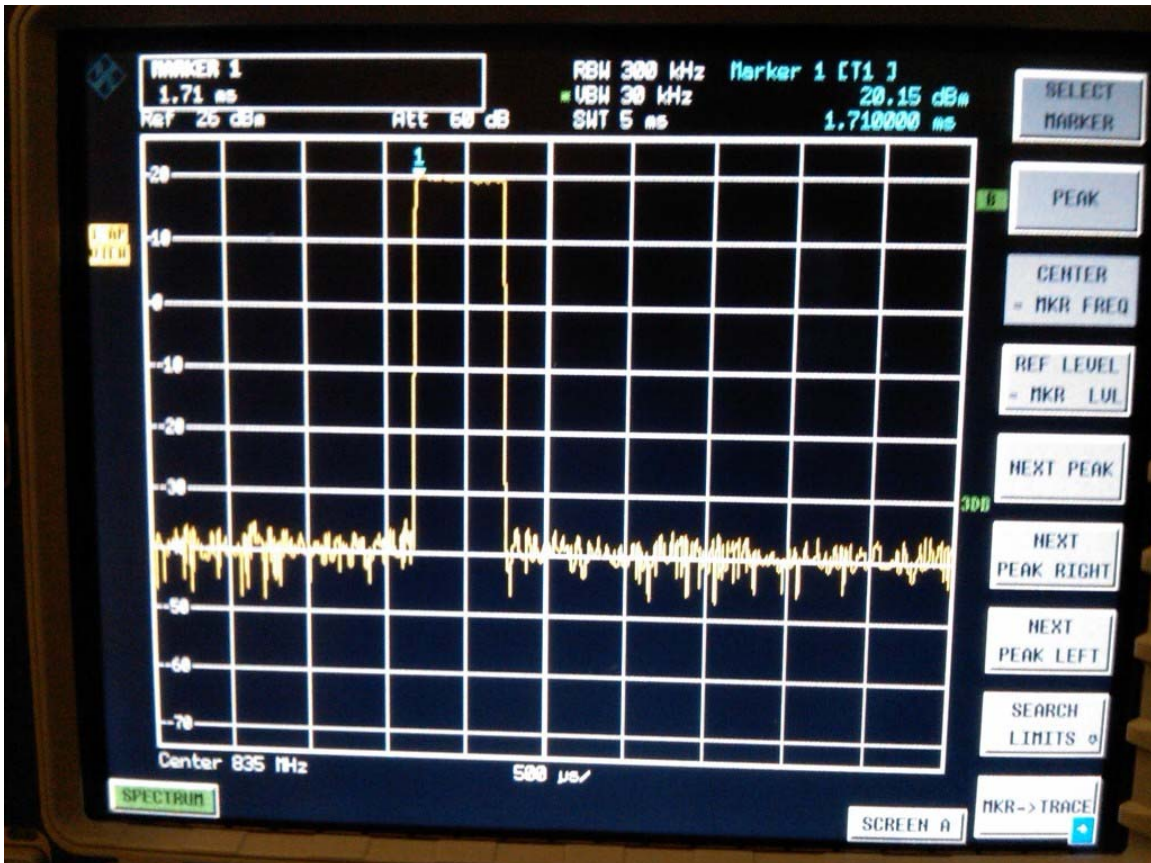
	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>1 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

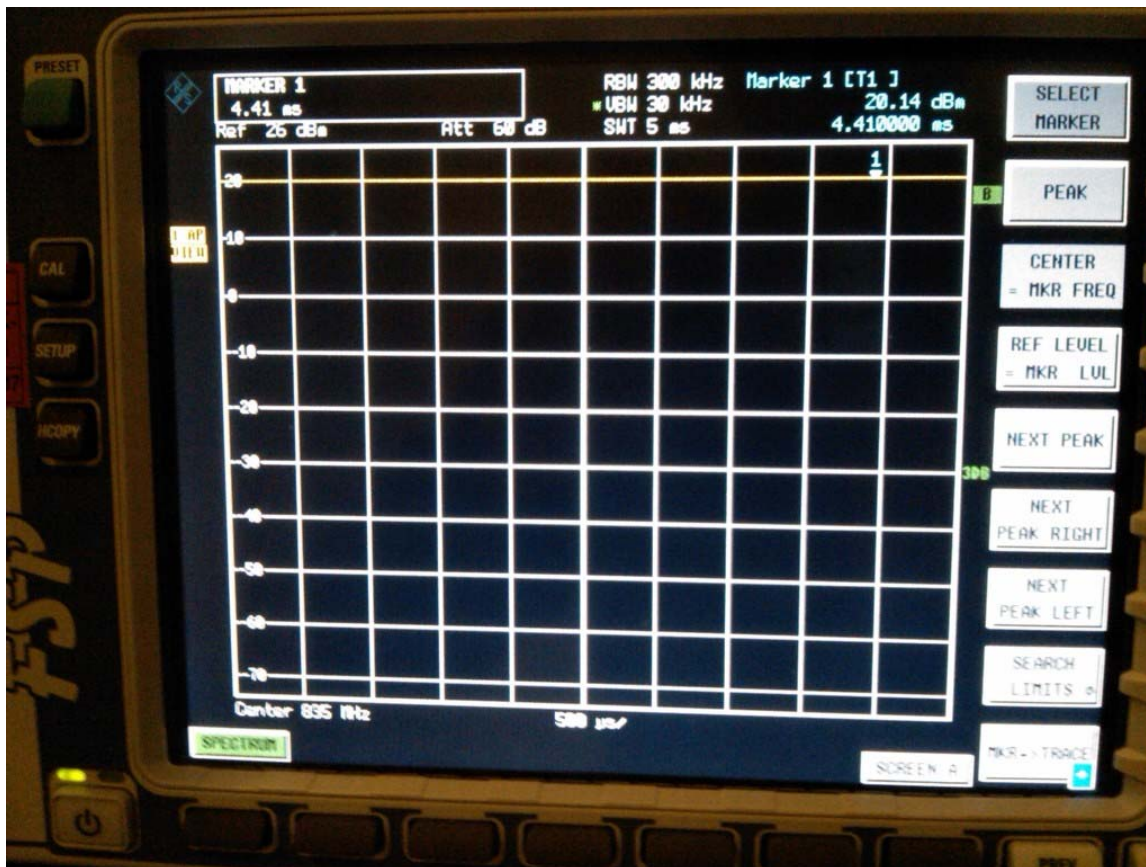
## Annex A: Measurement data and plots

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



GSM 835 MHz

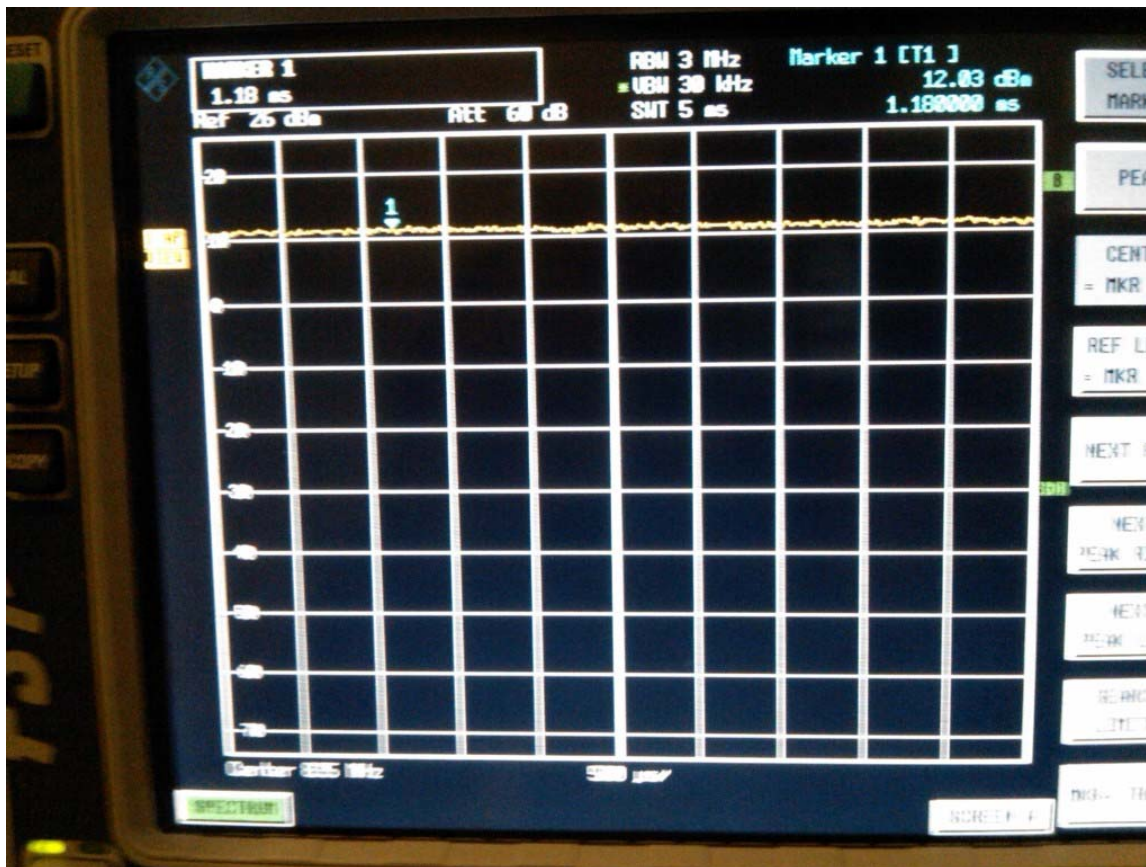
	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>2 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>



CW 835 MHz



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>4 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>



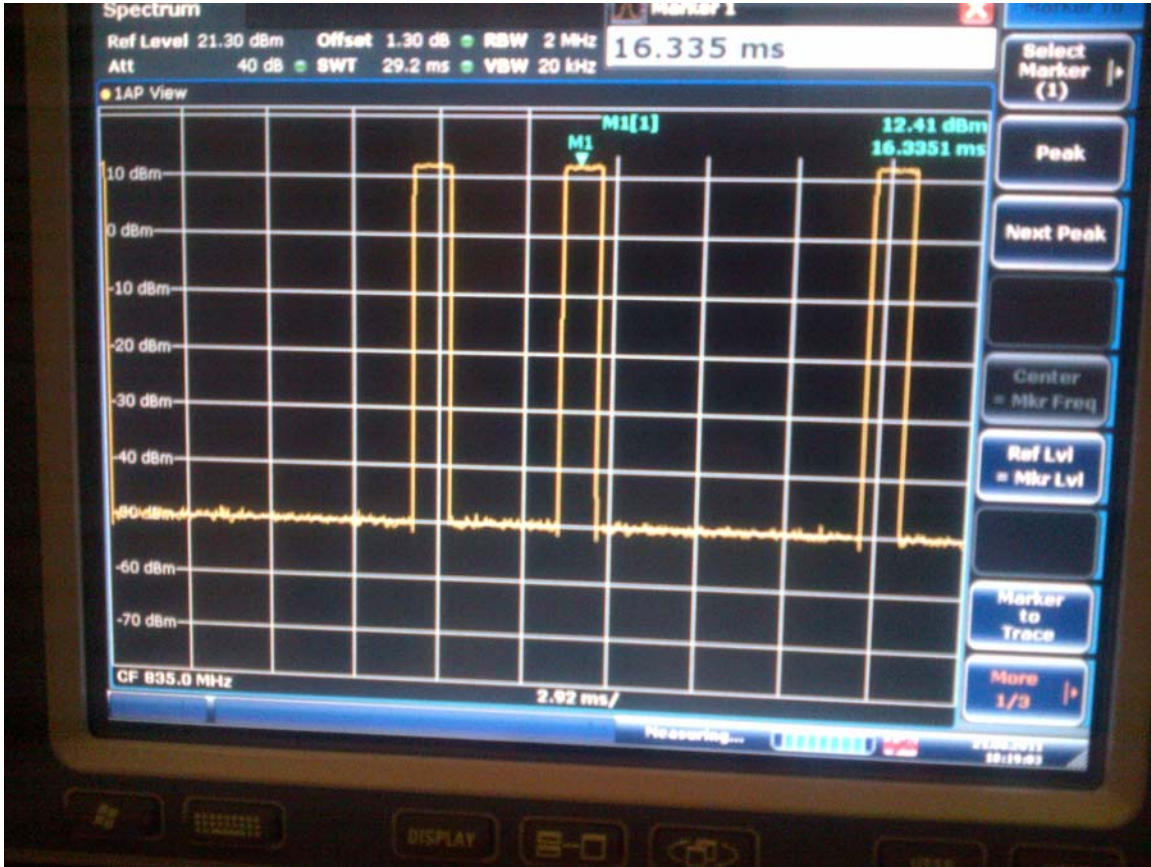
CDMA 835 MHz

Author Data  
**Daoud Attayi**

Dates of Test  
**Mar. 22-23, June 21-22, 2011**

Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**



**CDMA 835 MHz 1/8th**

Author Data  
**Daoud Attayi**

Dates of Test  
**Mar. 22-23, June 21-22, 2011**

Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**



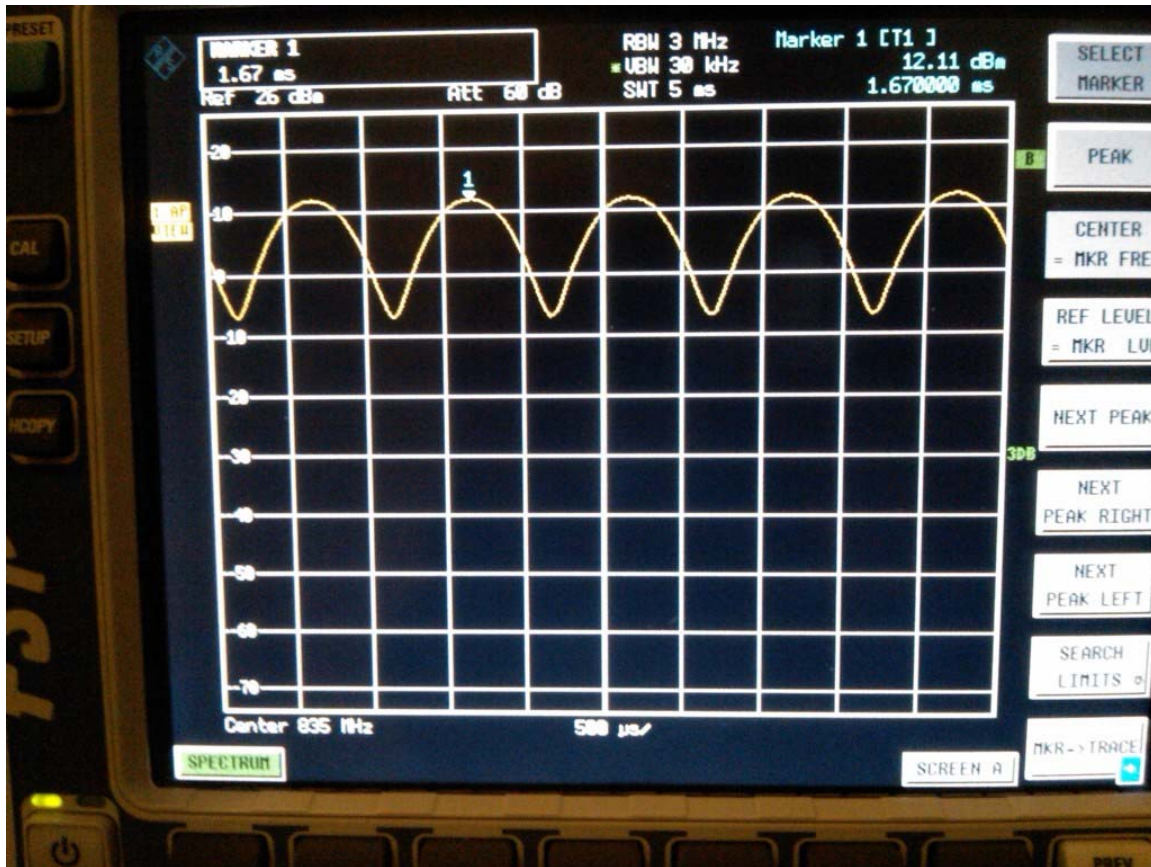
**CW 835 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Mar. 22-23, June 21-22, 2011**

Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**



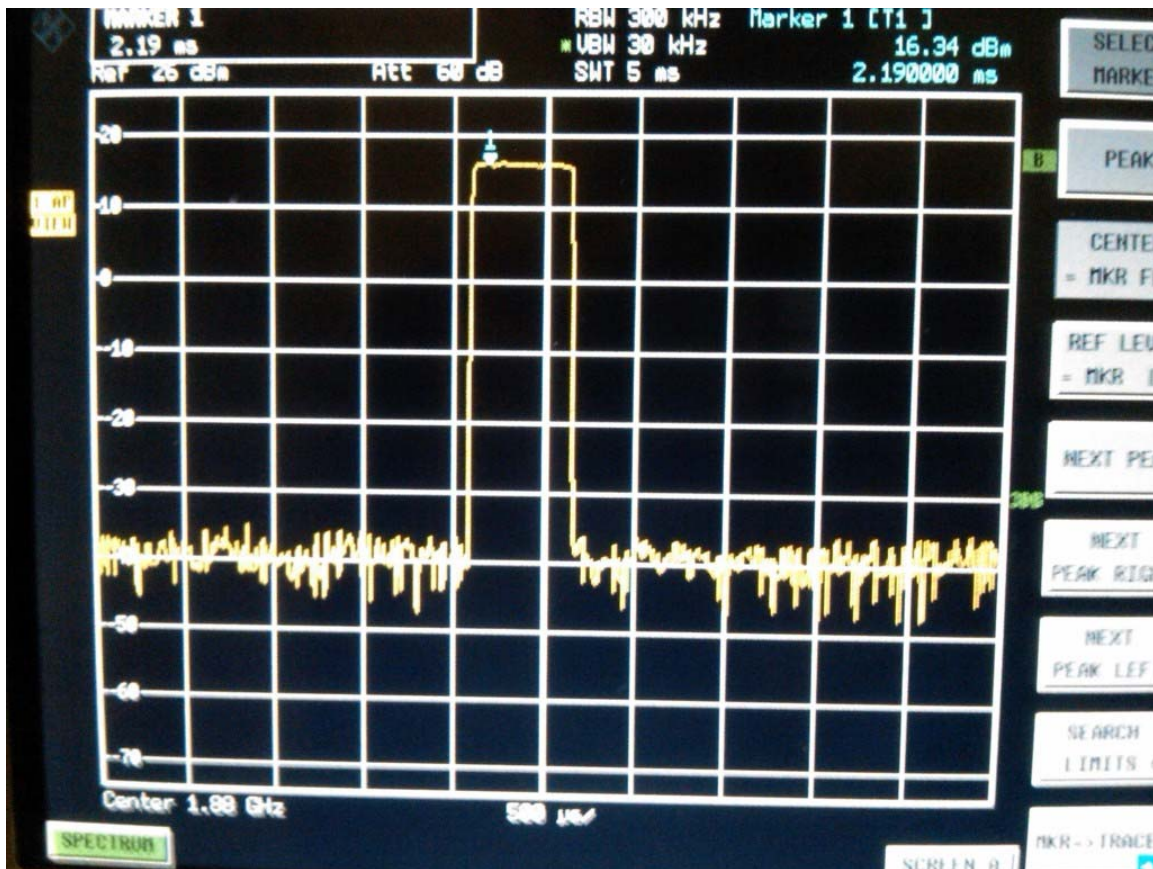
**AM 80% 835 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Mar. 22-23, June 21-22, 2011**

Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**



**GSM 1880 MHz**



Author Data  
**Daoud Attayi**

Dates of Test  
**Mar. 22-23, June 21-22, 2011**

Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**



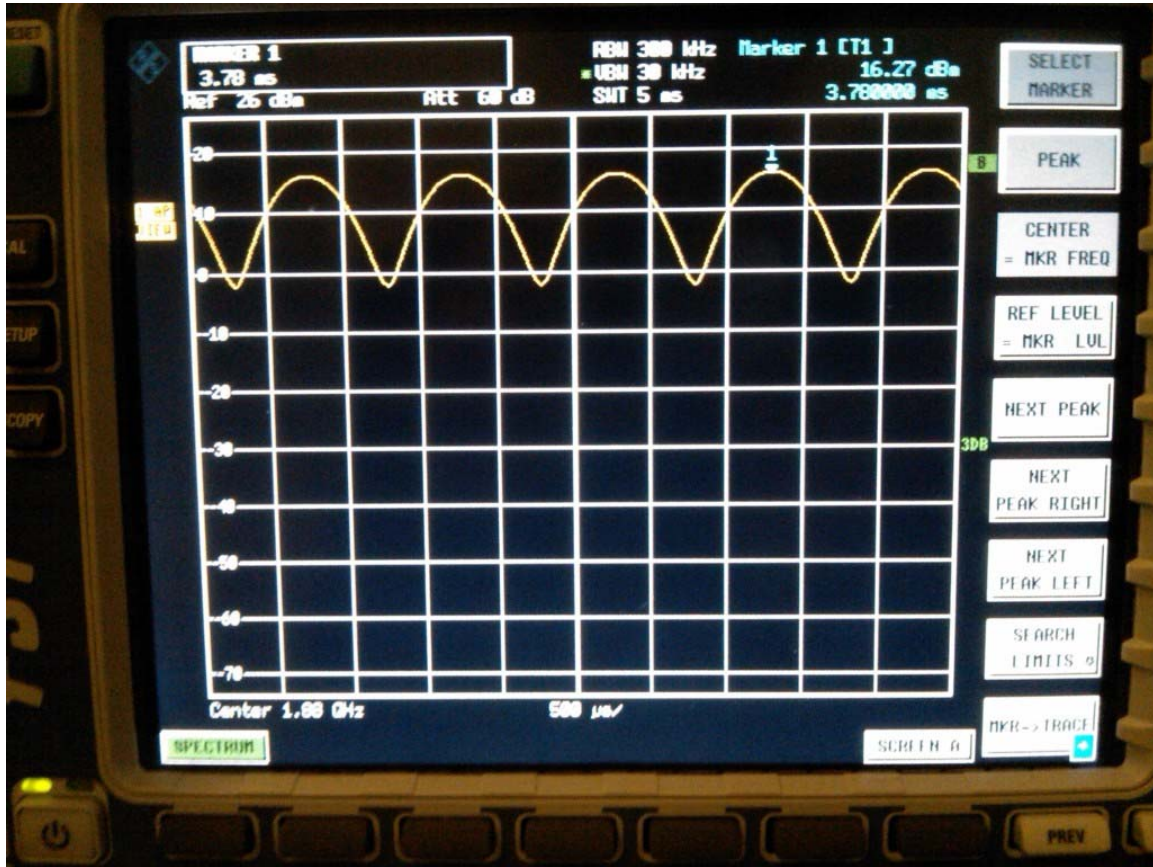
**CW 1880 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Mar. 22-23, June 21-22, 2011**

Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**



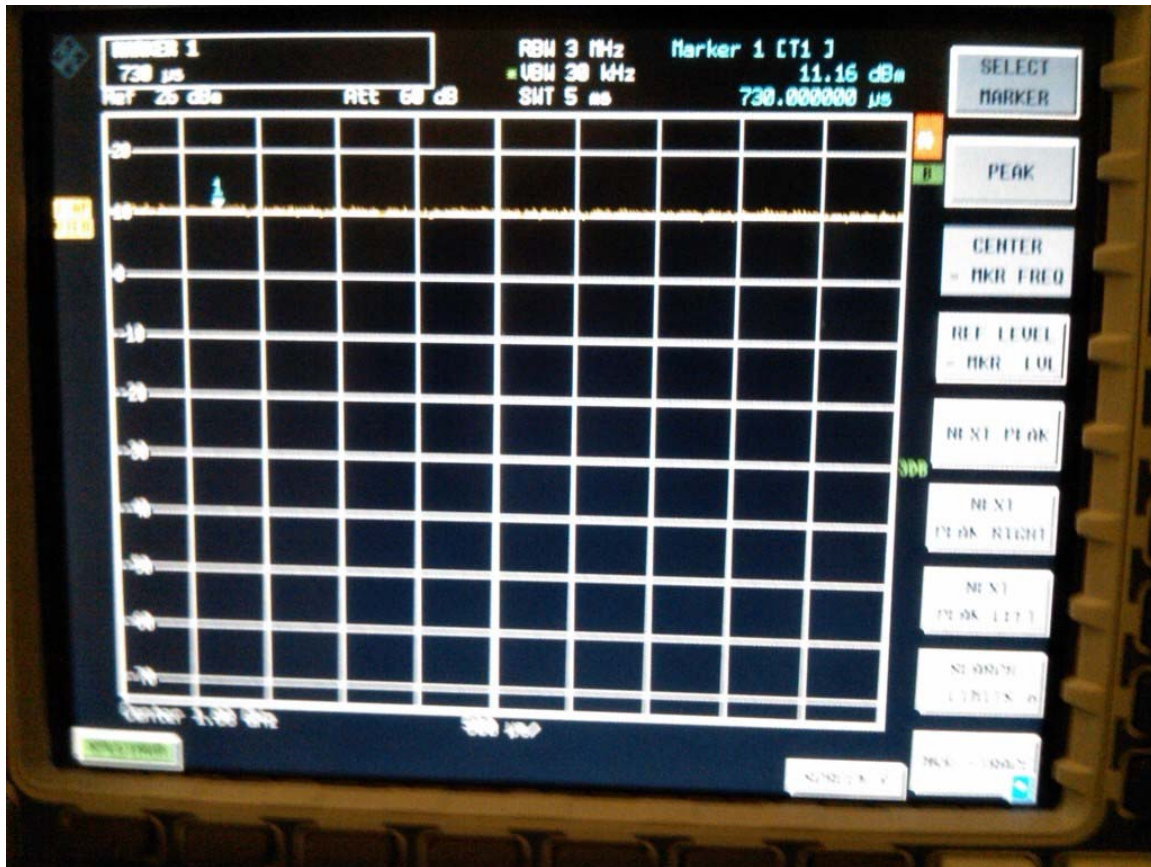
**AM 80 % 1880 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Mar. 22-23, June 21-22, 2011**

Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**



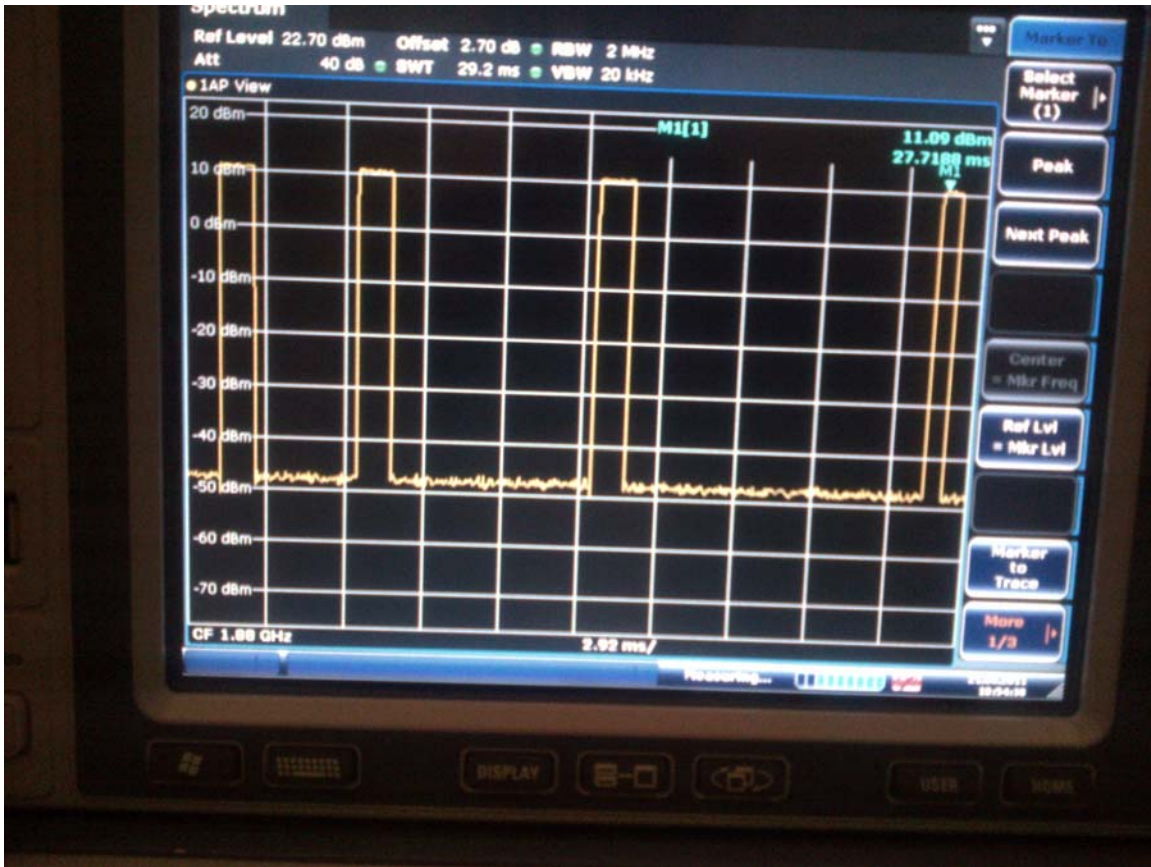
**CDMA 1880 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Mar. 22-23, June 21-22, 2011**

Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**



CDMA 1880 MHz 1/8 th

Author Data  
**Daoud Attayi**

Dates of Test  
**Mar. 22-23, June 21-22, 2011**

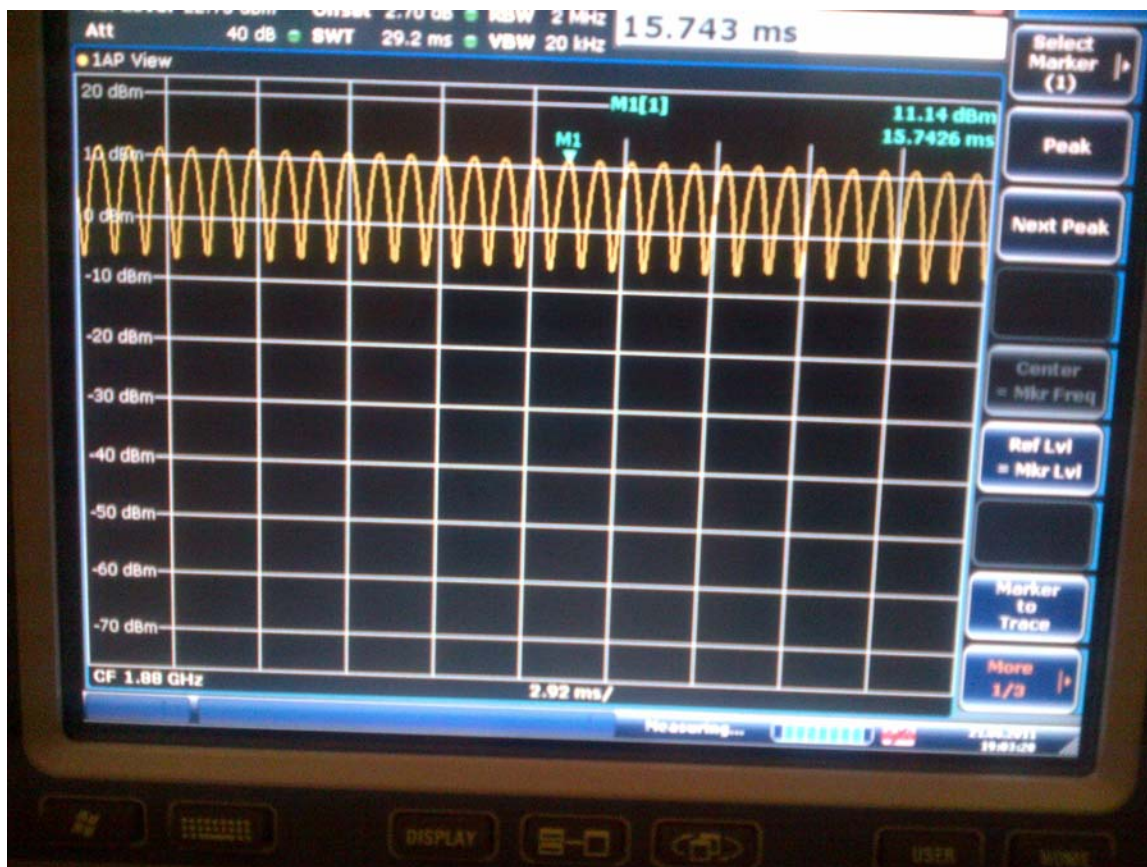
Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**




**CW 1880 MHz**


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>14 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>



AM 80 % 1880 MHz

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>15 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

## A.2 Dipole validation and probe modulation factor plots

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		16 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_validation\_PMF\_835 MHz

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

Communication System: CW, Communication System: CDMA 850,  
Communication System: CDMA 800; Communication System Band: D835 (835.0 MHz), Communication System Band: CDMA 2000 Cellular, Communication System Band: CDMA 2000 BC 10 ; Frequency: 835 MHz, Frequency: 820.5 MHz; Communication System PAR: 0, Communication System PAR: 9.19 dB  
Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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


DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Dipole E-Field measurement/E Scan \_CW\_20dB\_Validation - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm**

Maximum value of peak Total field = 157.1 V/m



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>17 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

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

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

Peak E-field in V/m

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		18 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/22/2011 2:40:53 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_PMF\_GSM\_835 MHz

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

Communication System: GSM 850; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 835

MHz;Communication System PAR: 9.191 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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


Maximum value of peak Total field = 54.142 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

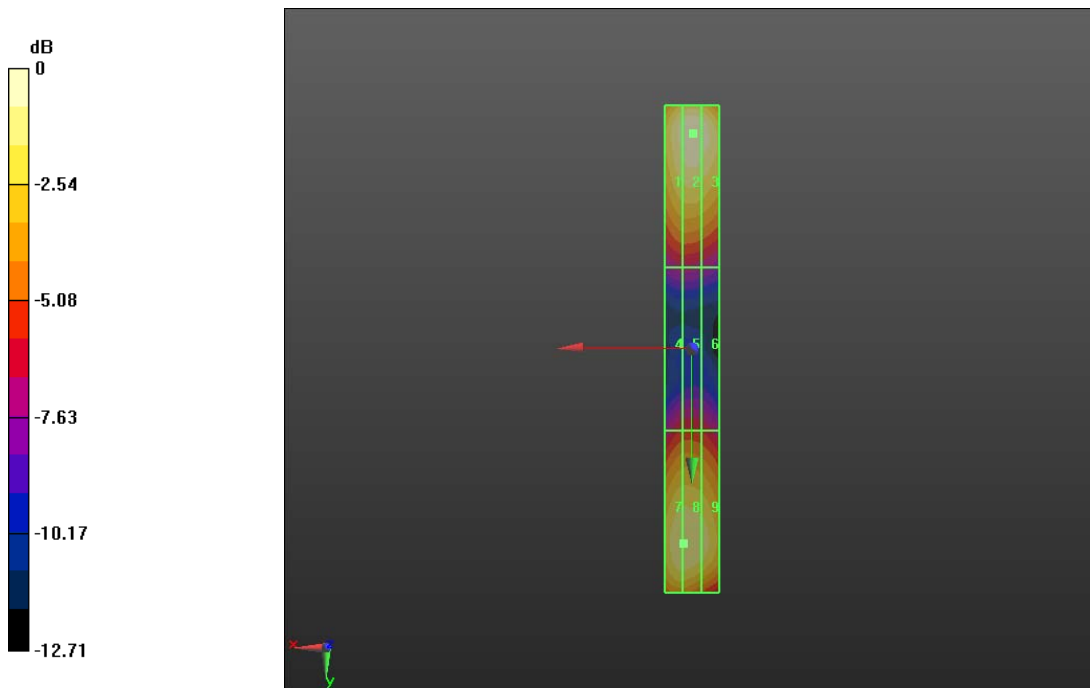
Reference Value = 38.642 V/m; Power Drift = -0.06 dB

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


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>19 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

Peak E-field in V/m

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



0 dB = 54.140V/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>20 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_PMF\_CW835 MHz\_GSM

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

Communication System: CW; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of peak Total field = 159.3 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

Peak E-field in V/m

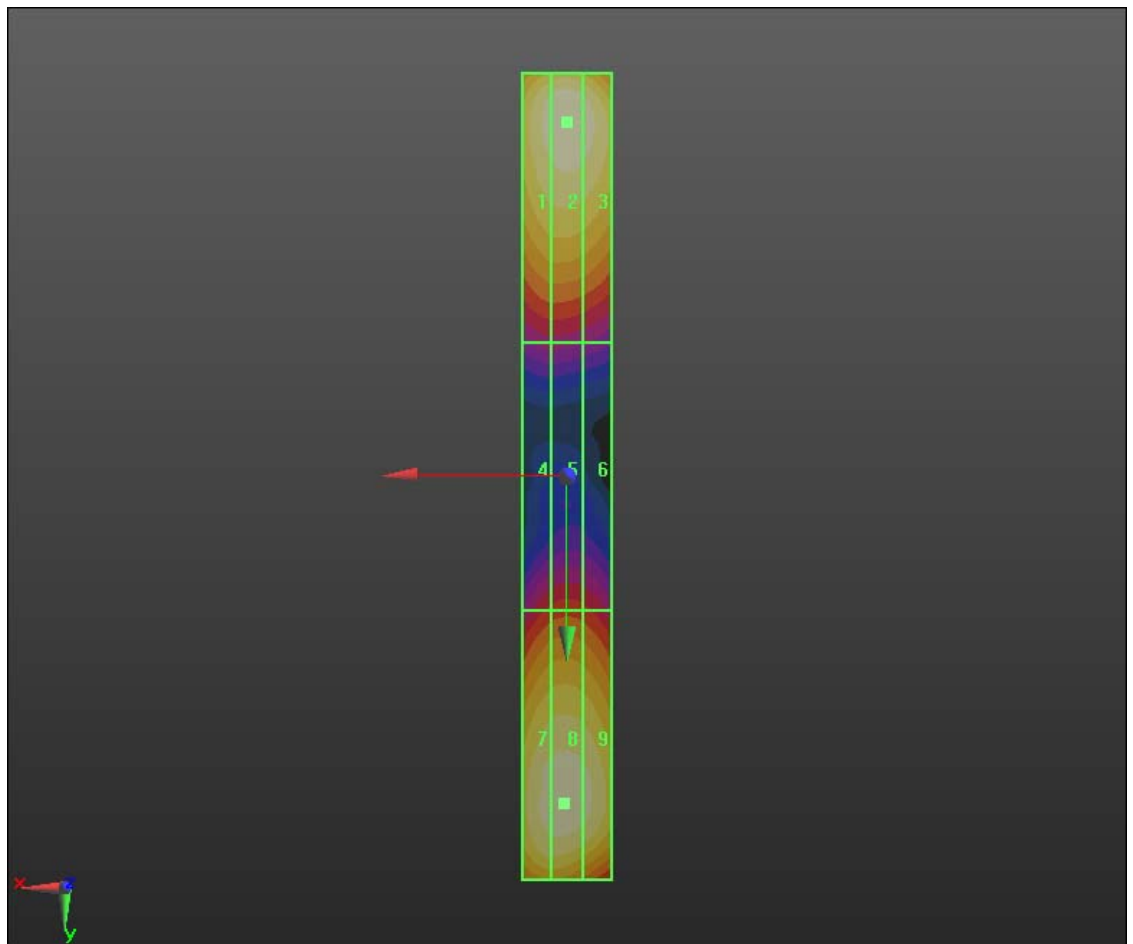
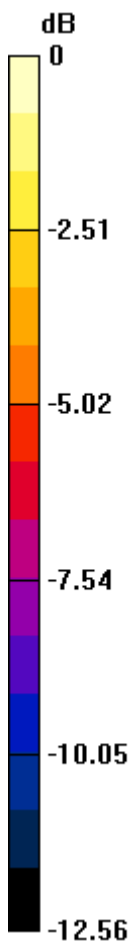
Author Data  
**Daoud Attayi**

Dates of Test  
**Mar. 22-23, June 21-22, 2011**


Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**

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



0 dB = 159.3V/m

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

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

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_PMF\_AM80%835 MHz\_GSM

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

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

MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of peak Total field = 99.820 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

Peak E-field in V/m

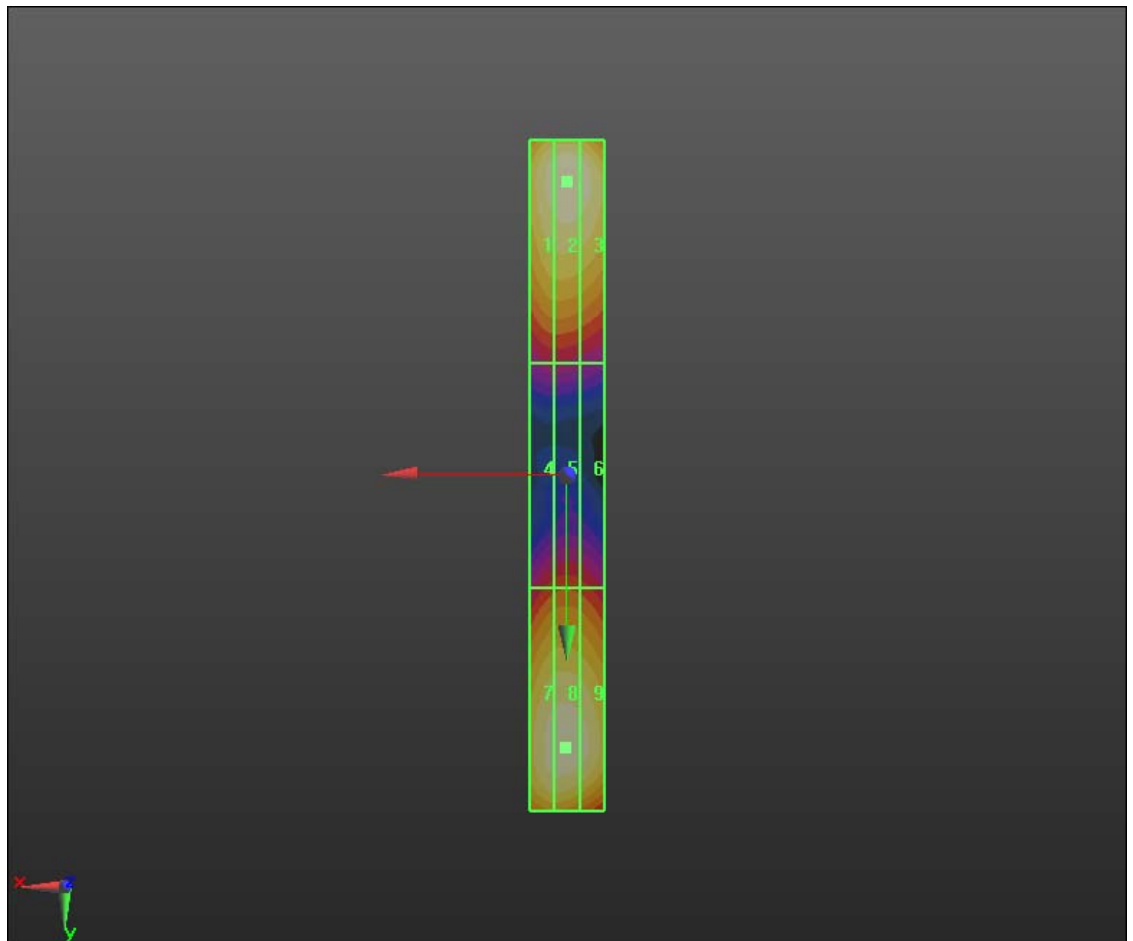
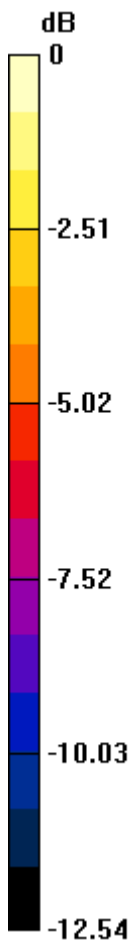
Author Data  
**Daoud Attayi**

Dates of Test  
**Mar. 22-23, June 21-22, 2011**


Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**

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



0 dB = 99.820V/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>24 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/22/2011 2:51:34 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_PMF\_CDMA\_835 MHz

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

Communication System: CDMA 800; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of peak Total field = 63.653 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

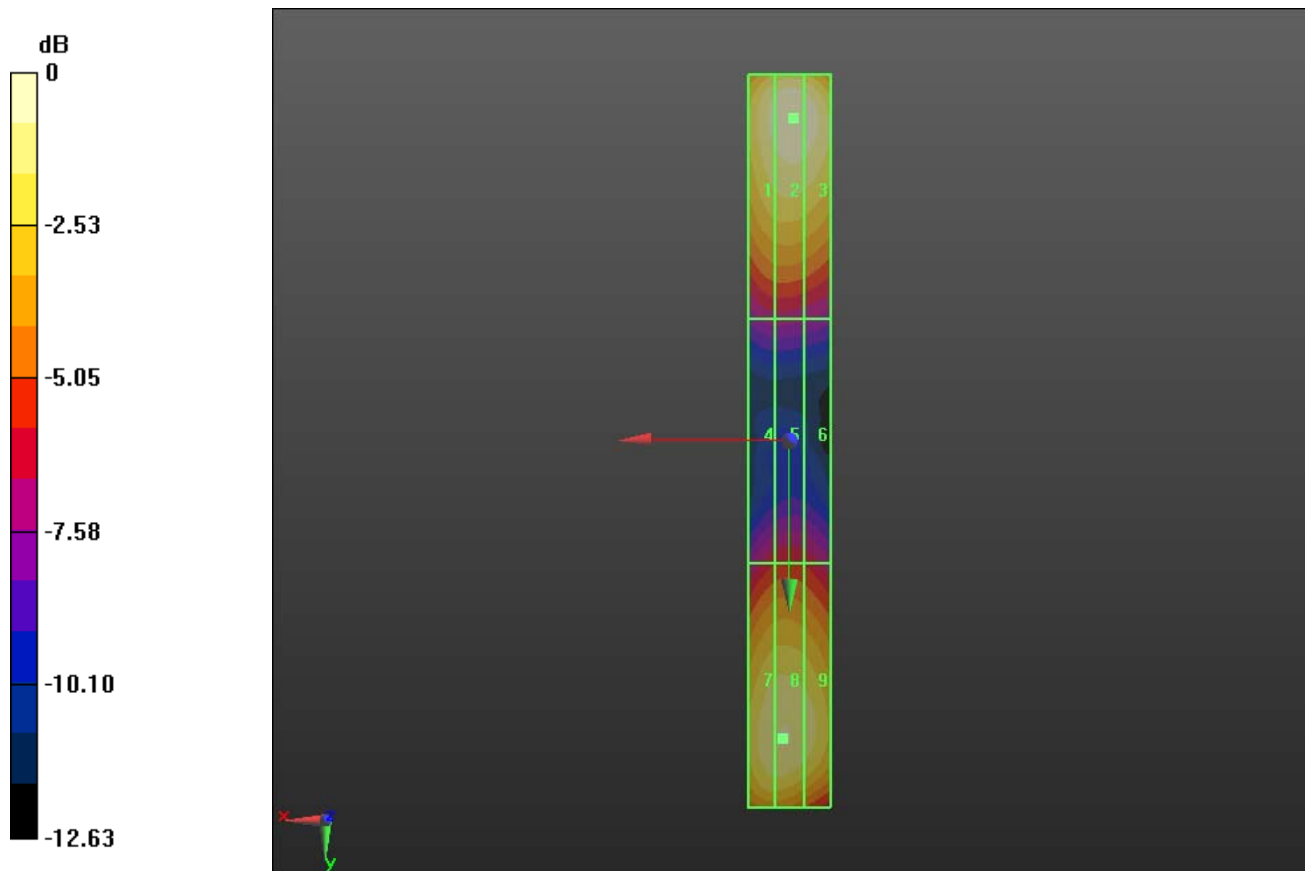
Reference Value = 45.492 V/m; Power Drift = 0.04 dB

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




Peak E-field in V/m

Grid 1 <b>60.457</b> M4	Grid 2 <b>63.653</b> M4	Grid 3 <b>62.702</b> M4
Grid 4 <b>32.119</b> M4	Grid 5 <b>32.806</b> M4	Grid 6 <b>32.009</b> M4
Grid 7 <b>57.694</b> M4	Grid 8 <b>58.081</b> M4	Grid 9 <b>56.094</b> M4



0 dB = 63.650V/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		26 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

**Dipole E-Field measurement/E Scan \_CW\_CDMA835\_PMF - measurement distance from the probe sensor center to CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x361x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 60.020 V/m  
Probe Modulation Factor = 1.000  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 45.311 V/m; Power Drift = -0.13 dB

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


Peak E-field in V/m

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

**Dipole E-Field measurement/E Scan \_AM80%\_CDMA835\_PMF - measurement distance from the probe sensor center to CD835 Dipole = 10mm 2 2/Hearing Aid Compatibility Test (41x361x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 37.844 V/m  
Probe Modulation Factor = 1.000  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 28.705 V/m; Power Drift = -0.04 dB

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		27 (111)
Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>	FCC ID <b>L6ARDR60CW</b>

Peak E-field in V/m

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

**Dipole E-Field measurement/E Scan\_CDMA835\_1\_8th\_PMF - measurement distance from the probe sensor center to CD835 Dipole = 10mm 2 2 2/Hearing Aid Compatibility Test**

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

Maximum value of peak Total field = 23.083 V/m

Probe Modulation Factor = 1.000

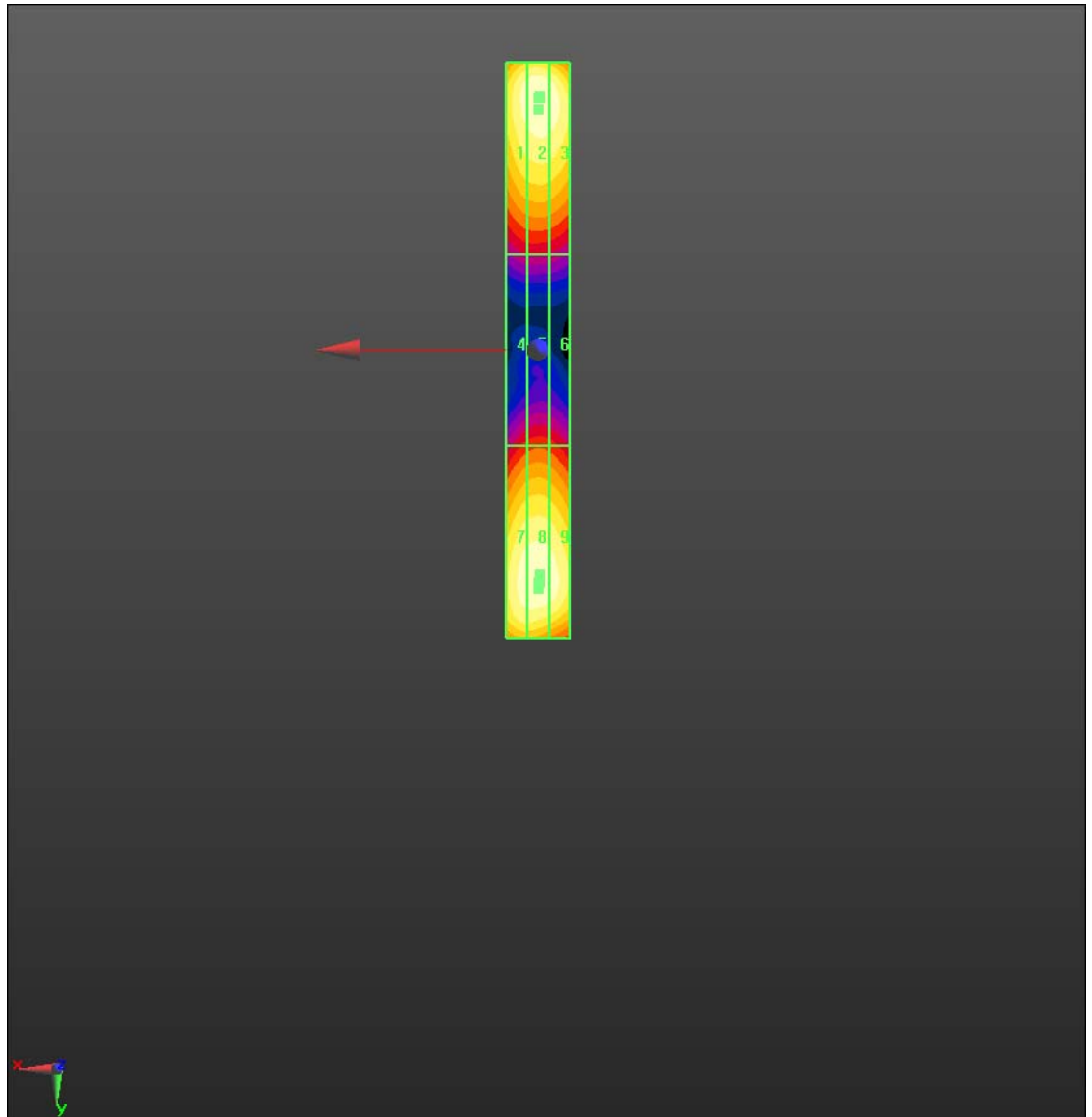
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.053 V/m; Power Drift = 0.10 dB


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

Peak E-field in V/m

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



0 dB = 157.1V/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>29 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_validation\_PMF\_1880 MHz

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

Communication System: CW, Communication System: CDMA 1900;

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

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

Communication System PAR: 9.19 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Dipole E-Field measurement/E Scan - 1880\_validation\_measurement**

**distance from the probe sensor center to CD1880 Dipole =**


**10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:**

dx=5mm, dy=5mm

Maximum value of peak Total field = 133.7 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>30 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

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

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

Peak E-field in V/m

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>31 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/22/2011 4:54:49 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_PMF\_GSM\_1880 MHz\_R2

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

Communication System: GSM 1900; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Communication System PAR: 9.191 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of peak Total field = 27.663 V/m

Probe Modulation Factor = 1.000

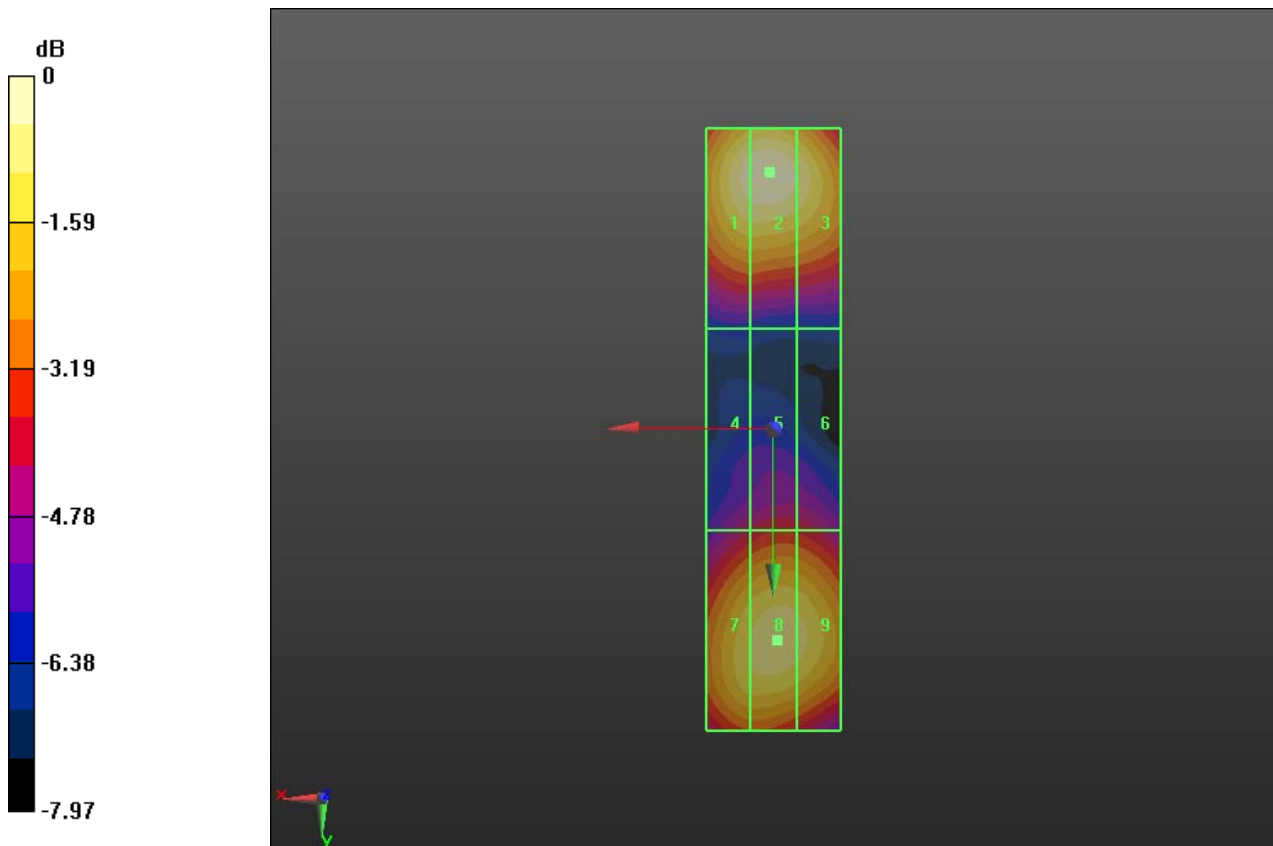
Device Reference Point: 0, 0, -6.3 mm

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

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


Peak E-field in V/m

Grid 1 <b>27.050</b> <b>M4</b>	Grid 2 <b>27.663</b> <b>M4</b>	Grid 3 <b>26.052</b> <b>M4</b>
Grid 4 <b>17.031</b> <b>M4</b>	Grid 5 <b>18.013</b> <b>M4</b>	Grid 6 <b>17.833</b> <b>M4</b>
Grid 7 <b>24.636</b> <b>M4</b>	Grid 8 <b>25.539</b> <b>M4</b>	Grid 9 <b>25.116</b> <b>M4</b>



0 dB = 27.660V/m



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>33 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

Date/Time: 3/23/2011 12:08:40 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_PMF\_CW1880 MHz\_GSM

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

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

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

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

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

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

Maximum value of peak Total field = 82.216 V/m

Probe Modulation Factor = 1.000

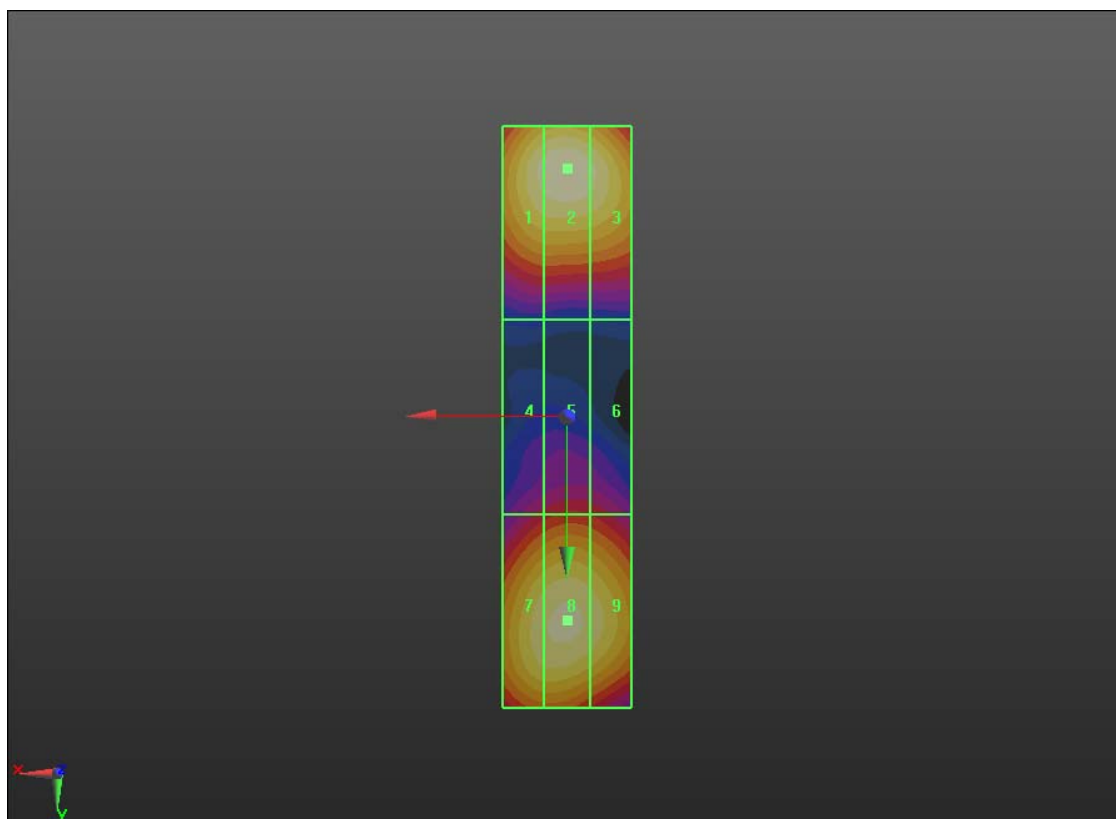
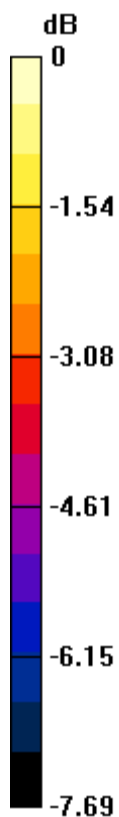
Device Reference Point: 0, 0, -6.3 mm

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


**Hearing Aid Near-Field Category: M3 (AWF 0 dB)**

Peak E-field in V/m

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



0 dB = 82.220V/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		35 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/22/2011 4:12:07 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_PMF\_AM80%1880 MHz\_GSM

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

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

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of peak Total field = 53.337 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

Peak E-field in V/m

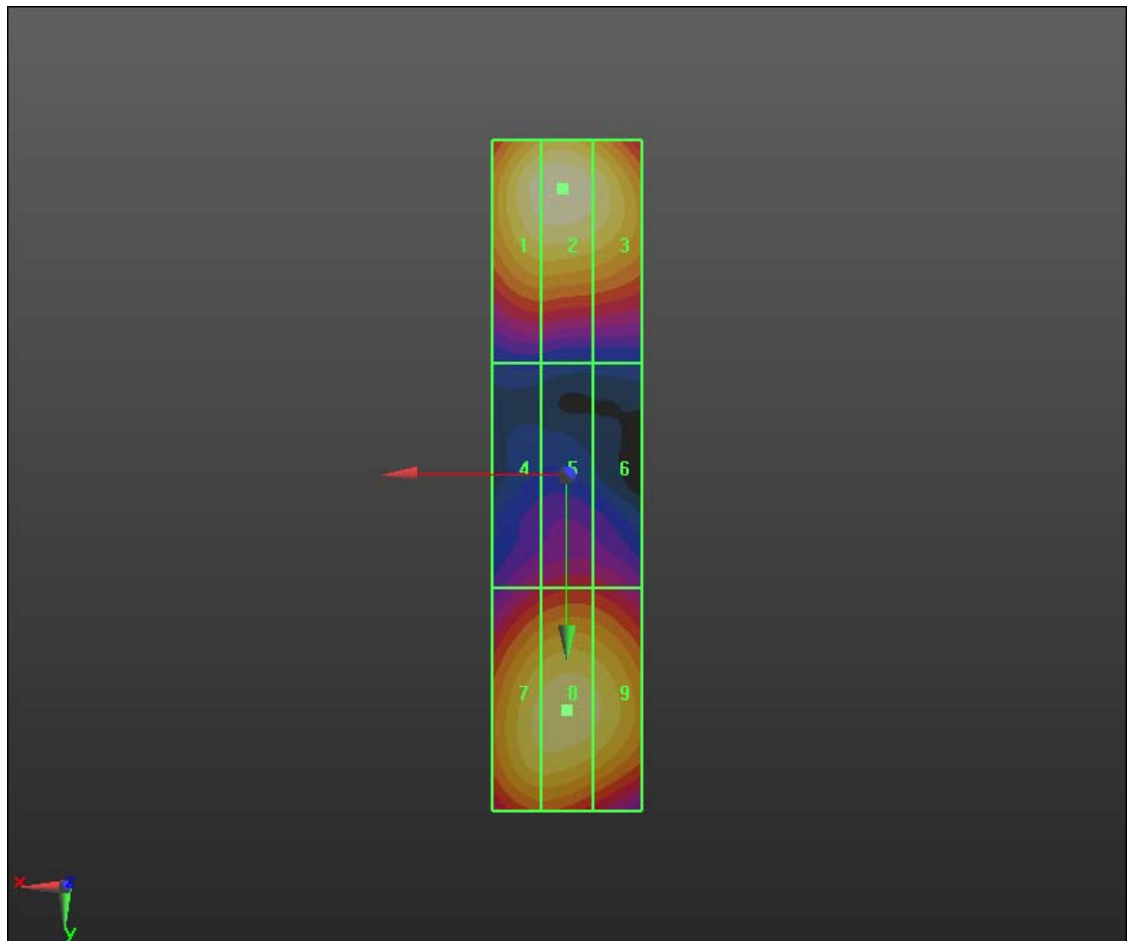
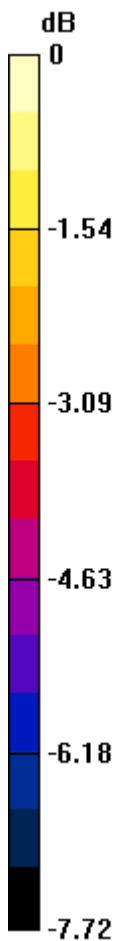
Author Data  
**Daoud Attayi**

Dates of Test  
**Mar. 22-23, June 21-22, 2011**


Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**

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



0 dB = 53.340V/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		37 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/22/2011 3:54:49 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_PMF\_CDMA\_1880 MHz

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

Communication System: WCDMA FDD II; Communication System Band:

Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Communication System PAR: 0 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of peak Total field = 43.150 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

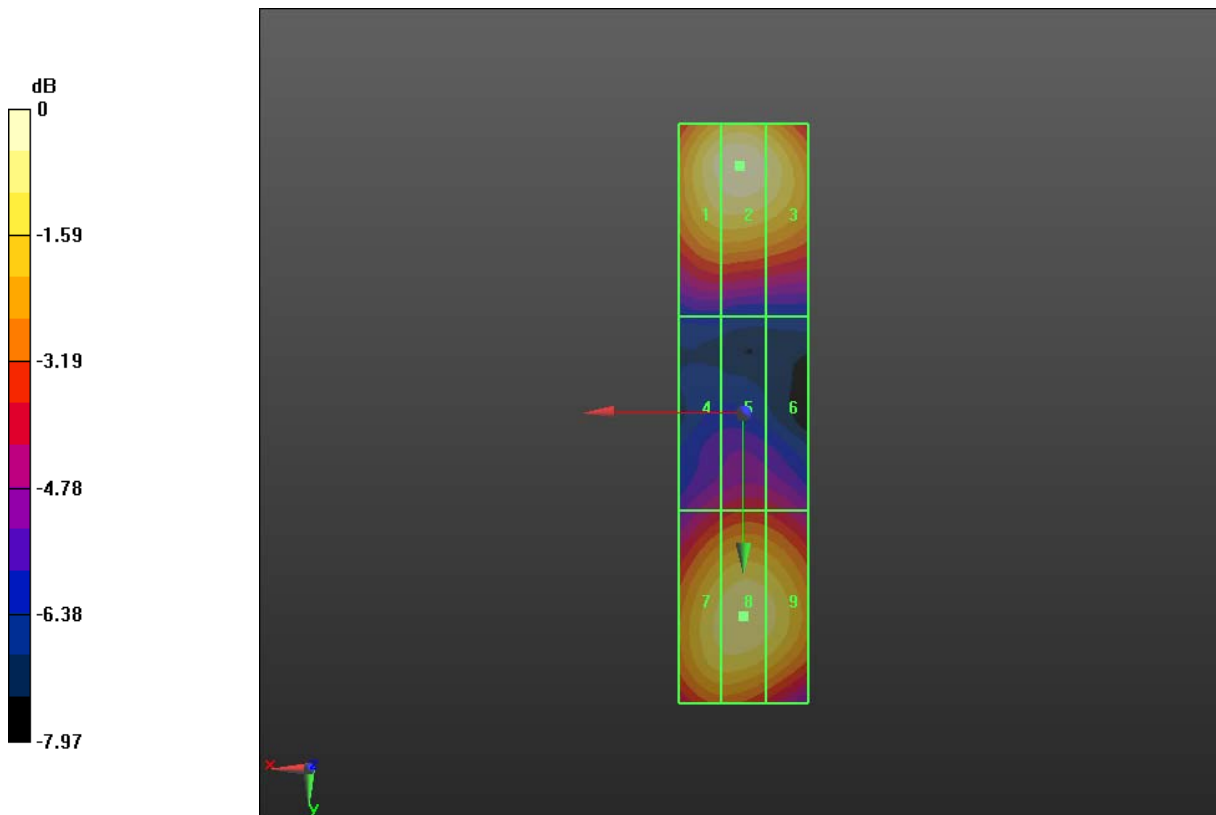
Reference Value = 40.108 V/m; Power Drift = -0.01 dB

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


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>38 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

Peak E-field in V/m

Grid 1 <b>41.912</b> <b>M4</b>	Grid 2 <b>43.150</b> <b>M4</b>	Grid 3 <b>40.971</b> <b>M4</b>
Grid 4 <b>26.905</b> <b>M4</b>	Grid 5 <b>28.223</b> <b>M4</b>	Grid 6 <b>27.711</b> <b>M4</b>
Grid 7 <b>39.111</b> <b>M4</b>	Grid 8 <b>40.205</b> <b>M4</b>	Grid 9 <b>39.292</b> <b>M4</b>



0 dB = 43.150V/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>39 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

**Dipole E-Field measurement/E Scan -**

**CW\_CDMA1900\_measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 36.285 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

Peak E-field in V/m

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

**Dipole E-Field measurement/E Scan - AM80%\_CDMA1900\_measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2**

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


Maximum value of peak Total field = 23.269 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 21.624 V/m; Power Drift = -0.02 dB

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>40 (111)</b>
Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>	FCC ID <b>L6ARDR60CW</b>

Peak E-field in V/m

Grid 1 <b>22.379</b> <b>M4</b>	Grid 2 <b>23.269</b> <b>M4</b>	Grid 3 <b>22.386</b> <b>M4</b>
Grid 4 <b>14.427</b> <b>M4</b>	Grid 5 <b>15.311</b> <b>M4</b>	Grid 6 <b>15.198</b> <b>M4</b>
Grid 7 <b>21.091</b> <b>M4</b>	Grid 8 <b>21.728</b> <b>M4</b>	Grid 9 <b>21.374</b> <b>M4</b>

**Dipole E-Field measurement/E Scan - CDMA1900\_1\_8th\_measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2 2/Hearing Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 14.129 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

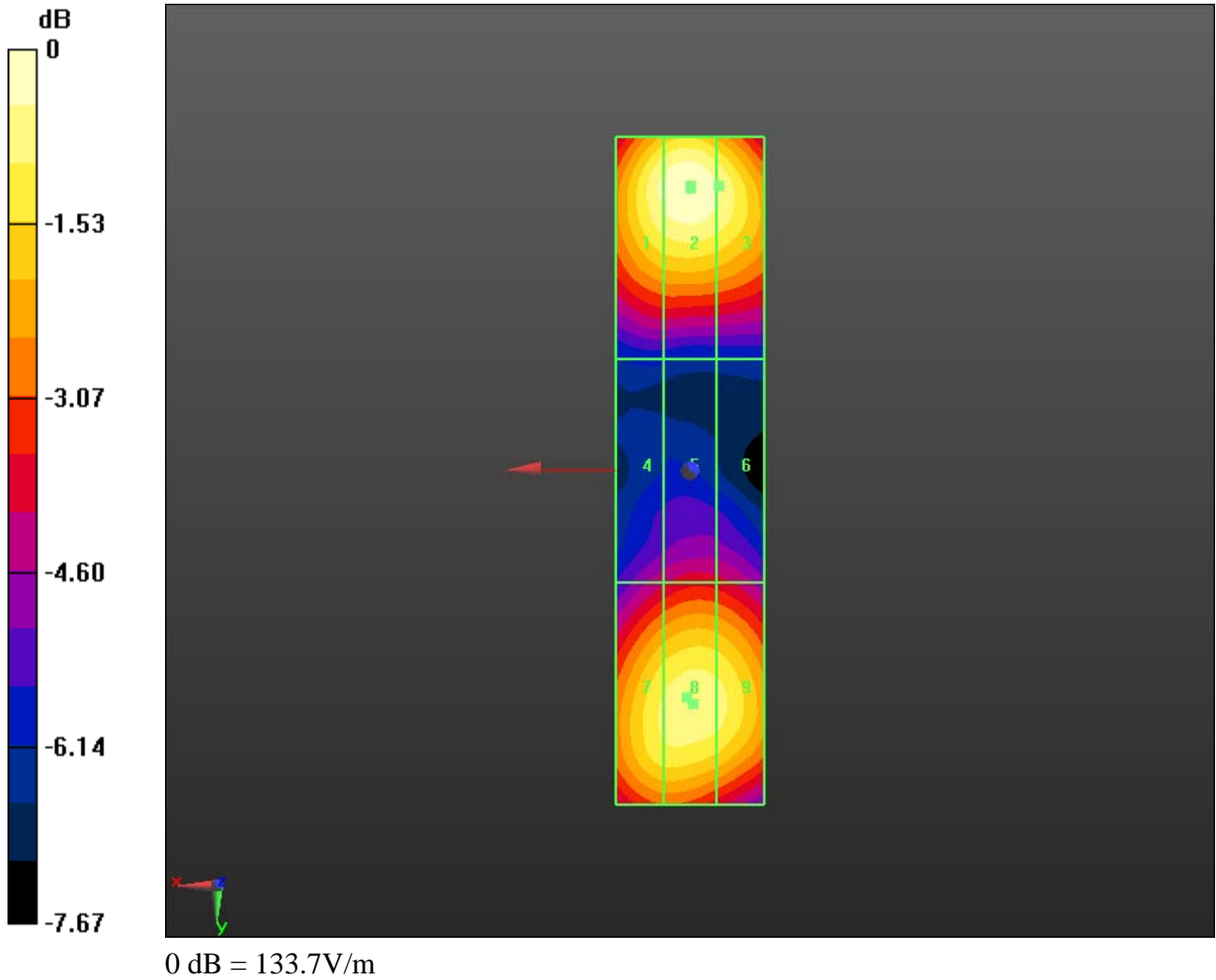
Reference Value = 13.323 V/m; Power Drift = -0.93 dB


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

Peak E-field in V/m

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





	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		42 (111)
Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>	FCC ID <b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_validation\_PMF\_835 MHz

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

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

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:


- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole =**

**10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:**

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.479 A/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>43 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

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

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

Peak H-field in A/m

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>44 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/23/2011 3:06:50 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_GSM\_835 MHz

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

Communication System: GSM 850; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 835

MHz;Communication System PAR: 9.191 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole =**


**10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:**

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.168 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

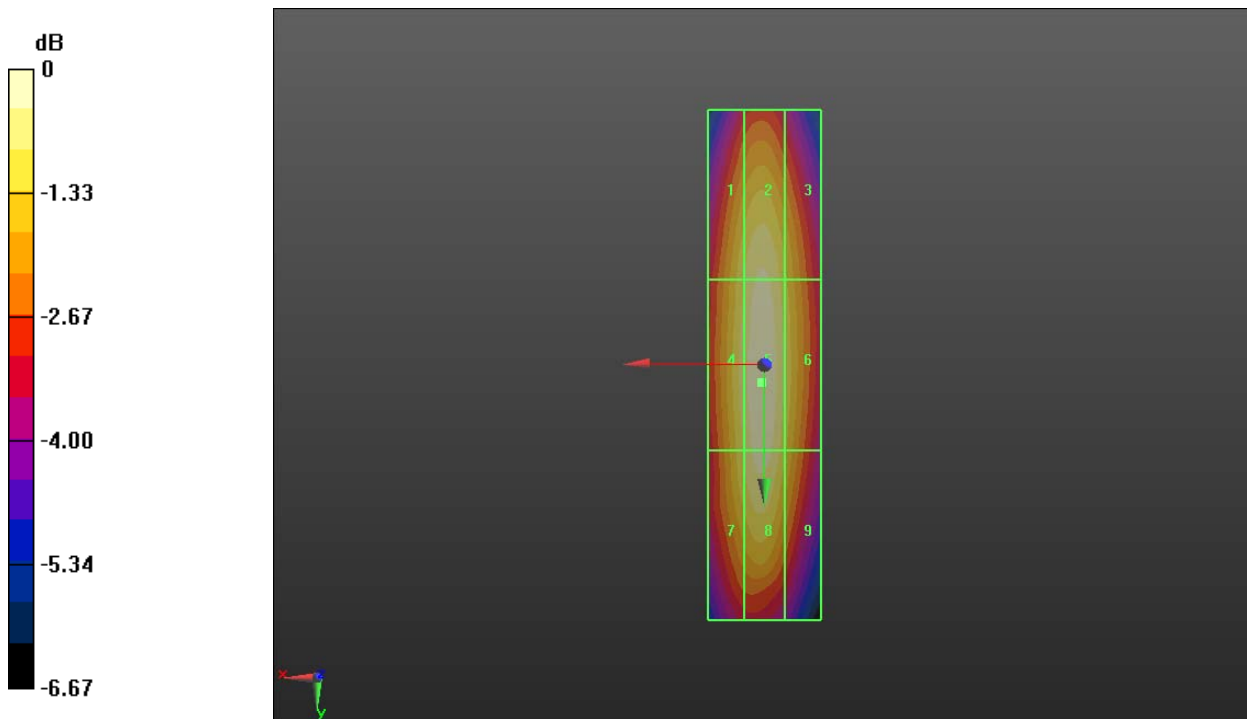
	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>45 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

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


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

Peak H-field in A/m

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



0 dB = 0.170A/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>46 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/23/2011 3:23:34 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_CW835 MHz\_GSM

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

Communication System: CW; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

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

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

**distance from the probe sensor center to CD835 Dipole =**

**10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:**

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.482 A/m

Probe Modulation Factor = 1.000

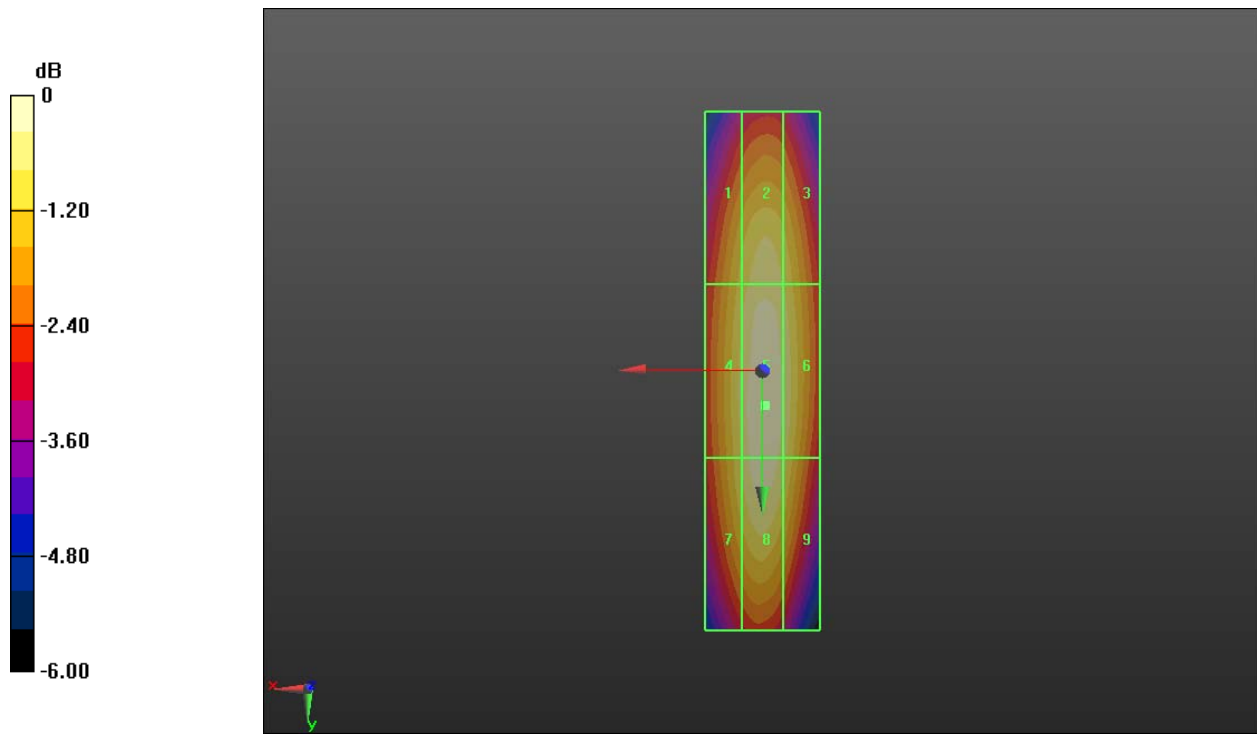
Device Reference Point: 0, 0, -6.3 mm

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


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

Peak H-field in A/m

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



0 dB = 0.480A/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>48 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/23/2011 3:34:08 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_AM80%835 MHz\_GSM

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

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

MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

**distance from the probe sensor center to CD835 Dipole =**

**10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:**

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.302 A/m


Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

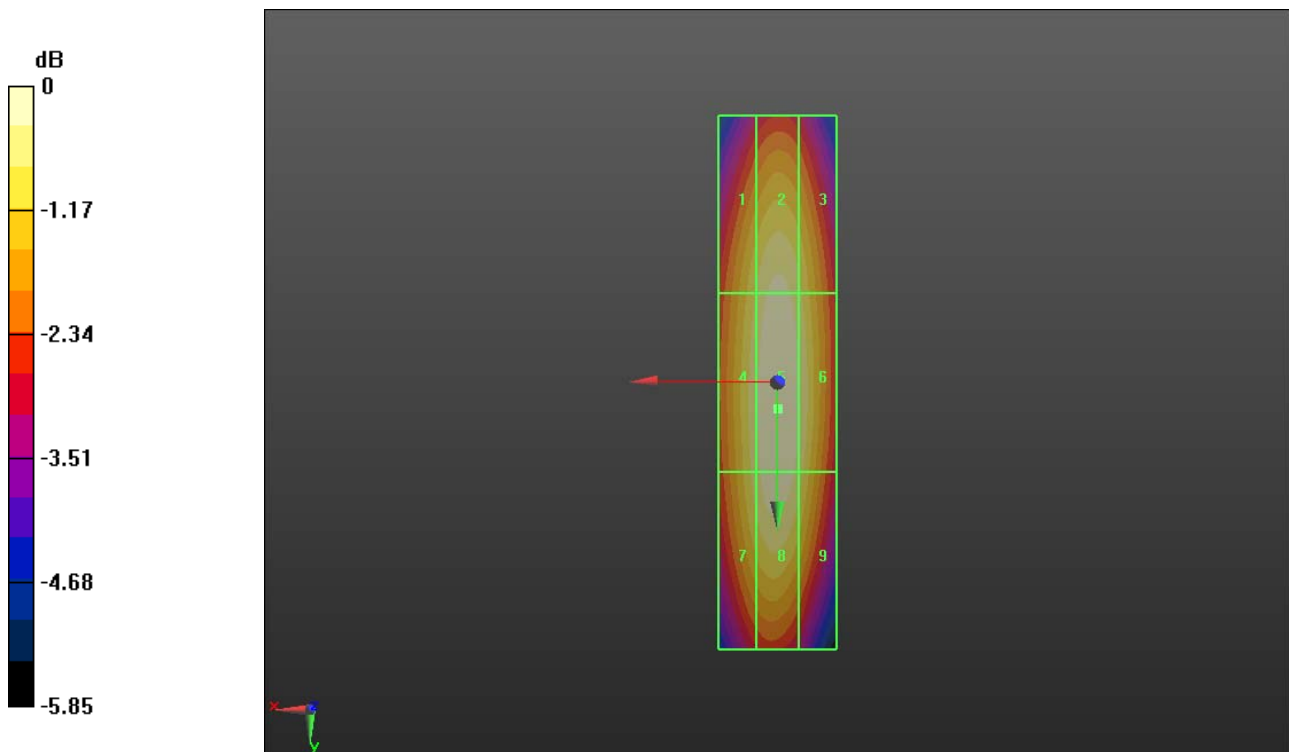
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**




	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>49 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

Peak H-field in A/m

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



0 dB = 0.300A/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		50 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/23/2011 3:11:51 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_CDMA\_835 MHz

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

Communication System: CDMA 800; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole =**


**10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:**

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.183 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

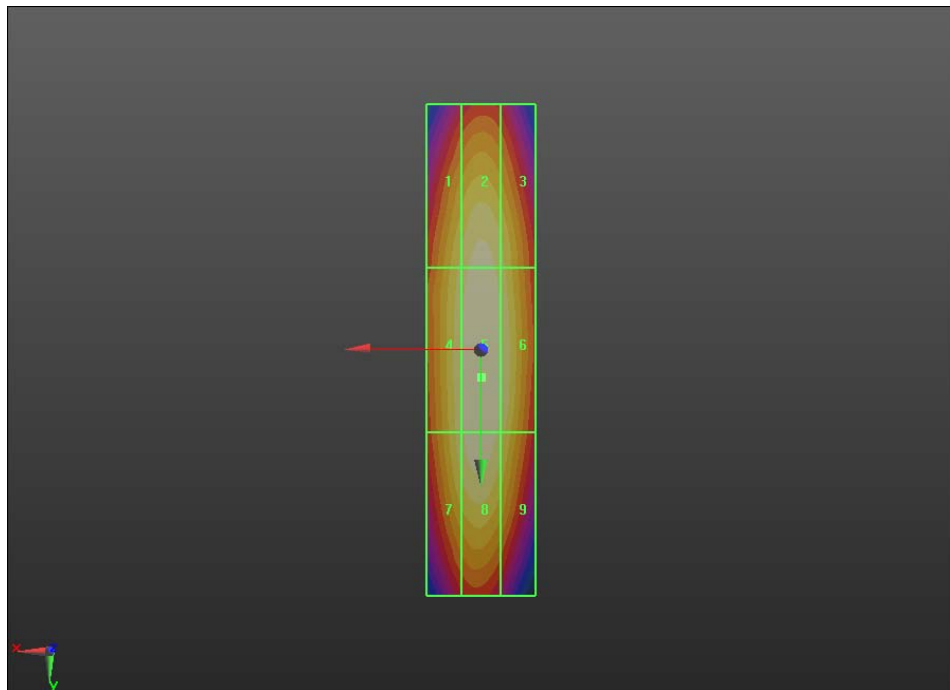
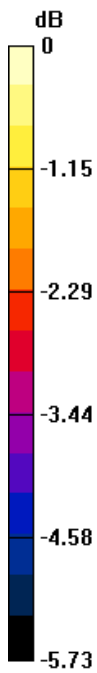
	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>51 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

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


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

Peak H-field in A/m

Grid 1 <b>0.168</b> <b>M4</b>	Grid 2 <b>0.176</b> <b>M4</b>	Grid 3 <b>0.169</b> <b>M4</b>
Grid 4 <b>0.173</b> <b>M4</b>	Grid 5 <b>0.183</b> <b>M4</b>	Grid 6 <b>0.175</b> <b>M4</b>
Grid 7 <b>0.171</b> <b>M4</b>	Grid 8 <b>0.180</b> <b>M4</b>	Grid 9 <b>0.169</b> <b>M4</b>



0 dB = 0.180A/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		52 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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


Test Laboratory: RIM Testing Services

**Dipole H-Field measurement with H3DV6 probe/H Scan - CDMA835\_1\_8th\_measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.064 A/m  
Probe Modulation Factor = 1.000  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.067 A/m; Power Drift = -0.08 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

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

**Dipole H-Field measurement with H3DV6 probe/H Scan - CW\_CDMA835\_measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.177 A/m  
Probe Modulation Factor = 1.000  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.191 A/m; Power Drift = 0.0078 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		53 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Peak H-field in A/m

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

**Dipole H-Field measurement with H3DV6 probe/H Scan - AM80%\_CDMA835\_ measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):**

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

Maximum value of peak Total field = 0.114 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

Peak H-field in A/m

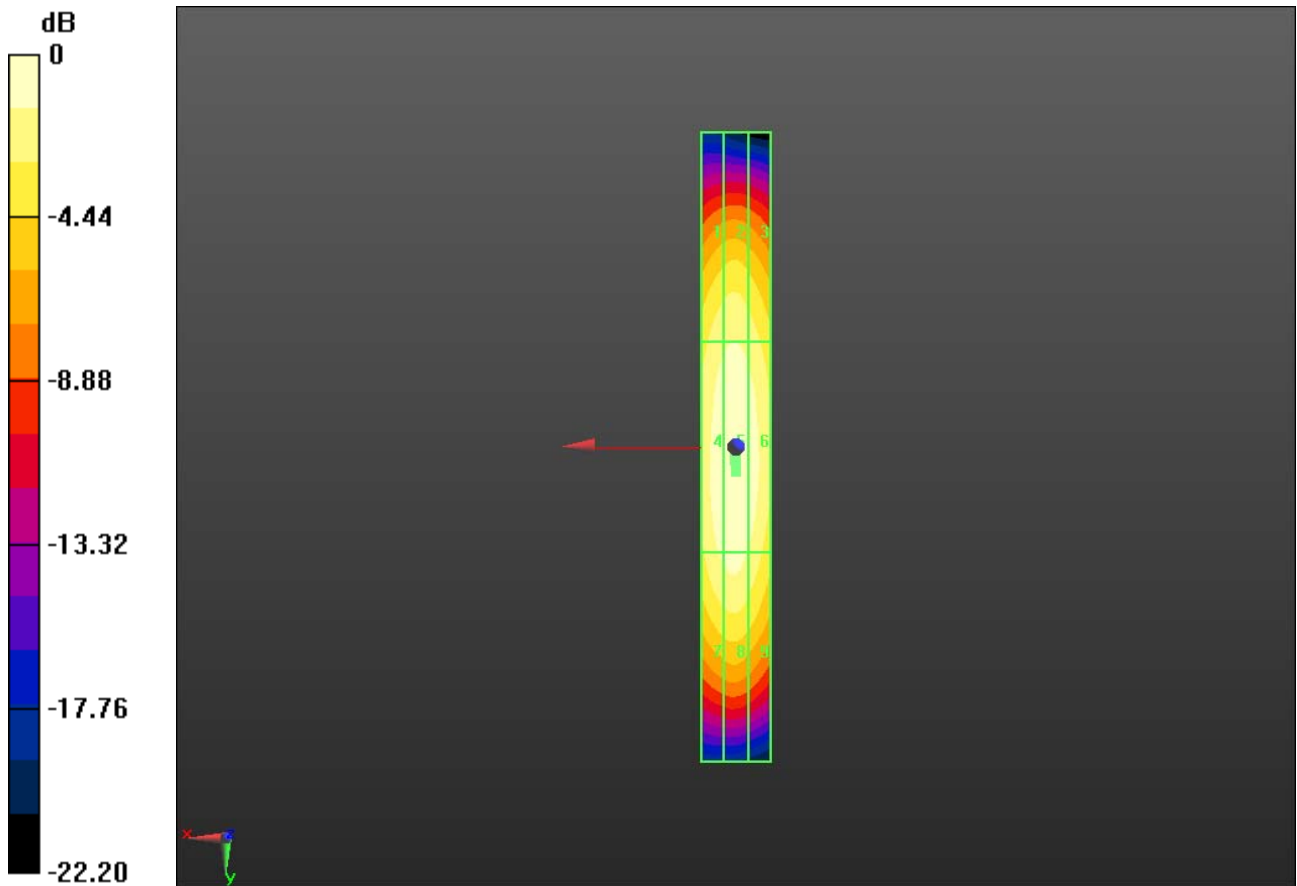
Grid 1 <b>0.093</b> <b>M4</b>	Grid 2 <b>0.097</b> <b>M4</b>	Grid 3 <b>0.092</b> <b>M4</b>
Grid 4 <b>0.109</b> <b>M4</b>	Grid 5 <b>0.114</b> <b>M4</b>	Grid 6 <b>0.108</b> <b>M4</b>
Grid 7 <b>0.100</b> <b>M4</b>	Grid 8 <b>0.103</b> <b>M4</b>	Grid 9 <b>0.095</b> <b>M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Mar. 22-23, June 21-22, 2011**

Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**



0 dB = 0.480A/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		55 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_validation\_PMF\_1880 MHz

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

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

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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


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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.466 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>56 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>


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

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

Peak H-field in A/m

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



	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		57 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/23/2011 1:03:25 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_GSM\_1880 MHz

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

Communication System: GSM 1900; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Communication System PAR: 9.191 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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


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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.099 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

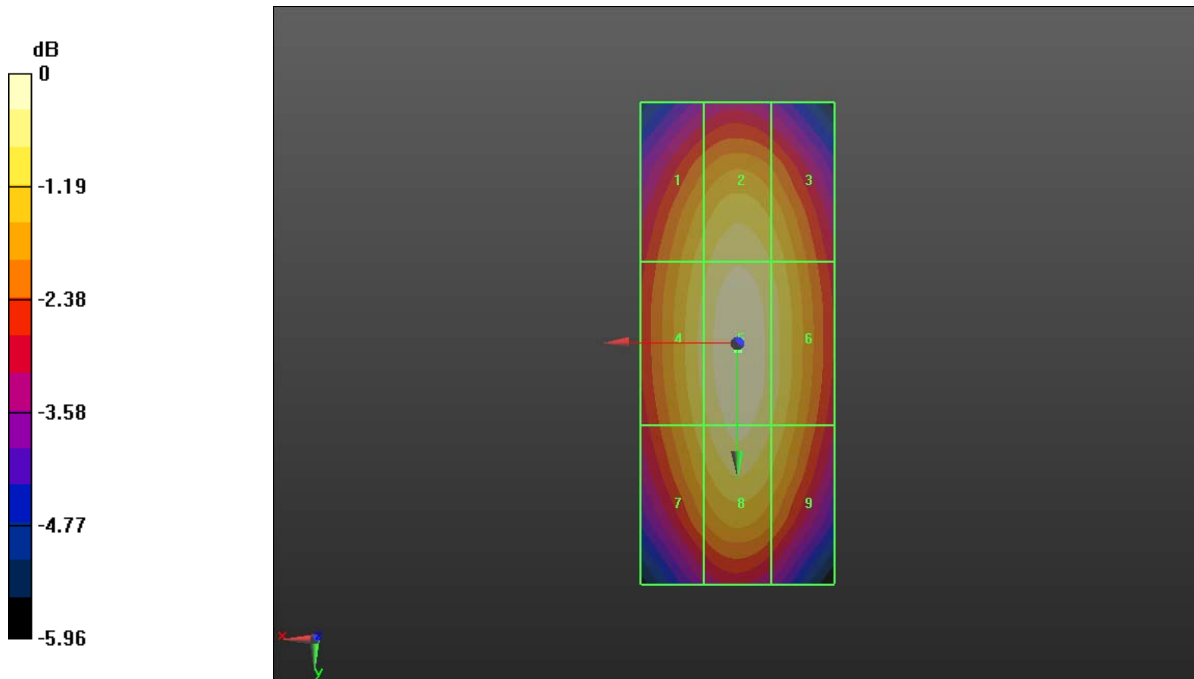
	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>58 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

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


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

Peak H-field in A/m

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



0 dB = 0.100A/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>59 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/23/2011 12:41:56 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_CW1880 MHz\_GSM

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

Communication System: CW; Communication System Band: D1900 (1900.0

MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

**distance from the probe sensor center to CD1880 Dipole =**

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

dx=5mm, dy=5mm


Maximum value of peak Total field = 0.284 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

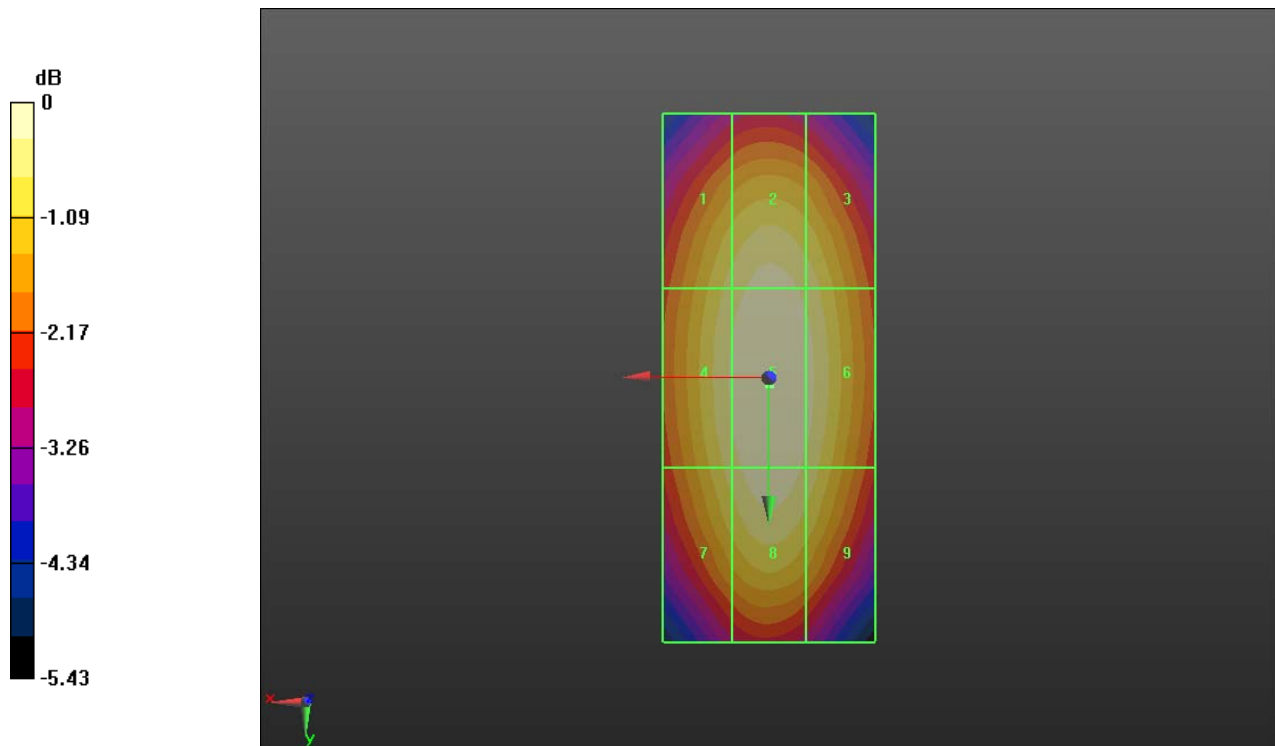
Reference Value = 0.302 A/m; Power Drift = -0.03 dB

**Hearing Aid Near-Field Category: M3 (AWF 0 dB)**


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>60 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

Peak H-field in A/m

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



0 dB = 0.280A/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>61 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/23/2011 12:51:39 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_AM80% 1880 MHz\_GSM

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

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

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: TCoil Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

**distance from the probe sensor center to CD1880 Dipole =**

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.184 A/m

Probe Modulation Factor = 1.000

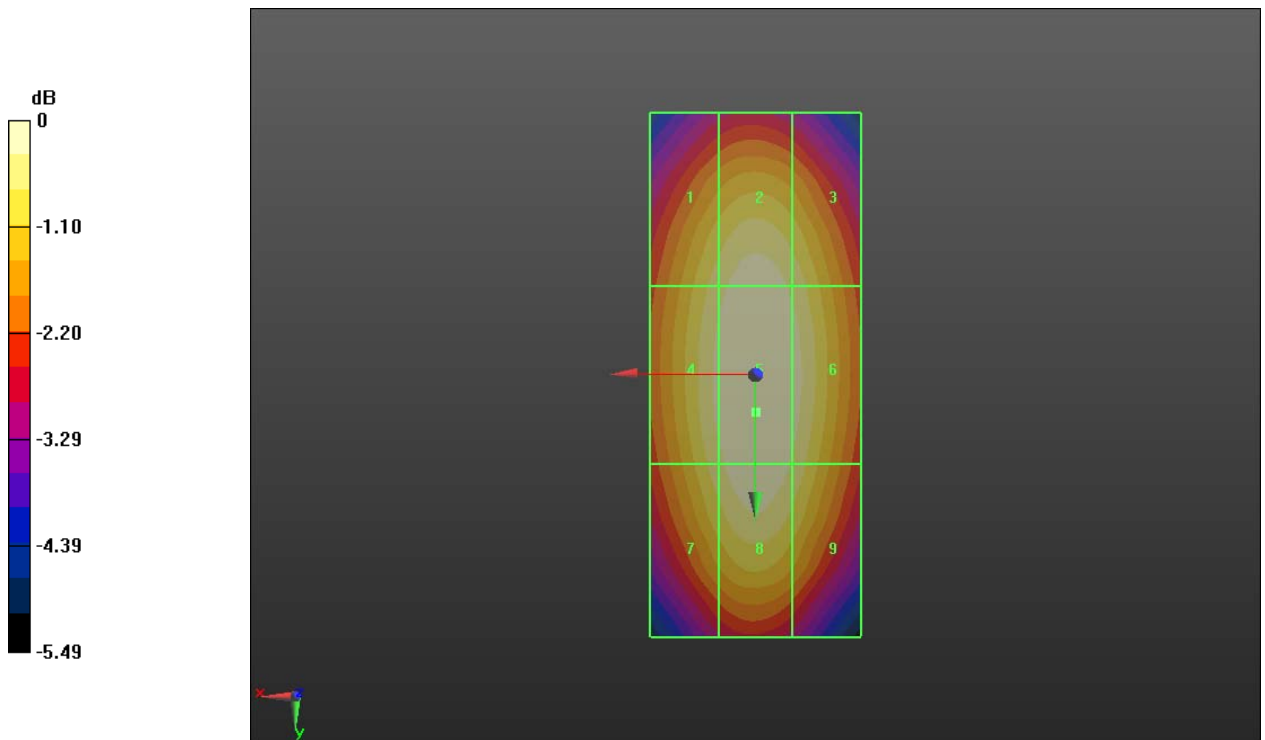
Device Reference Point: 0, 0, -6.3 mm

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


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

Peak H-field in A/m

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



0 dB = 0.180A/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>63 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Date/Time: 3/23/2011 1:10:44 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_CDMA\_1880 MHz

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

Communication System: CDMA 1900; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Communication System PAR: 0 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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


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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.154 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

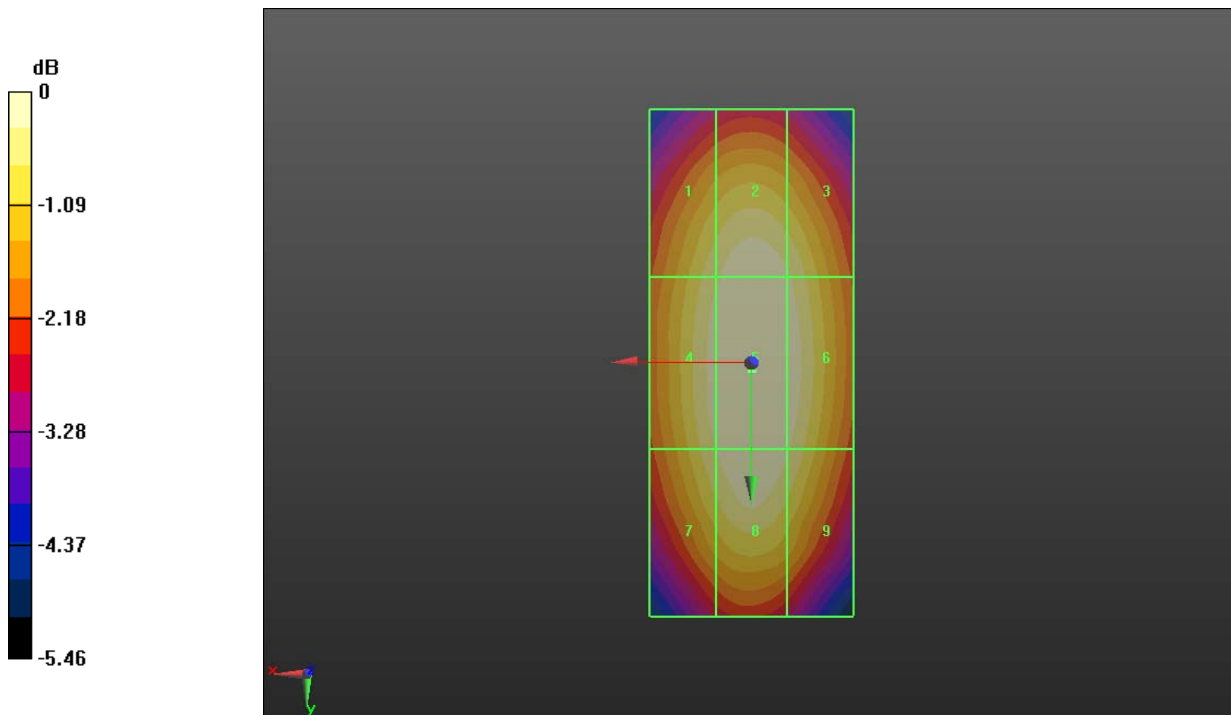
	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>64 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

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

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


Peak H-field in A/m

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



0 dB = 0.150A/m



	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		65 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

**Dipole H-Field measurement with H3DV6 probe/H Scan - CW\_CDMA1900\_measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.126 A/m  
Probe Modulation Factor = 1.000  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.135 A/m; Power Drift = -0.02 dB

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


Peak H-field in A/m

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

**Dipole H-Field measurement with H3DV6 probe/H Scan - AM80%\_CDMA1900\_measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.081 A/m  
Probe Modulation Factor = 1.000  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.086 A/m; Power Drift = -0.0042 dB

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		66 (111)
Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>	FCC ID <b>L6ARDR60CW</b>

Peak H-field in A/m

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

**Dipole H-Field measurement with H3DV6 probe/H Scan - CDMA1900\_1\_8th measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):**

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

Maximum value of peak Total field = 0.051 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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

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

Peak H-field in A/m

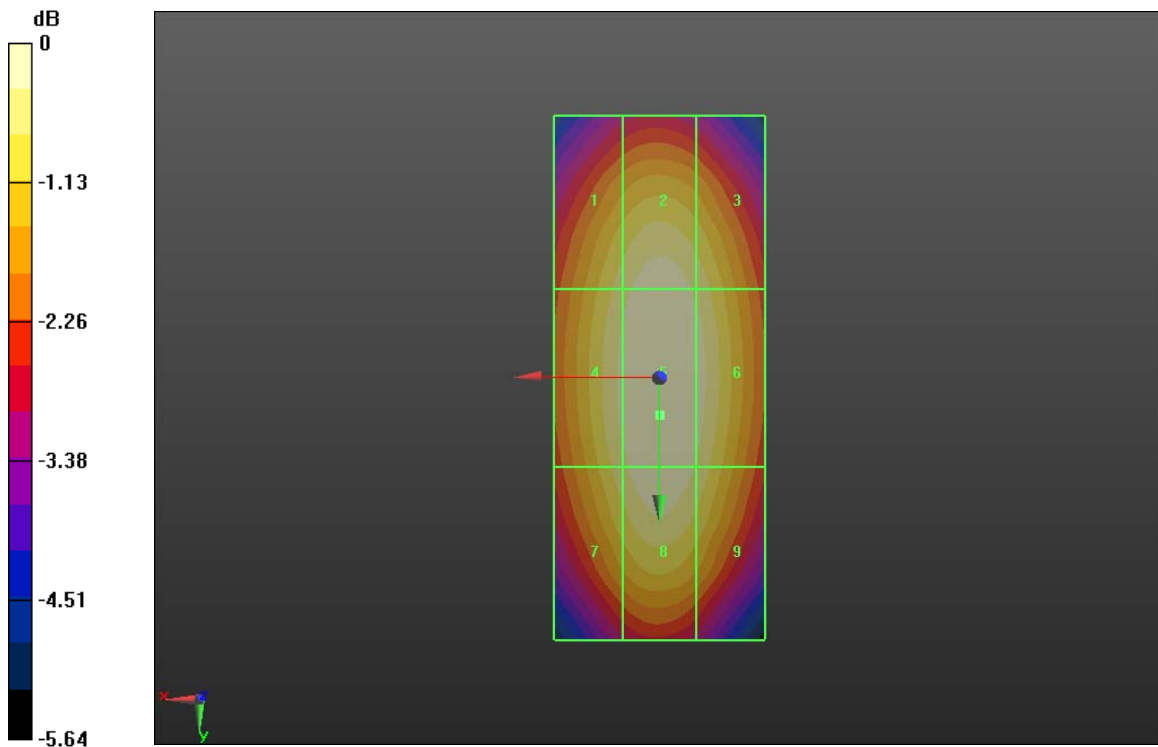
Grid 1 <b>0.040</b> <b>M4</b>	Grid 2 <b>0.041</b> <b>M4</b>	Grid 3 <b>0.038</b> <b>M4</b>
Grid 4 <b>0.047</b> <b>M4</b>	Grid 5 <b>0.051</b> <b>M4</b>	Grid 6 <b>0.048</b> <b>M4</b>
Grid 7 <b>0.040</b> <b>M4</b>	Grid 8 <b>0.042</b> <b>M4</b>	Grid 9 <b>0.040</b> <b>M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Mar. 22-23, June 21-22, 2011**

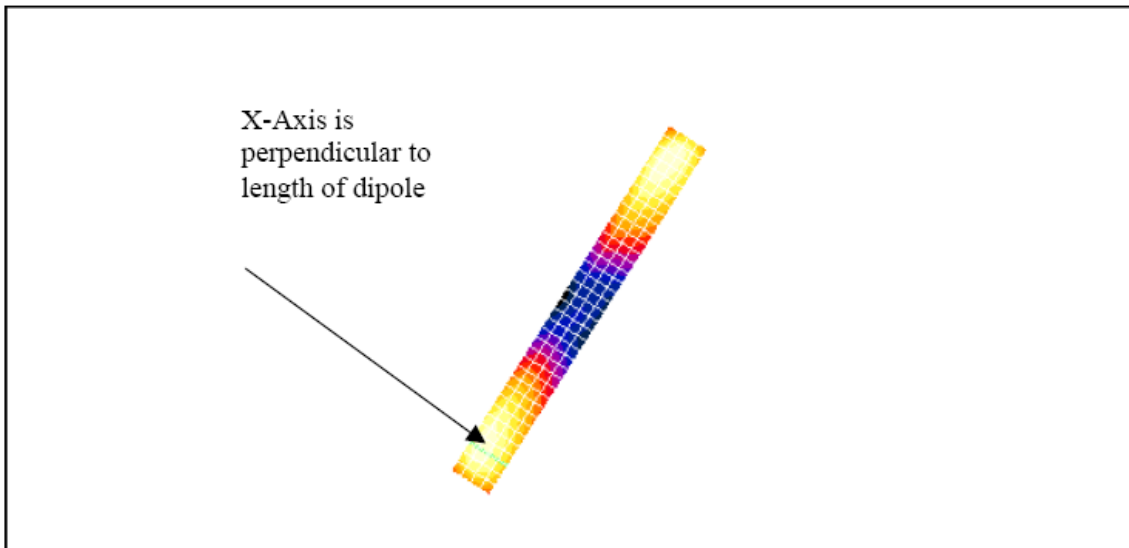
Report No  
**RTS-2604-1107-07**

FCC ID  
**L6ARDR60CW**



0 dB = 0.470A/m


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>68 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>



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
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>69 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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/m<sup>3</sup>

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
<b>123.2</b>	<b>138.1</b>	<b>138.4</b>	<b>123.2</b>	<b>138.1</b>	<b>138.4</b>
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
<b>80.9</b>	<b>92.3</b>	<b>92.2</b>	<b>80.9</b>	<b>92.3</b>	<b>92.2</b>
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
<b>119.8</b>	<b>131.0</b>	<b>130.7</b>	<b>119.8</b>	<b>131.0</b>	<b>130.7</b>

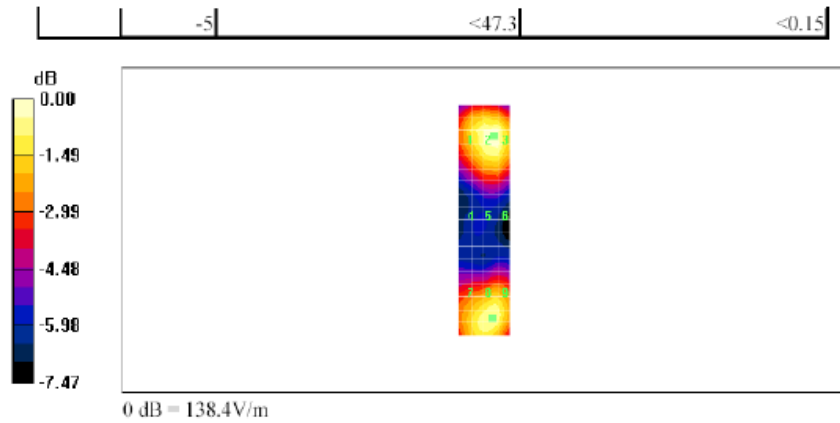
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>70 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

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		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		71 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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/m<sup>3</sup>  
 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
<b>123.1</b>	<b>138.6</b>	<b>138.6</b>	<b>123.1</b>	<b>138.6</b>	<b>138.6</b>
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
<b>81.4</b>	<b>92.1</b>	<b>91.6</b>	<b>81.4</b>	<b>92.1</b>	<b>91.6</b>
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
<b>121.3</b>	<b>131.2</b>	<b>131.0</b>	<b>121.3</b>	<b>131.2</b>	<b>131.0</b>

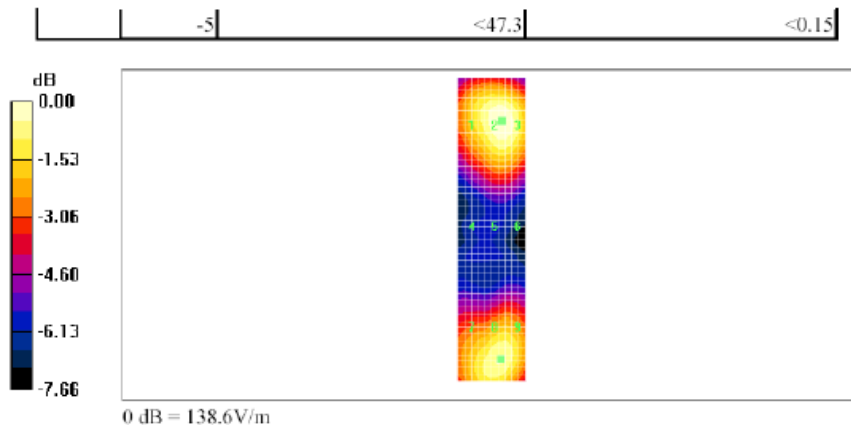
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>72 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>


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



	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		73 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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/m<sup>3</sup>  
 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)

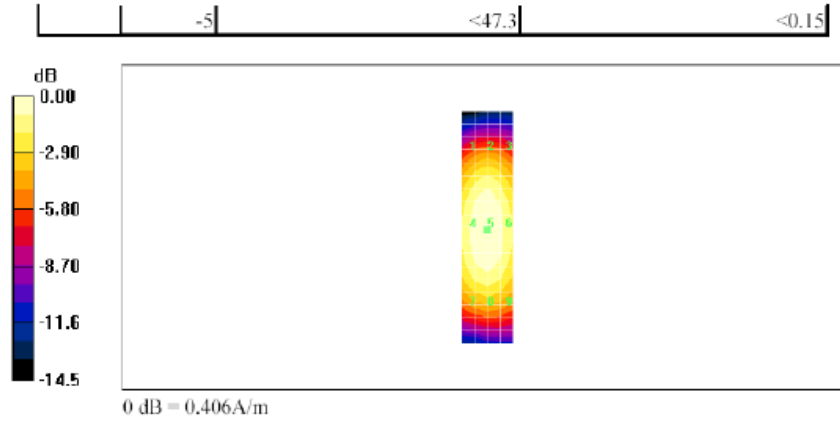
Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
<b>0.342</b>	<b>0.359</b>	<b>0.344</b>	<b>0.342</b>	<b>0.359</b>	<b>0.344</b>
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
<b>0.389</b>	<b>0.406</b>	<b>0.389</b>	<b>0.389</b>	<b>0.406</b>	<b>0.389</b>
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
<b>0.363</b>	<b>0.378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

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

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		75 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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/m<sup>3</sup>  
 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
<b>0.347</b>	<b>0.361</b>	<b>0.348</b>	<b>0.347</b>	<b>0.361</b>	<b>0.348</b>
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
<b>0.394</b>	<b>0.406</b>	<b>0.391</b>	<b>0.394</b>	<b>0.406</b>	<b>0.391</b>
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
<b>0.367</b>	<b>0.380</b>	<b>0.365</b>	<b>0.367</b>	<b>0.380</b>	<b>0.365</b>

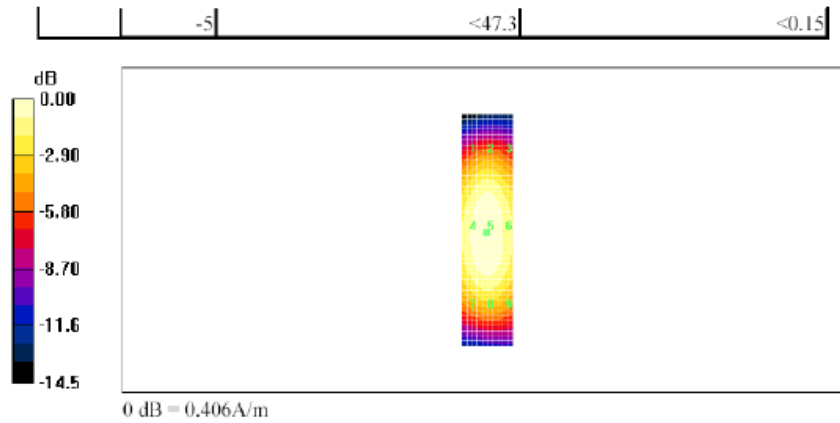
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

file://C:\Program%20Files\DASY4\Print\_Templates\HAC\_H\_Dipole\_CW%201880\_2%... 14/07/2005


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>76 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		77 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

### A.3 RF emissions plots

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		78 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_GSM850

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

Communication System: GSM 850; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 MHz; Communication System PAR: 9.191 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


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

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

Maximum value of peak Total field = 186.5 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>79 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

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

Peak E-field in V/m

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

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 201.1 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 83.471 V/m; Power Drift = 0.09 dB

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>80 (111)</b>
Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>	FCC ID <b>L6ARDR60CW</b>

Peak E-field in V/m

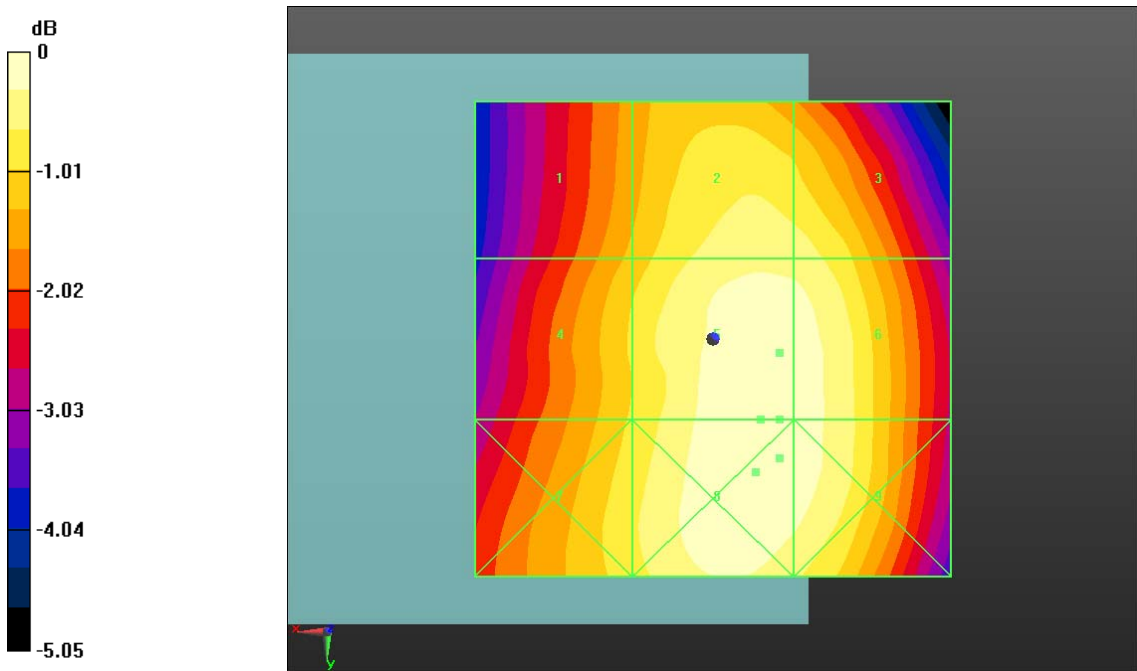
Grid 1 <b>163.7</b> <b>M3</b>	Grid 2 <b>191.2</b> <b>M3</b>	Grid 3 <b>191.2</b> <b>M3</b>
Grid 4 <b>171.5</b> <b>M3</b>	Grid 5 <b>201.1</b> <b>M3</b>	Grid 6 <b>200.8</b> <b>M3</b>
Grid 7 <b>177.2</b> <b>M3</b>	Grid 8 <b>201.5</b> <b>M3</b>	Grid 9 <b>201.1</b> <b>M3</b>

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 169.6 V/m  
Probe Modulation Factor = 2.940  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 70.583 V/m; Power Drift = 0.02 dB  
**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**




Peak E-field in V/m

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



0 dB = 187.1V/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>82 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_GSM1900

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

Communication System: GSM 1900; Communication System Band: GSM 1900;

Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8

MHz;Communication System PAR: 9.191 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15**

**mm from Probe Center to the Device/Hearing Aid Compatibility Test**

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

Maximum value of peak Total field = 83.193 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 22.590 V/m; Power Drift = -0.19 dB

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

Peak E-field in V/m

Grid 1 <b>76.118</b> M3	Grid 2 <b>68.780</b> M3	Grid 3 <b>50.404</b> M3
Grid 4 <b>46.620</b> M4	Grid 5 <b>83.193</b> M3	Grid 6 <b>84.510</b> M2
Grid 7 <b>72.311</b> M3	Grid 8 <b>100.9</b> M2	Grid 9 <b>100.9</b> M2

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 80.977 V/m

Probe Modulation Factor = 2.970


Device Reference Point: 0, 0, -6.3 mm

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

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

Peak E-field in V/m

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>84 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 75.872 V/m

Probe Modulation Factor = 2.970

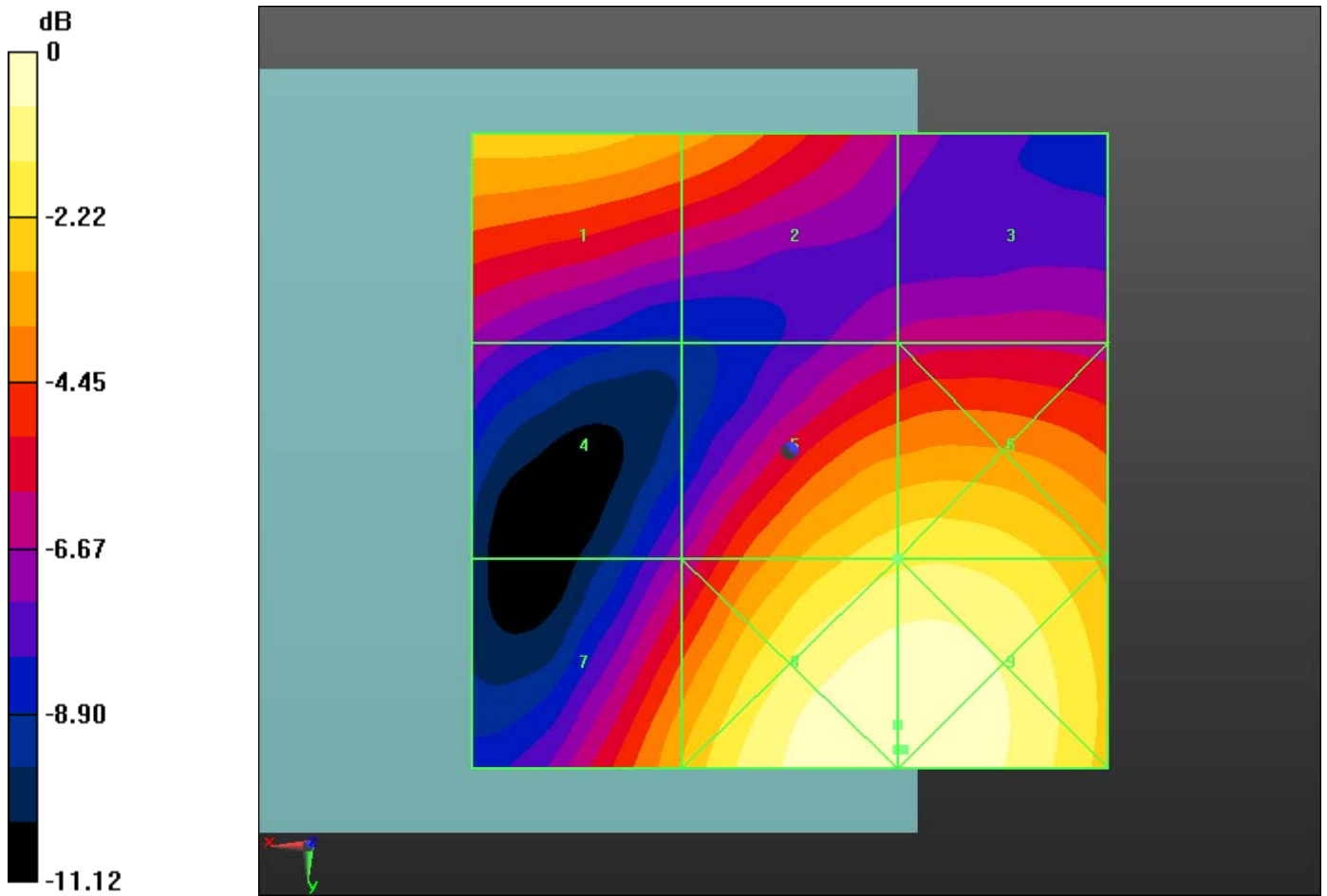
Device Reference Point: 0, 0, -6.3 mm

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


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

Peak E-field in V/m

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



0 dB = 100.9V/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>86 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_CDMA850

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

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

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

MHz; Communication System PAR: 0, Communication System PAR: 9.19 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15**

**mm from Probe Center to the Device/Hearing Aid Compatibility Test**

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


Maximum value of peak Total field = 62.324 V/m

Probe Modulation Factor = 0.84

Device Reference Point: 0, 0, -6.3 mm

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

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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>87 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

Peak E-field in V/m

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

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 66.632 V/m

Probe Modulation Factor = 0.84


Device Reference Point: 0, 0, -6.3 mm

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

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

Peak E-field in V/m

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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>88 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 62.896 V/m  
Probe Modulation Factor = 0.84  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 81.124 V/m; Power Drift = 0.03 dB

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

Peak E-field in V/m

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

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: CDMA835\_1\_8th\_15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**

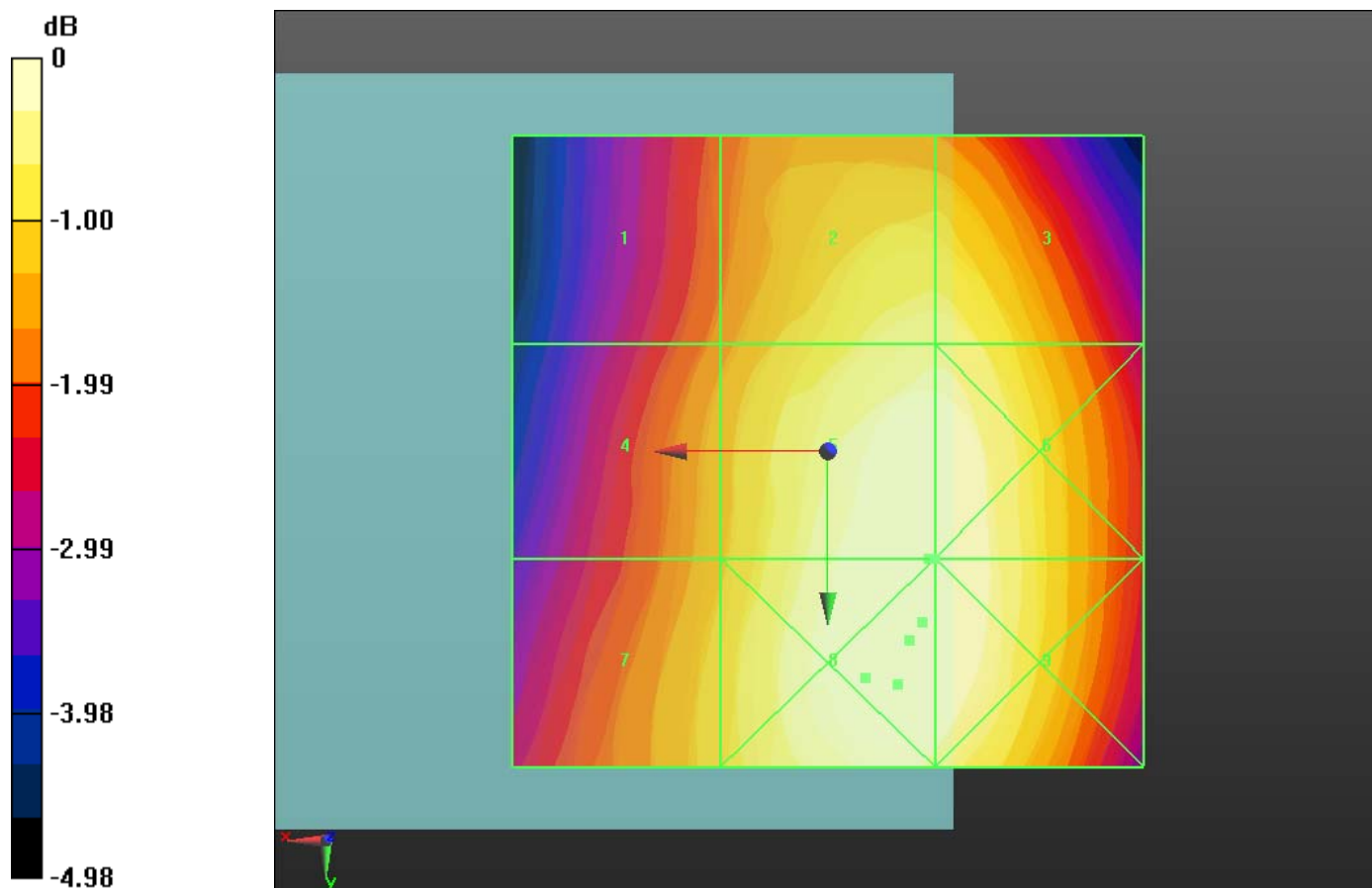
Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 66.073 V/m  
Probe Modulation Factor = 2.600  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 30.221 V/m; Power Drift = 0.16 dB

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




Peak E-field in V/m

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



0 dB = 62.640V/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>90 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_CDMA1900

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

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

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


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

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

Maximum value of peak Total field = 39.827 V/m

Probe Modulation Factor = 0.84

Device Reference Point: 0, 0, -6.3 mm

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>91 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

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

Peak E-field in V/m

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

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 39.412 V/m

Probe Modulation Factor = 0.84


Device Reference Point: 0, 0, -6.3 mm

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

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

Peak E-field in V/m

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>92 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 35.692 V/m  
 Probe Modulation Factor = 0.84  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 33.813 V/m; Power Drift = -0.13 dB

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

Peak E-field in V/m

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

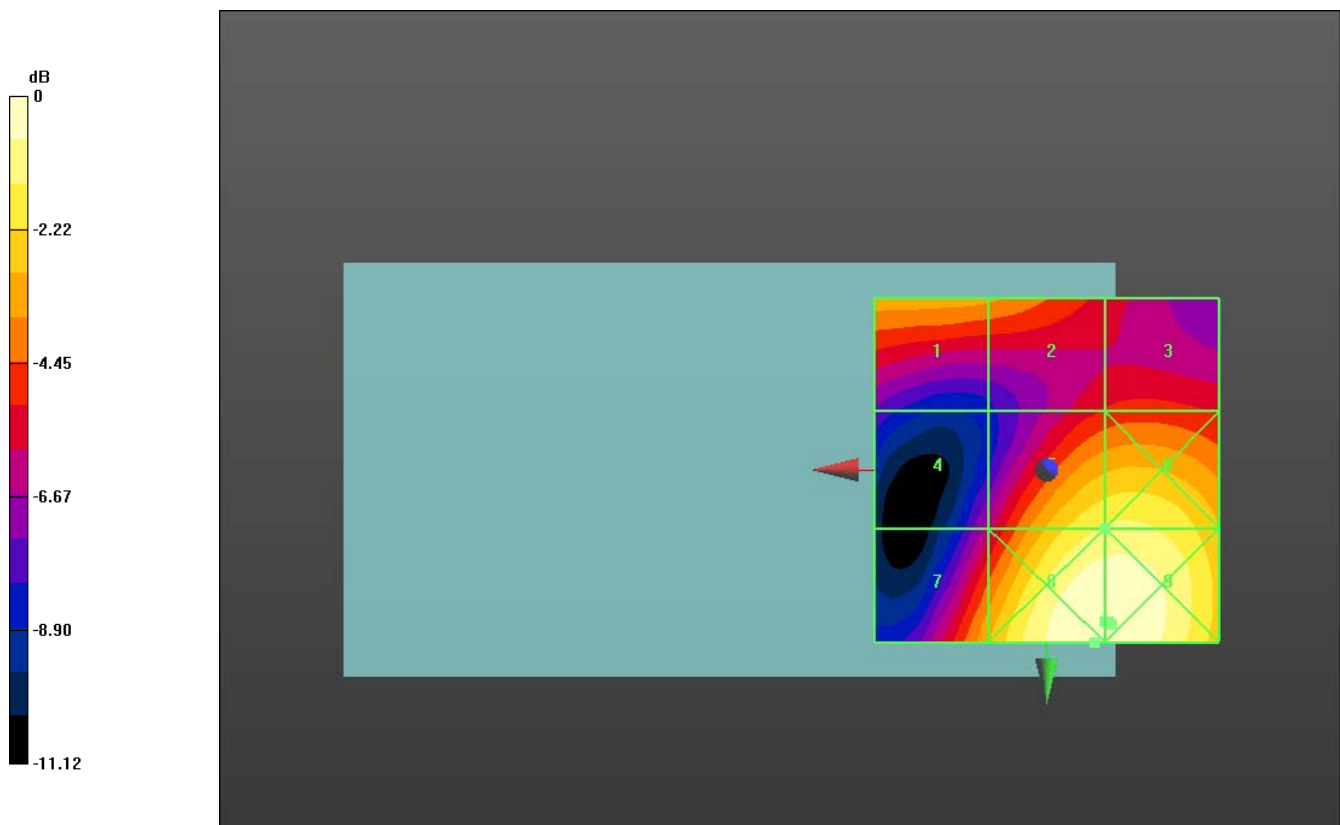
**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: CDMA1900\_1\_8th\_15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 37.240 V/m  
 Probe Modulation Factor = 2.570  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 11.988 V/m; Power Drift = -0.35 dB


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

Peak E-field in V/m

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



0 dB = 48.730V/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>94 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_GSM850

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

Communication System: GSM 850; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 MHz; Communication System PAR: 9.191 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


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

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

Maximum value of peak Total field = 0.291 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>95 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

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

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

Peak H-field in A/m

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

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

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

dx=5mm, dy=5mm


Maximum value of peak Total field = 0.330 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

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

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>96 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Peak H-field in A/m

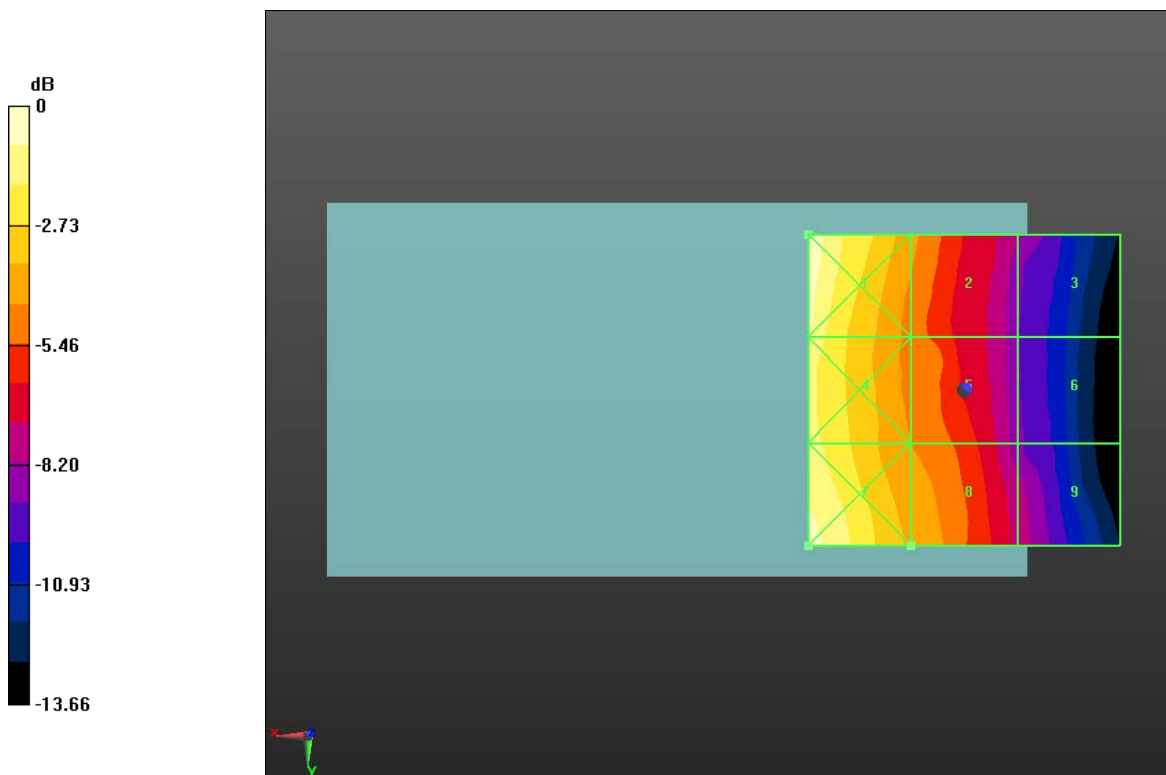
Grid 1 <b>0.445</b> <b>M4</b>	Grid 2 <b>0.313</b> <b>M4</b>	Grid 3 <b>0.203</b> <b>M4</b>
Grid 4 <b>0.408</b> <b>M4</b>	Grid 5 <b>0.292</b> <b>M4</b>	Grid 6 <b>0.191</b> <b>M4</b>
Grid 7 <b>0.456</b> <b>M3</b>	Grid 8 <b>0.330</b> <b>M4</b>	Grid 9 <b>0.199</b> <b>M4</b>

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.314 A/m  
Probe Modulation Factor = 2.870  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.085 A/m; Power Drift = -0.12 dB  
**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**




Peak H-field in A/m

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



0 dB = 0.450A/m

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>98 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_GSM1900

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

Communication System: GSM 1900; Communication System Band: GSM 1900;

Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8

MHz;Communication System PAR: 9.191 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 -**

**2007: 15 mm from Probe Center to the Device/Hearing Aid**

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


Maximum value of peak Total field = 0.220 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

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

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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		Page <b>99 (111)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>

Peak H-field in A/m

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

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

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

dx=5mm, dy=5mm


Maximum value of peak Total field = 0.222 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

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

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>100 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

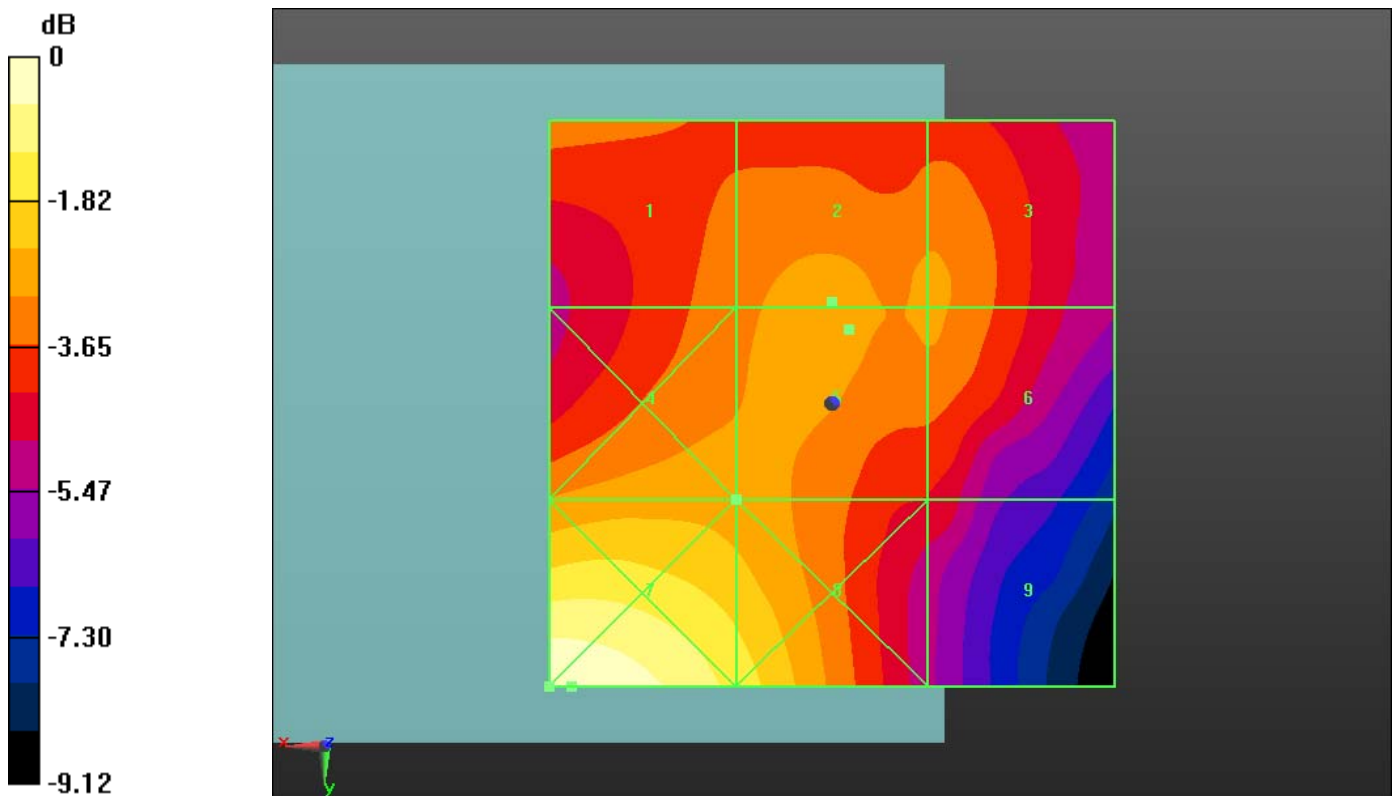
Peak H-field in A/m


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

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.201 A/m  
Probe Modulation Factor = 2.870  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.082 A/m; Power Drift = 0.24 dB  
**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak H-field in A/m

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



	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		102 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_CDMA850

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

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

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

MHz; Communication System PAR: 0, Communication System PAR: 9.19 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 -**

**2007: 15 mm from Probe Center to the Device/Hearing Aid**

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


Maximum value of peak Total field = 0.145 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

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

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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>103 (111)</b>
Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>	FCC ID <b>L6ARDR60CW</b>

Peak H-field in A/m

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

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

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

dx=5mm, dy=5mm


Maximum value of peak Total field = 0.153 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.100 A/m; Power Drift = -0.08 dB

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


	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>104 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Peak H-field in A/m

Grid 1 <b>0.153</b> M4	Grid 2 <b>0.110</b> M4	Grid 3 <b>0.074</b> M4
Grid 4 <b>0.140</b> M4	Grid 5 <b>0.107</b> M4	Grid 6 <b>0.071</b> M4
Grid 7 <b>0.156</b> M4	Grid 8 <b>0.117</b> M4	Grid 9 <b>0.074</b> M4

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.147 A/m  
Probe Modulation Factor = 0.970  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.100 A/m; Power Drift = 0.008 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**



	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		105 (111)
Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>	FCC ID <b>L6ARDR60CW</b>

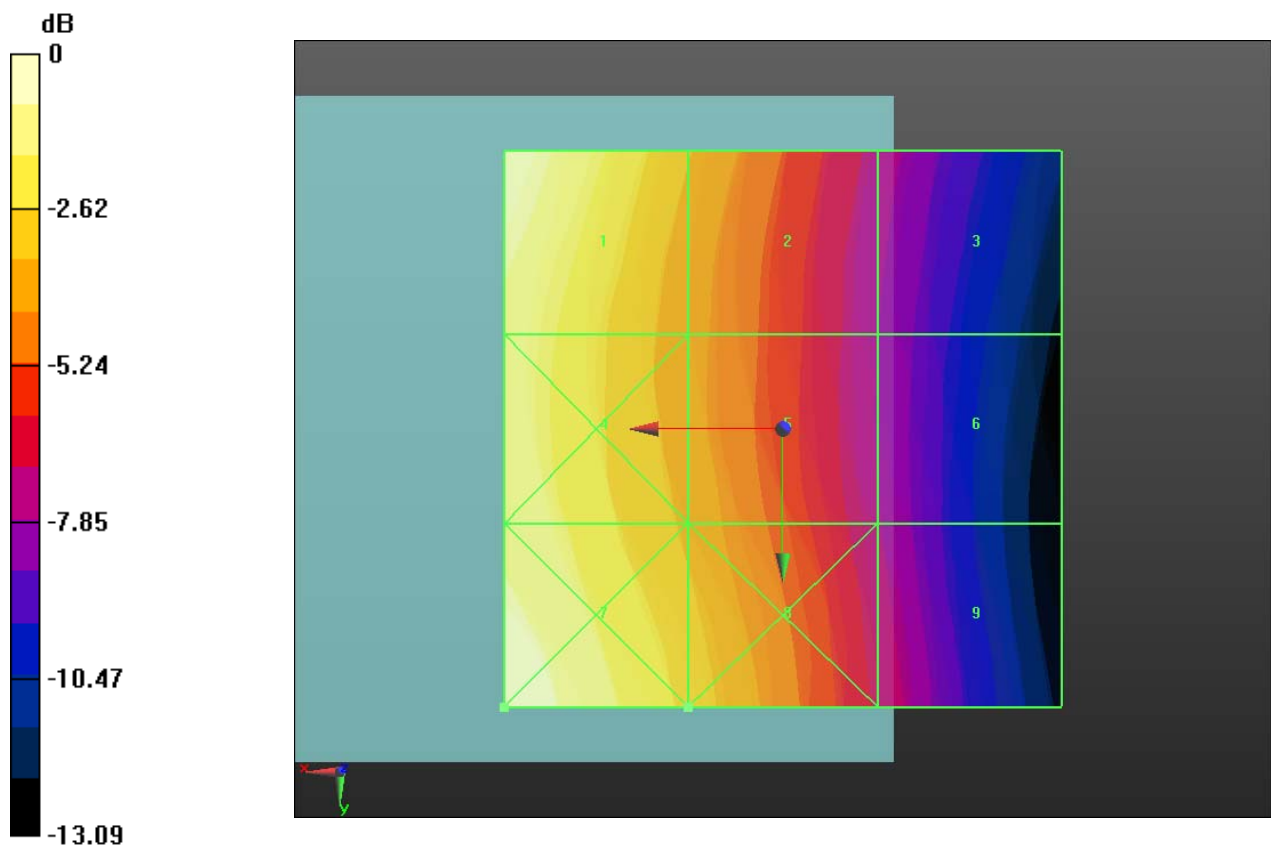
Peak H-field in A/m

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


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

Peak H-field in A/m

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



0 dB = 0.150A/m

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		107 (111)
Author Data <b>Daoud Attayi</b>	Dates of Test <b>Mar. 22-23, June 21-22, 2011</b>	Report No <b>RTS-2604-1107-07</b>	FCC ID <b>L6ARDR60CW</b>

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

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_CDMA1900

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

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS; Frequency: 1851.25 MHz, Frequency: 1880 MHz, Frequency: 1908.5 MHz; Communication System PAR: 0, Communication System PAR: 9.19 dB  
Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


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

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

Maximum value of peak Total field = 0.099 A/m

Probe Modulation Factor = 0.820

Device Reference Point: 0, 0, -6.3 mm

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>108 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>


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

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

Peak H-field in A/m

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

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.091 A/m  
Probe Modulation Factor = 0.820  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.129 A/m; Power Drift = 0.004 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		<b>109 (111)</b>
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Peak H-field in A/m

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

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

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

dx=5mm, dy=5mm


Maximum value of peak Total field = 0.091 A/m

Probe Modulation Factor = 0.820

Device Reference Point: 0, 0, -6.3 mm

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


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

	Document		Page
	<b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDR61CW</b>		110 (111)
Author Data	Dates of Test	Report No	FCC ID
<b>Daoud Attayi</b>	<b>Mar. 22-23, June 21-22, 2011</b>	<b>RTS-2604-1107-07</b>	<b>L6ARDR60CW</b>

Peak H-field in A/m

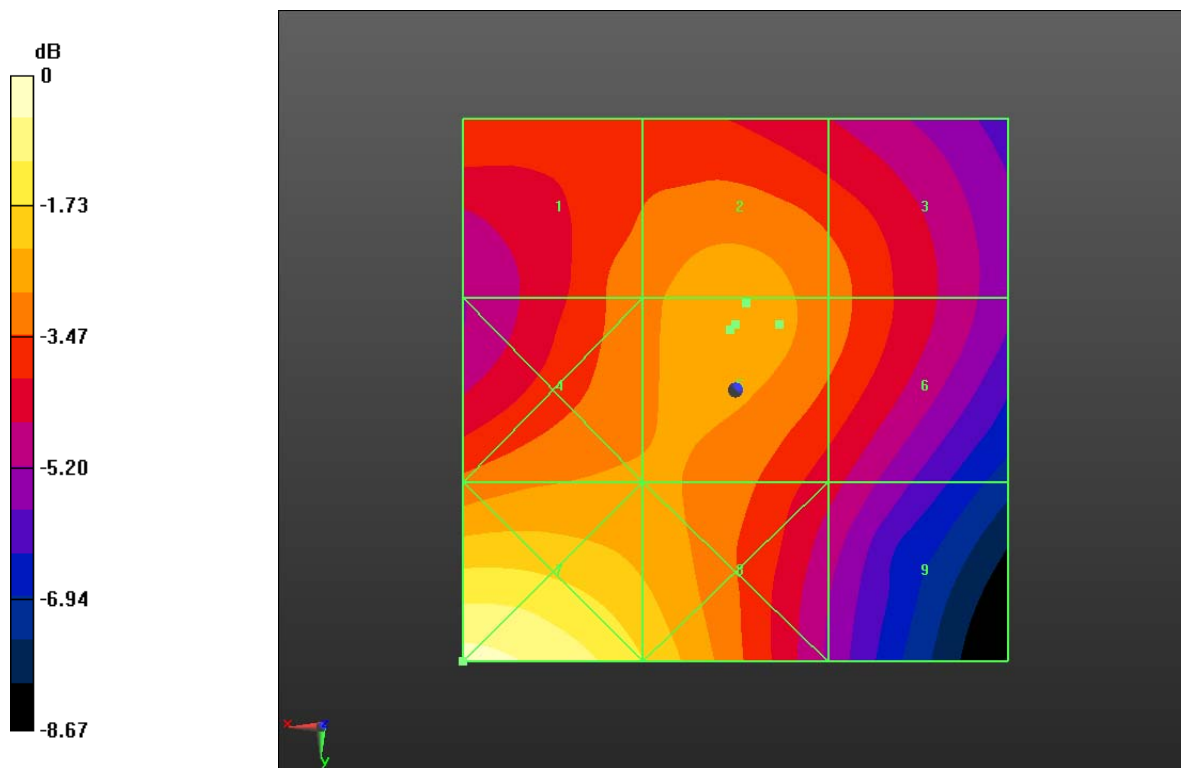
Grid 1 <b>0.087</b> <b>M4</b>	Grid 2 <b>0.091</b> <b>M4</b>	Grid 3 <b>0.086</b> <b>M4</b>
Grid 4 <b>0.089</b> <b>M4</b>	Grid 5 <b>0.091</b> <b>M4</b>	Grid 6 <b>0.086</b> <b>M4</b>
Grid 7 <b>0.116</b> <b>M4</b>	Grid 8 <b>0.100</b> <b>M4</b>	Grid 9 <b>0.076</b> <b>M4</b>

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

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

Peak H-field in A/m

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



0 dB = 0.120A/m