3 178.2 V/m	Grid 5 M3 220.8 V/m	Grid 6 M3 220.8 V/m
Grid 7 M3 187.8 V/m	Grid 8 M3 223.1 V/m	Grid 9 M3 223.1 V/m

Cursor:

Total = 223.1 V/m

E Category: M3

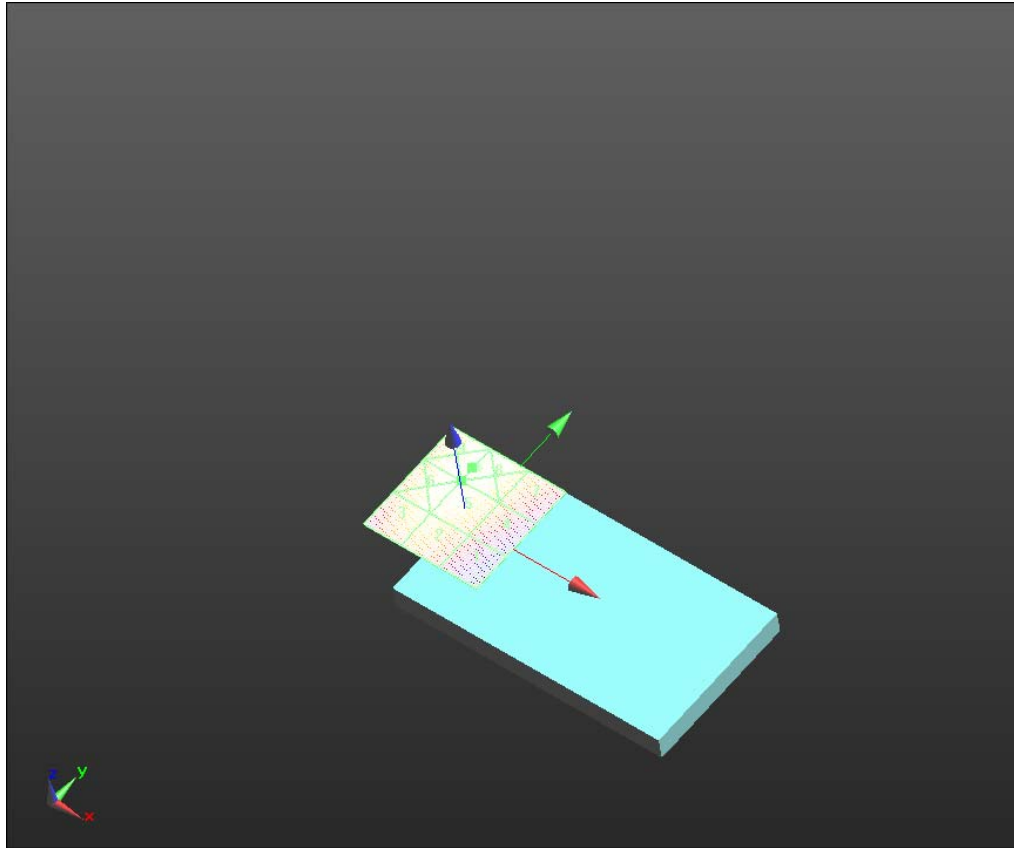
Location: -9, 15, 8.7 mm

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW



0 dB = 188.1 V/m = 45.49 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 75 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 3/22/2013 3:28:10 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM850_Telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29

Communication System: GSM 850; Frequency: 836.8 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 = 83.22 V/m; Power Drift = 0.06 dB

PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 191.6 V/m

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

PMF scaled E-field

Grid 1 M4 131.6 V/m	Grid 2 M3 156.3 V/m	Grid 3 M3 156.2 V/m
Grid 4 M3 153.3 V/m	Grid 5 M3 191.6 V/m	Grid 6 M3 191.6 V/m
Grid 7 M3 176.3 V/m	Grid 8 M3 220.1 V/m	Grid 9 M3 220.1 V/m

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

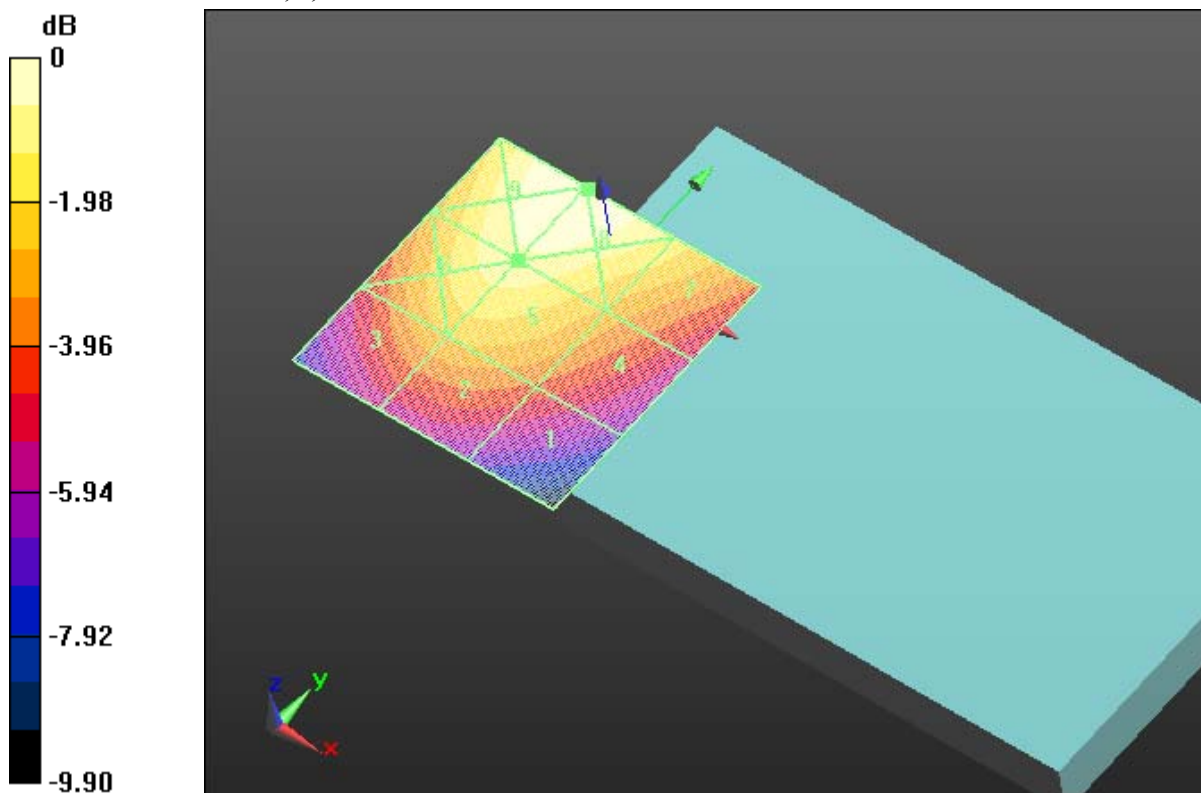
		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 76 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Cursor:

Total = 220.1 V/m

E Category: M3

Location: -8, 5, 8.7 mm



0 dB = 211.3 V/m = 46.50 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 77 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 3/22/2013 3:44:10 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_V

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29

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 = 72.64 V/m; Power Drift = 0.07 dB

PMR not calibrated. PMF = 1.070 is applied.

E-field emissions = 67.52 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 51.25 V/m	Grid 2 M4 61.02 V/m	Grid 3 M4 61.01 V/m
Grid 4 M4 57.57 V/m	Grid 5 M4 67.52 V/m	Grid 6 M4 67.43 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 78 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013		Report No RTS-6036-1304-53	FCC ID L6ARFR100LW

62.24 V/m	68.82 V/m	68.46 V/m
------------------	------------------	------------------

Cursor:

Total = 68.82 V/m

E Category: M4

Location: -6.5, 18, 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 = 78.87 V/m; Power Drift = -0.09 dB

PMR not calibrated. PMF = 1.070 is applied.

E-field emissions = 73.49 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 53.70 V/m	Grid 2 M4 65.78 V/m	Grid 3 M4 65.80 V/m
Grid 4 M4 60.84 V/m	Grid 5 M4 73.49 V/m	Grid 6 M4 73.48 V/m
Grid 7 M4 66.84 V/m	Grid 8 M4 75.40 V/m	Grid 9 M4 75.17 V/m

Cursor:

Total = 75.40 V/m

E Category: M4

Location: -6.5, 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 = 78.41 V/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.070 is applied.

E-field emissions = 73.36 V/m

Near-field category: M4 (AWF 0 dB)

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 79 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

PMF scaled E-field

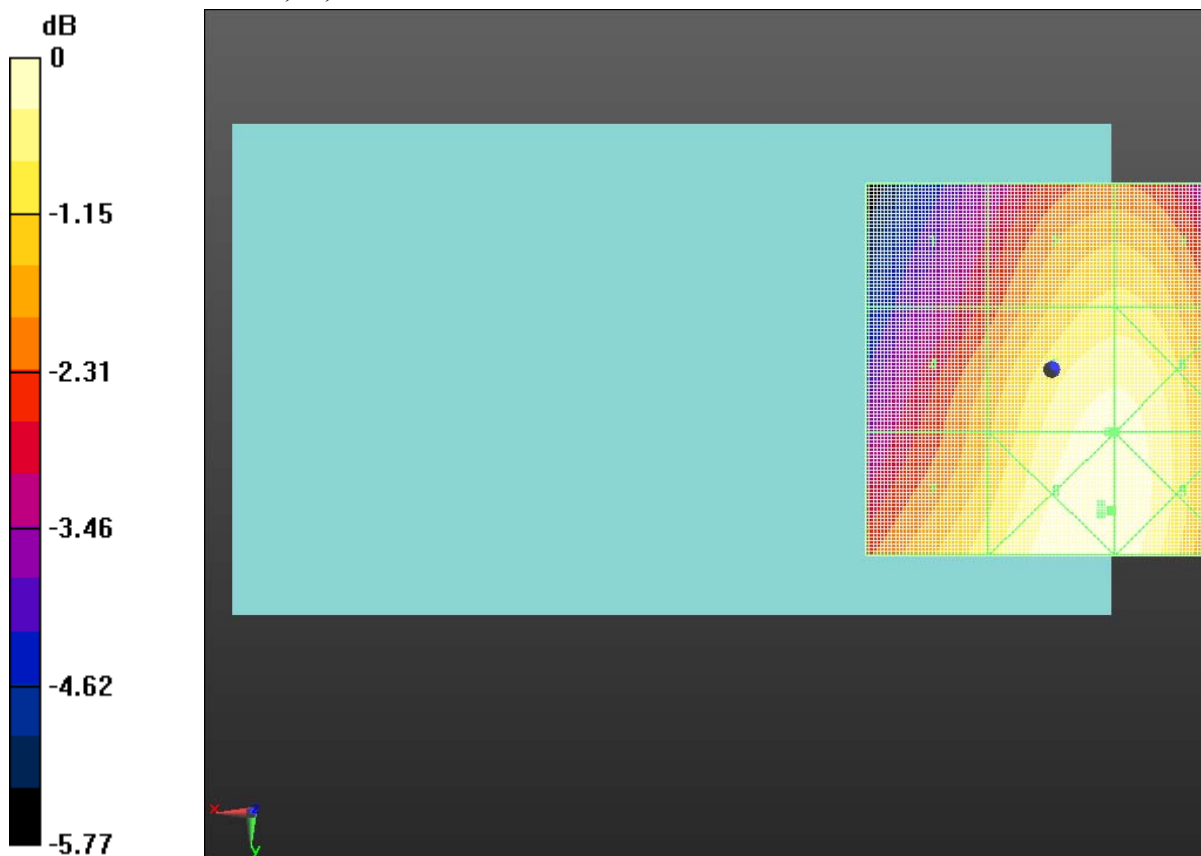
Grid 1 M4 55.22 V/m	Grid 2 M4 66.59 V/m	Grid 3 M4 66.63 V/m
Grid 4 M4 61.14 V/m	Grid 5 M4 73.36 V/m	Grid 6 M4 73.36 V/m
Grid 7 M4 65.83 V/m	Grid 8 M4 74.52 V/m	Grid 9 M4 74.51 V/m

Cursor:

Total = 74.52 V/m

E Category: M4

Location: -8, 19, 8.7 mm



0 dB = 68.82 V/m = 36.75 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 80 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 3/22/2013 4:02:20 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_V_Telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29

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 = 77.75 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.070 is applied.

E-field emissions = 63.99 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 44.49 V/m	Grid 2 M4 52.28 V/m	Grid 3 M4 52.28 V/m
Grid 4 M4 51.78 V/m	Grid 5 M4 63.99 V/m	Grid 6 M4 63.99 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

59.38 V/m

72.39 V/m

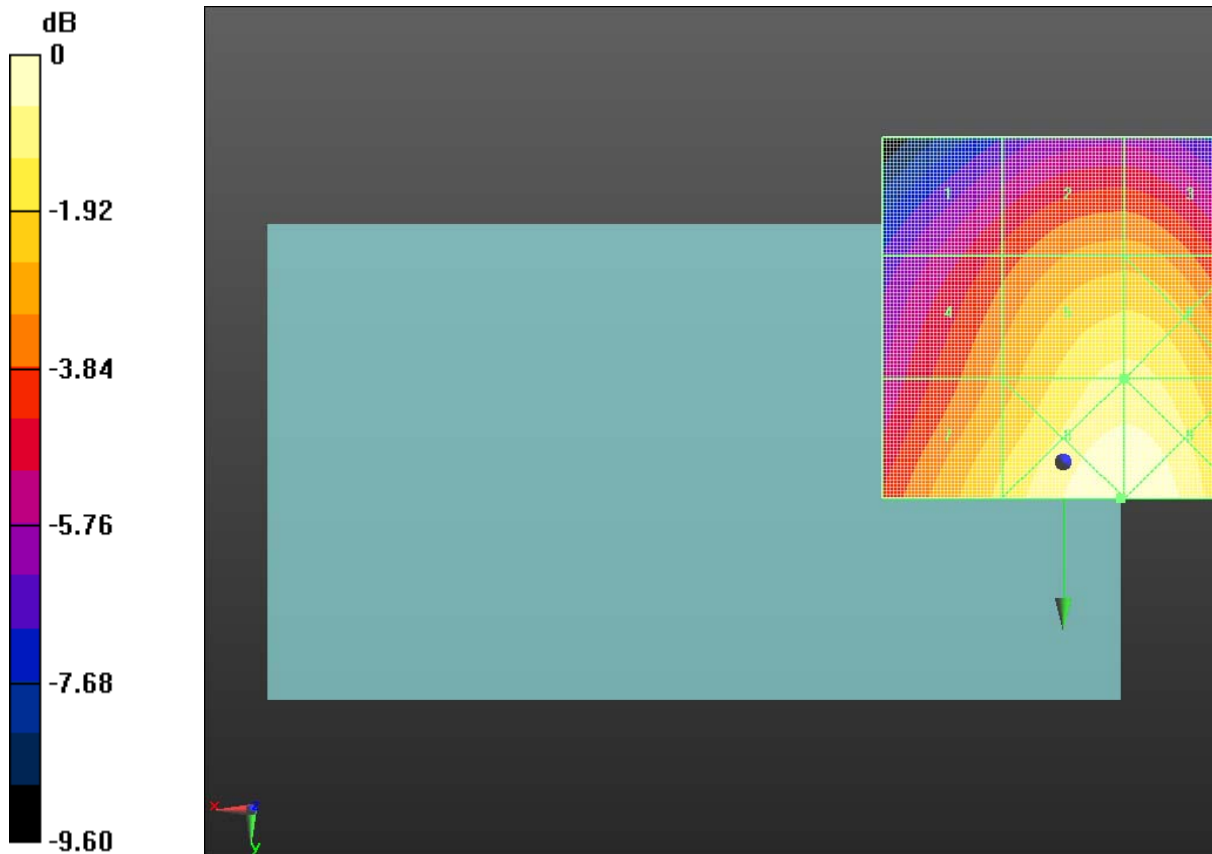
72.37 V/m

Cursor:

Total = 72.39 V/m

E Category: M4

Location: -8, 5, 8.7 mm



0 dB = 72.39 V/m = 37.19 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 82 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 6/4/2013 9:03:57 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_IV-

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB035D0

Communication System: UID 0 - n/a, WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 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 52.8.6(1115); SEMCAD X 14.6.9(7117)

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 = 13.82 V/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.030 is applied.

E-field emissions = 16.49 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 15.96 V/m	Grid 2 M4 14.36 V/m	Grid 3 M4 11.61 V/m
Grid 4 M4 12.75 V/m	Grid 5 M4 16.49 V/m	Grid 6 M4 16.77 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 83 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

15.28 V/m	20.85 V/m	20.85 V/m
------------------	------------------	------------------

Cursor:

Total = 20.85 V/m

E Category: M4

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 = 13.89 V/m; Power Drift = -0.10 dB

PMR not calibrated. PMF = 1.030 is applied.

E-field emissions = 16.36 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 15.84 V/m	Grid 2 M4 14.40 V/m	Grid 3 M4 11.55 V/m
Grid 4 M4 12.68 V/m	Grid 5 M4 16.36 V/m	Grid 6 M4 16.62 V/m
Grid 7 M4 15.23 V/m	Grid 8 M4 20.82 V/m	Grid 9 M4 20.82 V/m

Cursor:

Total = 20.82 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 = 13.28 V/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 1.030 is applied.

E-field emissions = 17.20 V/m

Near-field category: M4 (AWF 0 dB)

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 84 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

PMF scaled E-field

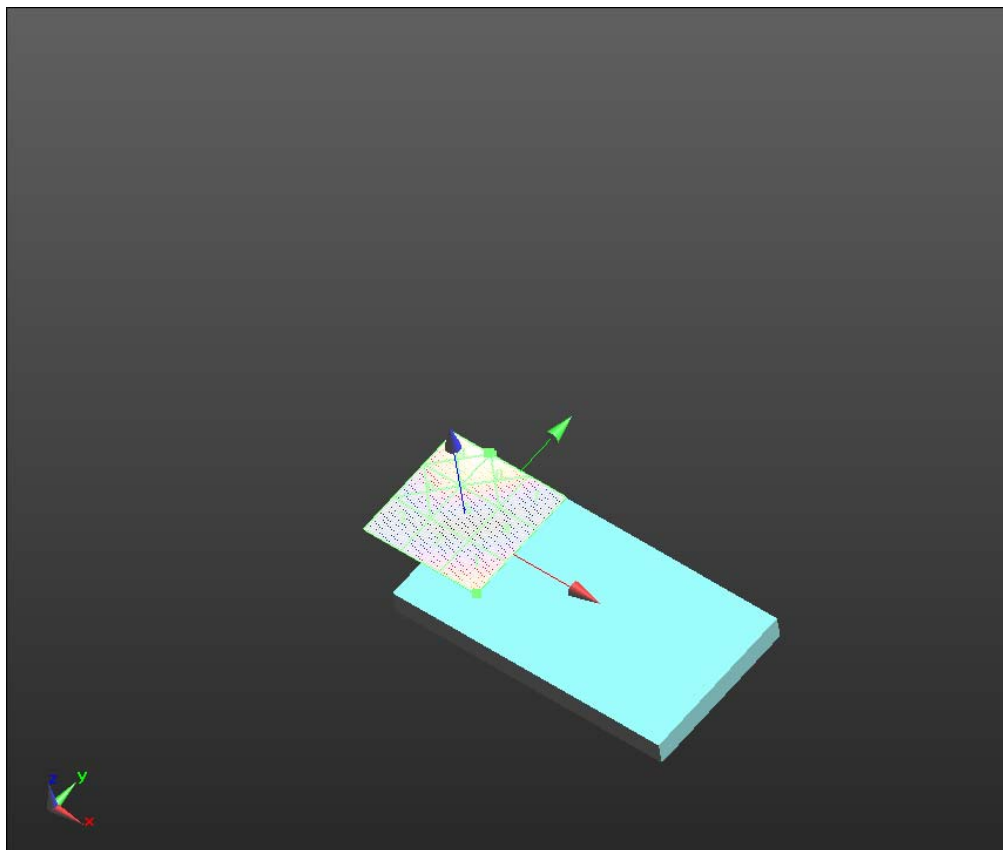
Grid 1 M4 17.20 V/m	Grid 2 M4 15.34 V/m	Grid 3 M4 12.48 V/m
Grid 4 M4 13.72 V/m	Grid 5 M4 16.79 V/m	Grid 6 M4 17.28 V/m
Grid 7 M4 15.60 V/m	Grid 8 M4 22.24 V/m	Grid 9 M4 22.27 V/m

Cursor:

Total = 22.27 V/m

E Category: M4

Location: -9.5, 25, 8.7 mm



0 dB = 20.85 V/m = 26.38 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 85 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 6/4/2013 9:14:58 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_IV-Telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB035D0

Communication System: UID 0 - n/a, WCDMA FDD IV; Frequency: 1752.6 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 52.8.6(1115); SEMCAD X 14.6.9(7117)

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 = 13.24 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.030 is applied.

E-field emissions = 16.38 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 18.02 V/m	Grid 2 M4 17.43 V/m	Grid 3 M4 14.27 V/m
Grid 4 M4 17.62 V/m	Grid 5 M4 16.38 V/m	Grid 6 M4 13.23 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 86 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

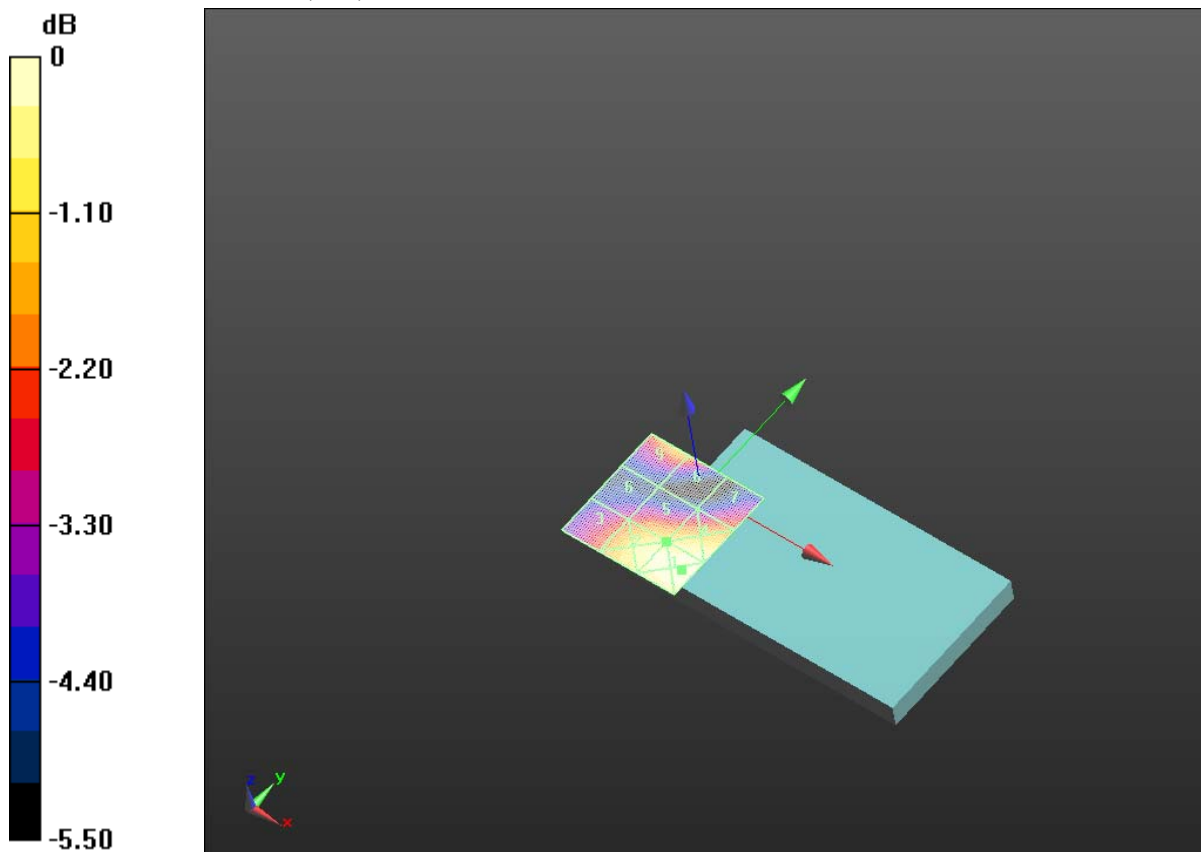
14.21 V/m	15.26 V/m	15.72 V/m
------------------	------------------	------------------

Cursor:

Total = 18.02 V/m

E Category: M4

Location: 20.5, -35, 8.7 mm



0 dB = 18.02 V/m = 25.12 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 87 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 6/3/2013 5:56:09 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900-Rev 2-05

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2FFFB6AF

Communication System: UID 0 - n/a, 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 52.8.6(1115); SEMCAD X 14.6.9(7117)

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 = 12.46 V/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 57.93 V/m

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

PMF scaled E-field

Grid 1 M3 57.93 V/m	Grid 2 M3 57.17 V/m	Grid 3 M4 43.51 V/m
Grid 4 M4 43.62 V/m	Grid 5 M3 53.91 V/m	Grid 6 M3 56.97 V/m
Grid 7 M4	Grid 8 M3	Grid 9 M3

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 88 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

43.82 V/m	72.77 V/m	73.32 V/m
------------------	------------------	------------------

Cursor:

Total = 73.32 V/m

E Category: M3

Location: -10.5, 25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device_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 = 13.02 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 56.98 V/m

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

PMF scaled E-field

Grid 1 M3 56.98 V/m	Grid 2 M3 56.63 V/m	Grid 3 M4 45.21 V/m
Grid 4 M4 42.66 V/m	Grid 5 M3 52.30 V/m	Grid 6 M3 55.17 V/m
Grid 7 M4 41.96 V/m	Grid 8 M3 69.35 V/m	Grid 9 M3 69.68 V/m

Cursor:

Total = 69.68 V/m

E Category: M3

Location: -10, 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 = 12.61 V/m; Power Drift = -0.17 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 61.05 V/m

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

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

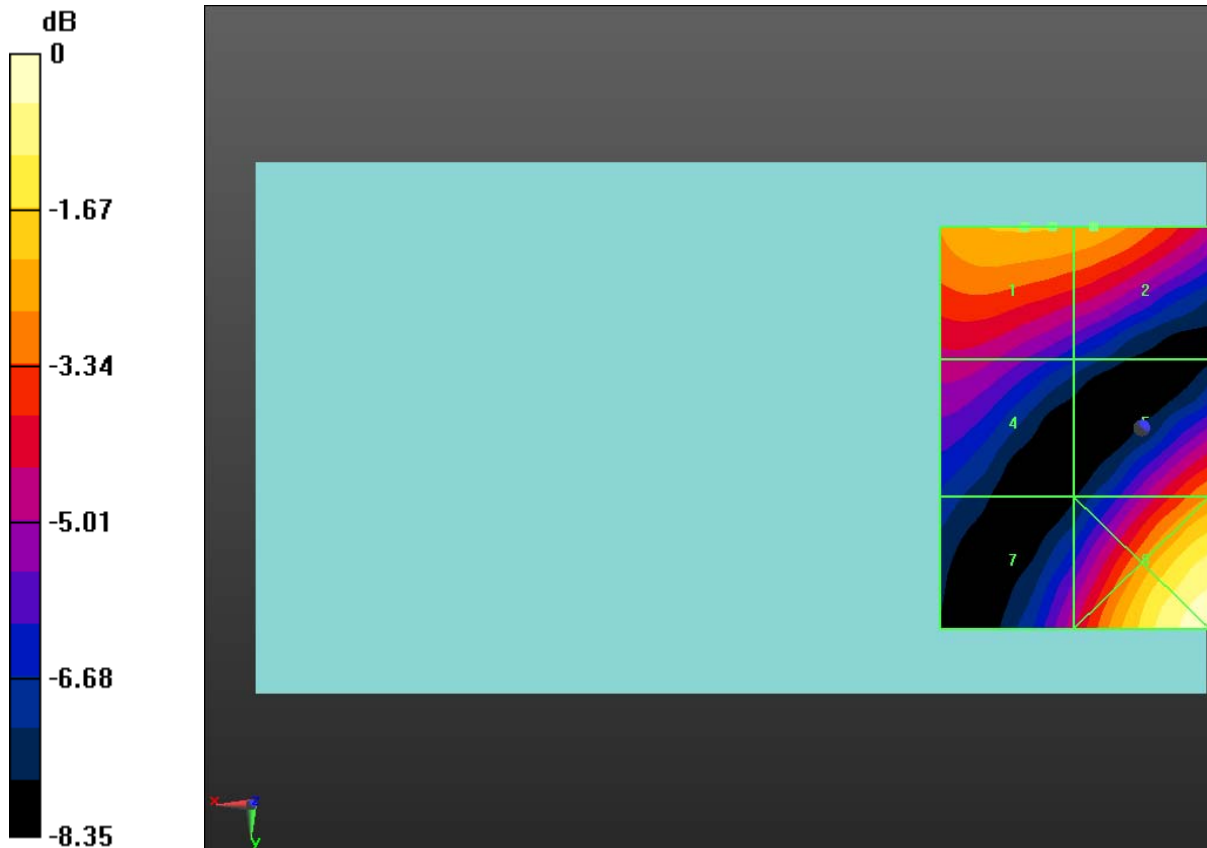
Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

PMF scaled E-field

Grid 1 M3 60.83 V/m	Grid 2 M3 61.05 V/m	Grid 3 M3 52.29 V/m
Grid 4 M4 45.97 V/m	Grid 5 M3 51.96 V/m	Grid 6 M3 55.69 V/m
Grid 7 M4 39.24 V/m	Grid 8 M3 72.73 V/m	Grid 9 M3 73.52 V/m

Cursor:
 Total = 73.52 V/m
 E Category: M3
 Location: -11, 25, 8.7 mm



0 dB = 74.12 V/m = 37.40 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 90 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 6/3/2013 6:08:17 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900-Rev 2-05

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2FFFB6AF

Communication System: UID 0 - n/a, GSM 1900; Frequency: 1850.2 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 52.8.6(1115); SEMCAD X 14.6.9(7117)

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 = 12.57 V/m; Power Drift = -0.31 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 62.98 V/m

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

PMF scaled E-field

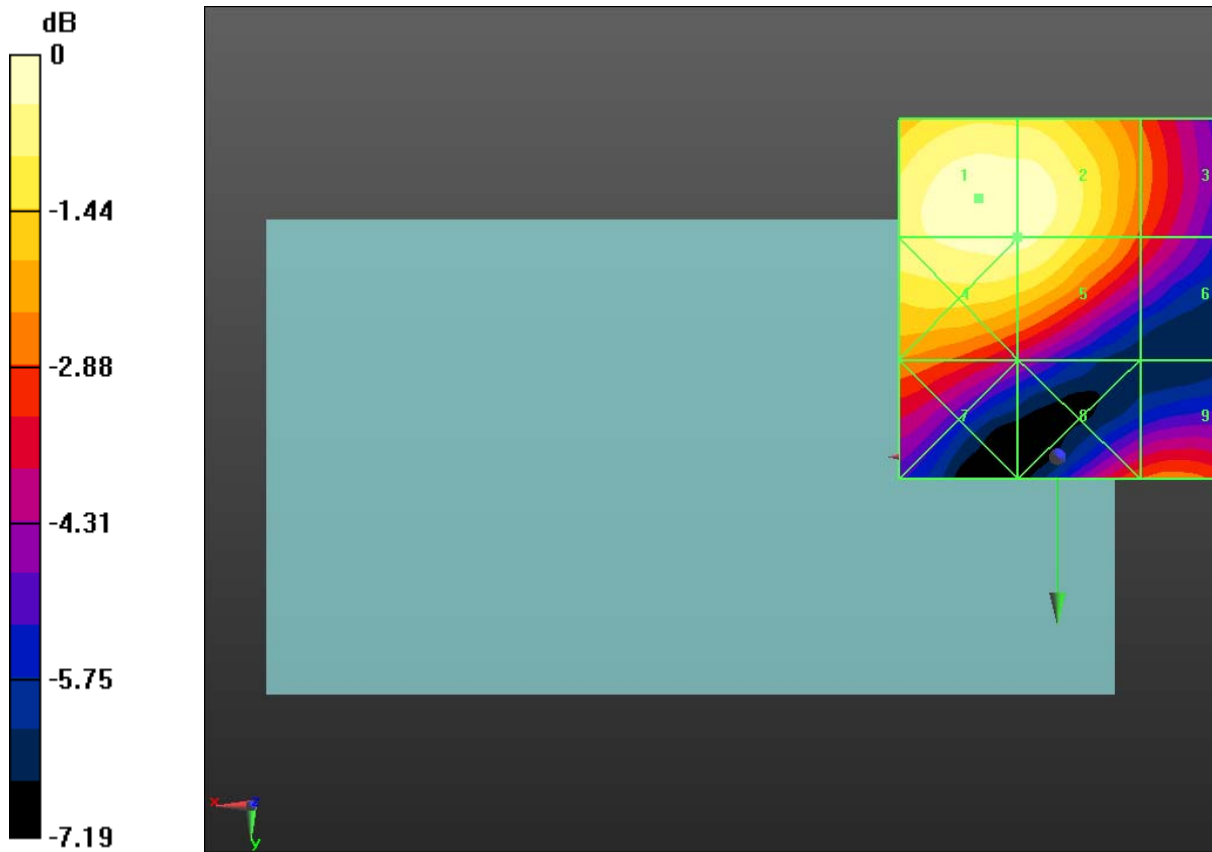
Grid 1 M3 62.98 V/m	Grid 2 M3 62.47 V/m	Grid 3 M3 47.76 V/m
Grid 4 M3 61.71 V/m	Grid 5 M3 61.32 V/m	Grid 6 M4 45.03 V/m
Grid 7 M3	Grid 8 M4	Grid 9 M3

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 91 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

48.19 V/m	45.89 V/m	47.37 V/m
------------------	------------------	------------------

Cursor:
Total = 62.98 V/m
E Category: M3
Location: 11, -36, 8.7 mm



0 dB = 63.67 V/m = 36.08 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 92 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 3/22/2013 4:17:46 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_II

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29

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 = 22.94 V/m; Power Drift = 0.06 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 35.99 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 34.11 V/m	Grid 2 M4 34.40 V/m	Grid 3 M4 30.98 V/m
Grid 4 M4 23.65 V/m	Grid 5 M4 35.99 V/m	Grid 6 M4 38.49 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 93 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

27.94 V/m	48.61 V/m	49.13 V/m
------------------	------------------	------------------

Cursor:

Total = 49.12 V/m

E Category: M4

Location: -11, 24.5, 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 = 24.24 V/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 32.50 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 31.25 V/m	Grid 2 M4 32.50 V/m	Grid 3 M4 30.83 V/m
Grid 4 M4 21.44 V/m	Grid 5 M4 32.32 V/m	Grid 6 M4 35.14 V/m
Grid 7 M4 24.28 V/m	Grid 8 M4 43.21 V/m	Grid 9 M4 44.02 V/m

Cursor:

Total = 44.02 V/m

E Category: M4

Location: -11.5, 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 = 25.41 V/m; Power Drift = 0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 33.47 V/m

Near-field category: M4 (AWF 0 dB)

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

PMF scaled E-field

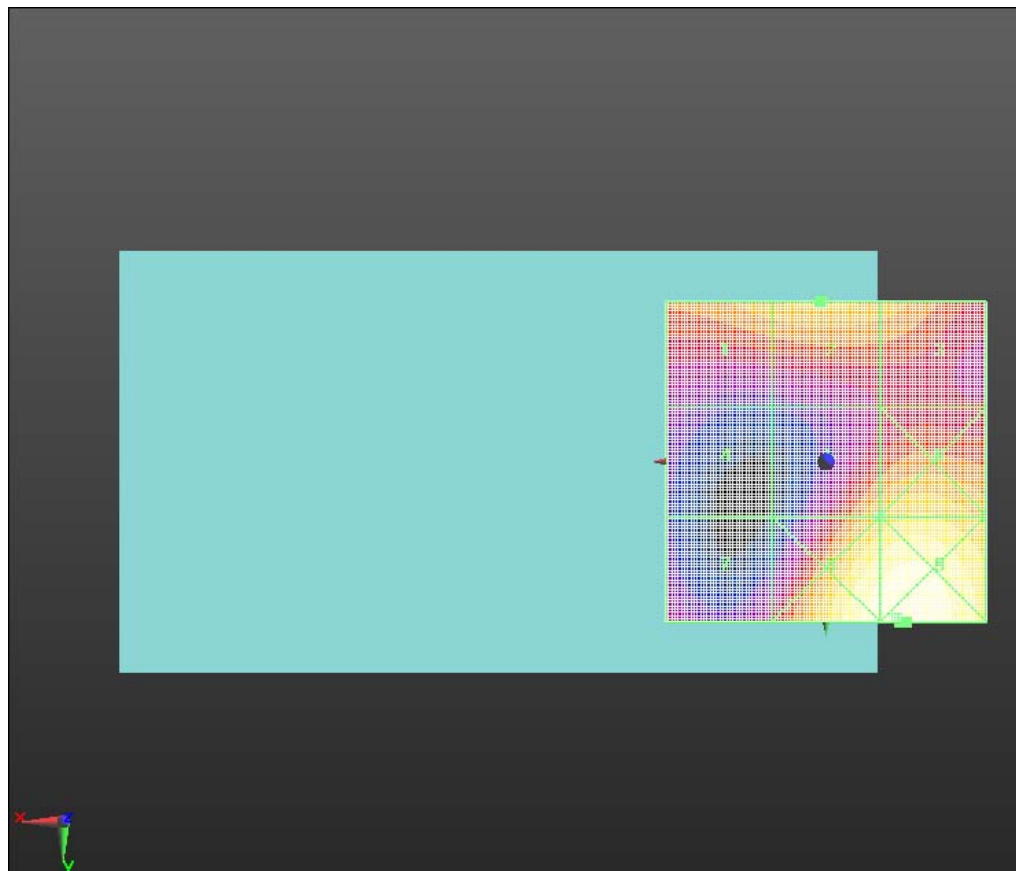
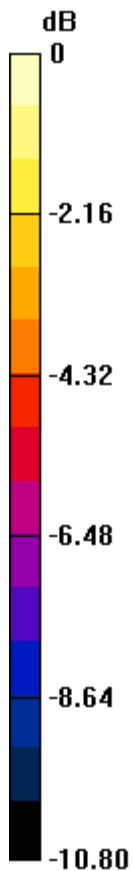
Grid 1 M4 32.36 V/m	Grid 2 M4 33.47 V/m	Grid 3 M4 32.17 V/m
Grid 4 M4 22.35 V/m	Grid 5 M4 32.96 V/m	Grid 6 M4 35.49 V/m
Grid 7 M4 24.87 V/m	Grid 8 M4 42.47 V/m	Grid 9 M4 43.42 V/m

Cursor:

Total = 43.42 V/m

E Category: M4

Location: -12.5, 25, 8.7 mm



0 dB = 49.12 V/m = 33.83 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 95 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 3/22/2013 4:37:58 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_II_Telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29

Communication System: WCDMA FDD II; Frequency: 1852.4 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 = 23.09 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 37.35 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 39.50 V/m	Grid 2 M4 39.99 V/m	Grid 3 M4 35.82 V/m
Grid 4 M4 37.03 V/m	Grid 5 M4 37.35 V/m	Grid 6 M4 33.38 V/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 96 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

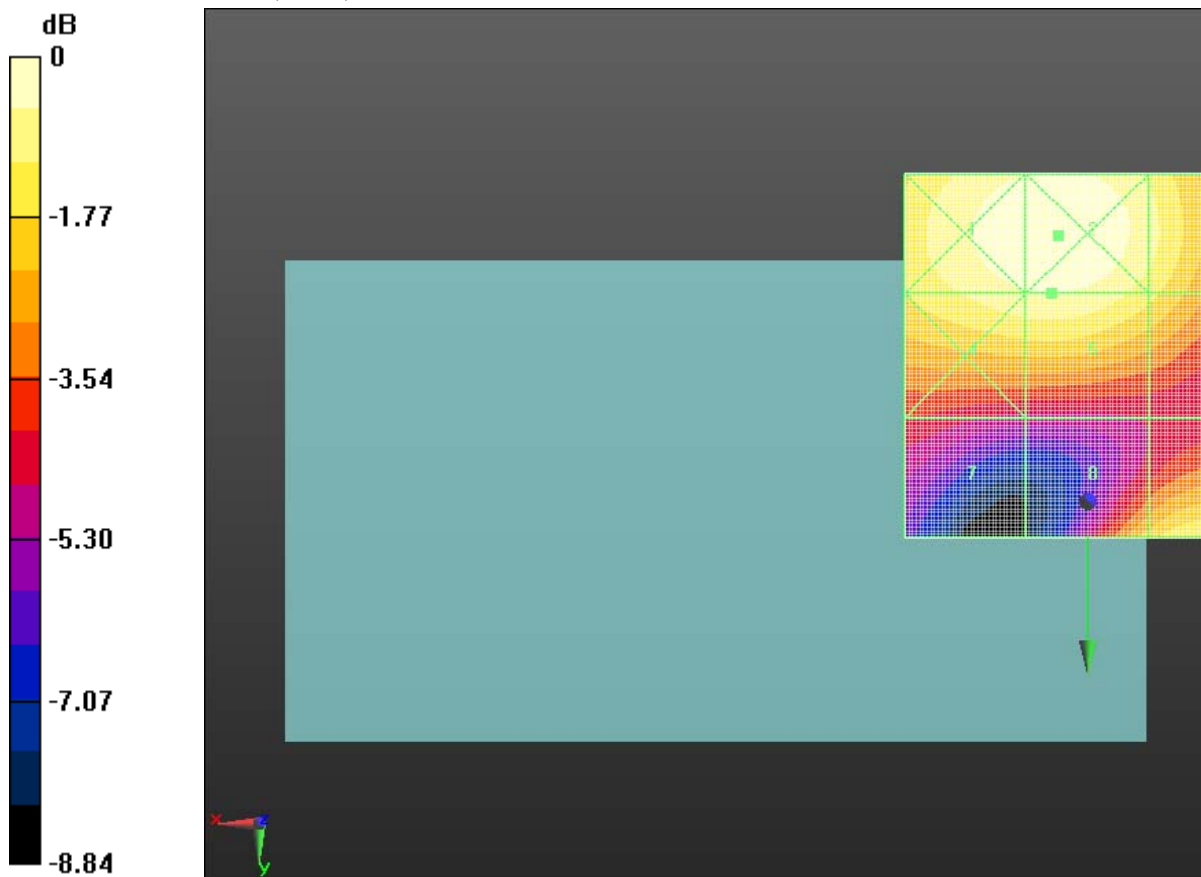
25.00 V/m	31.95 V/m	35.14 V/m
------------------	------------------	------------------

Cursor:

Total = 39.99 V/m

E Category: M4

Location: 4, -36.5, 8.7 mm



0 dB = 39.99 V/m = 32.04 dBV/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 97 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 3/22/2013 5:41:34 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_850

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB04D29

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: DASYS (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**
- DASYS2 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 = 0.1610 A/m; Power Drift = 0.05 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.4894 A/m

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

PMF scaled H-field

Grid 1 M3 0.455 A/m	Grid 2 M4 0.367 A/m	Grid 3 M4 0.334 A/m
Grid 4 M3 0.473 A/m	Grid 5 M3 0.489 A/m	Grid 6 M3 0.464 A/m
Grid 7 M3	Grid 8 M3	Grid 9 M3

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 98 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

0.627 A/m	0.654 A/m	0.592 A/m
------------------	------------------	------------------

Cursor:

Total = 0.6540 A/m

H Category: M3

Location: 1, 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 = 0.1670 A/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.4962 A/m

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

PMF scaled H-field

Grid 1 M3 0.491 A/m	Grid 2 M4 0.394 A/m	Grid 3 M4 0.346 A/m
Grid 4 M3 0.488 A/m	Grid 5 M3 0.496 A/m	Grid 6 M3 0.464 A/m
Grid 7 M3 0.639 A/m	Grid 8 M3 0.653 A/m	Grid 9 M3 0.585 A/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 99 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Cursor:

Total = 0.6529 A/m

H Category: M3

Location: 1.5, 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 = 0.1670 A/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.5164 A/m

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

PMF scaled H-field

Grid 1 M3 0.490 A/m	Grid 2 M4 0.398 A/m	Grid 3 M4 0.347 A/m
Grid 4 M3 0.510 A/m	Grid 5 M3 0.516 A/m	Grid 6 M3 0.475 A/m
Grid 7 M3 0.670 A/m	Grid 8 M3 0.678 A/m	Grid 9 M3 0.604 A/m

Cursor:

Total = 0.6784 A/m

H Category: M3

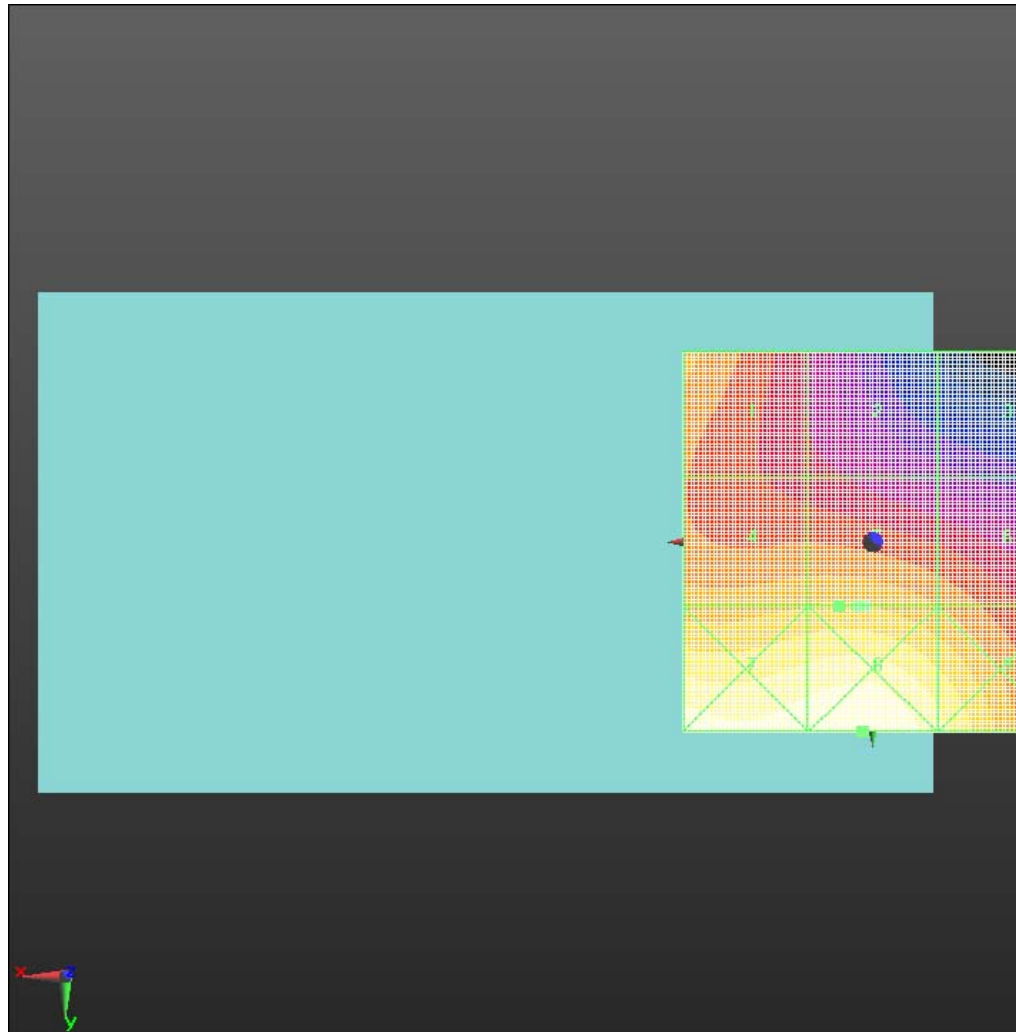
Location: 1.5, 25, 8.7 mm

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW



0 dB = 0.6520 A/m = -3.72 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 101 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 3/22/2013 5:53:04 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_850_Telecoil

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB04D29

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 measurement 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 = 0.1670 A/m; Power Drift = 0.03 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.4964 A/m

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

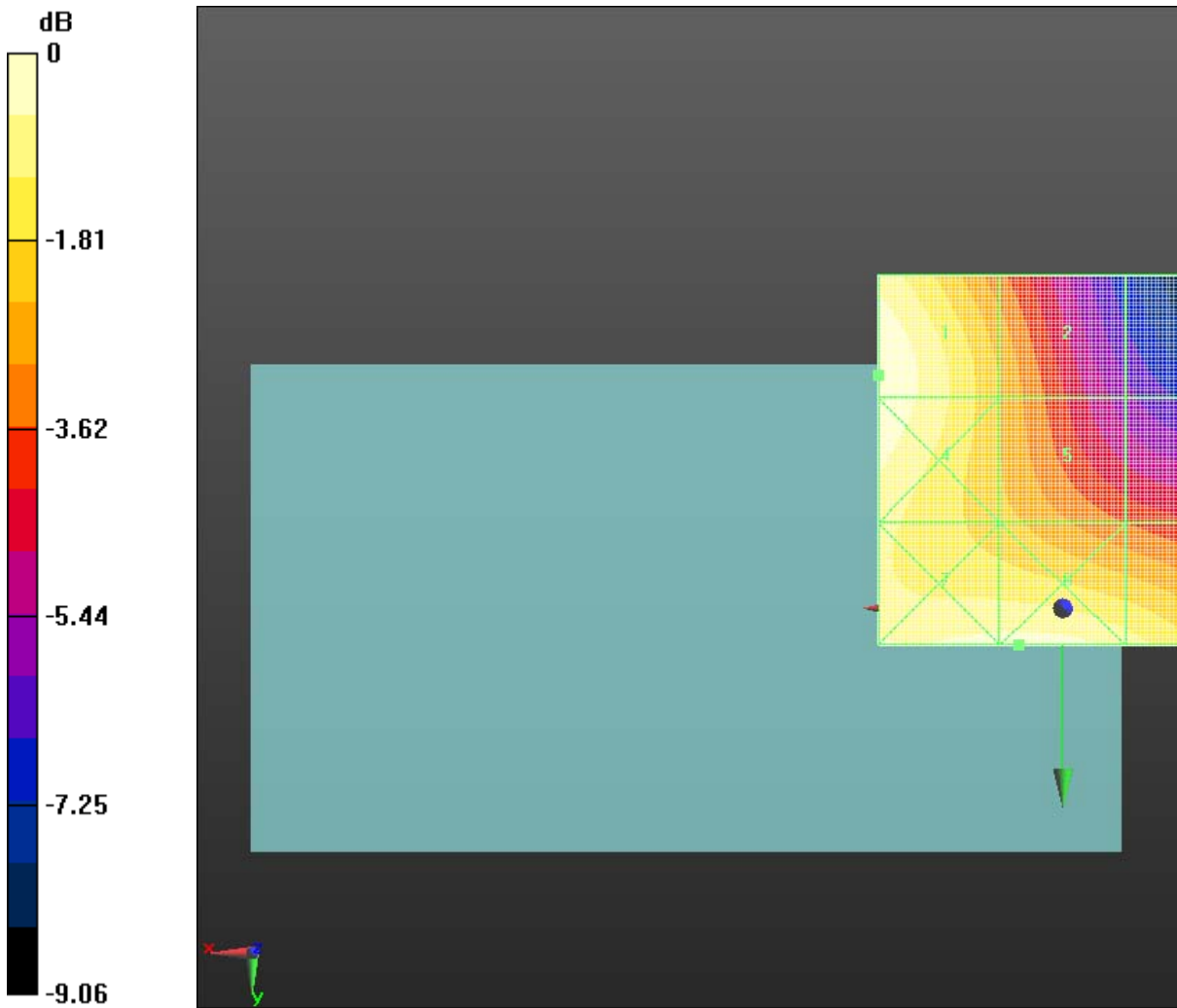
PMF scaled H-field

Grid 1 M3 0.496 A/m	Grid 2 M4 0.376 A/m	Grid 3 M4 0.254 A/m
Grid 4 M3 0.494 A/m	Grid 5 M4 0.386 A/m	Grid 6 M4 0.327 A/m
Grid 7 M3	Grid 8 M3	Grid 9 M4

	Document			Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW			102 (125)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	Feb. 17, June 28, 2012 March 22-June 04, 2013	RTS-6036-1304-53	L6ARFR100LW	

0.477 A/m	0.478 A/m	0.447 A/m
------------------	------------------	------------------

Cursor:
Total = 0.4964 A/m
H Category: M3
Location: 25, -31.5, 8.7 mm



0 dB = 0.4949 A/m = -6.11 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 103 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 3/22/2013 6:04:45 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_V

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB04D29

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 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 = 0.1540 A/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.090 is applied.

H-field emissions = 0.1770 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.166 A/m	Grid 2 M4 0.136 A/m	Grid 3 M4 0.124 A/m
Grid 4 M4 0.174 A/m	Grid 5 M4 0.177 A/m	Grid 6 M4 0.169 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 104 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

0.228 A/m	0.229 A/m	0.209 A/m
------------------	------------------	------------------

Cursor:

Total = 0.2293 A/m

H Category: M4

Location: 2.5, 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 = 0.1560 A/m; Power Drift = 0.04 dB

PMR not calibrated. PMF = 1.090 is applied.

H-field emissions = 0.1792 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.176 A/m	Grid 2 M4 0.141 A/m	Grid 3 M4 0.124 A/m
Grid 4 M4 0.179 A/m	Grid 5 M4 0.171 A/m	Grid 6 M4 0.160 A/m
Grid 7 M4 0.248 A/m	Grid 8 M4 0.216 A/m	Grid 9 M4 0.184 A/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 105 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Cursor:

Total = 0.2479 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 = 0.1540 A/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.090 is applied.

H-field emissions = 0.1864 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.186 A/m	Grid 2 M4 0.145 A/m	Grid 3 M4 0.123 A/m
Grid 4 M4 0.186 A/m	Grid 5 M4 0.170 A/m	Grid 6 M4 0.159 A/m
Grid 7 M4 0.255 A/m	Grid 8 M4 0.217 A/m	Grid 9 M4 0.182 A/m

Cursor:

Total = 0.2546 A/m

H Category: M4

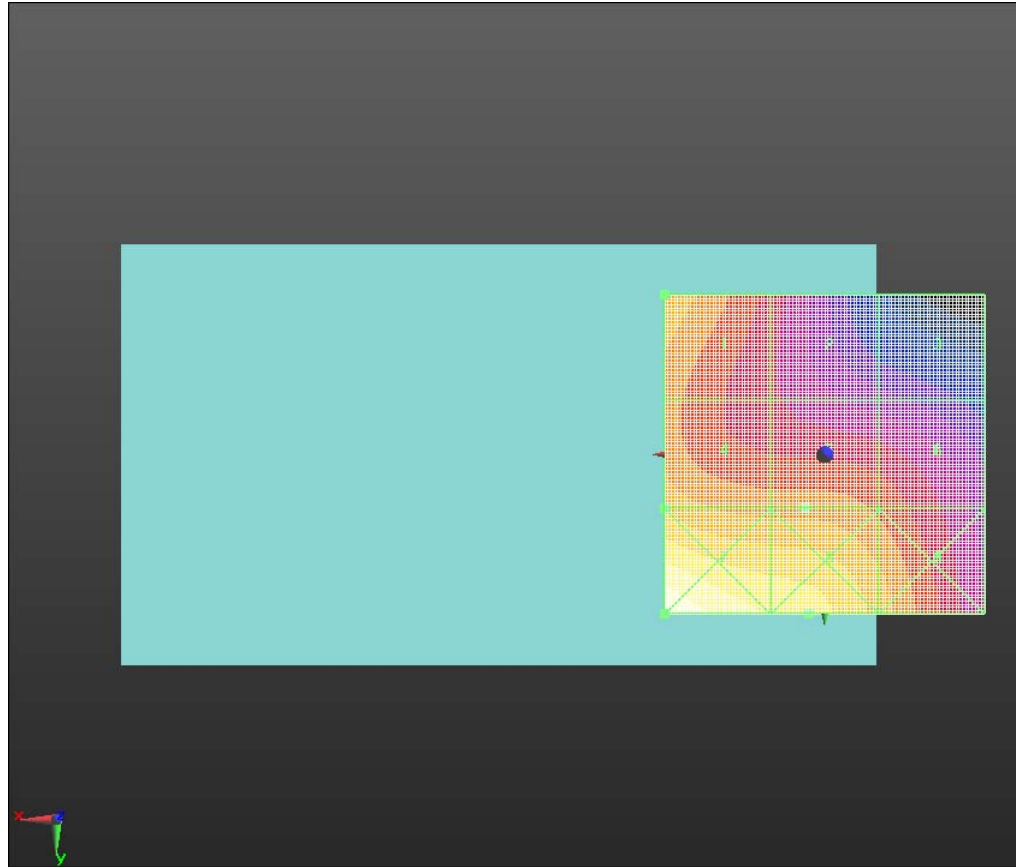
Location: 25, 25, 8.7 mm

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW



0 dB = 0.2293 A/m = -12.79 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 107 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 3/22/2013 6:19:47 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_V_Telecoil

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB04D29

Communication System: WCDMA FDD V; 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 measurement 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 = 0.1540 A/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 1.090 is applied.

H-field emissions = 0.1894 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.189 A/m	Grid 2 M4 0.146 A/m	Grid 3 M4 0.095 A/m
Grid 4 M4 0.188 A/m	Grid 5 M4 0.146 A/m	Grid 6 M4 0.116 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

0.176 A/m

0.159 A/m

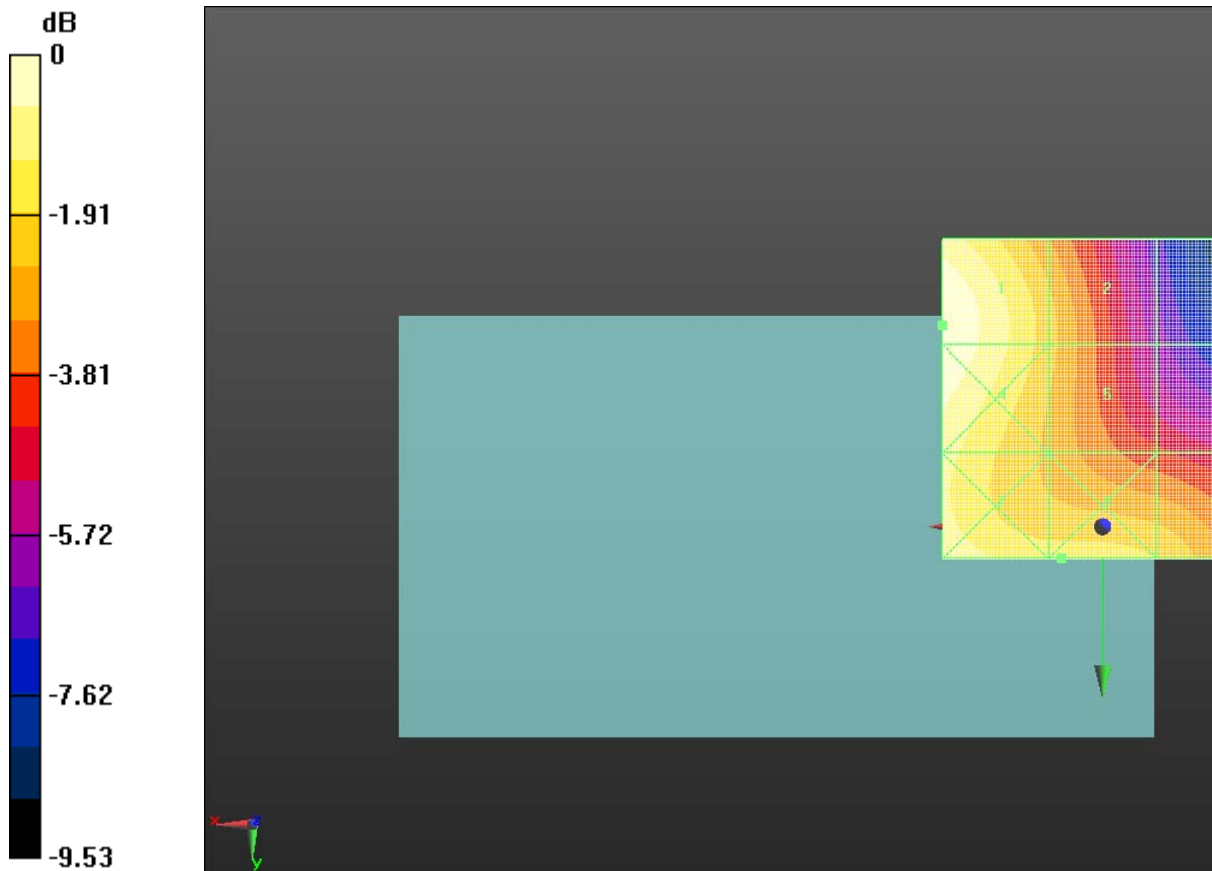
0.152 A/m

Cursor:

Total = 0.1894 A/m

H Category: M4

Location: 25, -31.5, 8.7 mm



0 dB = 0.1894 A/m = -14.45 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 109 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 6/4/2013 9:27:21 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_IV

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB035D0

Communication System: UID 0 - n/a, WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 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 52.8.6(1115); SEMCAD X 14.6.9(7117)

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 = 0.04000 A/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.03908 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.039 A/m	Grid 2 M4 0.038 A/m	Grid 3 M4 0.036 A/m
Grid 4 M4 0.036 A/m	Grid 5 M4 0.037 A/m	Grid 6 M4 0.036 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 110 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

0.041 A/m	0.037 A/m	0.030 A/m
------------------	------------------	------------------

Cursor:

Total = 0.04150 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 = 0.05200 A/m; Power Drift = -0.16 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.04848 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.047 A/m	Grid 2 M4 0.048 A/m	Grid 3 M4 0.047 A/m
Grid 4 M4 0.045 A/m	Grid 5 M4 0.048 A/m	Grid 6 M4 0.046 A/m
Grid 7 M4 0.050 A/m	Grid 8 M4 0.044 A/m	Grid 9 M4 0.039 A/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 111 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Cursor:

Total = 0.05032 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 = 0.06000 A/m; Power Drift = 0.10 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.05522 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.052 A/m	Grid 2 M4 0.055 A/m	Grid 3 M4 0.054 A/m
Grid 4 M4 0.051 A/m	Grid 5 M4 0.055 A/m	Grid 6 M4 0.054 A/m
Grid 7 M4 0.056 A/m	Grid 8 M4 0.051 A/m	Grid 9 M4 0.047 A/m

Cursor:

Total = 0.05611 A/m

H Category: M4

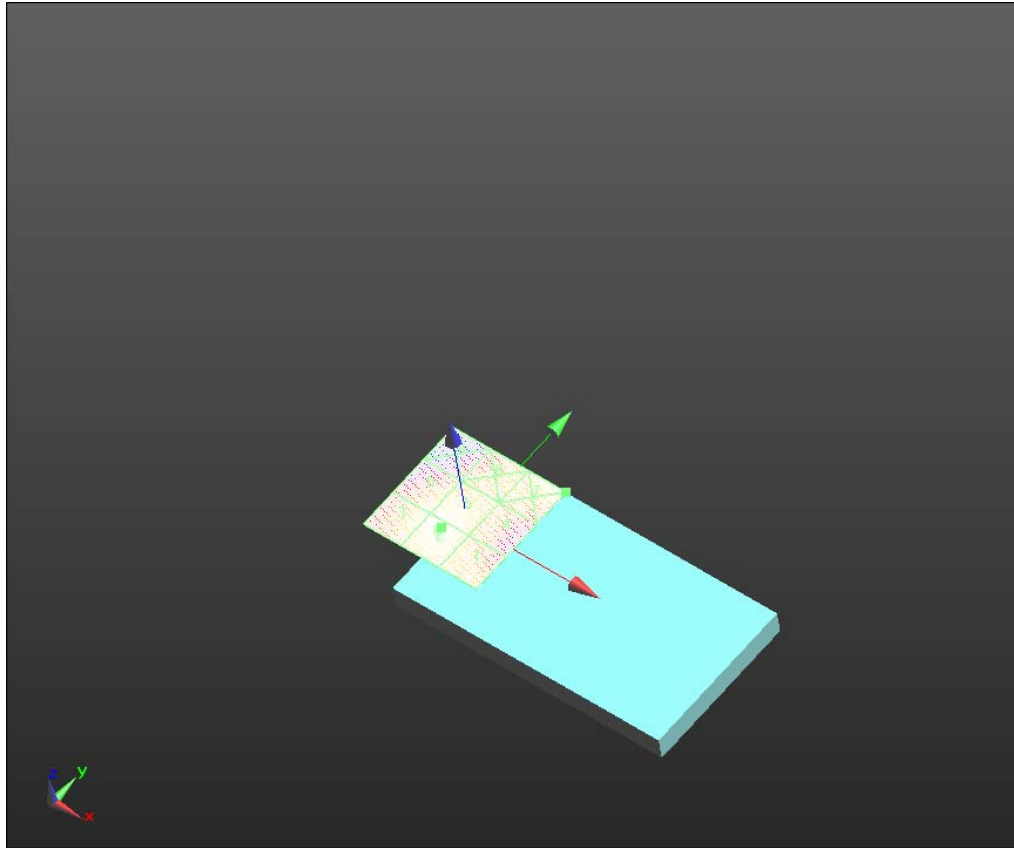
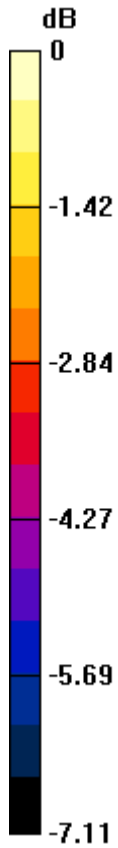
Location: 25, 25, 8.7 mm

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW



0 dB = 0.04150 A/m = -27.64 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 113 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 6/4/2013 9:45:08 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_IV_telecoil

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB035D0

Communication System: UID 0 - n/a, WCDMA FDD IV; Frequency: 1752.6 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 52.8.6(1115); SEMCAD X 14.6.9(7117)

Device H-Field measurement 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 = 0.05900 A/m; Power Drift = 0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.05454 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.053 A/m	Grid 2 M4 0.050 A/m	Grid 3 M4 0.046 A/m
Grid 4 M4 0.052 A/m	Grid 5 M4 0.055 A/m	Grid 6 M4 0.052 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 114 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

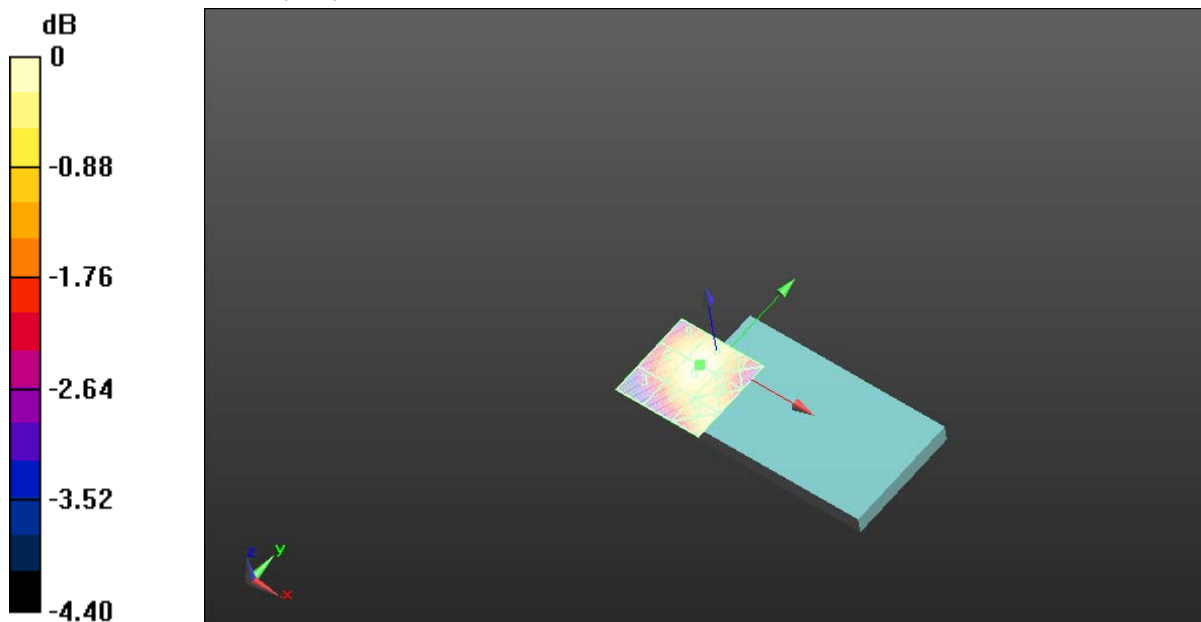
0.051 A/m	0.055 A/m	0.052 A/m
------------------	------------------	------------------

Cursor:

Total = 0.05454 A/m

H Category: M4

Location: -1, -11, 8.7 mm



0 dB = 0.05454 A/m = -25.27 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 115 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 6/3/2013 5:10:33 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_1900-Rev 2-05

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2FFFB6AF

Communication System: UID 0 - n/a, 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 52.8.6(1115); SEMCAD X 14.6.9(7117)

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 = 0.06700 A/m; Power Drift = -0.11 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.1706 A/m

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

PMF scaled H-field

Grid 1 M3 0.160 A/m	Grid 2 M3 0.171 A/m	Grid 3 M3 0.169 A/m
Grid 4 M3 0.144 A/m	Grid 5 M3 0.170 A/m	Grid 6 M3 0.168 A/m
Grid 7 M3	Grid 8 M3	Grid 9 M3

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 116 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

0.184 A/m	0.176 A/m	0.146 A/m
------------------	------------------	------------------

Cursor:

Total = 0.1836 A/m

H Category: M3

Location: 16, 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 = 0.07000 A/m; Power Drift = -0.00 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.1759 A/m

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

PMF scaled H-field

Grid 1 M3 0.176 A/m	Grid 2 M3 0.176 A/m	Grid 3 M3 0.171 A/m
Grid 4 M3 0.156 A/m	Grid 5 M3 0.176 A/m	Grid 6 M3 0.171 A/m
Grid 7 M3 0.188 A/m	Grid 8 M3 0.180 A/m	Grid 9 M3 0.154 A/m

Cursor:

Total = 0.1878 A/m

H Category: M3

Location: 20, 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 = 0.08000 A/m; Power Drift = 0.11 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.1978 A/m

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

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 117 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

PMF scaled H-field

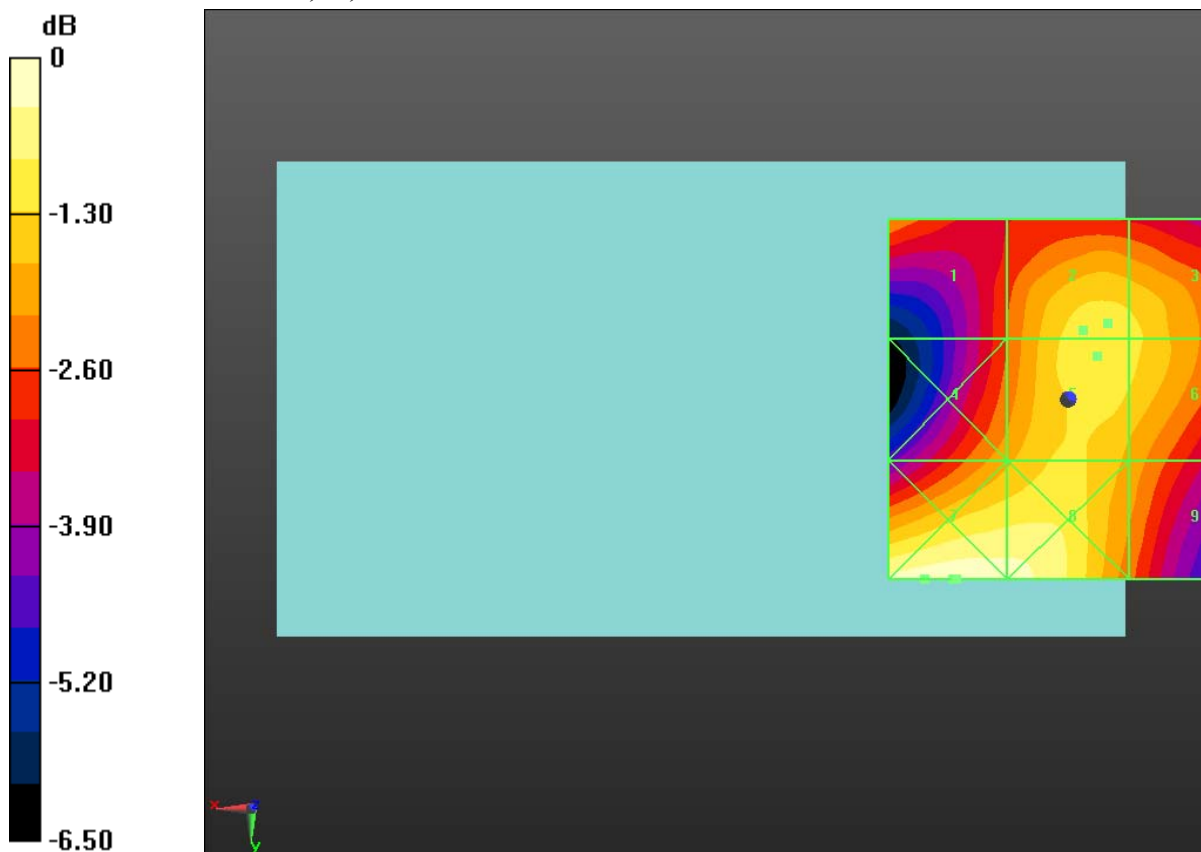
Grid 1 M3 0.171 A/m	Grid 2 M3 0.197 A/m	Grid 3 M3 0.193 A/m
Grid 4 M3 0.178 A/m	Grid 5 M3 0.198 A/m	Grid 6 M3 0.193 A/m
Grid 7 M3 0.218 A/m	Grid 8 M3 0.214 A/m	Grid 9 M3 0.177 A/m

Cursor:

Total = 0.2184 A/m

H Category: M3

Location: 15.5, 25, 8.7 mm



0 dB = 0.1849 A/m = -14.66 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 118 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 6/3/2013 5:31:04 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_1900-Rev 2-05_Telecoil

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2FFFB6AF

Communication System: UID 0 - n/a, 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 52.8.6(1115); SEMCAD X 14.6.9(7117)

Device H-Field measurement 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 = 0.08100 A/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.1928 A/m

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

PMF scaled H-field

Grid 1 M3 0.193 A/m	Grid 2 M3 0.148 A/m	Grid 3 M4 0.133 A/m
Grid 4 M3 0.186 A/m	Grid 5 M3 0.189 A/m	Grid 6 M3 0.181 A/m
Grid 7 M3	Grid 8 M3	Grid 9 M3

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

0.180 A/m

0.195 A/m

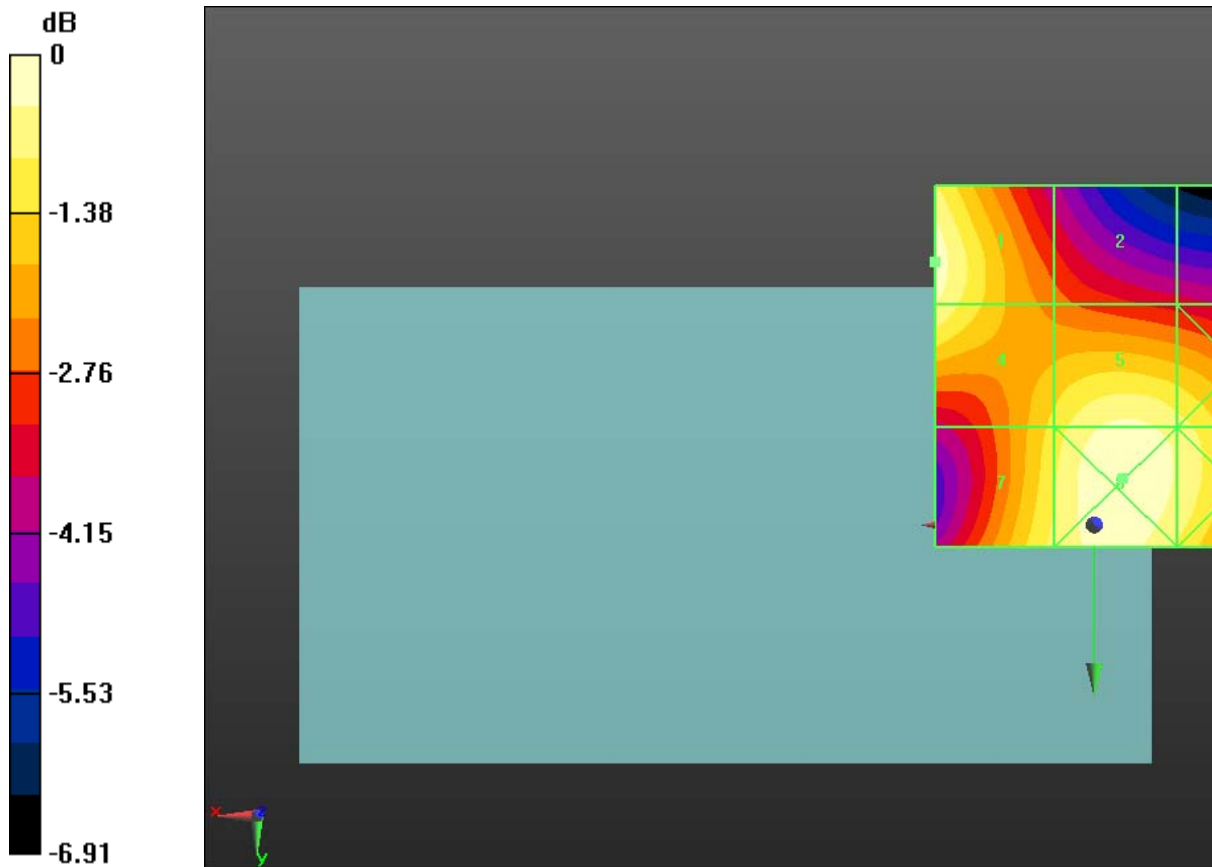
0.185 A/m

Cursor:

Total = 0.1953 A/m

H Category: M3

Location: -4, -6.5, 8.7 mm



0 dB = 0.1967 A/m = -14.12 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 120 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 3/23/2013 12:24:38 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_II

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB04D29

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 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 = 0.1200 A/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.1079 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.108 A/m	Grid 2 M4 0.105 A/m	Grid 3 M4 0.103 A/m
Grid 4 M4 0.093 A/m	Grid 5 M4 0.105 A/m	Grid 6 M4 0.103 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2013, RIM Testing Services, a division of Research In Motion Limited

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 121 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

0.106 A/m	0.102 A/m	0.089 A/m
------------------	------------------	------------------

Cursor:

Total = 0.1079 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 = 0.1070 A/m; Power Drift = 0.00 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.1020 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.101 A/m	Grid 2 M4 0.092 A/m	Grid 3 M4 0.090 A/m
Grid 4 M4 0.082 A/m	Grid 5 M4 0.092 A/m	Grid 6 M4 0.090 A/m
Grid 7 M4 0.102 A/m	Grid 8 M4 0.099 A/m	Grid 9 M4 0.082 A/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 122 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Cursor:

Total = 0.1020 A/m

H Category: M4

Location: 19.5, 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 = 0.1120 A/m; Power Drift = -0.06 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.1070 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.107 A/m	Grid 2 M4 0.099 A/m	Grid 3 M4 0.096 A/m
Grid 4 M4 0.089 A/m	Grid 5 M4 0.098 A/m	Grid 6 M4 0.096 A/m
Grid 7 M4 0.105 A/m	Grid 8 M4 0.100 A/m	Grid 9 M4 0.086 A/m

Cursor:

Total = 0.1070 A/m

H Category: M4

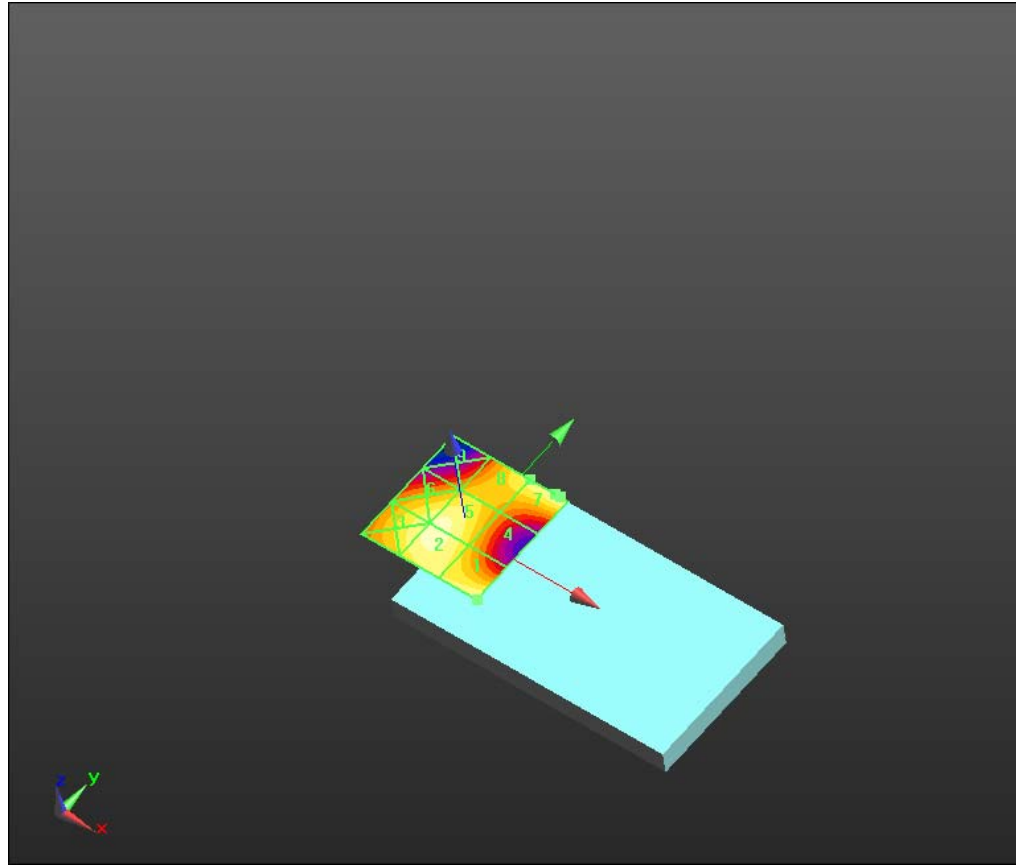
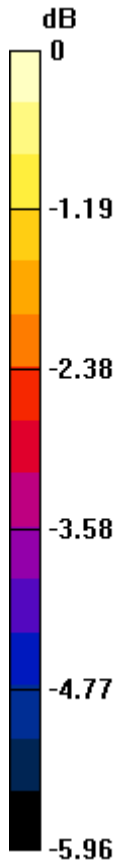
Location: 25, -25, 8.7 mm

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW



0 dB = 0.1079 A/m = -19.34 dBA/m

		Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFR101LW		Page 124 (125)
Author Data Daoud Attayi	Dates of Test Feb. 17, June 28, 2012 March 22-June 04, 2013	Report No RTS-6036-1304-53	FCC ID L6ARFR100LW	

Date/Time: 3/23/2013 12:56:54 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_II_Telecoil

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB04D29

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 measurement 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 = 0.1130 A/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.1003 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.118 A/m	Grid 2 M4 0.100 A/m	Grid 3 M4 0.086 A/m
Grid 4 M4 0.114 A/m	Grid 5 M4 0.100 A/m	Grid 6 M4 0.098 A/m
Grid 7 M4	Grid 8 M4	Grid 9 M4

Author Data
Daoud Attayi

Dates of Test
**Feb. 17, June 28, 2012
 March 22-June 04, 2013**

Report No
RTS-6036-1304-53

FCC ID
L6ARFR100LW

0.093 A/m

0.100 A/m

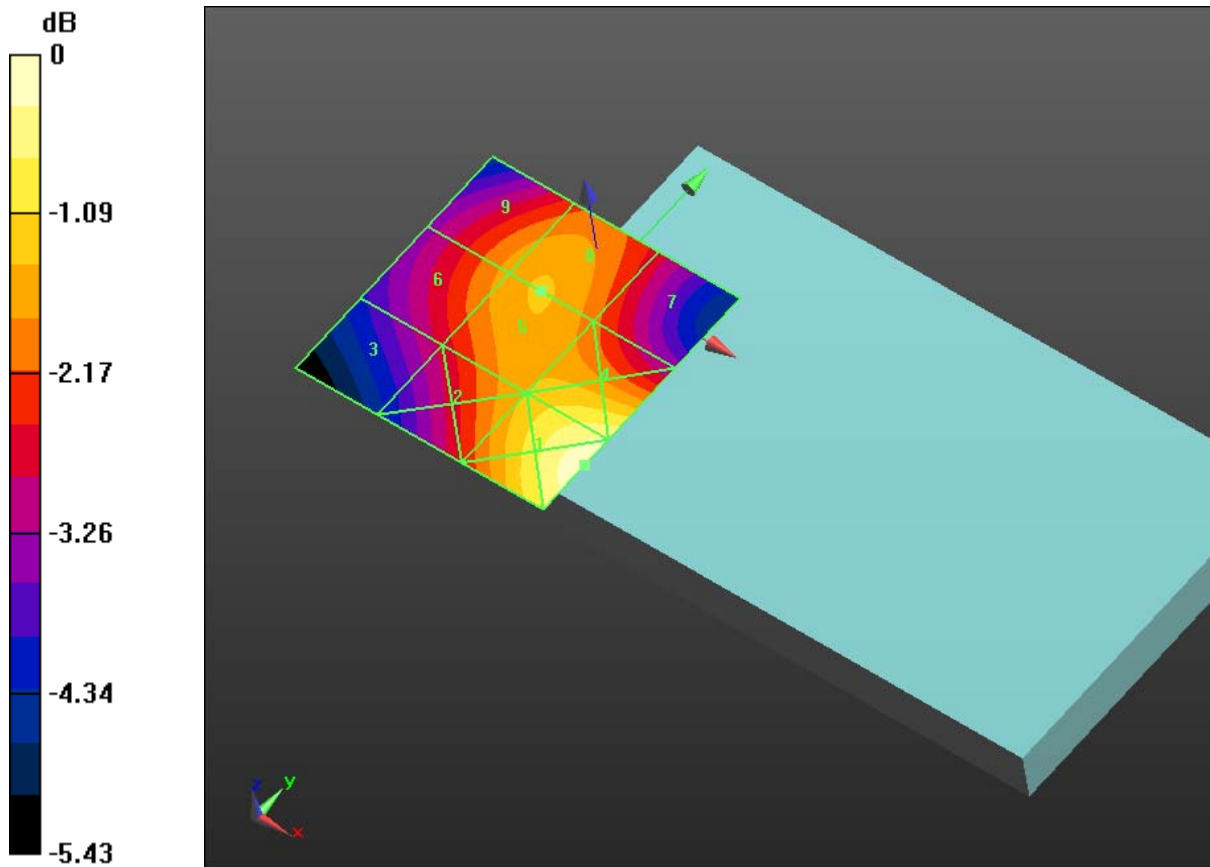
0.098 A/m

Cursor:

Total = 0.1180 A/m

H Category: M4

Location: 25, -34.5, 8.7 mm



0 dB = 0.1180 A/m = -18.56 dBA/m