	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 1 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

Annex A: Measurement data and plots

A.1 Spectrum analyser plots: CW, 80%AM, GSM and WCDMA signals



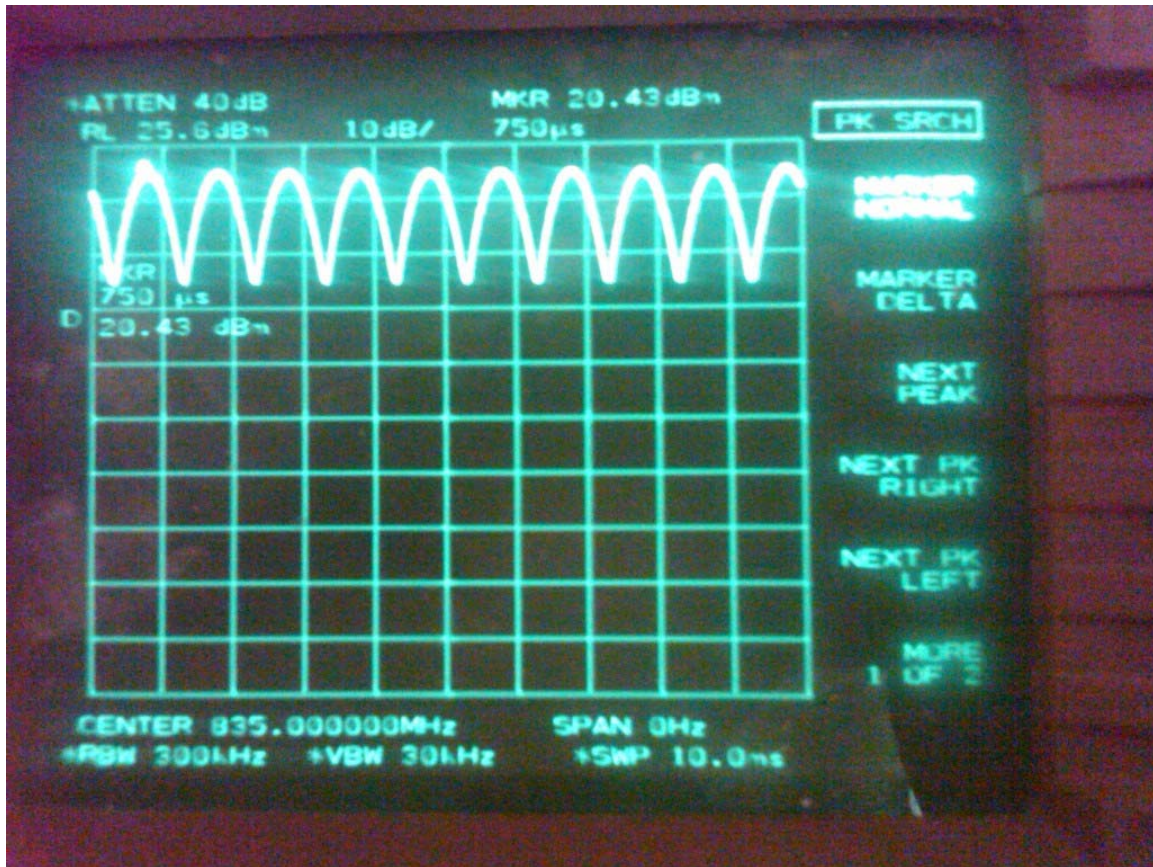
0 Hz Span CW Plot (835MHz)

Author Data
Daoud Attayi

Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



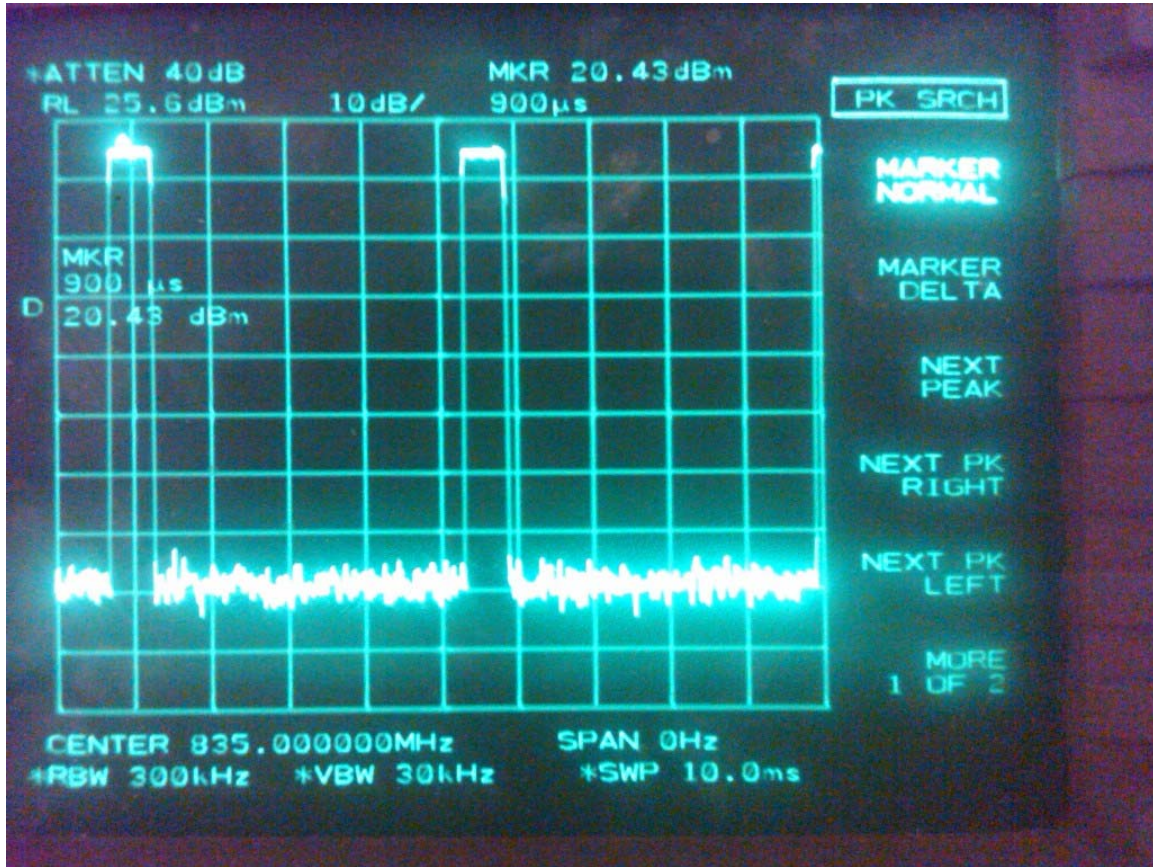
0 Hz Span 80% AM Plot (835MHz)

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW




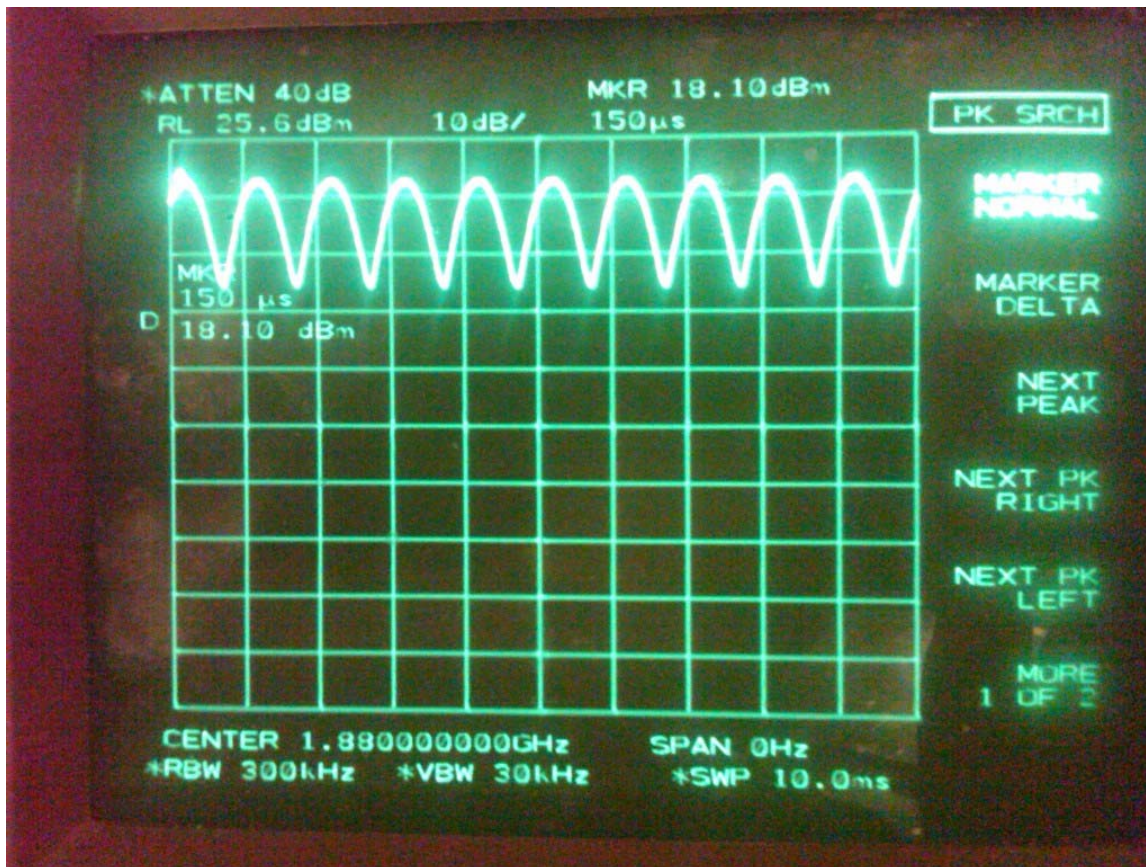
0 Hz Span GSM (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 4 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37




0 Hz Span CW Plot (1880MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 5 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37




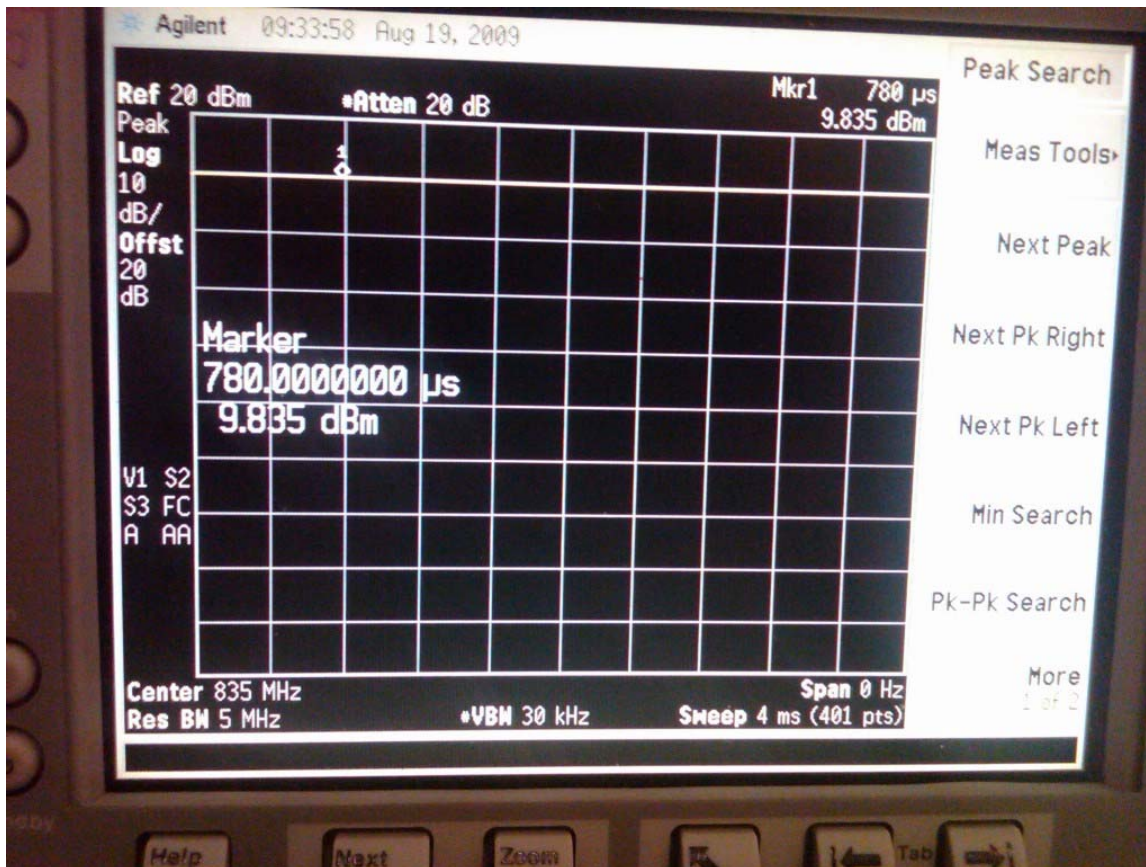
0 Hz Span 80% AM Plot (1880MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 6 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37




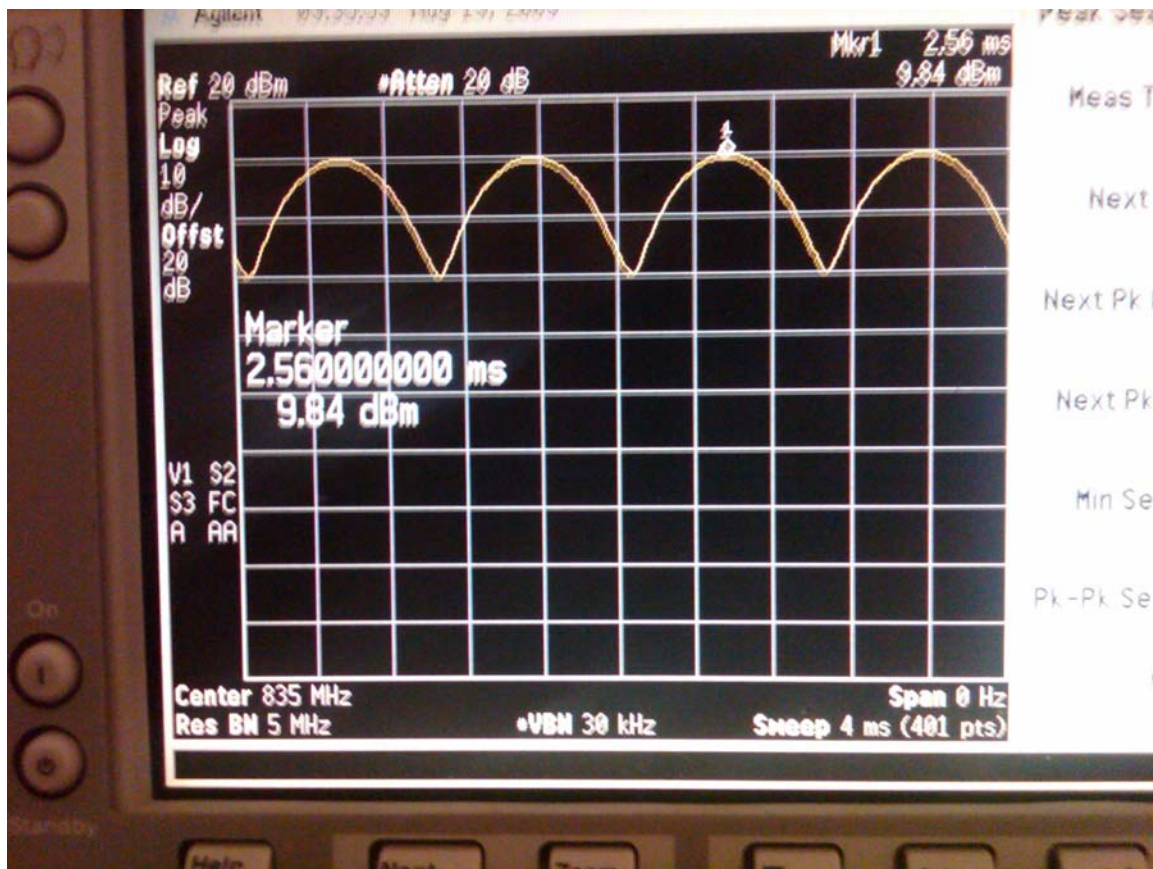
0 Hz Span GSM (1880MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 7 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37



0 Hz Span CW Plot (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 8 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37



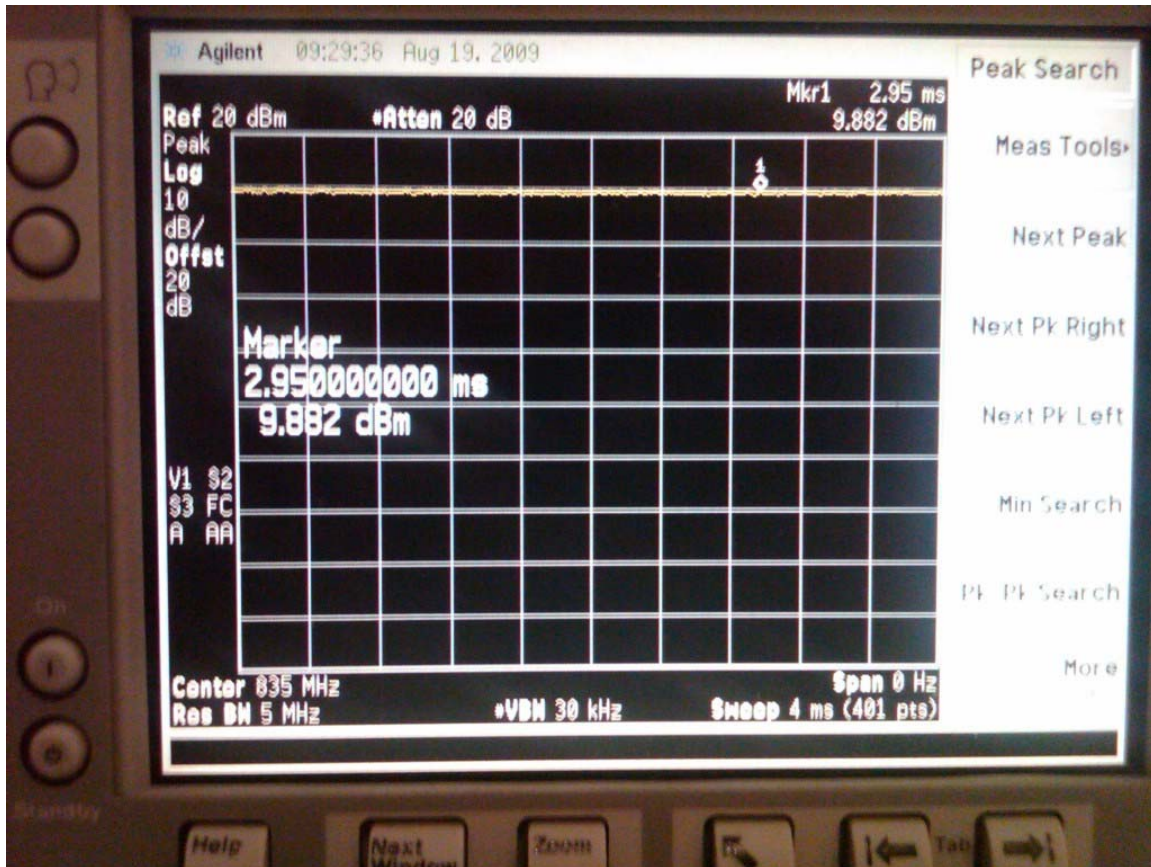
0 Hz Span 80% AM Plot (835MHz)

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

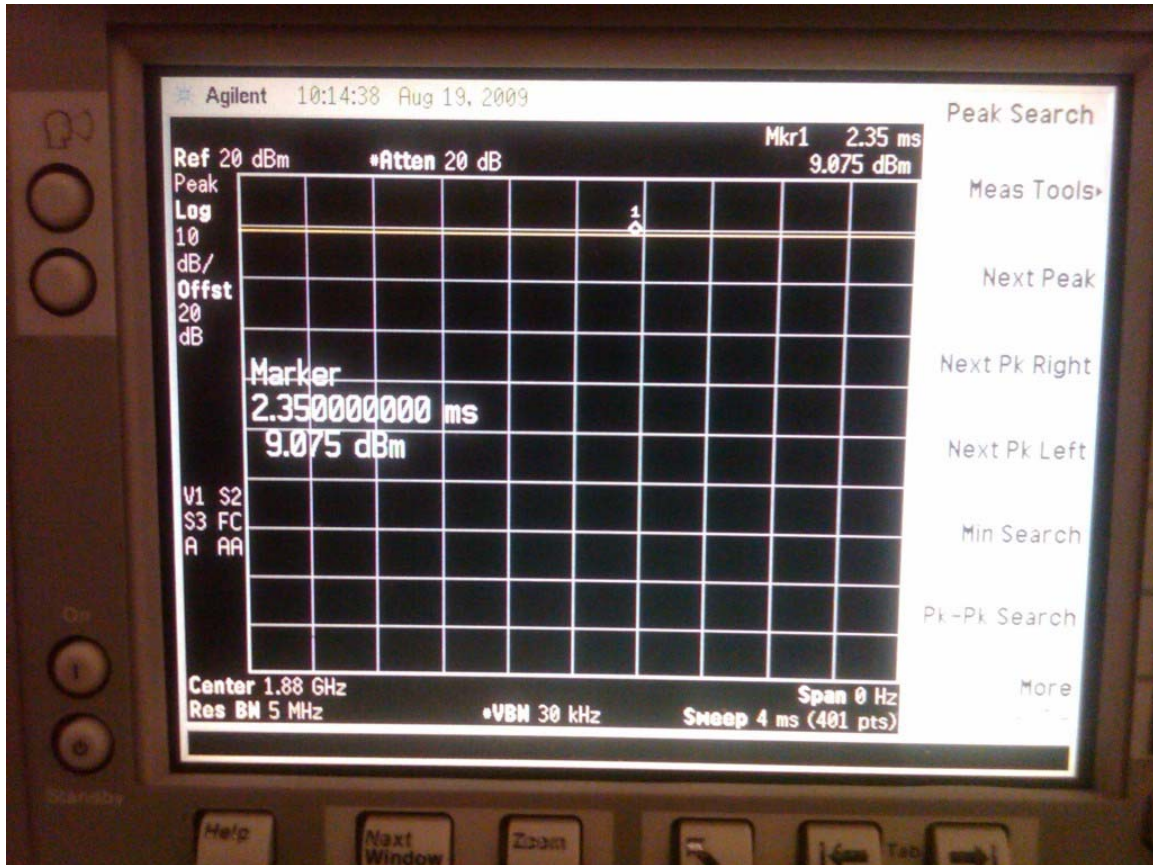
Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 Hz Span WCDMA (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 10 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37



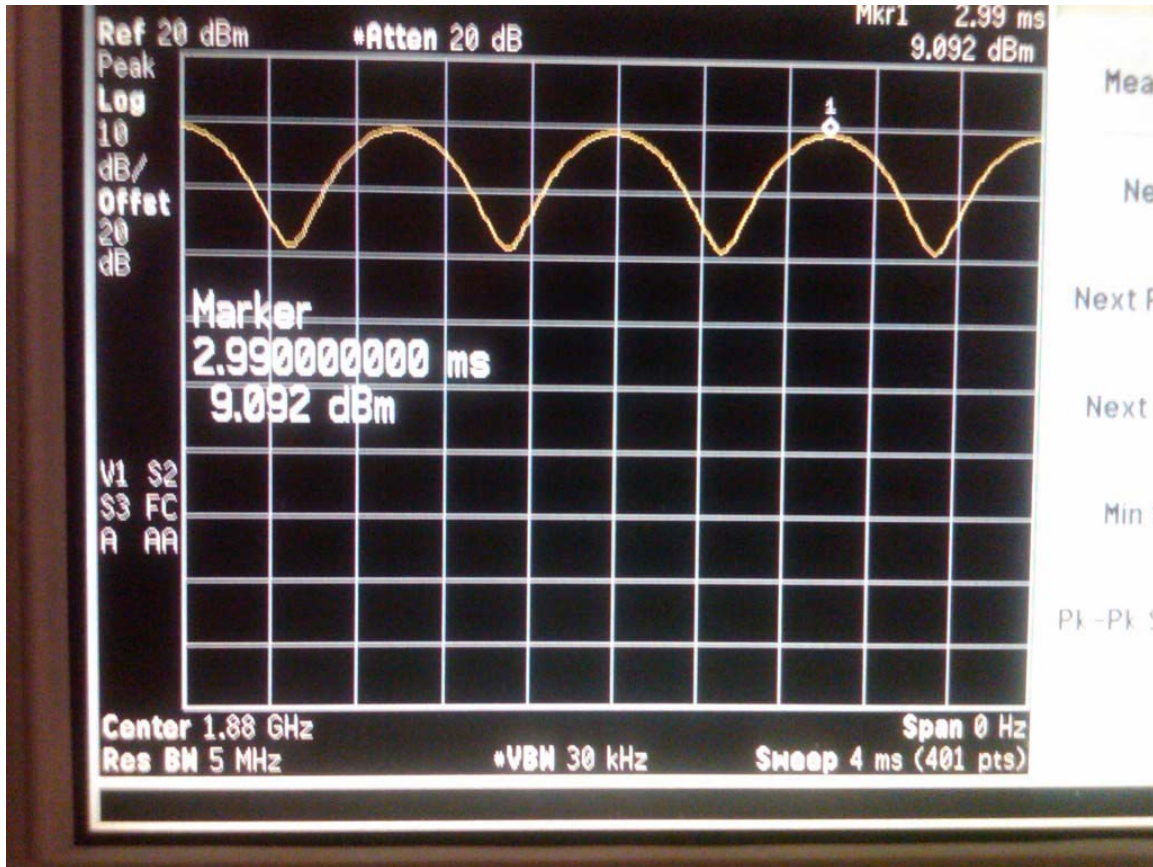
0 Hz Span CW Plot (1880MHz)

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

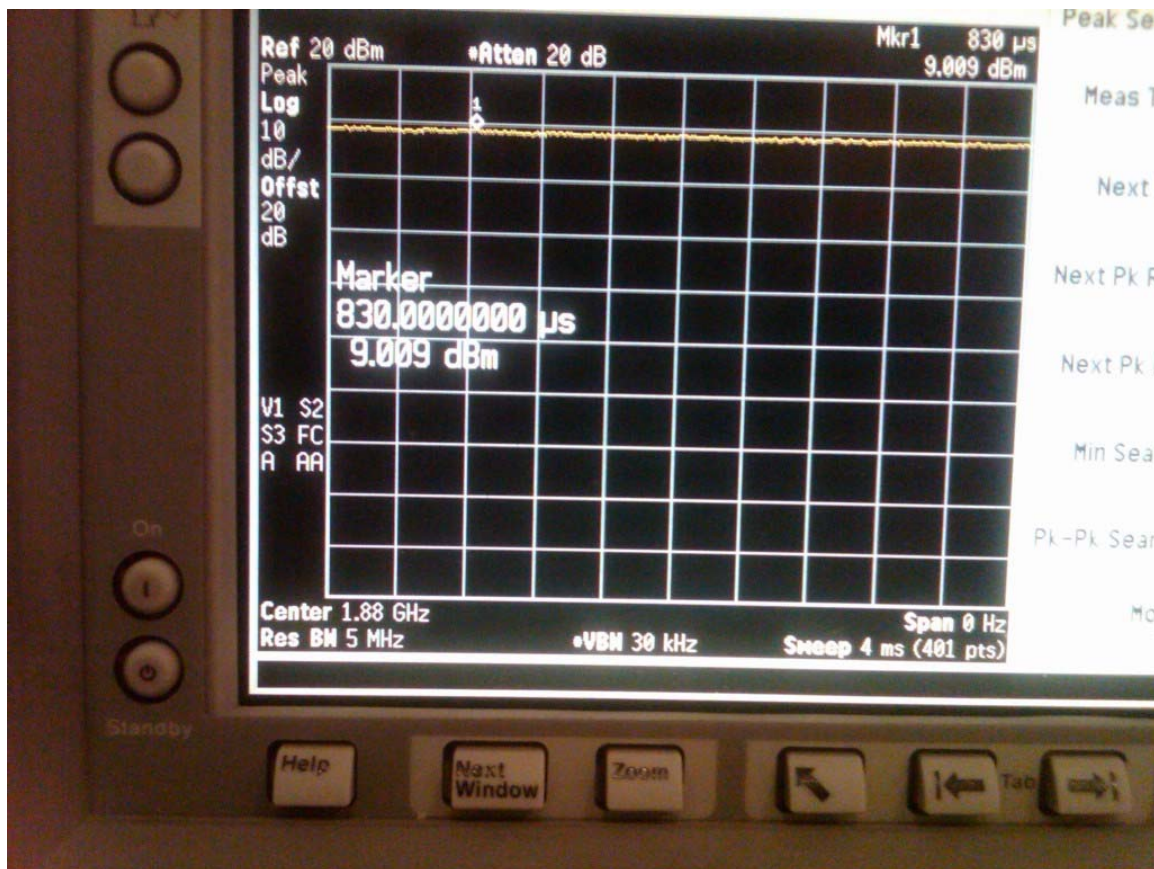
Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW




0 Hz Span 80% AM Plot (1880MHz)


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 12 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37



0 Hz Span WCDMA (1880MHz)

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		13 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

A.2 Dipole validation and probe modulation factor plots

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		14 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 11/08/2009 9:12:23 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_CW835_20.00dBm.da4](#)

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

Program Name: HAC RF E Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 102.2 V/m; Power Drift = 0.093 dB

Maximum value of Total (measured) = 160.7 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		15 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 162.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 102.2 V/m; Power Drift = 0.093 dB

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

Peak E-field in V/m

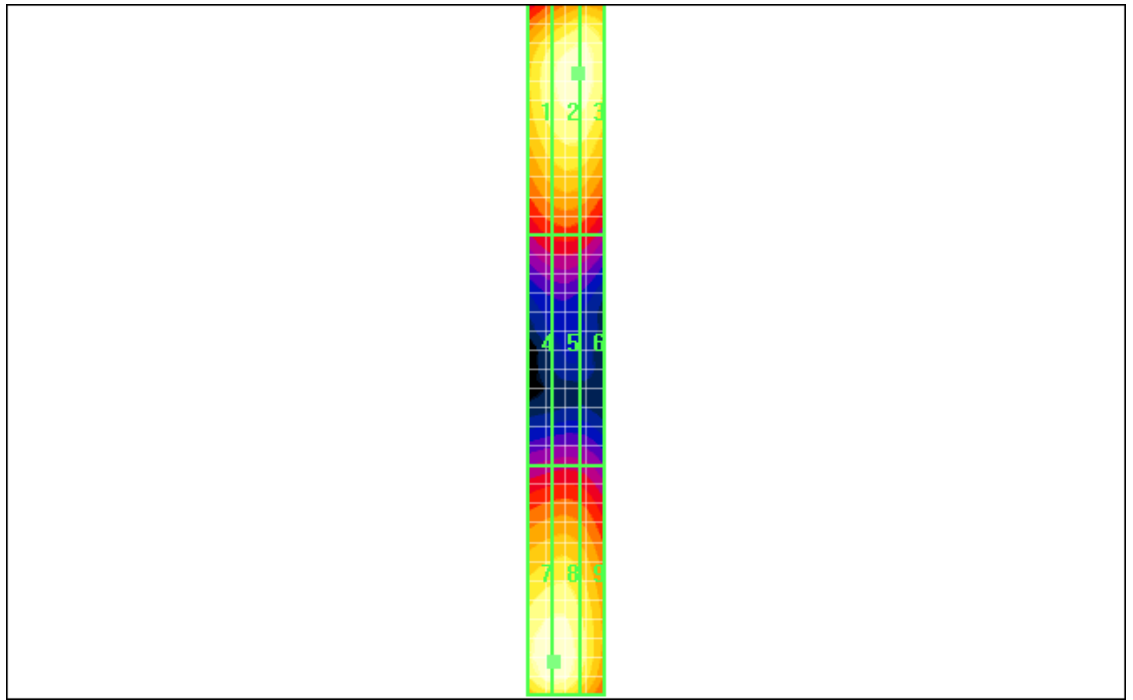
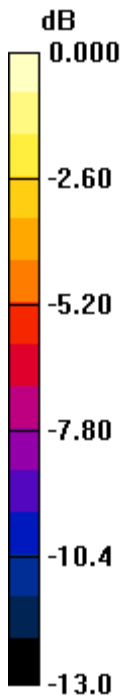
Grid 1	Grid 2	Grid 3
147.2 M4	158.1 M4	158.0 M4
Grid 4	Grid 5	Grid 6
83.4 M4	85.2 M4	83.5 M4
Grid 7	Grid 8	Grid 9
162.6 M4	162.8 M4	142.8 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 162.8V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		17 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 03/07/2009 10:28:16 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_835MHz_CW.da4](#)

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

Program Name: HAC RF E Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 104.4 V/m; Power Drift = 0.112 dB

Maximum value of Total (measured) = 163.1 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		18 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 164.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 104.4 V/m; Power Drift = 0.112 dB

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

Peak E-field in V/m

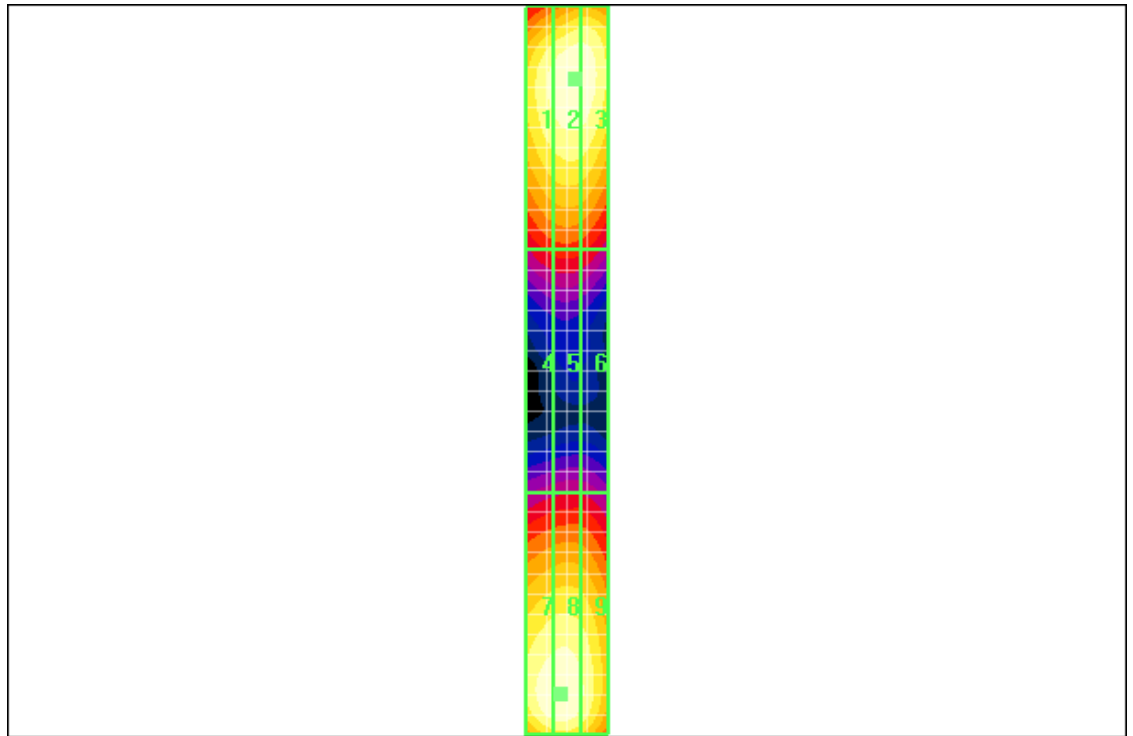
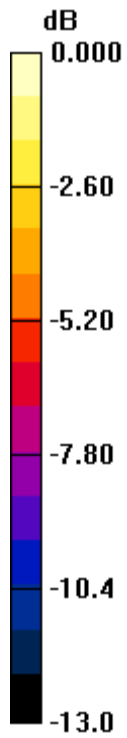
Grid 1	Grid 2	Grid 3
154.1 M4	162.8 M4	161.9 M4
Grid 4	Grid 5	Grid 6
85.4 M4	87.1 M4	84.8 M4
Grid 7	Grid 8	Grid 9
161.9 M4	164.3 M4	152.0 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 164.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		20 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 06/07/2009 2:40:33 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_835MHz_CW_GSM_mod.da4](#)

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

Program Name: HAC RF E Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 103.1 V/m; Power Drift = 0.054 dB

Maximum value of Total (measured) = 161.1 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		21 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 161.5 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 103.1 V/m; Power Drift = 0.054 dB

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

Peak E-field in V/m

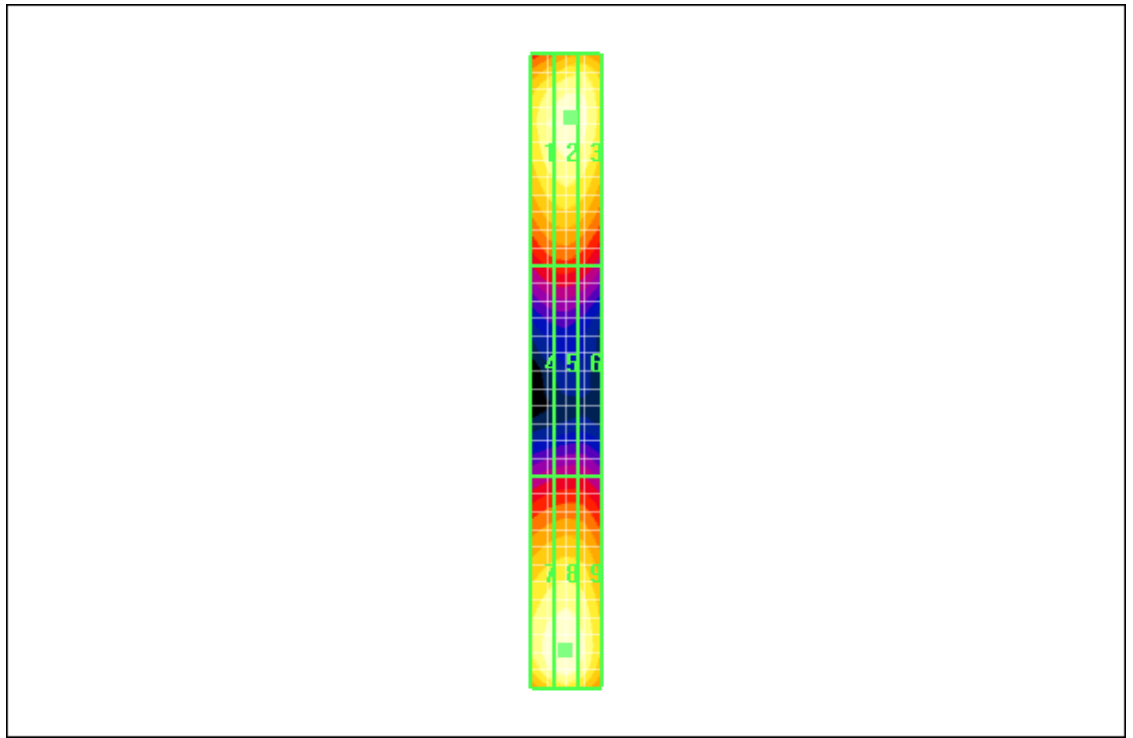
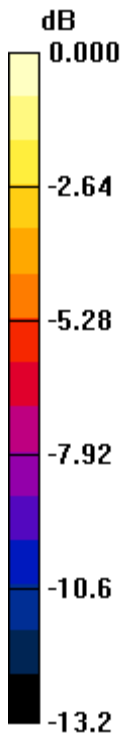
Grid 1	Grid 2	Grid 3
149.5 M4	155.9 M4	154.5 M4
Grid 4	Grid 5	Grid 6
84.1 M4	85.4 M4	82.2 M4
Grid 7	Grid 8	Grid 9
158.0 M4	161.5 M4	153.8 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 161.5V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		23 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 06/07/2009 2:48:36 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_835MHz_AM80%.da4](#)

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

Program Name: HAC RF E Dipole

Communication System: AM; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 65.7 V/m; Power Drift = 0.070 dB

Maximum value of Total (measured) = 102.1 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		24 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 102.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 65.7 V/m; Power Drift = 0.070 dB

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

Peak E-field in V/m

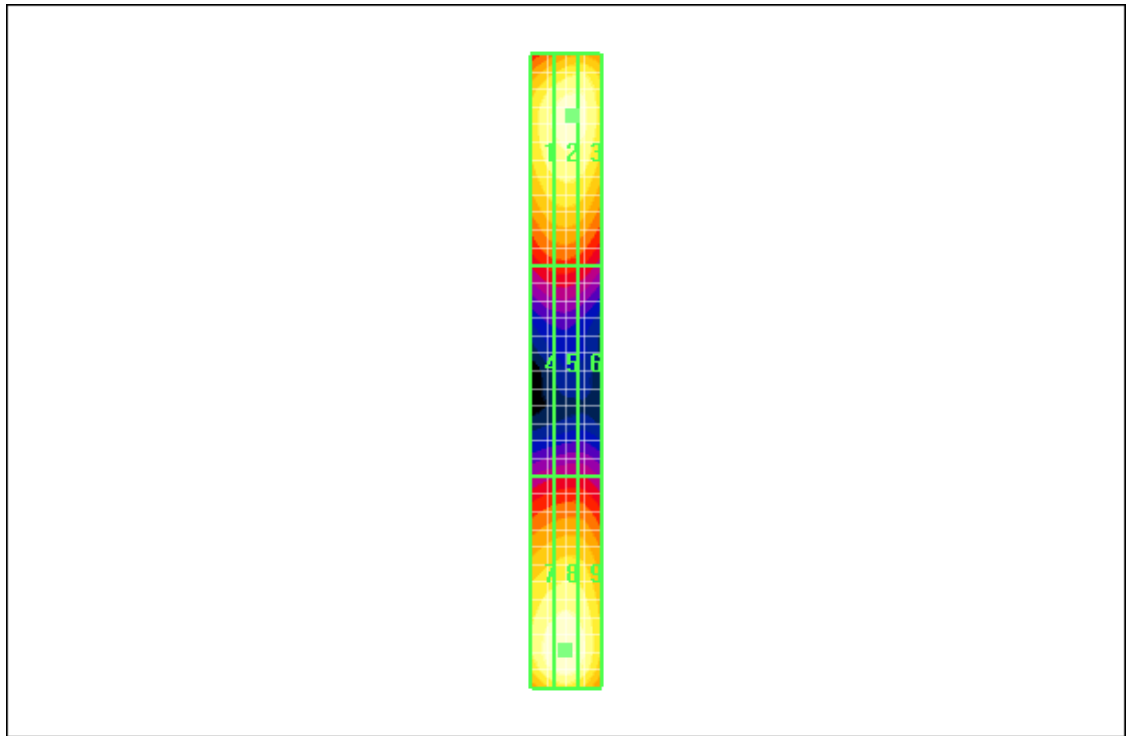
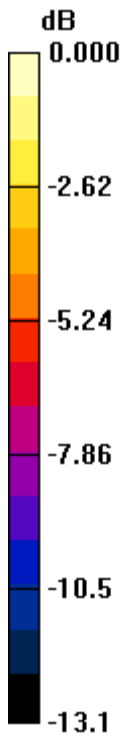
Grid 1	Grid 2	Grid 3
93.9 M4	97.9 M4	97.5 M4
Grid 4	Grid 5	Grid 6
53.7 M4	54.3 M4	52.5 M4
Grid 7	Grid 8	Grid 9
99.9 M4	102.3 M4	98.2 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 102.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		26 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 06/07/2009 1:52:10 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_835MHz_GSM_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF E Dipole

Communication System: GSM 850; Frequency: 835 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 36.4 V/m; Power Drift = -0.142 dB

Maximum value of Total (measured) = 55.9 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		27 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 56.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 36.4 V/m; Power Drift = -0.142 dB

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

Peak E-field in V/m

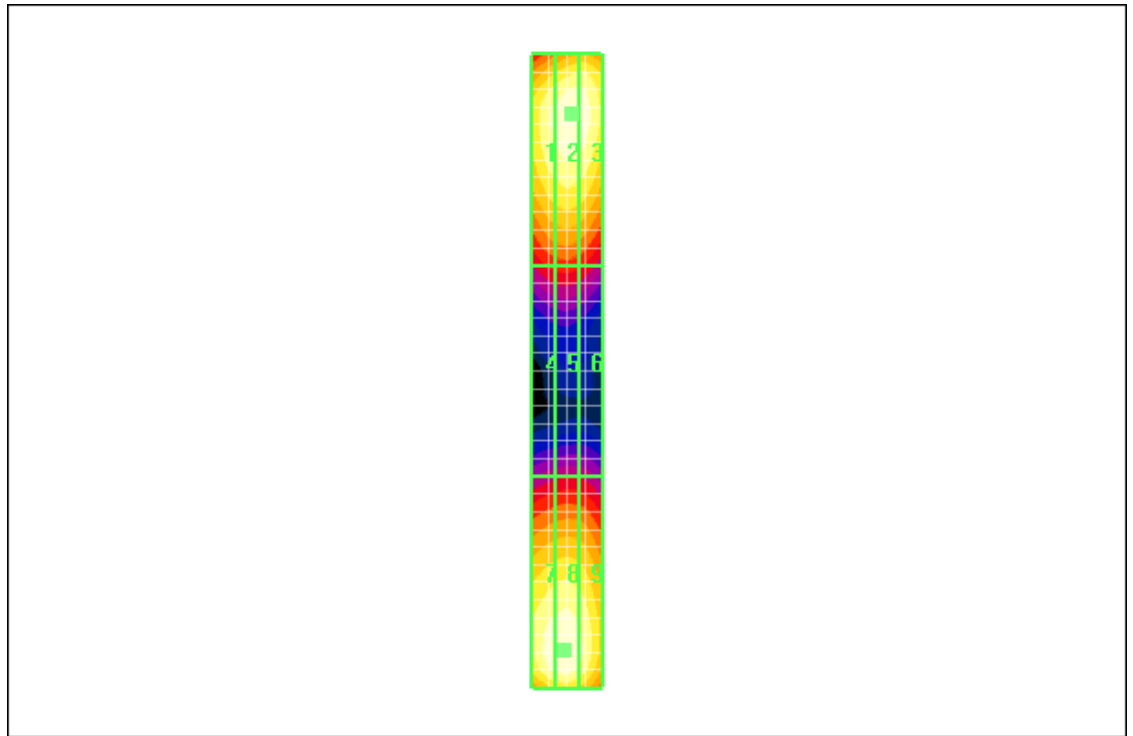
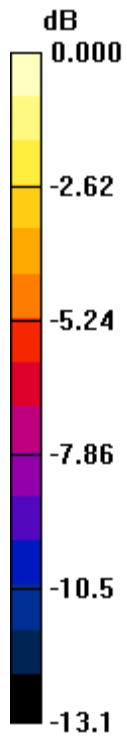
Grid 1	Grid 2	Grid 3
52.4 M4	55.2 M4	54.8 M4
Grid 4	Grid 5	Grid 6
29.2 M4	29.7 M4	28.7 M4
Grid 7	Grid 8	Grid 9
55.0 M4	56.2 M4	52.8 M4

Cursor:


Total = 56.2 V/m

E Category: M4

Location: 1, 79.5, 4.7 mm



0 dB = 56.2V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		29 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 10:06:33 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_835MHz_CW_WCDMA_mod.da4](#)

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

Program Name: HAC RF E Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 34.6 V/m; Power Drift = 0.012 dB

Maximum value of Total (measured) = 53.7 V/m

E Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 30 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 54.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 34.6 V/m; Power Drift = 0.012 dB

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

Peak E-field in V/m

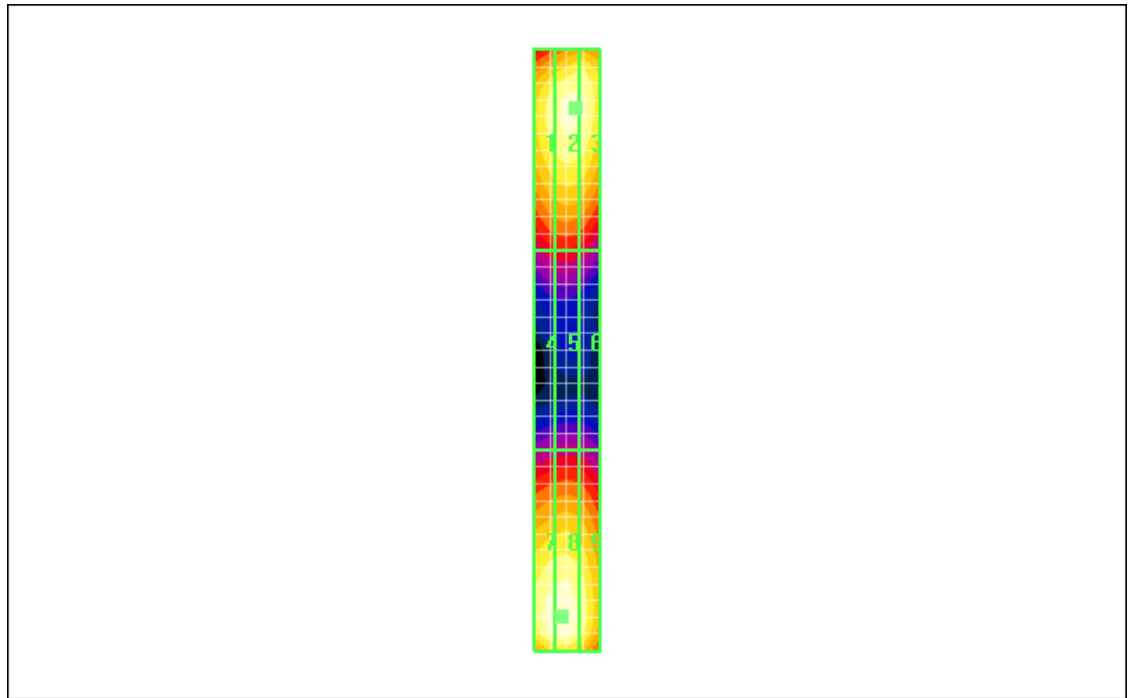
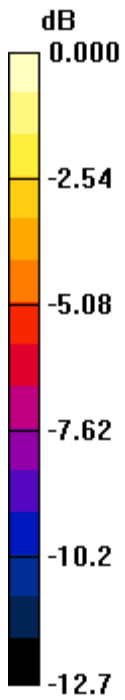
Grid 1 48.6 M4	Grid 2 51.3 M4	Grid 3 51.1 M4
Grid 4 27.1 M4	Grid 5 27.5 M4	Grid 6 26.6 M4
Grid 7 53.4 M4	Grid 8 54.2 M4	Grid 9 49.7 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 54.2V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		32 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 10:16:03 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_835MHz_AM80%_WCDMA.da4](#)

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

Program Name: HAC RF E Dipole

Communication System: AM; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 21.7 V/m; Power Drift = -0.014 dB

Maximum value of Total (measured) = 33.4 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		33 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 33.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 21.7 V/m; Power Drift = -0.014 dB

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

Peak E-field in V/m

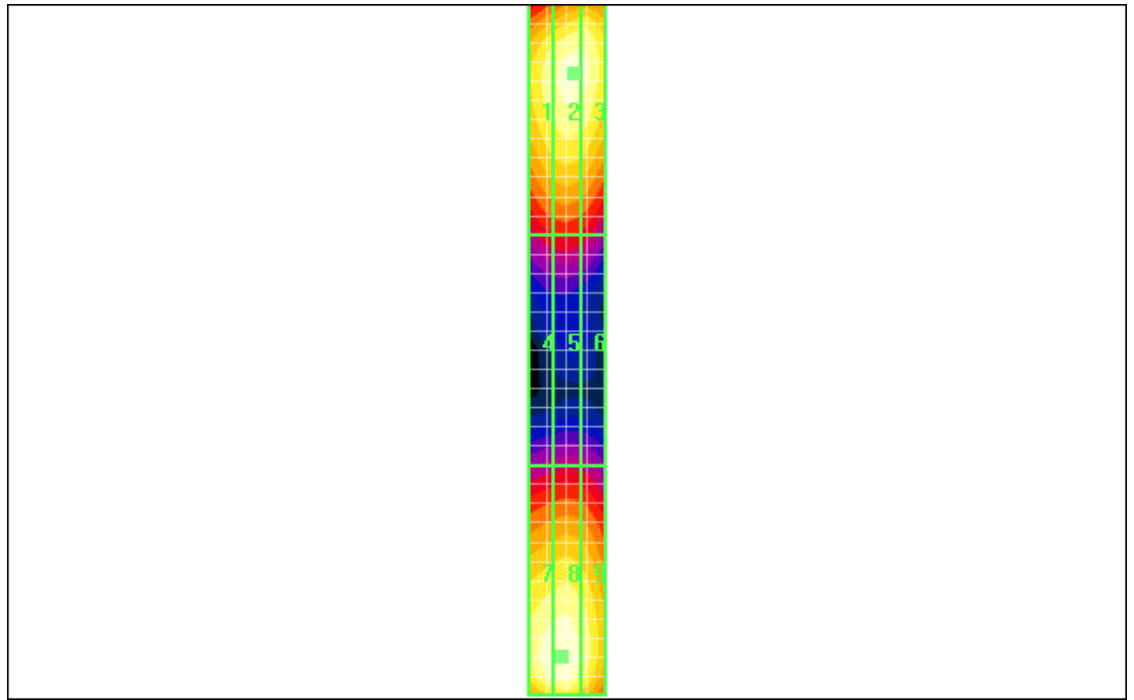
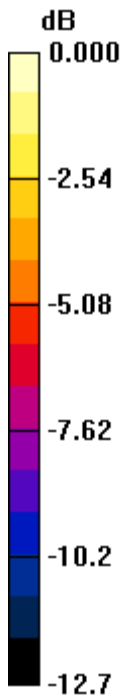
Grid 1	Grid 2	Grid 3
30.4 M4	32.1 M4	31.9 M4
Grid 4	Grid 5	Grid 6
17.1 M4	17.4 M4	16.8 M4
Grid 7	Grid 8	Grid 9
33.3 M4	33.8 M4	31.0 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 33.8V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		35 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 9:55:47 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_835MHz_WCDMA_mod.da4](#)

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

Program Name: HAC RF E Dipole

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):


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

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 36.8 V/m; Power Drift = -0.062 dB

Maximum value of Total (measured) = 56.4 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 36 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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 = 57.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 36.8 V/m; Power Drift = -0.062 dB

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

Peak E-field in V/m

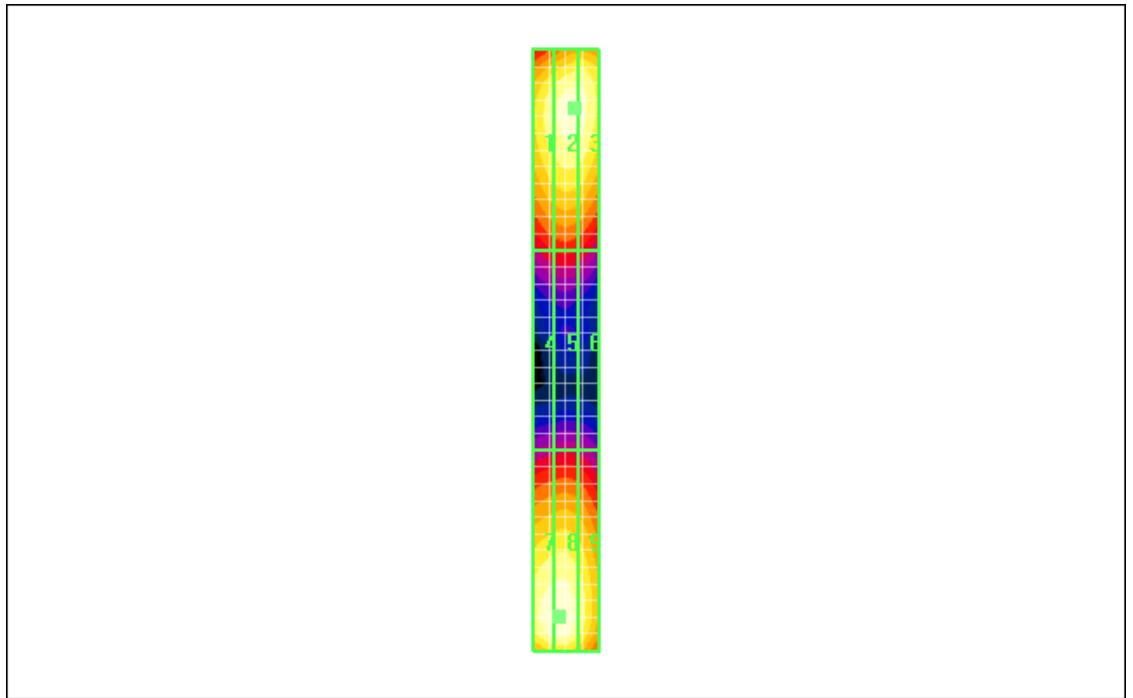
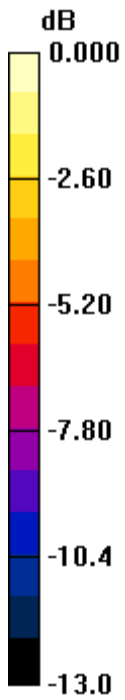
Grid 1 51.8 M4	Grid 2 55.0 M4	Grid 3 54.8 M4
Grid 4 29.0 M4	Grid 5 29.6 M4	Grid 6 28.8 M4
Grid 7 56.9 M4	Grid 8 57.3 M4	Grid 9 51.8 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 57.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		38 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 11/08/2009 9:21:32 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_CW1880_20.00dBm.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

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

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):


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

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 149.6 V/m; Power Drift = -0.059 dB

Maximum value of Total (measured) = 127.9 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 39 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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 = 129.5 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 149.6 V/m; Power Drift = -0.059 dB

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

Peak E-field in V/m

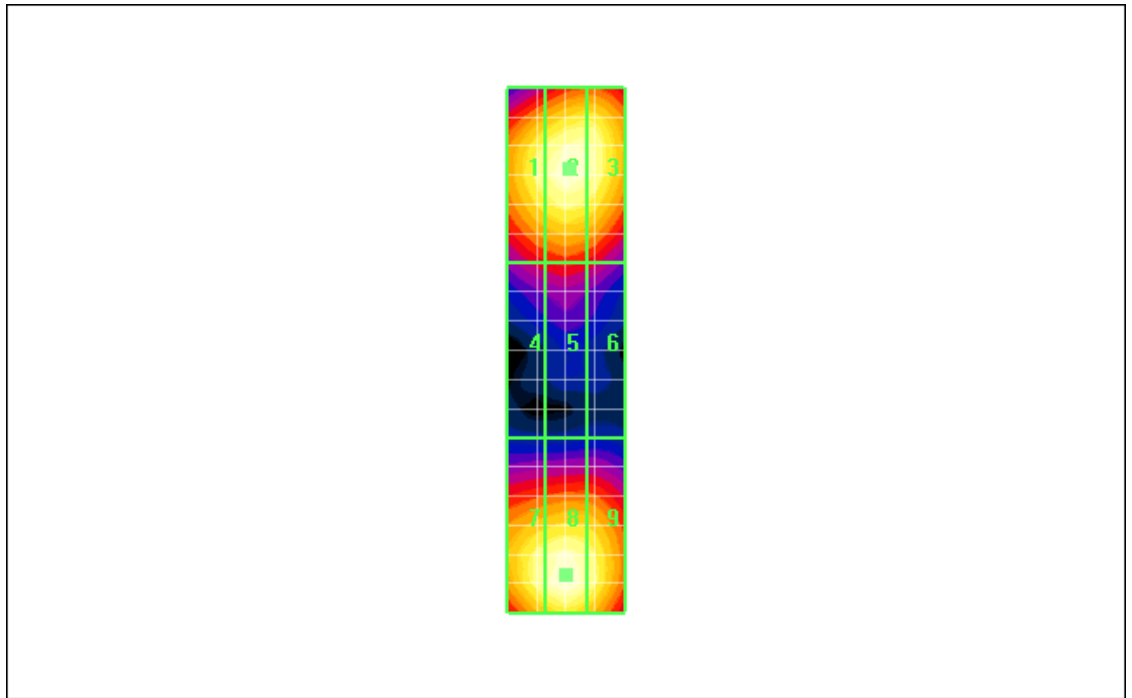
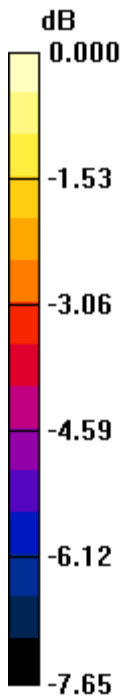
Grid 1 121.5 M2	Grid 2 126.5 M2	Grid 3 125.1 M2
Grid 4 85.1 M3	Grid 5 88.0 M3	Grid 6 84.9 M3
Grid 7 125.0 M2	Grid 8 129.5 M2	Grid 9 123.9 M2

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 129.5V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		41 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 03/07/2009 11:15:10 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_1880MHz_CW.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

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

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 143.7 V/m; Power Drift = 0.004 dB

Maximum value of Total (measured) = 126.1 V/m

E Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 42 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 128.4 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 143.7 V/m; Power Drift = 0.004 dB

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

Peak E-field in V/m

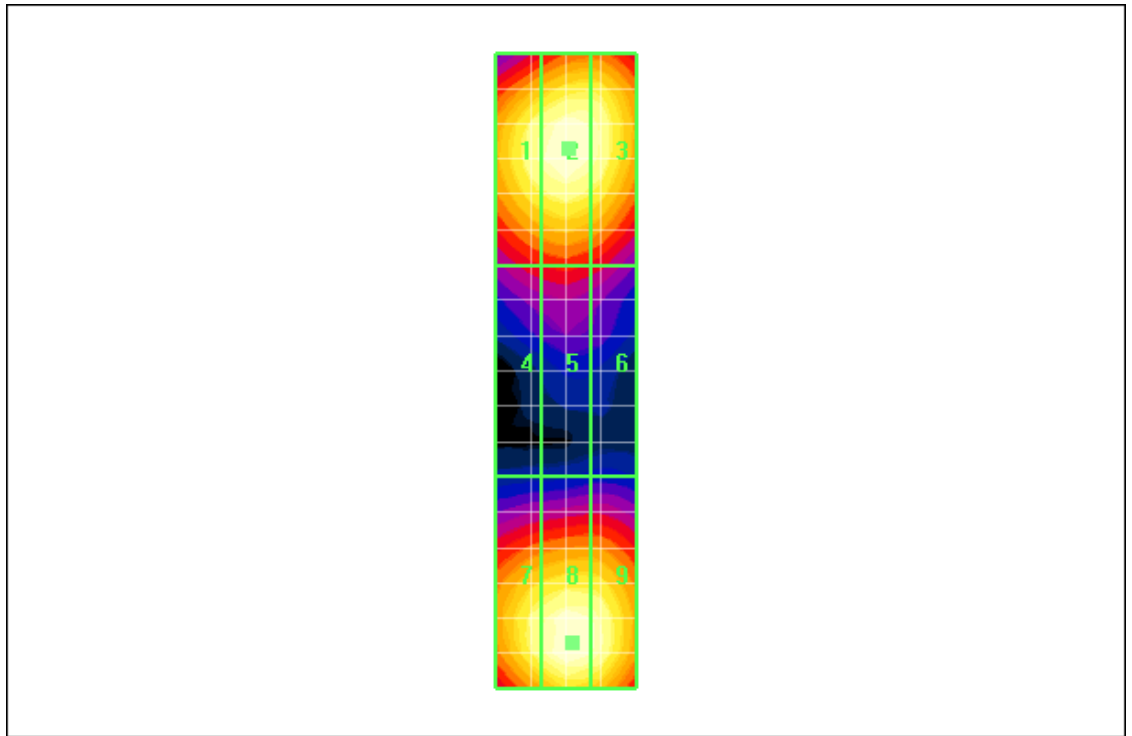
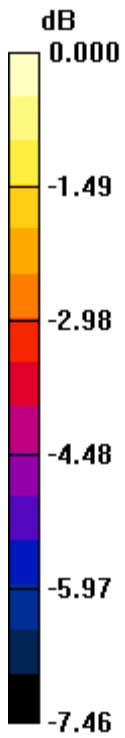
Grid 1 122.6 M2	Grid 2 126.3 M2	Grid 3 124.1 M2
Grid 4 86.4 M3	Grid 5 88.5 M3	Grid 6 85.4 M3
Grid 7 121.8 M2	Grid 8 128.4 M2	Grid 9 126.4 M2

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 128.4V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		44 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 06/07/2009 1:23:02 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_1880MHz_CW_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

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

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 111.8 V/m; Power Drift = -0.011 dB

Maximum value of Total (measured) = 98.3 V/m

E Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 45 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 100.0 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 111.8 V/m; Power Drift = -0.011 dB

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

Peak E-field in V/m

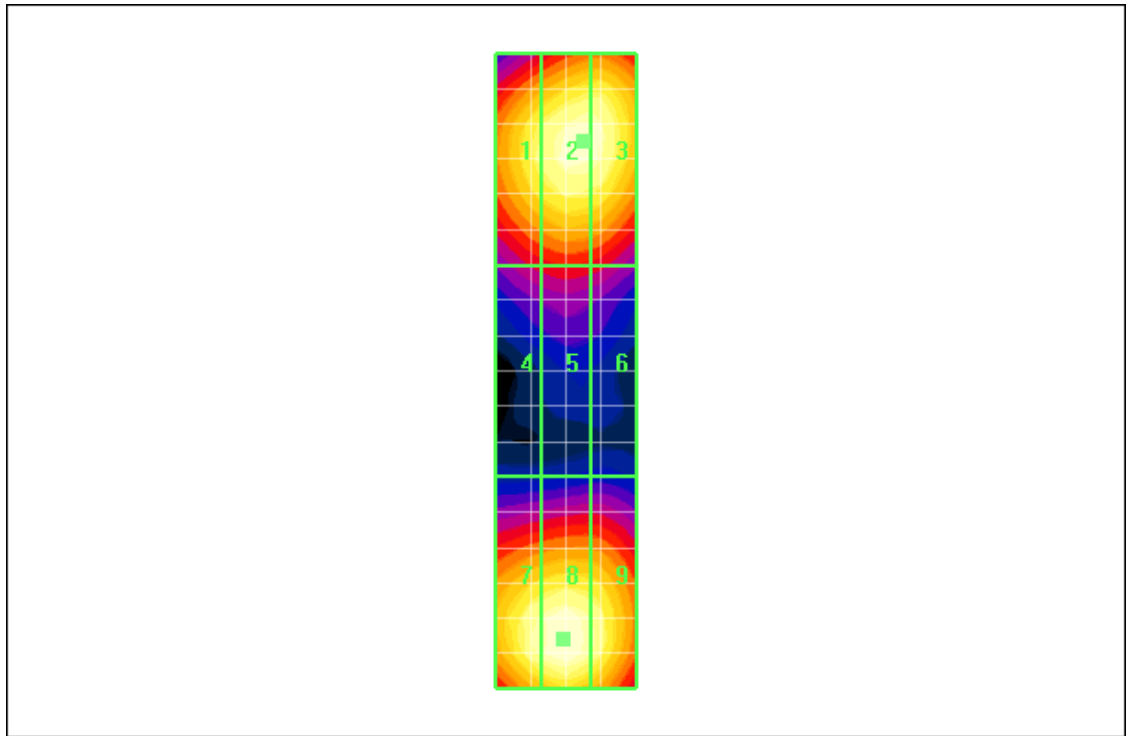
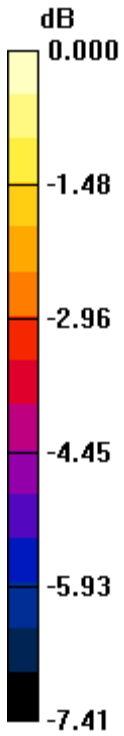
Grid 1	Grid 2	Grid 3
91.9 M3	97.3 M3	97.1 M3
Grid 4	Grid 5	Grid 6
65.6 M3	67.8 M3	66.5 M3

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 100.0V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		47 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 06/07/2009 1:28:37 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_1880MHz_AM80%.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

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

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 70.9 V/m; Power Drift = 0.028 dB

Maximum value of Total (measured) = 62.5 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		48 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 63.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 70.9 V/m; Power Drift = 0.028 dB

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

Peak E-field in V/m

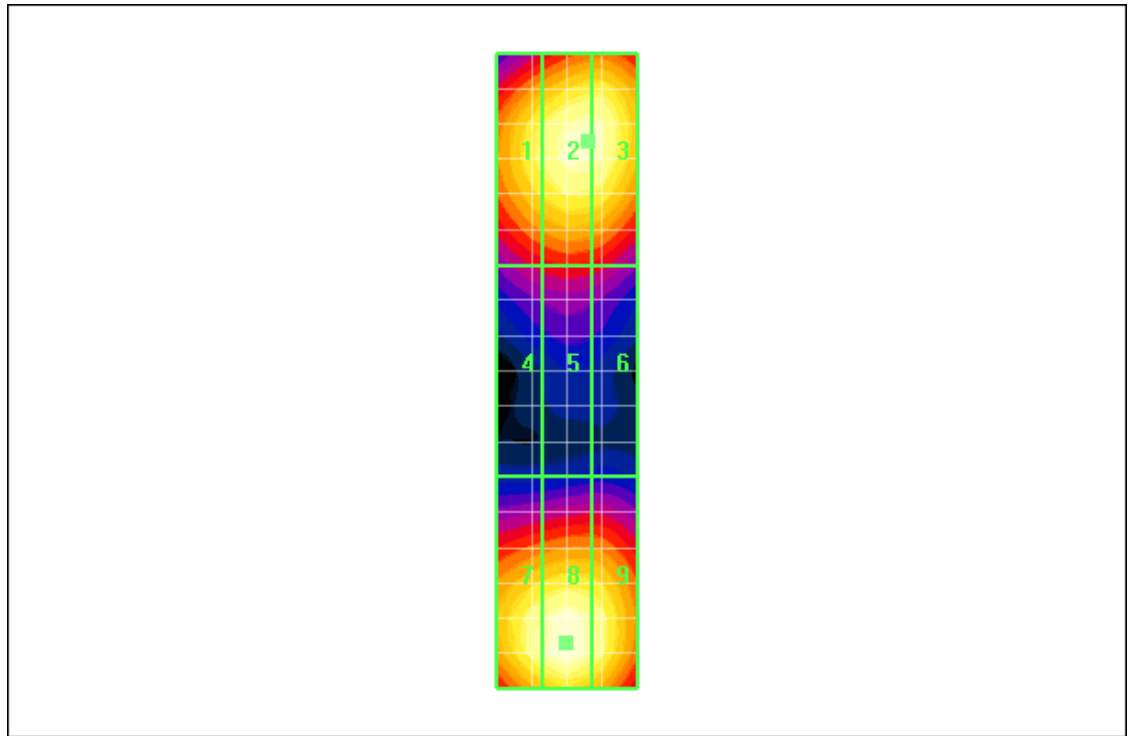
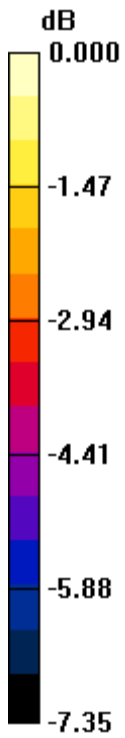
Grid 1	Grid 2	Grid 3
58.3 M4	61.8 M4	61.7 M4
Grid 4	Grid 5	Grid 6
41.8 M4	43.2 M4	42.5 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 63.6V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		50 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 06/07/2009 1:07:30 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_1880MHz_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.2 V/m; Power Drift = -0.071 dB

Maximum value of Total (measured) = 35.3 V/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		51 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 35.9 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.2 V/m; Power Drift = -0.071 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
32.3 M4	34.2 M4	34.1 M4
Grid 4	Grid 5	Grid 6
22.6 M4	23.5 M4	22.9 M4
Grid 7	Grid 8	Grid 9
34.7 M4	35.9 M4	34.3 M4

Cursor:

Total = 35.9 V/m

E Category: M4

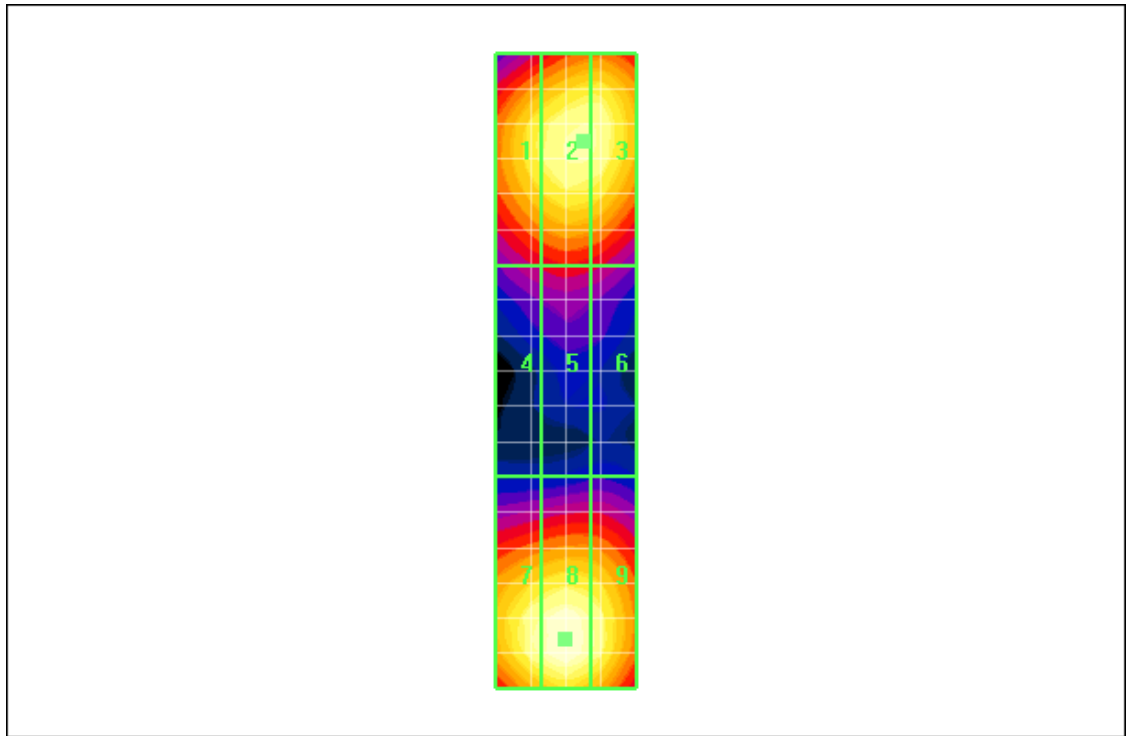
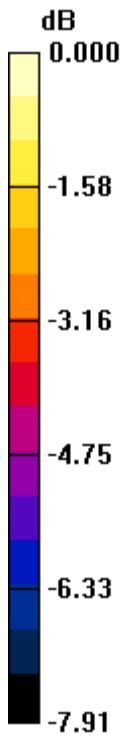
Location: 0, 38, 4.2 mm

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 35.9V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		53 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 9:39:51 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_1880MHz_CW_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

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

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 44.0 V/m; Power Drift = 0.000 dB

Maximum value of Total (measured) = 38.5 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		54 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 39.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 44.0 V/m; Power Drift = 0.000 dB

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

Peak E-field in V/m

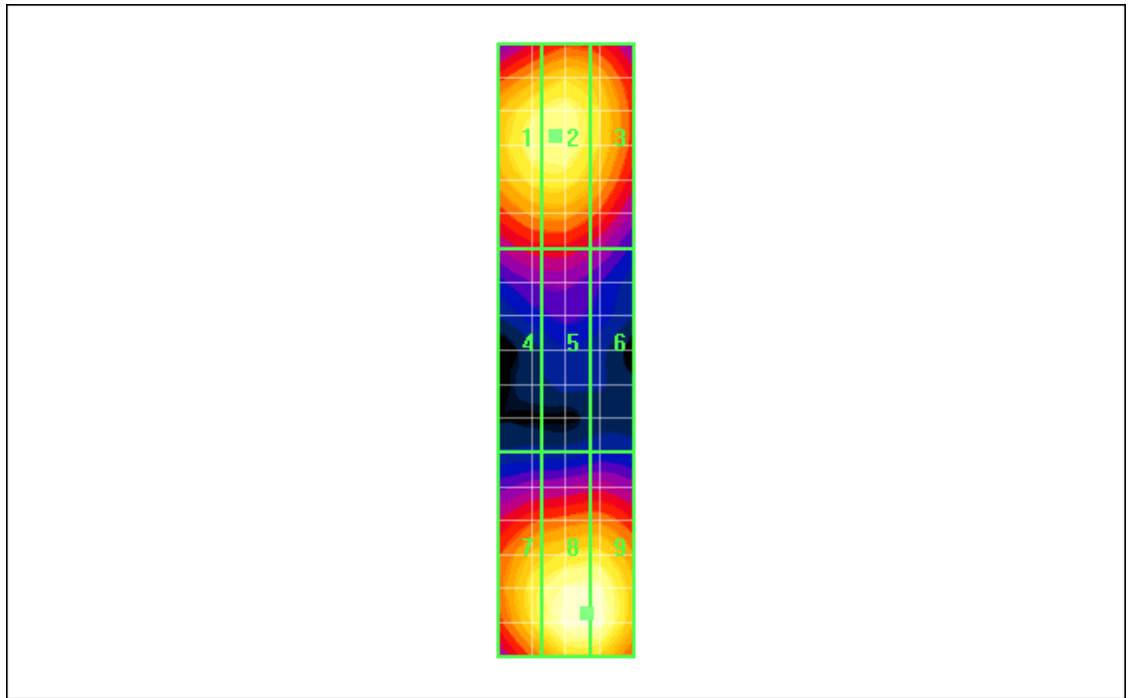
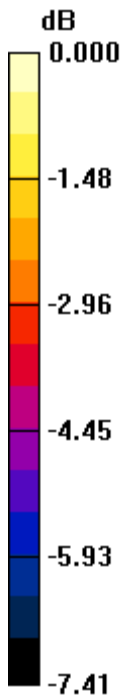
Grid 1	Grid 2	Grid 3
37.0 M4	37.2 M4	35.2 M4
Grid 4	Grid 5	Grid 6
26.4 M4	26.5 M4	24.9 M4
Grid 7	Grid 8	Grid 9
36.5 M4	39.8 M4	39.8 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 39.8V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		56 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 9:45:40 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_1880MHz_AM80%_WCDMA.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

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

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 28.1 V/m; Power Drift = 0.083 dB

Maximum value of Total (measured) = 24.7 V/m

E Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 57 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 25.5 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 28.1 V/m; Power Drift = 0.083 dB

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

Peak E-field in V/m

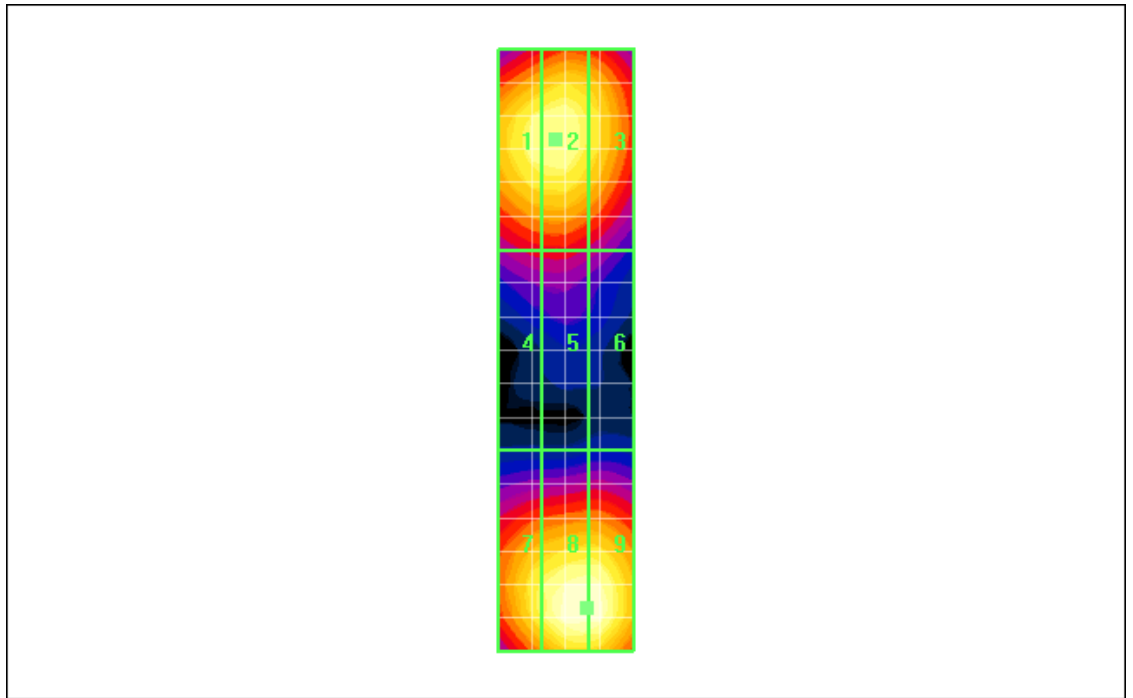
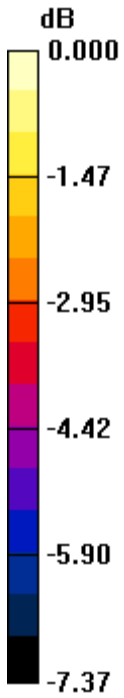
Grid 1 23.8 M4	Grid 2 23.9 M4	Grid 3 22.7 M4
Grid 4 16.9 M4	Grid 5 17.0 M4	Grid 6 16.0 M4
Grid 7 23.4 M4	Grid 8 25.5 M4	Grid 9 25.4 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 25.5V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		59 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 9:12:23 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_1880MHz_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 22.0 V/m; Power Drift = -0.011 dB

Maximum value of Total (measured) = 43.1 V/m

H Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 60 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 43.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 22.0 V/m; Power Drift = -0.011 dB

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

Peak E-field in V/m

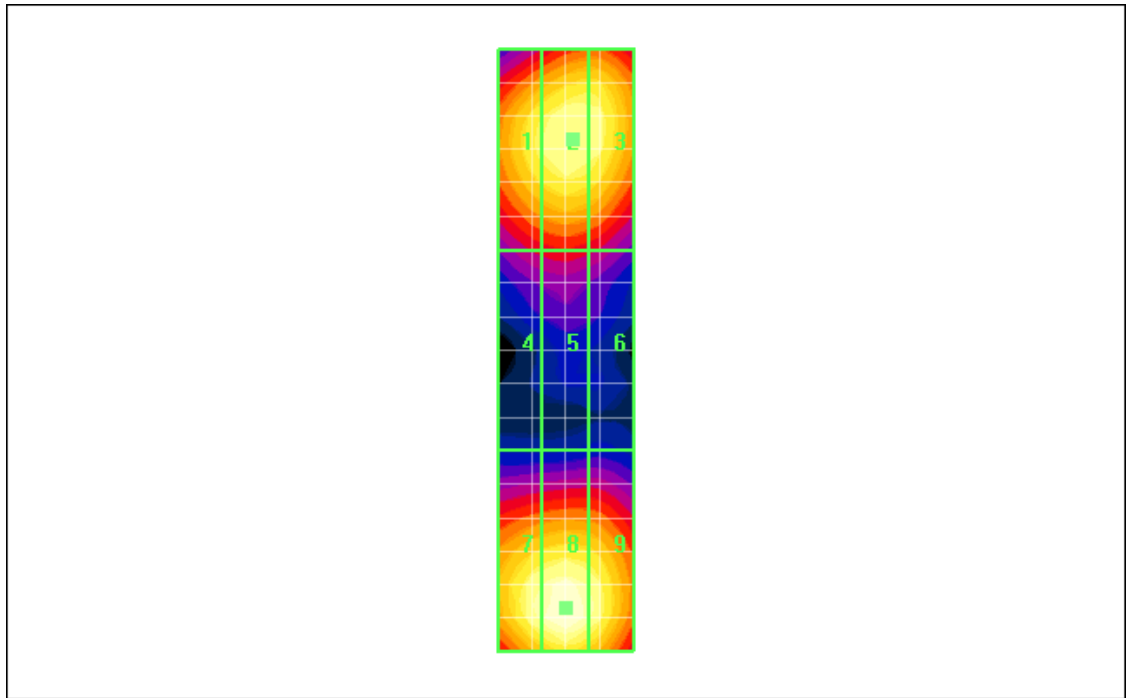
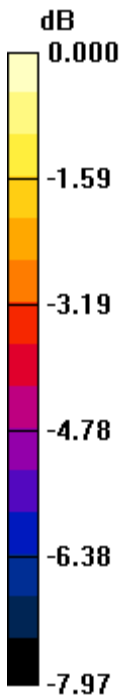
Grid 1 39.5 M4	Grid 2 41.0 M4	Grid 3 40.6 M4
Grid 4 27.7 M4	Grid 5 28.4 M4	Grid 6 27.4 M4
Grid 7 42.2 M4	Grid 8 43.6 M4	Grid 9 41.7 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 43.6V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		62 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 11/08/2009 10:02:03 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_CW835_20.00dBm.da4](#)

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

Program Name: HAC RF H3DV6 Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x13x1):

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.475 A/m; Power Drift = 0.081 dB

Maximum value of Total (measured) = 0.455 A/m

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x121x1):

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 63 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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

Maximum value of peak Total field = 0.455 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.475 A/m; Power Drift = 0.081 dB

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

Peak H-field in A/m

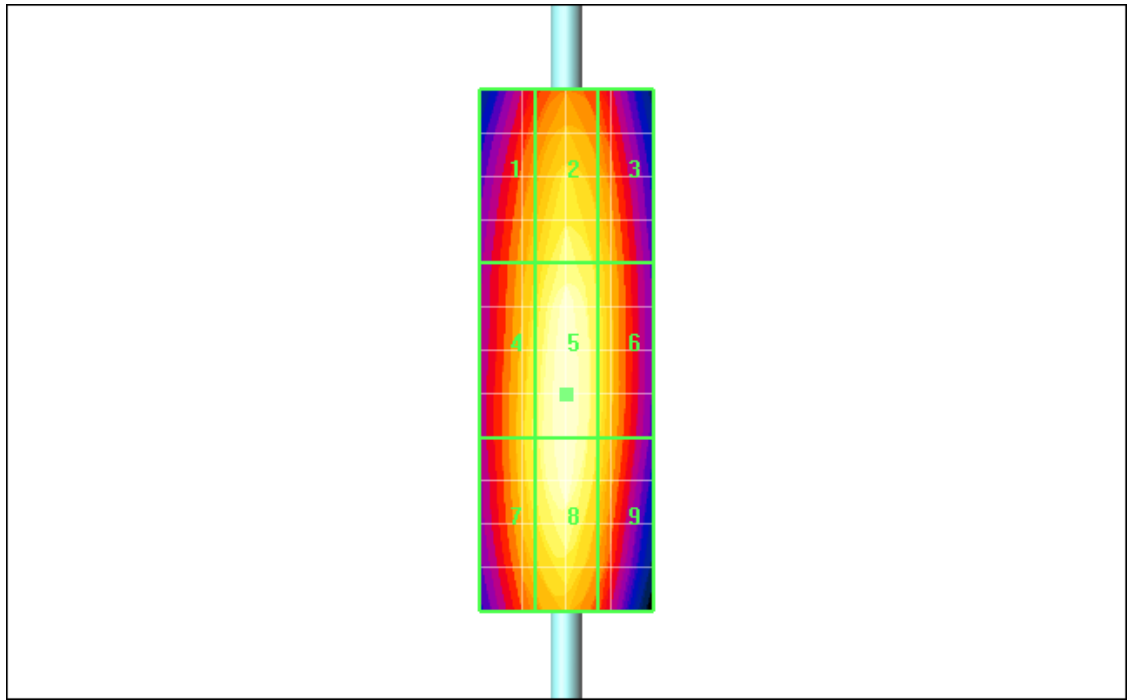
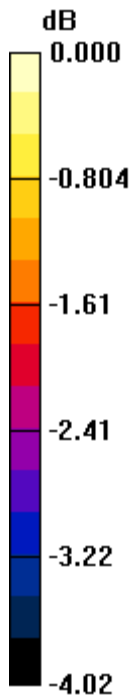
Grid 1 0.416 M4	Grid 2 0.435 M4	Grid 3 0.423 M4
Grid 4 0.433 M4	Grid 5 0.455 M4	Grid 6 0.432 M4
Grid 7 0.433 M4	Grid 8 0.454 M4	Grid 9 0.428 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.455A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		65 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 03/07/2009 11:53:55 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_835MHz_CW.da4](#)

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

Program Name: HAC RF H3DV6 Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.490 A/m; Power Drift = 0.066 dB

Maximum value of Total (measured) = 0.463 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		66 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 0.463 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.490 A/m; Power Drift = 0.066 dB

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

Peak H-field in A/m

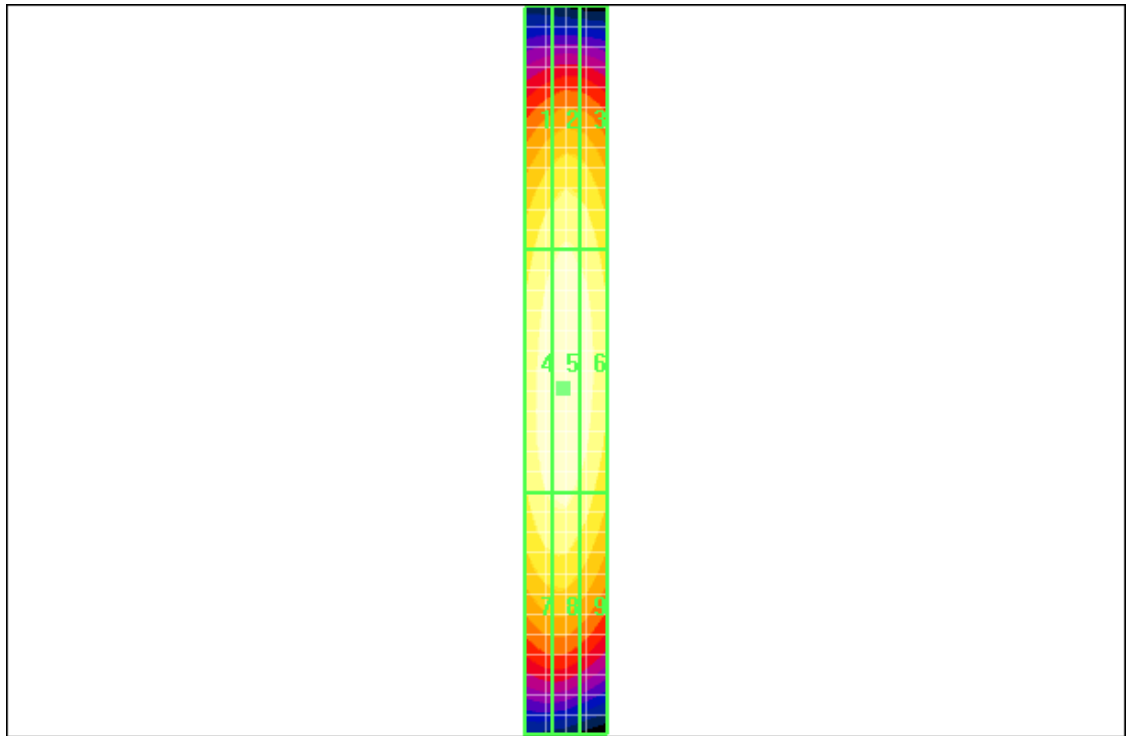
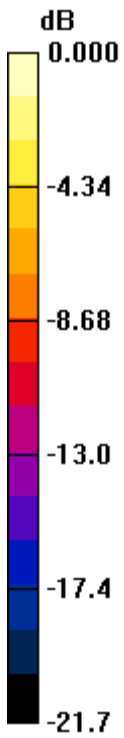
Grid 1	Grid 2	Grid 3
0.381 M4	0.400 M4	0.384 M4
Grid 4	Grid 5	Grid 6
0.444 M4	0.463 M4	0.438 M4
Grid 7	Grid 8	Grid 9
0.403 M4	0.410 M4	0.377 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.463A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		68 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 20/08/2009 12:30:34 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_835MHz_CW_GSM_mod.da4](#)

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

Program Name: HAC RF H3DV6 Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.463 A/m; Power Drift = -0.039 dB

Maximum value of Total (measured) = 0.434 A/m

H Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 69 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 0.435 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.463 A/m; Power Drift = -0.039 dB

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

Peak H-field in A/m

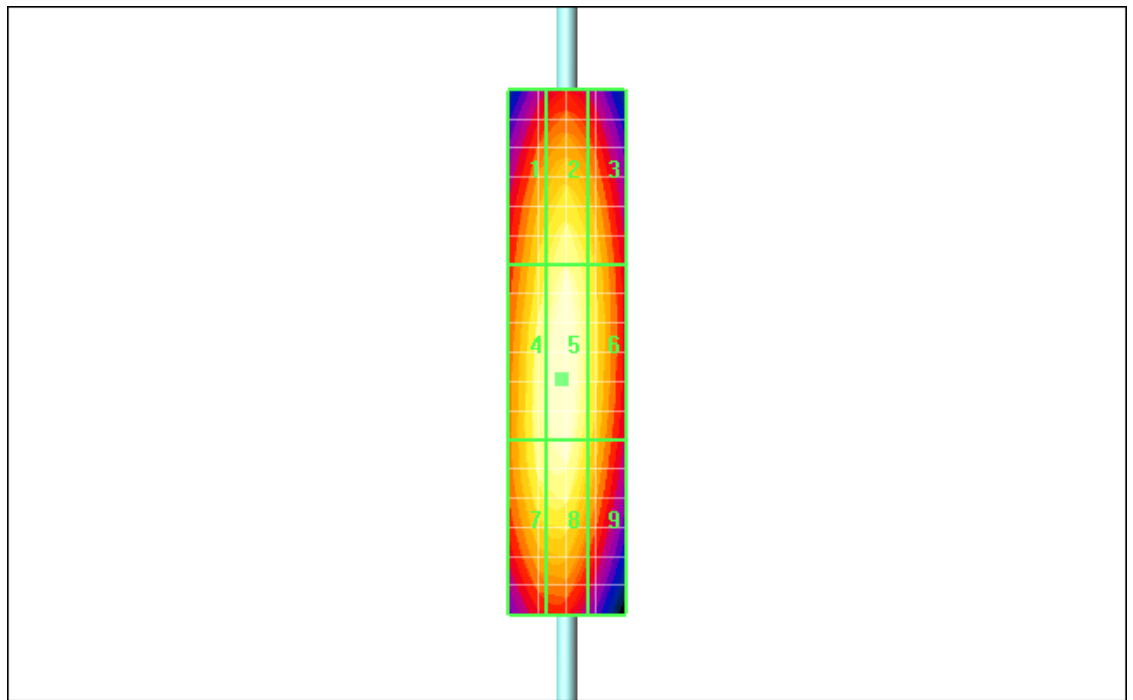
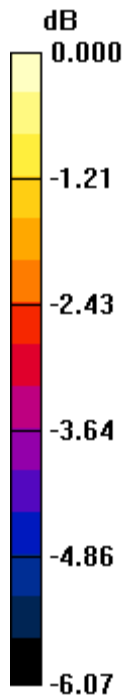
Grid 1 0.397 M4	Grid 2 0.414 M4	Grid 3 0.395 M4
Grid 4 0.423 M4	Grid 5 0.435 M4	Grid 6 0.405 M4
Grid 7 0.419 M4	Grid 8 0.428 M4	Grid 9 0.391 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.435A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		71 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 20/08/2009 12:35:15 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_835MHz_AM80%_mod.da4](#)

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

Program Name: HAC RF H3DV6 Dipole

Communication System: AM 80%; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.300 A/m; Power Drift = 0.005 dB

Maximum value of Total (measured) = 0.283 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		72 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 0.284 A/m

Probe Modulation Factor = 1.00

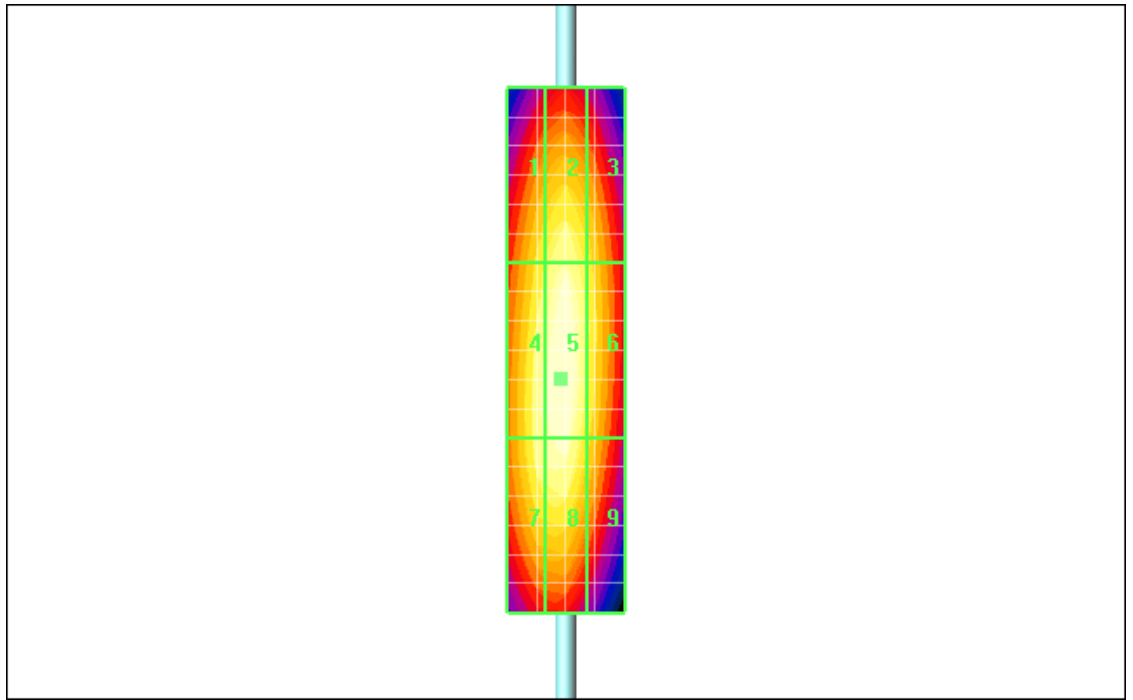
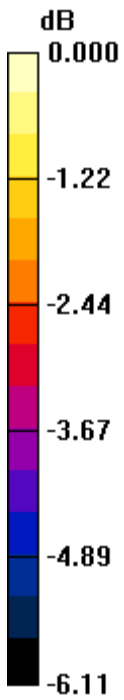
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.300 A/m; Power Drift = 0.005 dB


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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.260 M4	0.270 M4	0.256 M4
Grid 4	Grid 5	Grid 6
0.276 M4	0.284 M4	0.263 M4
Grid 7	Grid 8	Grid 9
0.274 M4	0.279 M4	0.254 M4



0 dB = 0.284A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		74 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 20/08/2009 11:45:42 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_835MHz_GSM_mod.da4](#)

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

Program Name: HAC RF H3DV6 Dipole

Communication System: GSM 850; Frequency: 835 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.168 A/m; Power Drift = 0.139 dB

Maximum value of Total (measured) = 0.156 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		75 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 0.157 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.168 A/m; Power Drift = 0.139 dB

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

Peak H-field in A/m

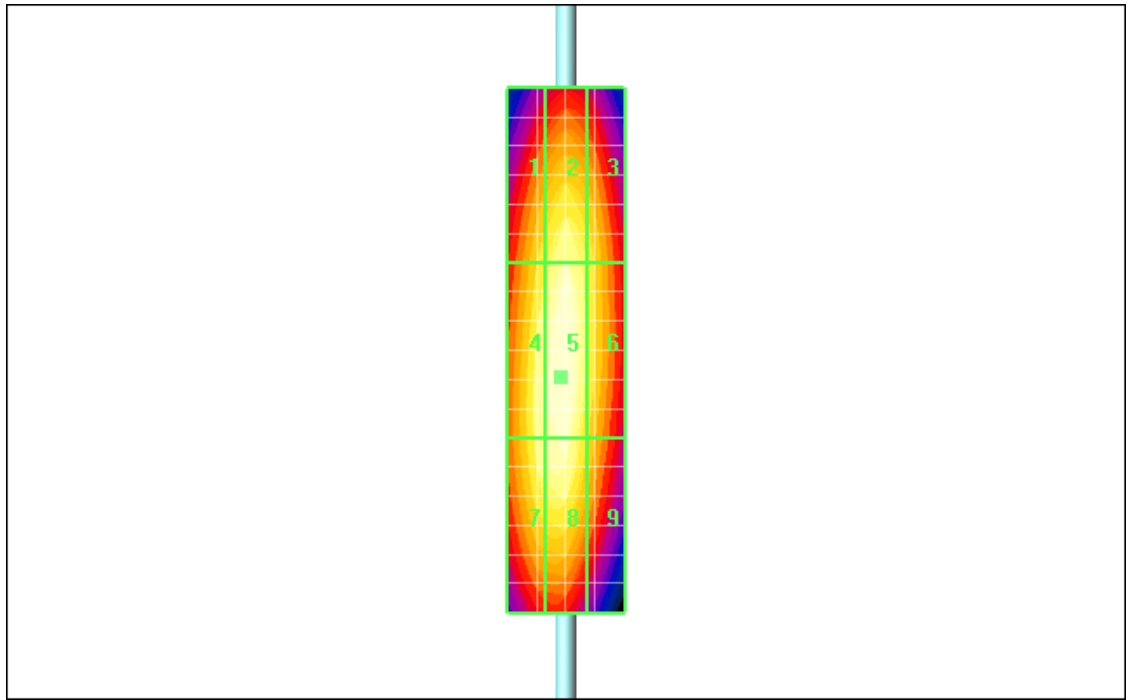
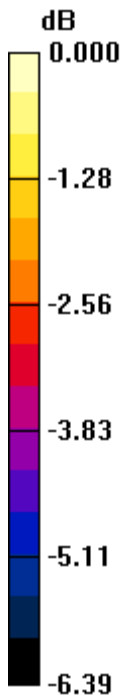
Grid 1	Grid 2	Grid 3
0.142 M4	0.149 M4	0.142 M4
Grid 4	Grid 5	Grid 6
0.152 M4	0.157 M4	0.145 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.157A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		77 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 20/08/2009 12:41:18 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_835MHz_CW_WCDMA_mod.da4](#)

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

Program Name: HAC RF H3DV6 Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.187 A/m; Power Drift = -0.006 dB

Maximum value of Total (measured) = 0.176 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		78 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 0.177 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.187 A/m; Power Drift = -0.006 dB

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

Peak H-field in A/m

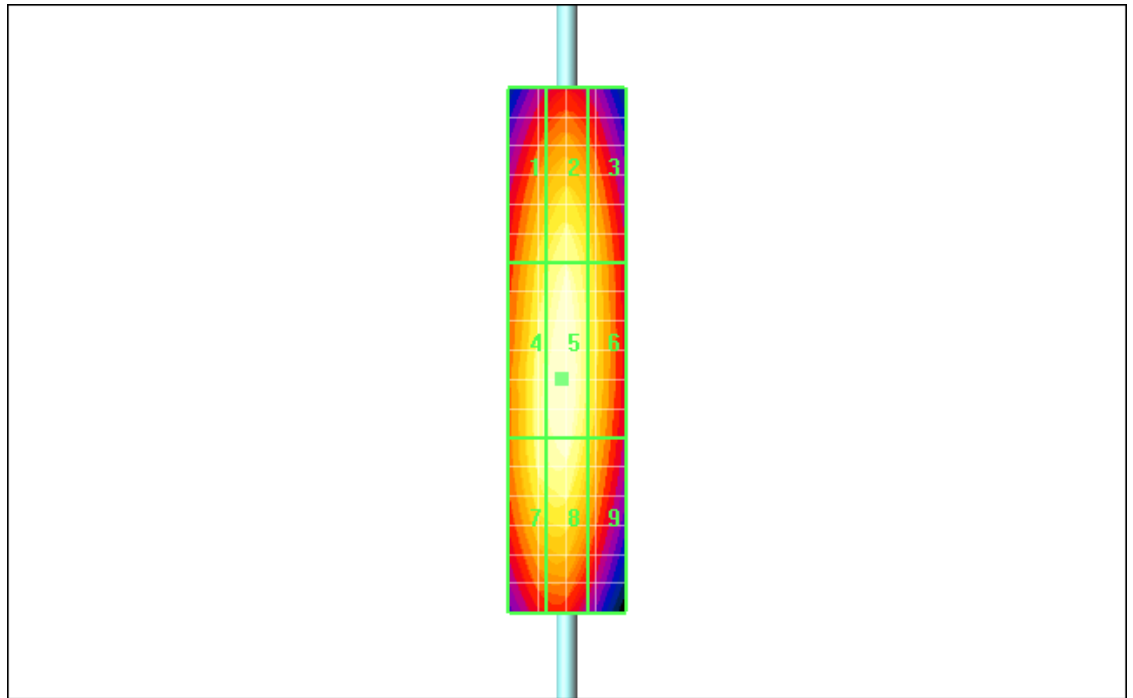
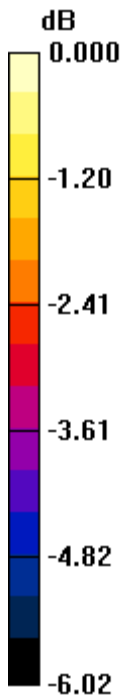
Grid 1	Grid 2	Grid 3
0.162 M4	0.169 M4	0.160 M4
Grid 4	Grid 5	Grid 6
0.172 M4	0.177 M4	0.164 M4
Grid 7	Grid 8	Grid 9
0.171 M4	0.174 M4	0.159 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.177A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		80 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 20/08/2009 12:50:59 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_835MHz_AM80%_WCDMA_mod.da4](#)

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

Program Name: HAC RF H3DV6 Dipole

Communication System: AM 80%; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.119 A/m; Power Drift = 0.084 dB

Maximum value of Total (measured) = 0.113 A/m

H Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 81 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 0.113 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.119 A/m; Power Drift = 0.084 dB

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

Peak H-field in A/m

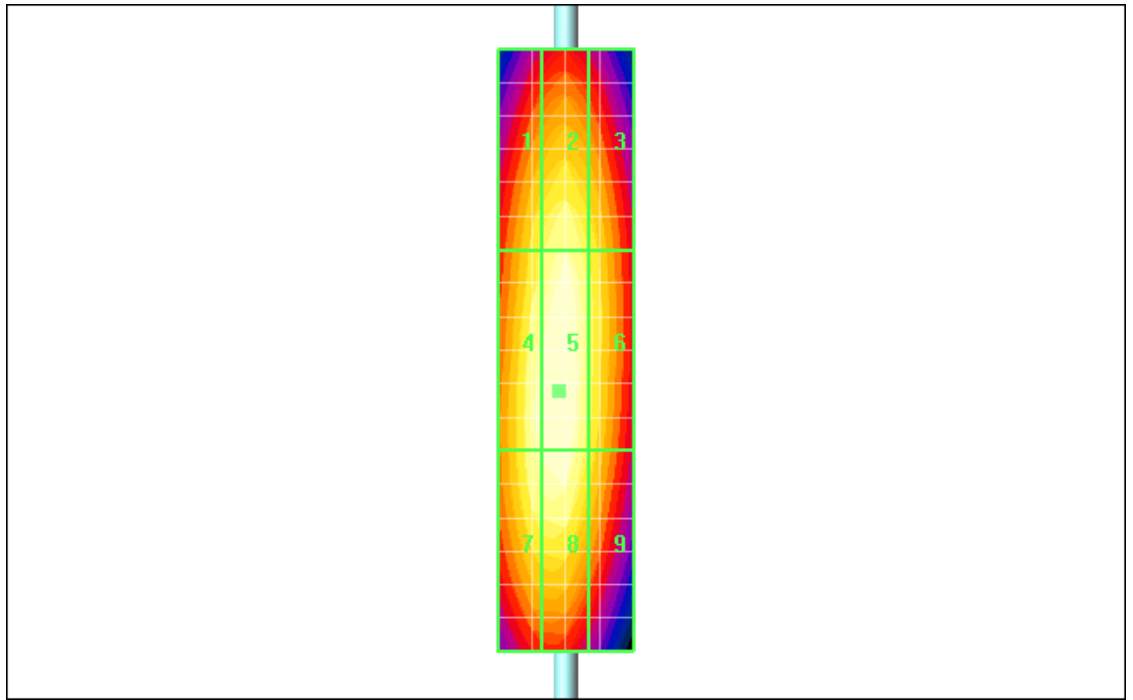
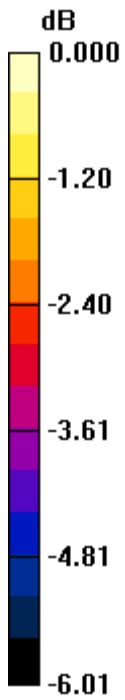
Grid 1 0.105 M4	Grid 2 0.108 M4	Grid 3 0.103 M4
Grid 4 0.111 M4	Grid 5 0.113 M4	Grid 6 0.105 M4
Grid 7 0.110 M4	Grid 8 0.112 M4	Grid 9 0.102 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.113A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		83 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 20/08/2009 12:05:17 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_835MHz_WCDMA_mod.da4](#)

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

Program Name: HAC RF H3DV6 Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.169 A/m; Power Drift = 0.013 dB

Maximum value of Total (measured) = 0.159 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		84 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 0.160 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.169 A/m; Power Drift = 0.013 dB

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

Peak H-field in A/m

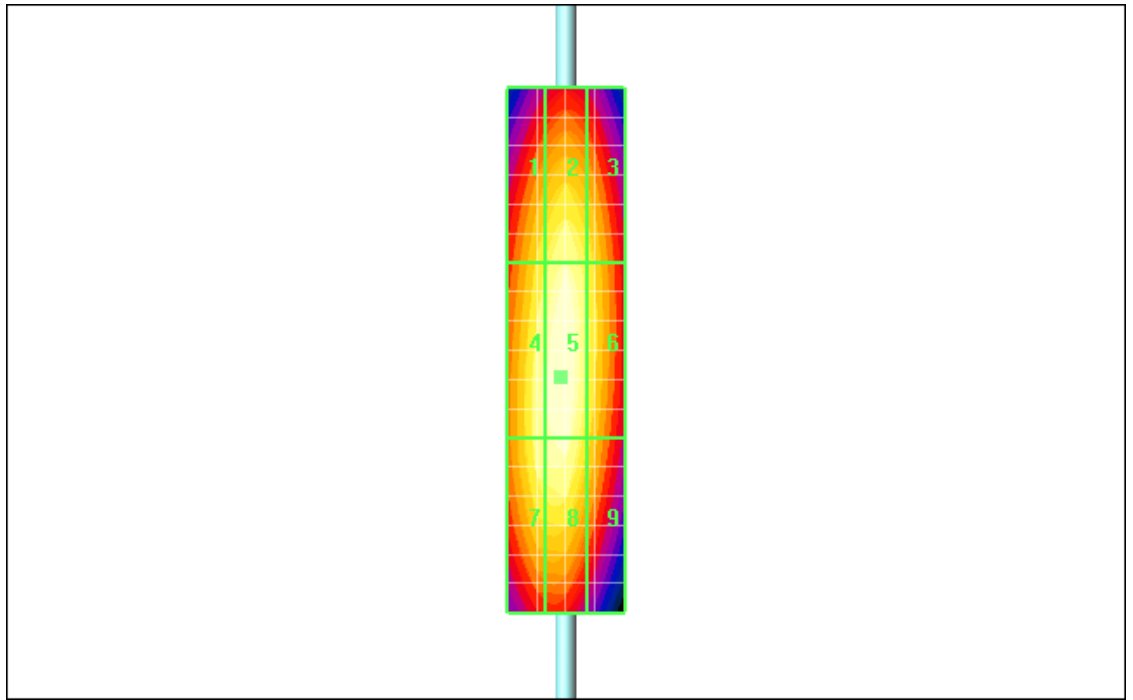
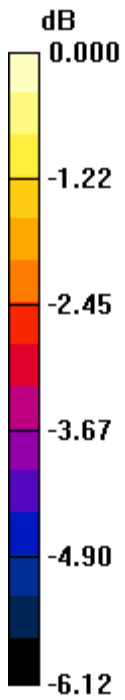
Grid 1	Grid 2	Grid 3
0.146 M4	0.152 M4	0.145 M4
Grid 4	Grid 5	Grid 6
0.156 M4	0.160 M4	0.148 M4
Grid 7	Grid 8	Grid 9
0.154 M4	0.157 M4	0.143 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.160A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		86 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 11/08/2009 11:47:11 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_CW1880_20.00dBm.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x13x1):

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.493 A/m; Power Drift = -0.077 dB

Maximum value of Total (measured) = 0.451 A/m

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x121x1):

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 87 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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

Maximum value of peak Total field = 0.451 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.493 A/m; Power Drift = -0.077 dB

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

Peak H-field in A/m

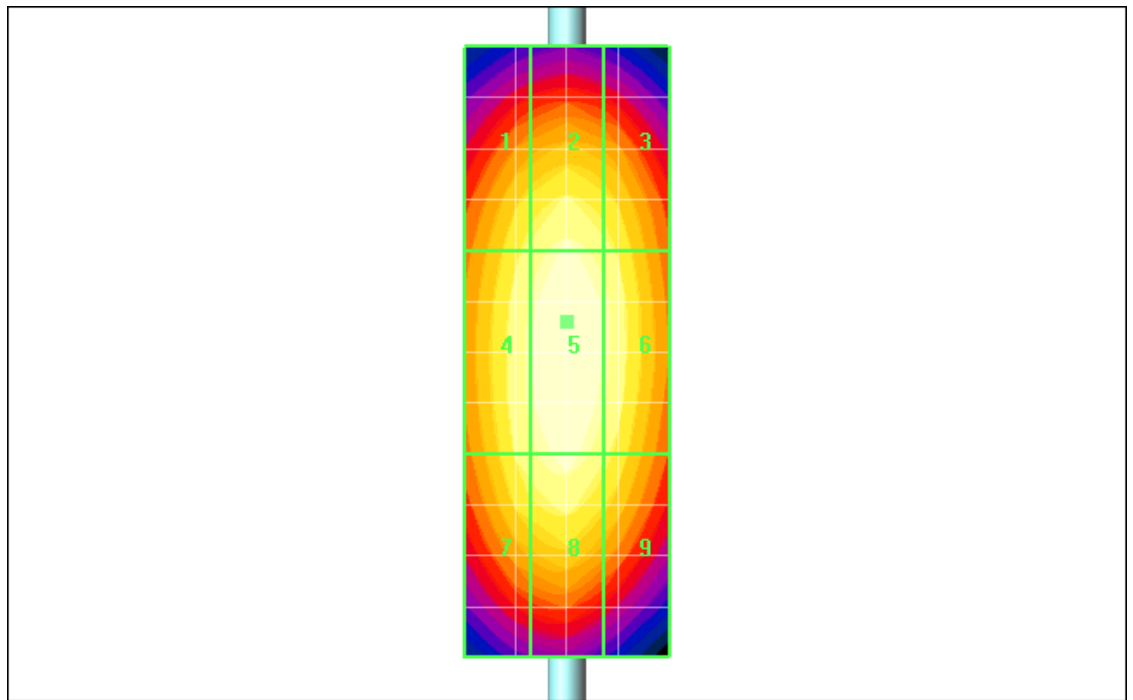
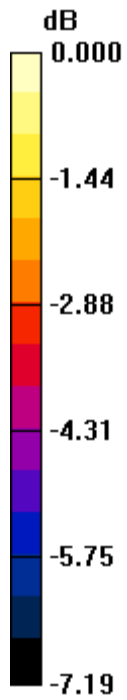
Grid 1 0.415 M2	Grid 2 0.433 M2	Grid 3 0.418 M2
Grid 4 0.433 M2	Grid 5 0.451 M2	Grid 6 0.435 M2
Grid 7 0.422 M2	Grid 8 0.436 M2	Grid 9 0.415 M2

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.451A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		89 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 03/07/2009 11:34:22 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_1880MHz_CW.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.474 A/m; Power Drift = -0.032 dB

Maximum value of Total (measured) = 0.444 A/m

H Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 90 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 0.444 A/m

Probe Modulation Factor = 1.00

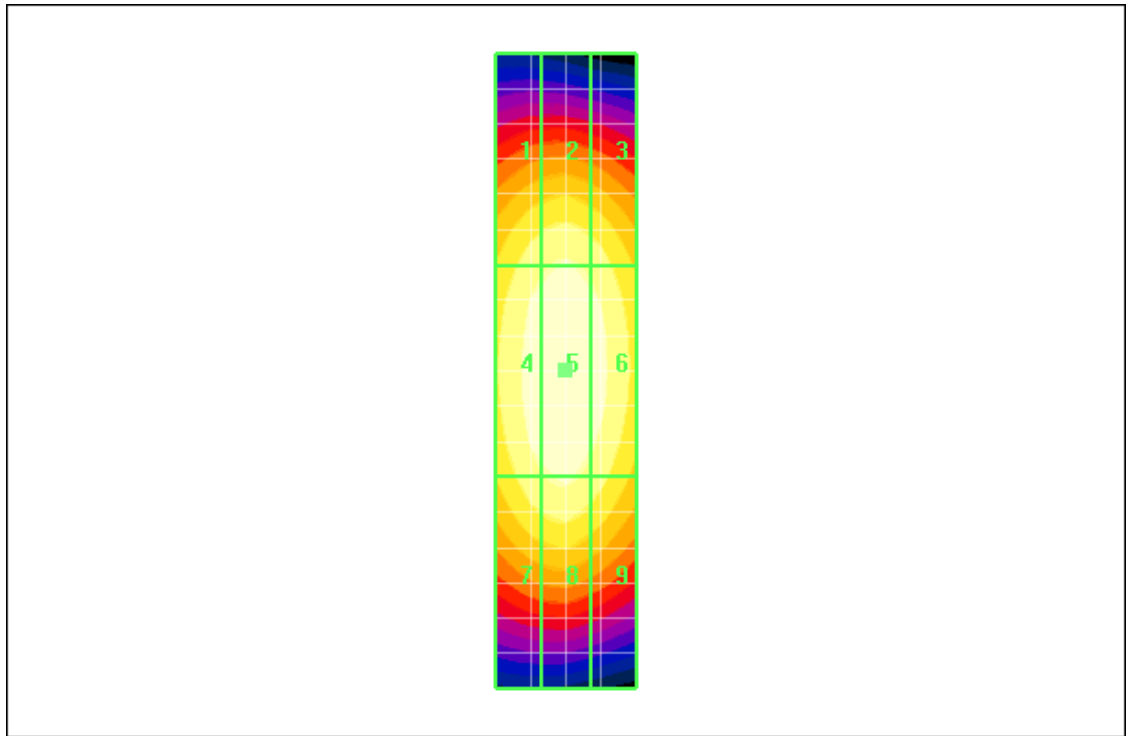
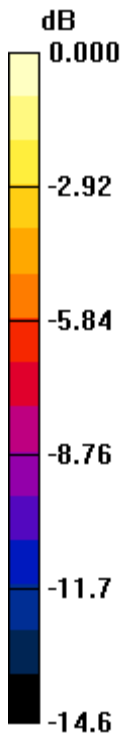
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.474 A/m; Power Drift = -0.032 dB


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

Peak H-field in A/m

Grid 1 0.389 M2	Grid 2 0.403 M2	Grid 3 0.386 M2
Grid 4 0.427 M2	Grid 5 0.444 M2	Grid 6 0.424 M2
Grid 7 0.393 M2	Grid 8 0.406 M2	Grid 9 0.382 M2



0 dB = 0.444A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		92 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 20/08/2009 2:28:28 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_1880MHz_CW_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.376 A/m; Power Drift = 0.000 dB

Maximum value of Total (measured) = 0.355 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		93 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 0.355 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.376 A/m; Power Drift = 0.000 dB

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

Peak H-field in A/m

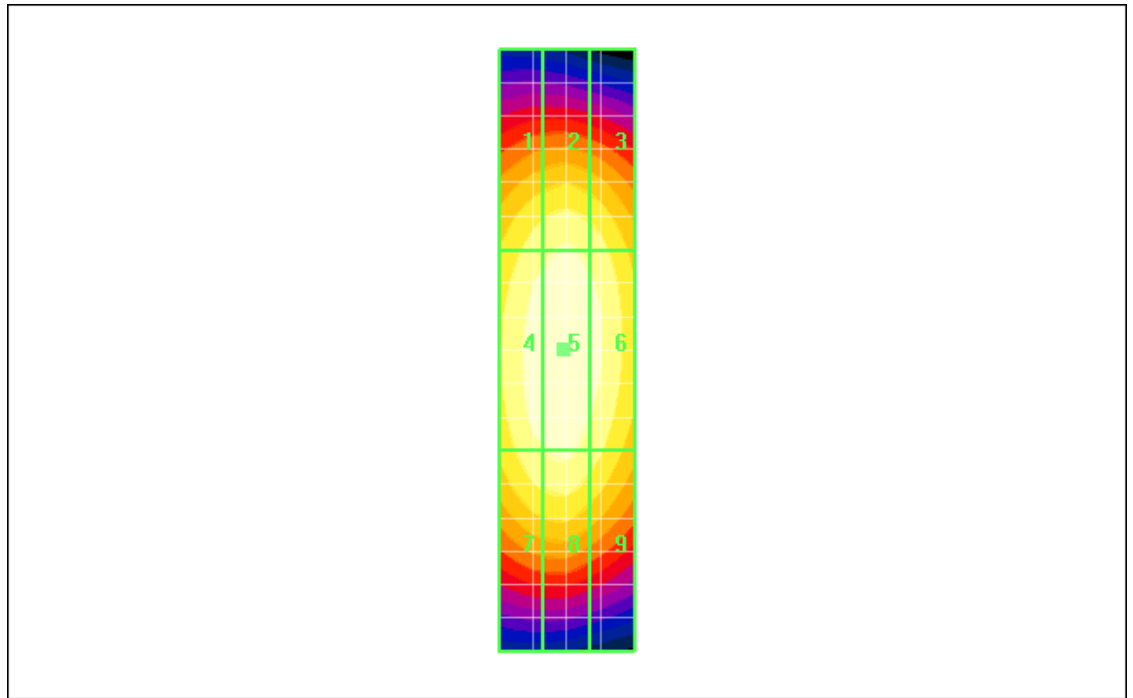
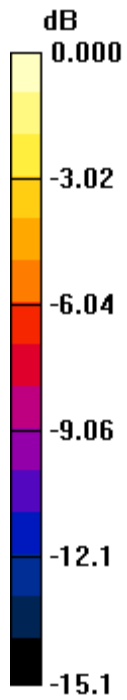
Grid 1	Grid 2	Grid 3
0.308 M3	0.322 M3	0.306 M3
Grid 4	Grid 5	Grid 6
0.344 M2	0.355 M2	0.334 M3
Grid 7	Grid 8	Grid 9
0.317 M3	0.325 M3	0.300 M3

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.355A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		95 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 20/08/2009 2:36:17 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_1880MHz_AM80%_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: AM 80%; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.251 A/m; Power Drift = 0.011 dB

Maximum value of Total (measured) = 0.237 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		96 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

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

Maximum value of peak Total field = 0.237 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.251 A/m; Power Drift = 0.011 dB

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

Peak H-field in A/m

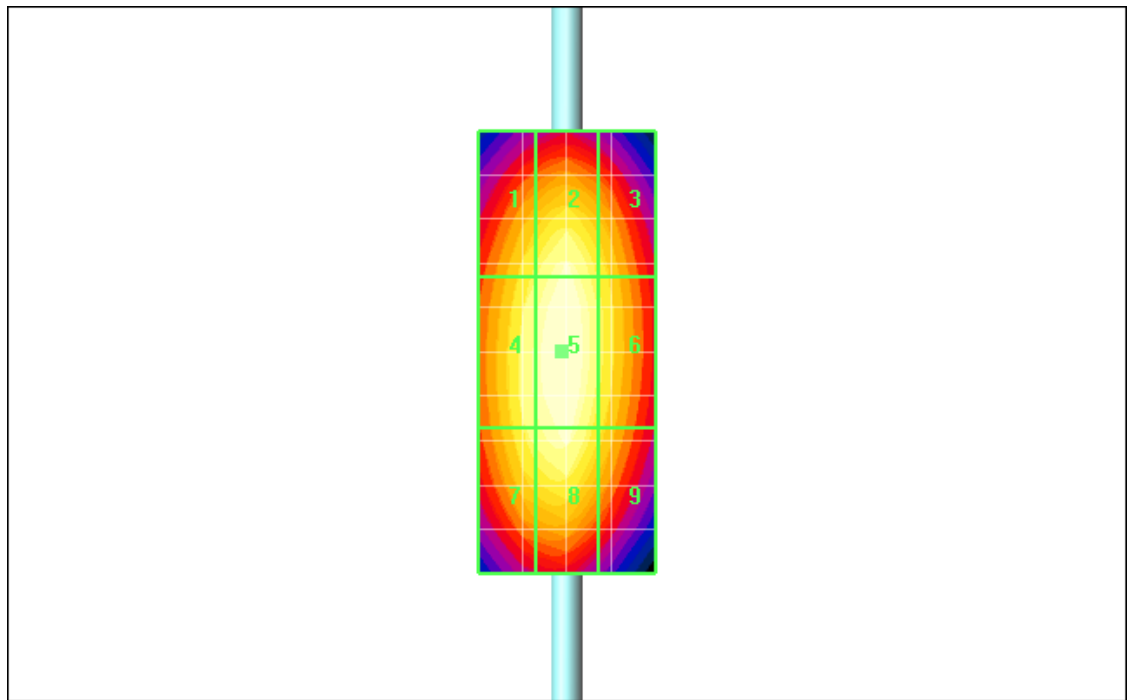
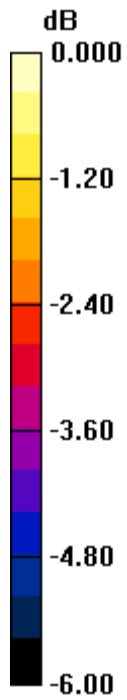
Grid 1	Grid 2	Grid 3
0.219 M3	0.230 M3	0.216 M3
Grid 4	Grid 5	Grid 6
0.229 M3	0.237 M3	0.221 M3
Grid 7	Grid 8	Grid 9
0.224 M3	0.231 M3	0.212 M3

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.237A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		98 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 20/08/2009 1:33:06 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_1880MHz_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.151 A/m; Power Drift = 0.064 dB

Maximum value of Total (measured) = 0.141 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		99 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

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

Maximum value of peak Total field = 0.141 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.151 A/m; Power Drift = 0.064 dB

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

Peak H-field in A/m

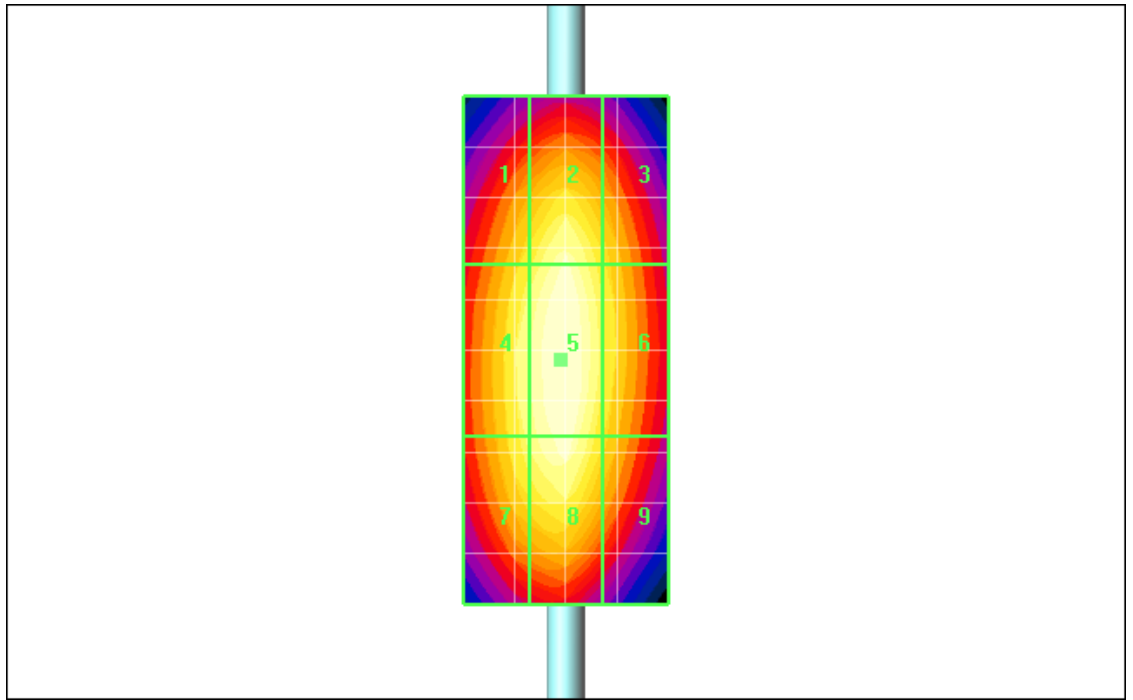
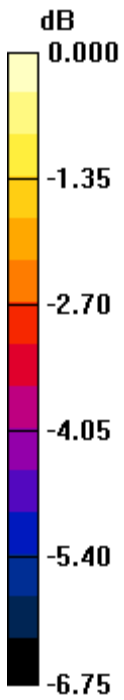
Grid 1	Grid 2	Grid 3
0.126 M4	0.135 M4	0.125 M4
Grid 4	Grid 5	Grid 6
0.134 M4	0.141 M3	0.129 M4
Grid 7	Grid 8	Grid 9
0.132 M4	0.138 M4	0.124 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.141A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		101 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 20/08/2009 2:46:37 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_1880MHz_CW_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.141 A/m; Power Drift = -0.048 dB

Maximum value of Total (measured) = 0.132 A/m

H Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 102 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

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

Maximum value of peak Total field = 0.132 A/m

Probe Modulation Factor = 1.00

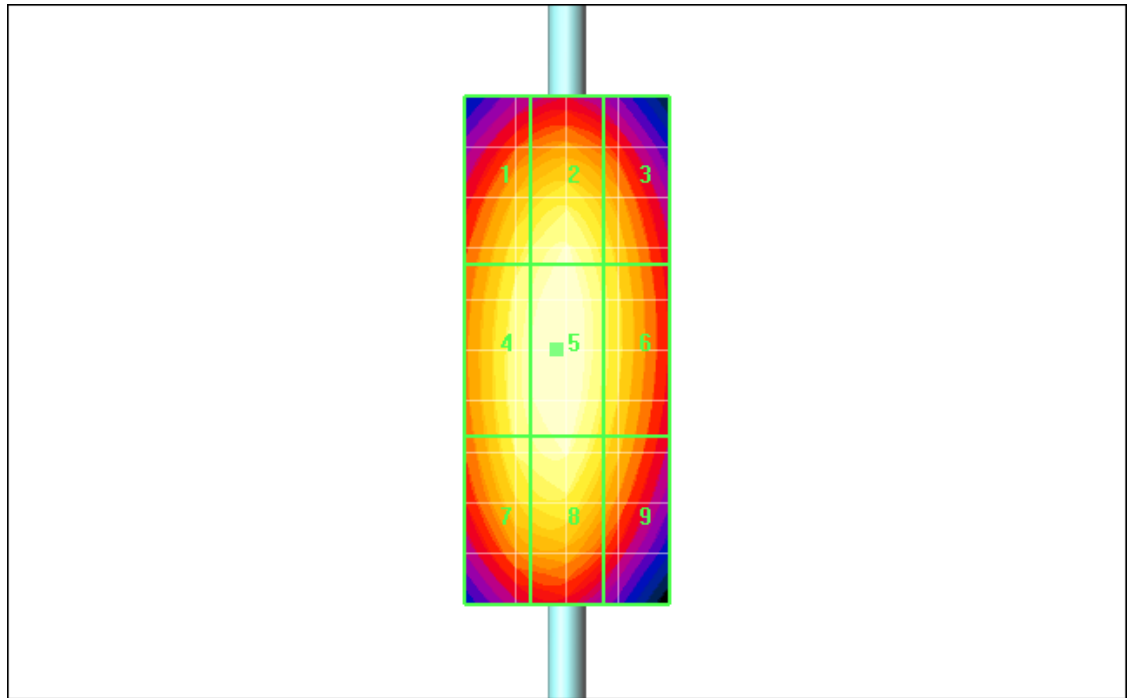
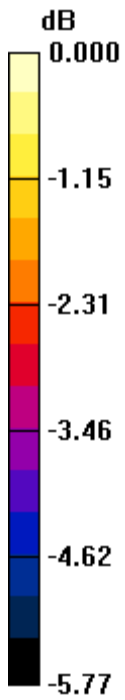
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.141 A/m; Power Drift = -0.048 dB


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

Peak H-field in A/m

Grid 1 0.124 M4	Grid 2 0.129 M4	Grid 3 0.121 M4
Grid 4 0.129 M4	Grid 5 0.132 M4	Grid 6 0.123 M4
Grid 7 0.126 M4	Grid 8 0.129 M4	Grid 9 0.119 M4



0 dB = 0.132A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		104 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 20/08/2009 2:57:22 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_1880MHz_AM80%_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: AM 80%; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.090 A/m; Power Drift = 0.014 dB

Maximum value of Total (measured) = 0.085 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		105 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

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

Maximum value of peak Total field = 0.085 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.090 A/m; Power Drift = 0.014 dB

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

Peak H-field in A/m

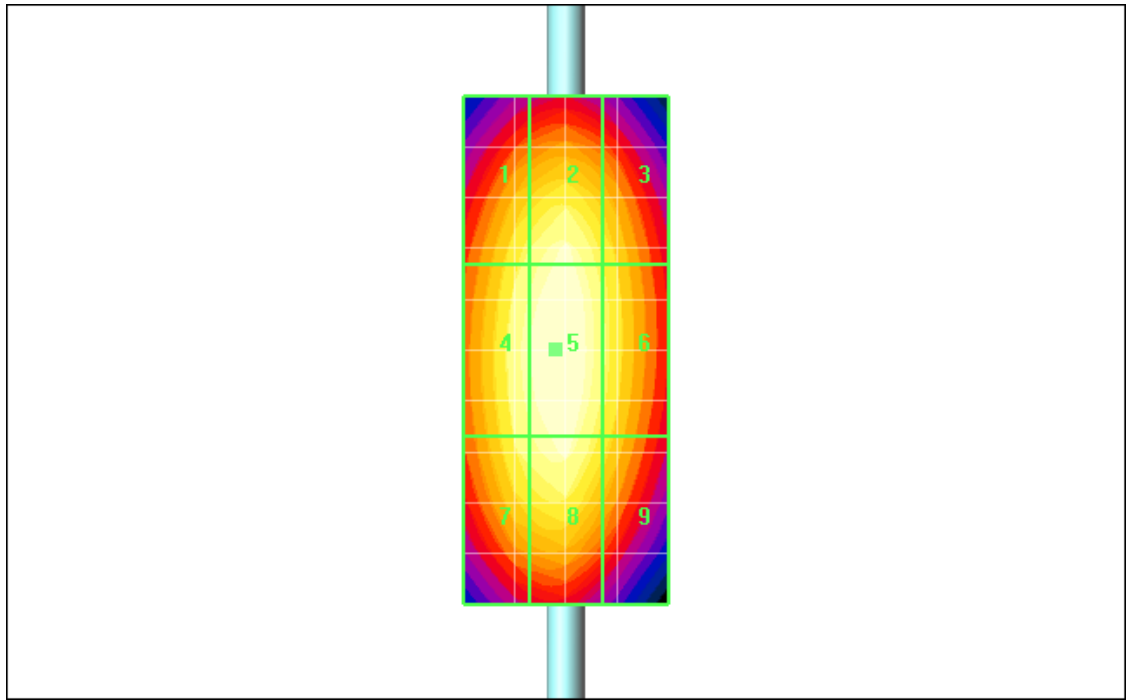
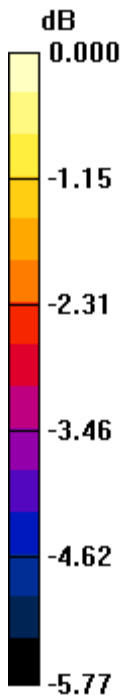
Grid 1	Grid 2	Grid 3
0.080 M4	0.083 M4	0.078 M4
Grid 4	Grid 5	Grid 6
0.083 M4	0.085 M4	0.080 M4
Grid 7	Grid 8	Grid 9
0.081 M4	0.083 M4	0.077 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.085A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		107 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 20/08/2009 1:55:29 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_1880MHz_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.153 A/m; Power Drift = -0.024 dB

Maximum value of Total (measured) = 0.144 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		108 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

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

Maximum value of peak Total field = 0.144 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.153 A/m; Power Drift = -0.024 dB

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

Peak H-field in A/m

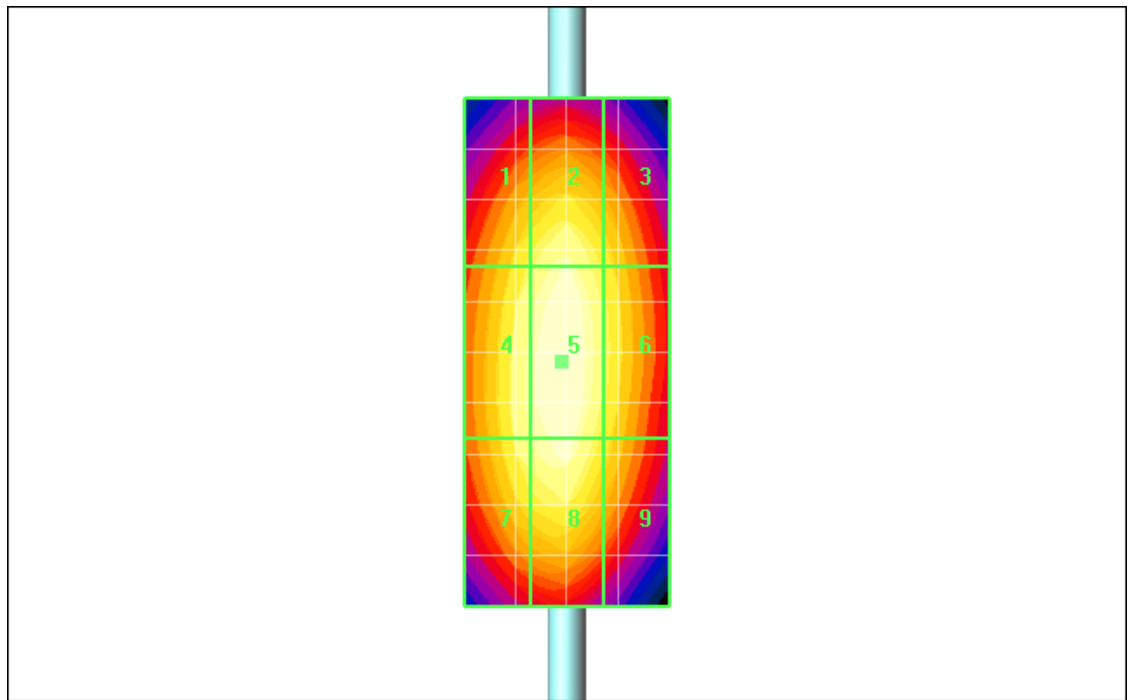
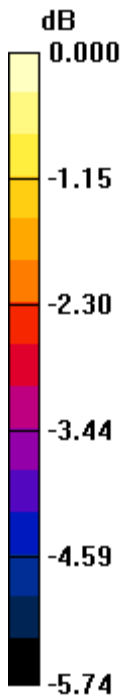
Grid 1	Grid 2	Grid 3
0.133 M4	0.139 M4	0.131 M4
Grid 4	Grid 5	Grid 6
0.140 M4	0.144 M4	0.135 M4
Grid 7	Grid 8	Grid 9
0.138 M4	0.141 M4	0.131 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW

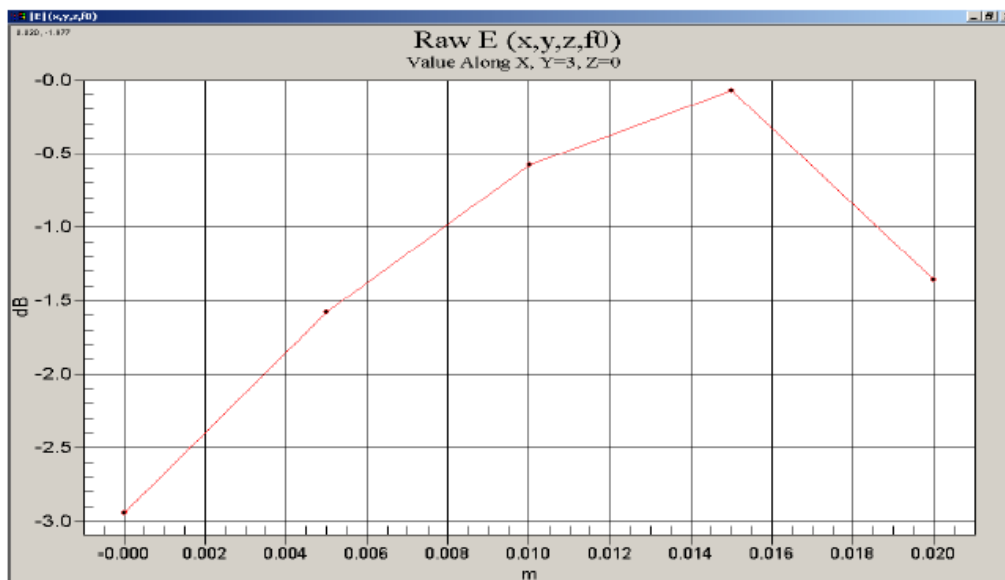


0 dB = 0.144A/m

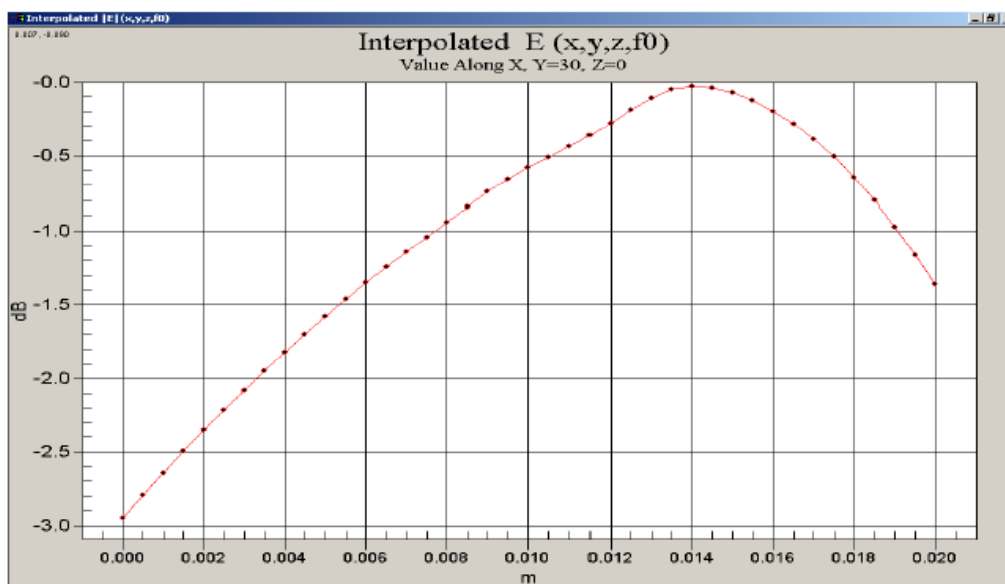
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 110 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

Justification of Step Size and Interpolation


This section demonstrates that a 5mm step size with interpolation provides sufficient resolution for RF emissions measurements. The DASY 4 uses interpolation algorithms to derive 9 interpolated points between every measured point.

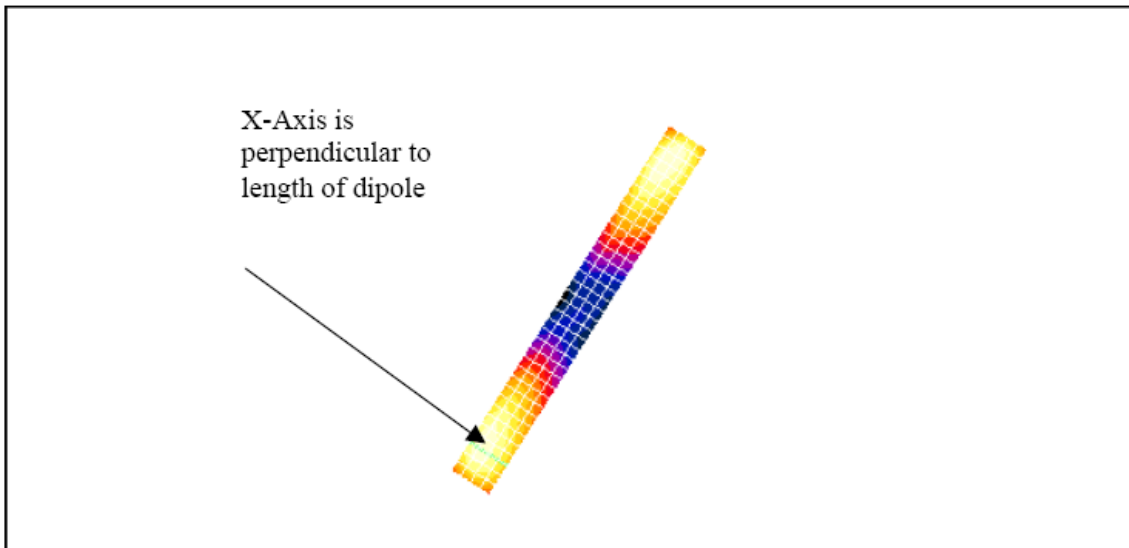


The figure above shows the raw measured field strength perpendicular to the length of the validation dipole. The TCB guidance slides require the 3dB width to be much larger than the step size. The width between -3dB points is > 21mm, at least 4 times the step size.



This figure shows the interpolated field strength perpendicular to the dipole. The interpolated points follow the raw points with no inconsistencies.


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 111 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37



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

Comparison of 5mm and 2mm step sizes

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		112 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

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

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

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

Maximum value of Total (measured) = 134.8 V/m

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

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

Maximum value of Total field (slot averaged) = 131.0 V/m


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

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

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

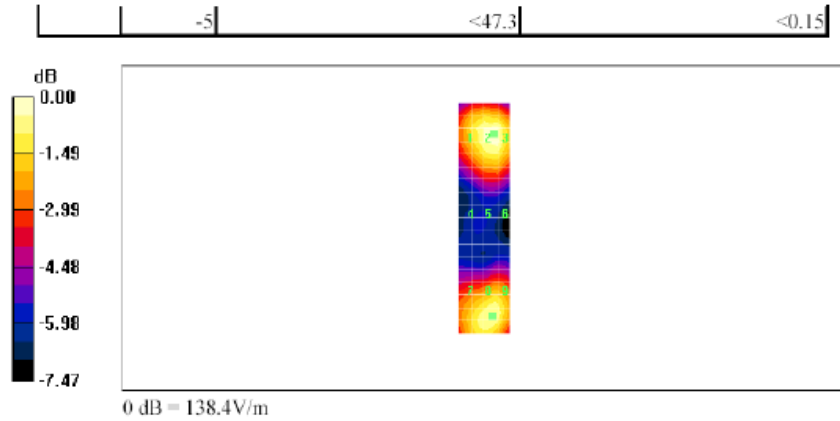
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 113 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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

Page 2 of 2



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	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		114 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

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

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

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

Maximum value of Total (measured) = 138.0 V/m

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

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

Maximum value of Total field (slot averaged) = 131.2 V/m


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

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

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

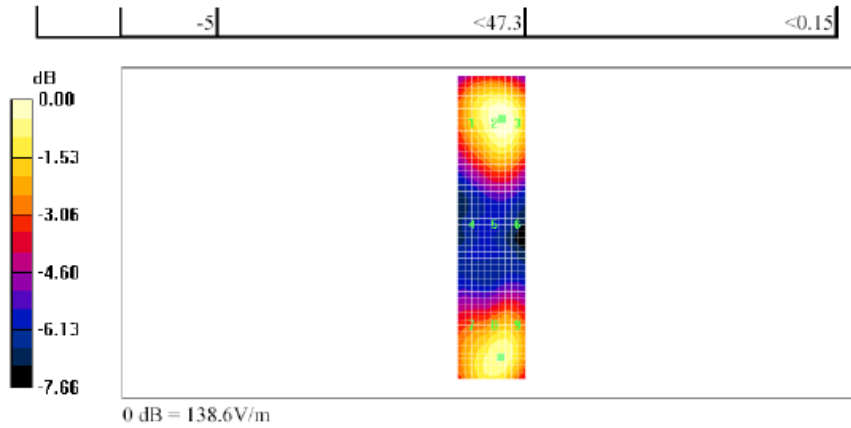
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 115 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		116 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_5 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

DASY4 Configuration:

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

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

Measurement grid: dx=5mm, dy=5mm
 Maximum value of Total (measured) = 0.406 A/m

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


Measurement grid: dx=5mm, dy=5mm
 Maximum value of Total field (slot averaged) = 0.406 A/m
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

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

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

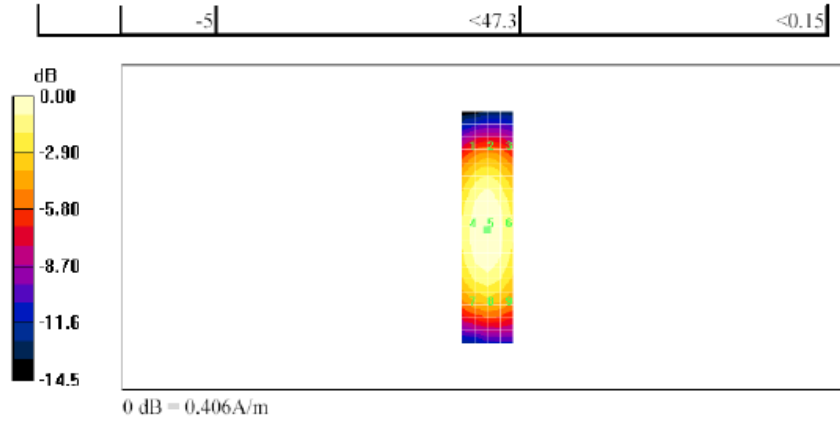
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 117 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		118 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

DASY4 Configuration:

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

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

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

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


Measurement grid: dx=2mm, dy=2mm
 Maximum value of Total field (slot averaged) = 0.406 A/m
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

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

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

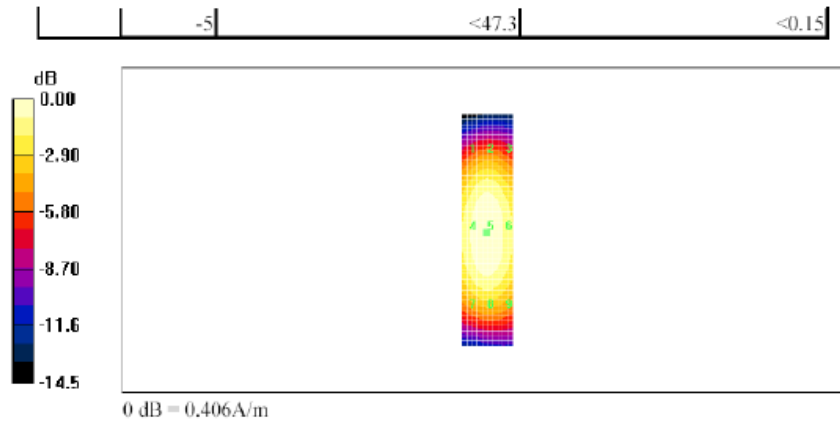
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 119 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		120 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 11:13:27 AM

Test Laboratory: RTS

File Name: [HAC_E_GSM_850_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell;

Program Name: HAC RF ER3D Device

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 96.8 V/m; Power Drift = -0.177 dB

Maximum value of Total (measured) = 74.9 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		121 (191)
Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37	FCC ID L6ARCM70UW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 215.2 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 96.8 V/m; Power Drift = -0.177 dB

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

Peak E-field in V/m

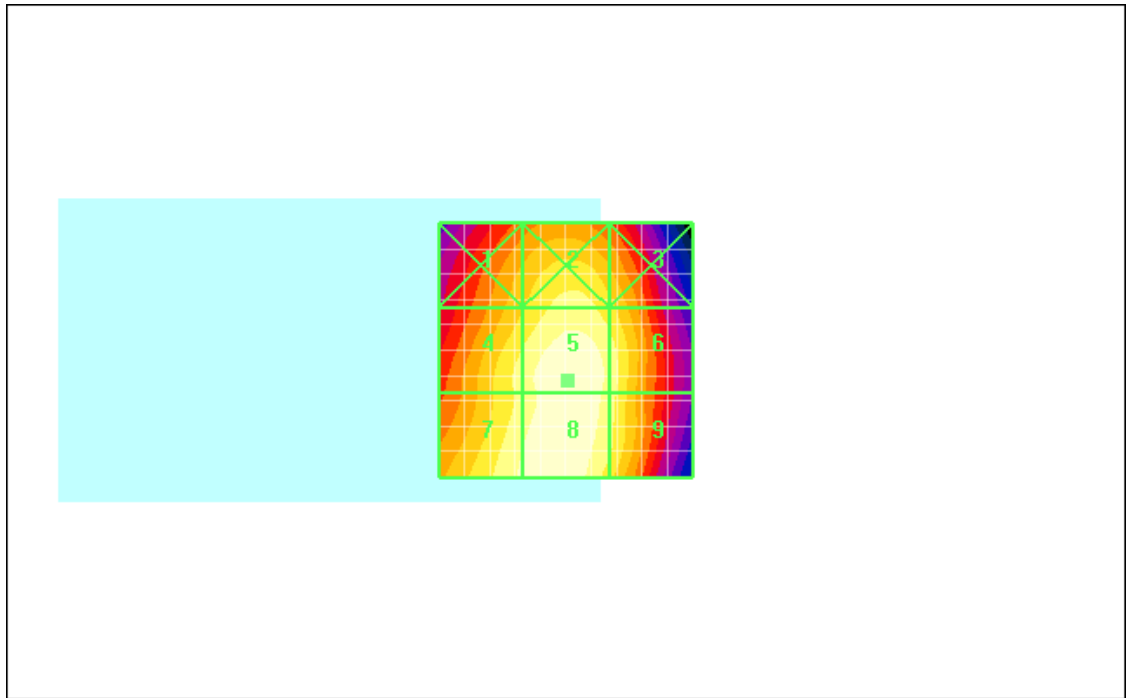
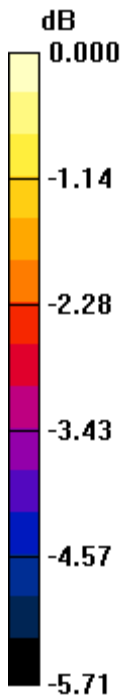
Grid 1	Grid 2	Grid 3
188.2 M3	201.0 M3	191.9 M3
Grid 4	Grid 5	Grid 6
201.6 M3	215.2 M3	203.3 M3
Grid 7	Grid 8	Grid 9
208.0 M3	214.2 M3	201.8 M3

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 215.2V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		123 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 11:20:27 AM

Test Laboratory: RTS

File Name: [HAC_E_GSM_850_mid chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell;

Program Name: HAC RF ER3D Device

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 98.0 V/m; Power Drift = 0.103 dB

Maximum value of Total (measured) = 79.7 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 124 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 228.9 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 98.0 V/m; Power Drift = 0.103 dB

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

Peak E-field in V/m

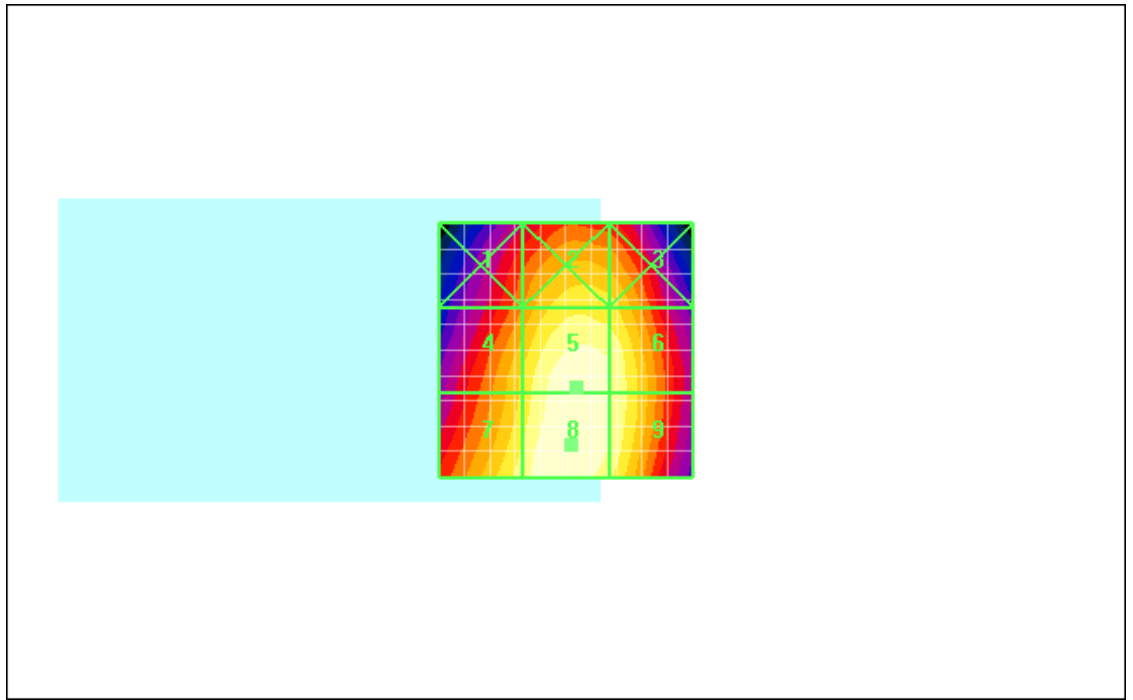
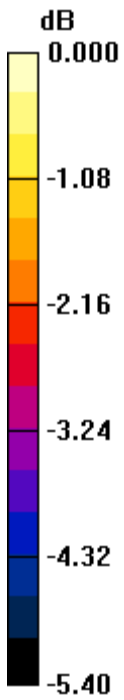
Grid 1 186.3 M3	Grid 2 209.0 M3	Grid 3 205.8 M3
Grid 4 204.9 M3	Grid 5 227.1 M3	Grid 6 220.7 M3
Grid 7 215.9 M3	Grid 8 228.9 M3	Grid 9 220.8 M3

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 228.9V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 126 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

Date/Time: 21/08/2009 11:25:39 AM

Test Laboratory: RTS

File Name: [HAC_E_GSM_850_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell;

Program Name: HAC RF ER3D Device

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 104.6 V/m; Power Drift = -0.061 dB

Maximum value of Total (measured) = 82.6 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 127 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 238.2 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 104.6 V/m; Power Drift = -0.061 dB

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

Peak E-field in V/m

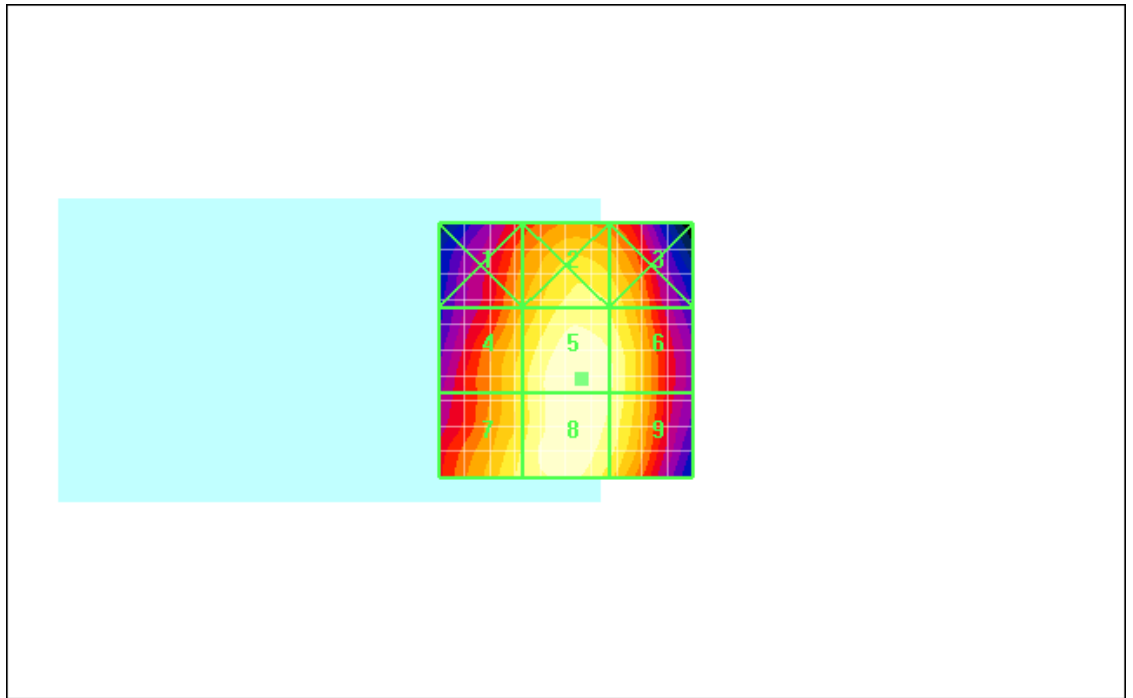
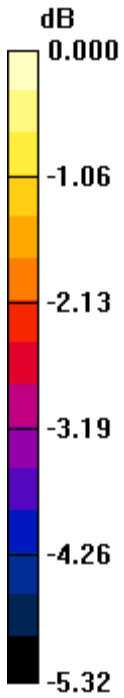
Grid 1 202.6 M3	Grid 2 224.6 M3	Grid 3 219.8 M3
Grid 4 216.9 M3	Grid 5 238.2 M3	Grid 6 230.8 M3
Grid 7 222.6 M3	Grid 8 237.2 M3	Grid 9 229.8 M3

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 238.2V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		129 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 2:32:26 PM

Test Laboratory: RTS

File Name: [HAC_E_GSM_WCDMA_Band_V_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: **Not Specified**

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:


dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 100.6 V/m; Power Drift = -0.022 dB

Maximum value of Total (measured) = 78.8 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 130 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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 = 74.3 V/m

Probe Modulation Factor = 0.940

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 100.6 V/m; Power Drift = -0.022 dB

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

Peak E-field in V/m

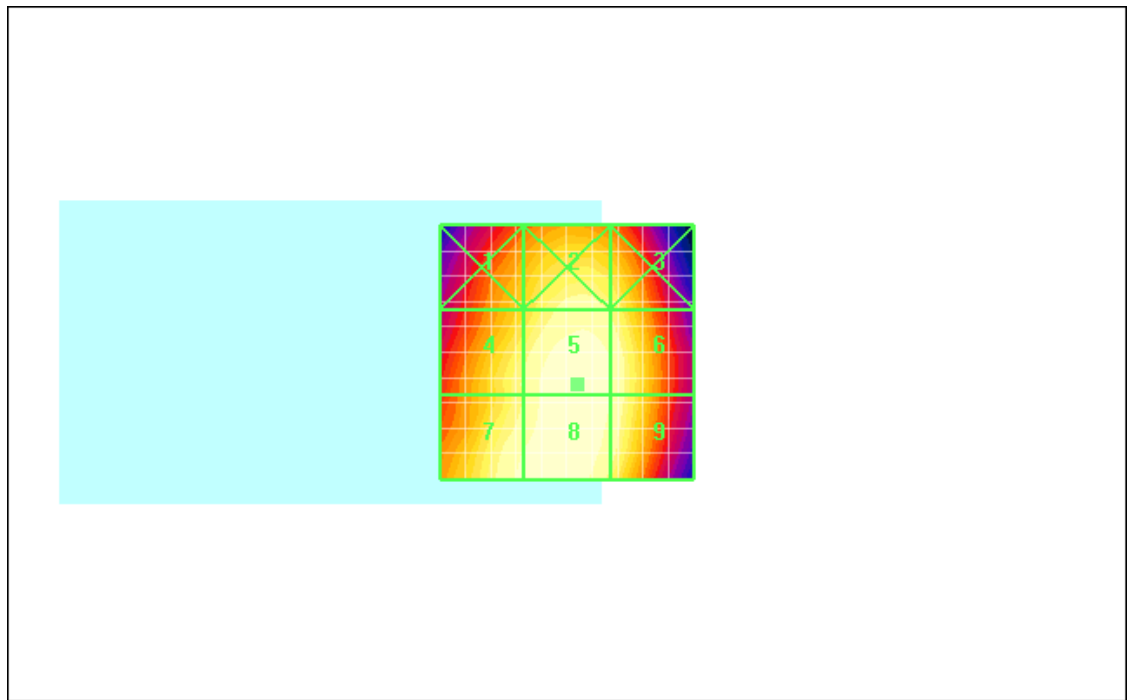
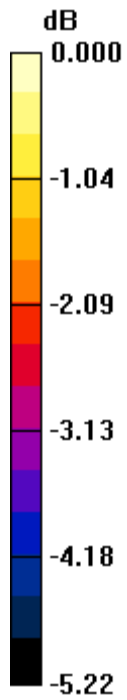
Grid 1 64.3 M4	Grid 2 69.9 M4	Grid 3 68.2 M4
Grid 4 69.0 M4	Grid 5 74.3 M4	Grid 6 71.8 M4
Grid 7 72.0 M4	Grid 8 74.2 M4	Grid 9 71.5 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 74.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		132 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 2:39:15 PM

Test Laboratory: RTS

File Name: [HAC_E_GSM_WCDMA_Band_V_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell;

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:


dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 117.5 V/m; Power Drift = -0.091 dB

Maximum value of Total (measured) = 93.9 V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		133 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

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 = 88.3 V/m

Probe Modulation Factor = 0.940

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 117.5 V/m; Power Drift = -0.091 dB

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

Peak E-field in V/m

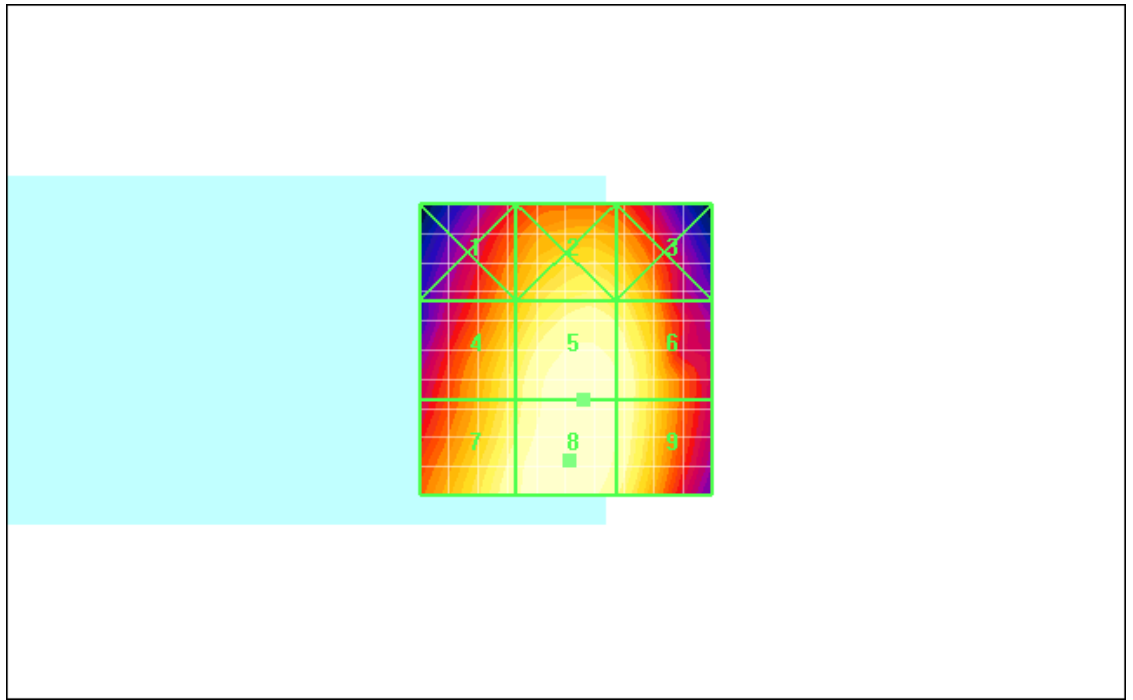
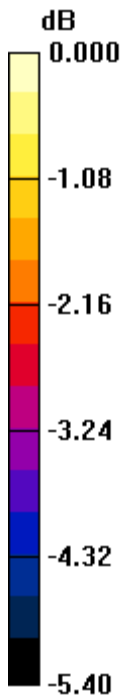
Grid 1	Grid 2	Grid 3
73.6 M4	80.8 M4	79.3 M4
Grid 4	Grid 5	Grid 6
80.1 M4	87.5 M4	85.1 M4
Grid 7	Grid 8	Grid 9
84.1 M4	88.3 M4	85.0 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 88.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		135 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 2:47:18 PM

Test Laboratory: RTS

File Name: [HAC_E_GSM_WCDMA_Band_V_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell;

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:


dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 115.0 V/m; Power Drift = -0.071 dB

Maximum value of Total (measured) = 89.7 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 136 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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 = 84.7 V/m

Probe Modulation Factor = 0.940

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 115.0 V/m; Power Drift = -0.071 dB

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

Peak E-field in V/m

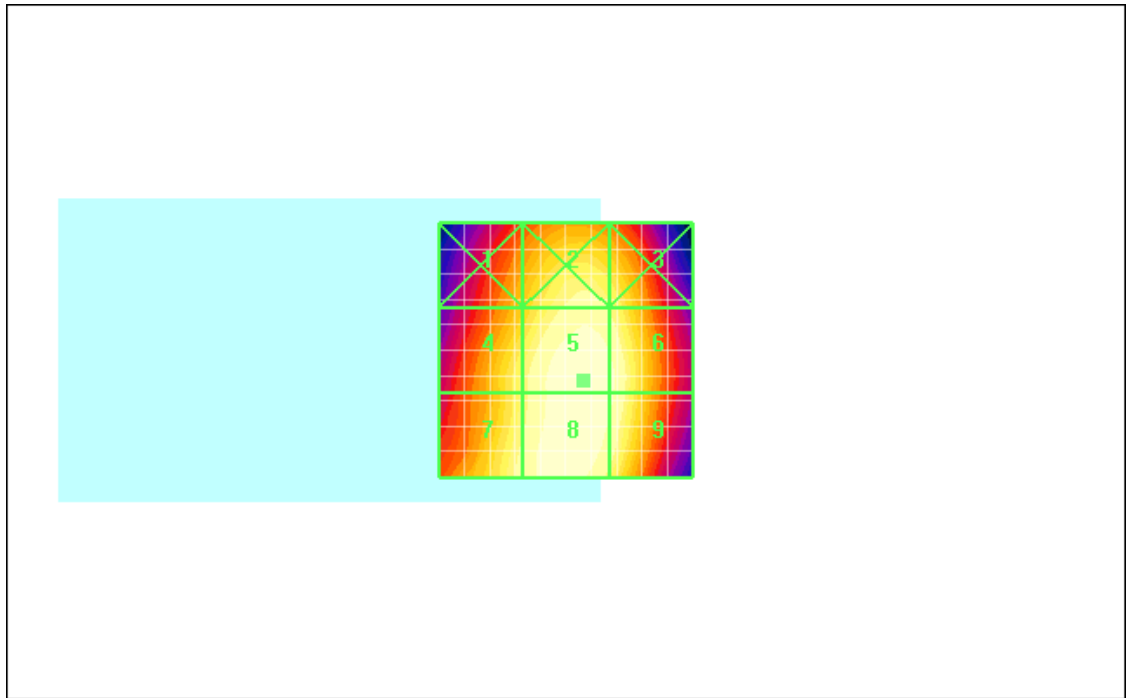
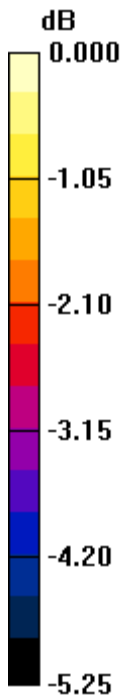
Grid 1 71.9 M4	Grid 2 79.7 M4	Grid 3 77.8 M4
Grid 4 77.3 M4	Grid 5 84.7 M4	Grid 6 82.6 M4
Grid 7 79.5 M4	Grid 8 84.5 M4	Grid 9 82.3 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 84.7V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		138 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 12:36:28 PM

Test Laboratory: RTS

File Name: [HAC_E_GSM_1900_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell;

Program Name: HAC RF ER3D Device

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 14.1 V/m; Power Drift = -0.003 dB

Maximum value of Total (measured) = 30.7 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 139 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 69.9 V/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 14.1 V/m; Power Drift = -0.003 dB

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

Peak E-field in V/m

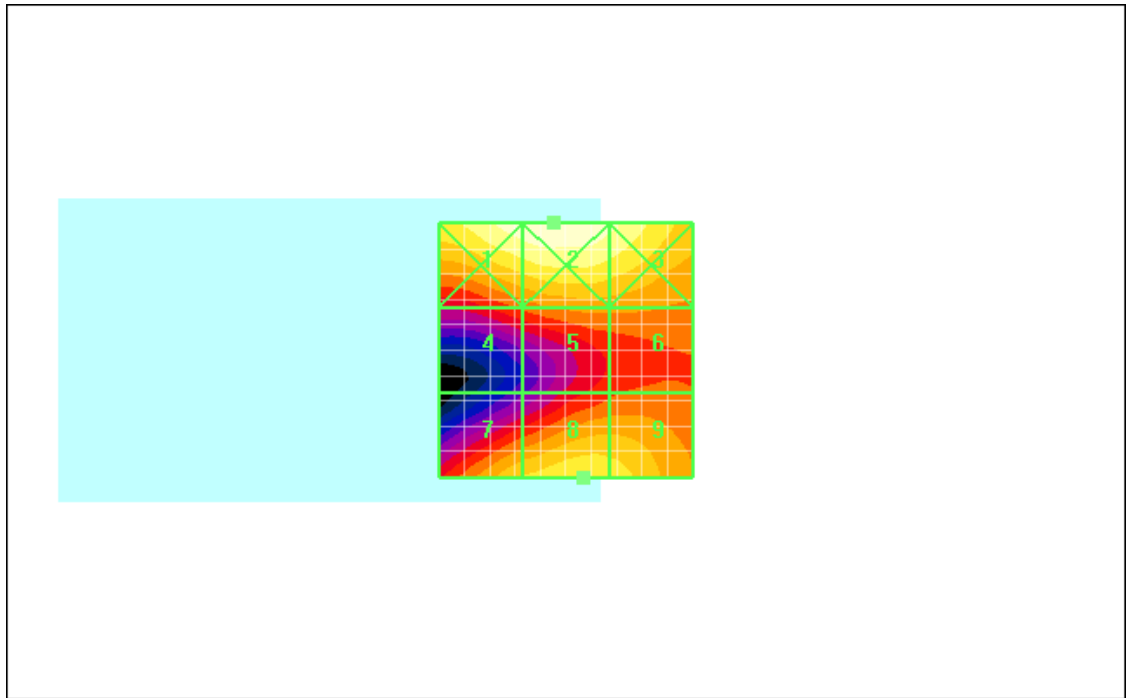
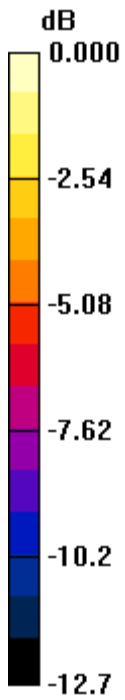
Grid 1 83.1 M3	Grid 2 85.8 M2	Grid 3 80.0 M3
Grid 4 49.3 M3	Grid 5 55.1 M3	Grid 6 54.7 M3
Grid 7 64.7 M3	Grid 8 69.9 M3	Grid 9 68.1 M3

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 85.8V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		141 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 12:42:52 PM

Test Laboratory: RTS

File Name: [HAC_E_GSM_1900_mid chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell;

Program Name: HAC RF ER3D Device

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.5 V/m; Power Drift = -0.038 dB

Maximum value of Total (measured) = 31.2 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 142 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 61.1 V/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.5 V/m; Power Drift = -0.038 dB

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

Peak E-field in V/m

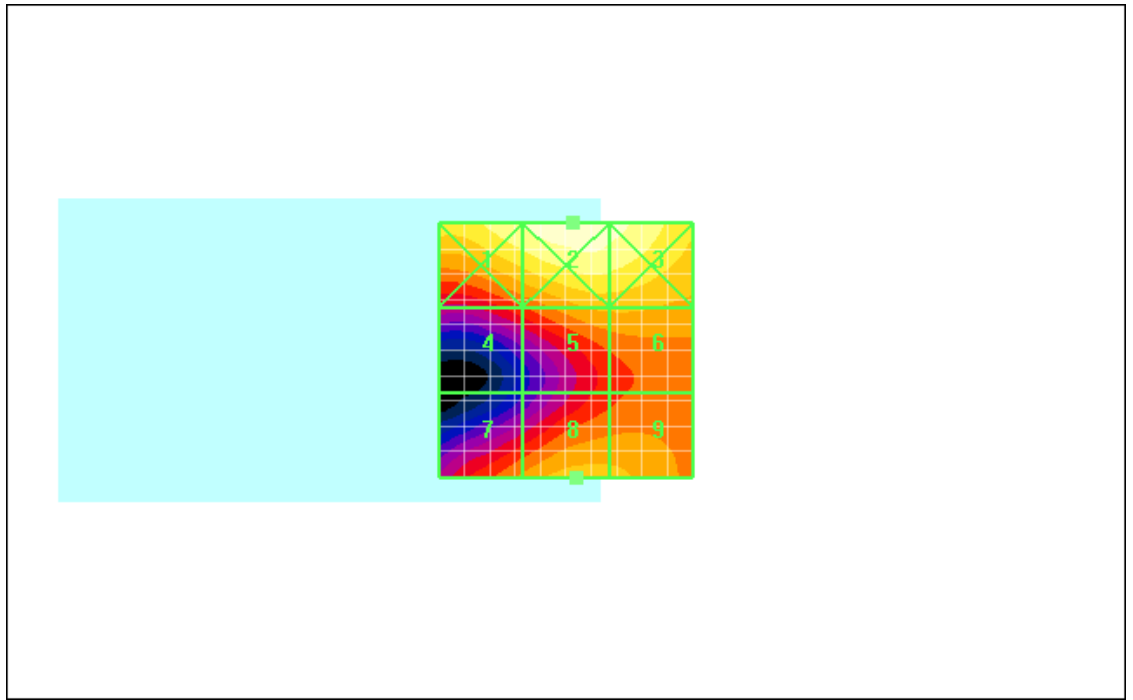
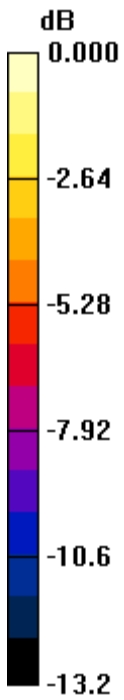
Grid 1 80.0 M3	Grid 2 87.2 M2	Grid 3 82.9 M3
Grid 4 47.4 M3	Grid 5 59.7 M3	Grid 6 59.7 M3
Grid 7 53.8 M3	Grid 8 61.1 M3	Grid 9 60.4 M3

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 87.2V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		144 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 12:51:12 PM

Test Laboratory: RTS

File Name: [HAC_E_GSM_1900_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell;

Program Name: HAC RF ER3D Device

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 17.7 V/m; Power Drift = 0.039 dB

Maximum value of Total (measured) = 31.5 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 145 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 64.9 V/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 17.7 V/m; Power Drift = 0.039 dB

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

Peak E-field in V/m

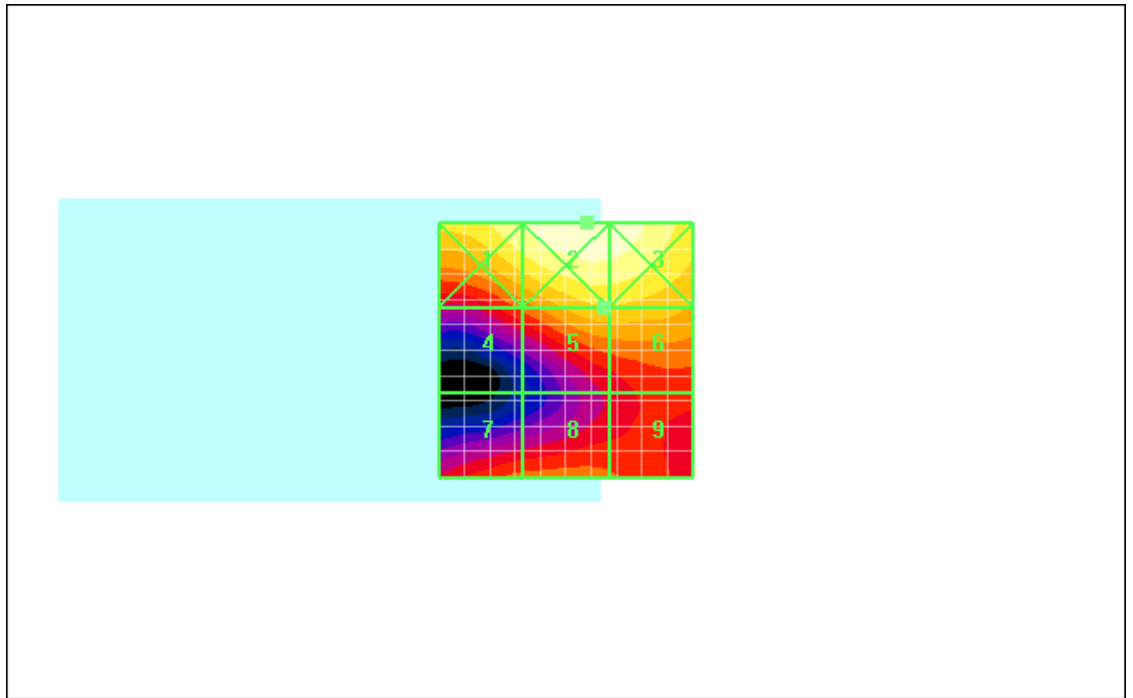
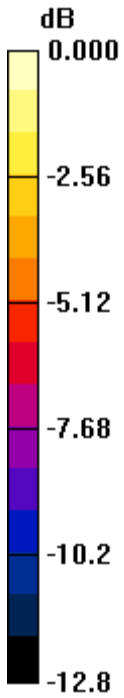
Grid 1 80.4 M3	Grid 2 87.9 M2	Grid 3 86.4 M2
Grid 4 50.7 M3	Grid 5 64.9 M3	Grid 6 64.8 M3
Grid 7 50.9 M3	Grid 8 51.9 M3	Grid 9 49.8 M3

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 87.9V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		147 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 3:01:35 PM

Test Laboratory: RTS

File Name: [HAC_E_WCDMA_Band_II_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell;

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:


dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.7 V/m; Power Drift = 0.032 dB

Maximum value of Total (measured) = 36.1 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 148 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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 = 30.4 V/m

Probe Modulation Factor = 0.910

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.7 V/m; Power Drift = 0.032 dB

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

Peak E-field in V/m

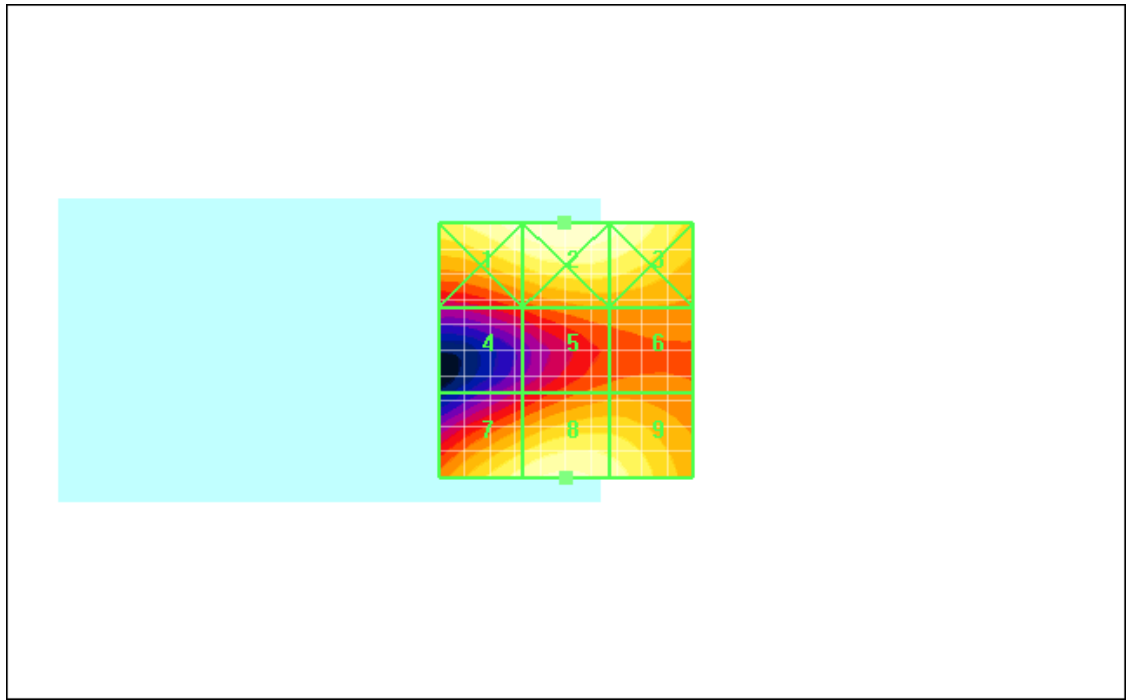
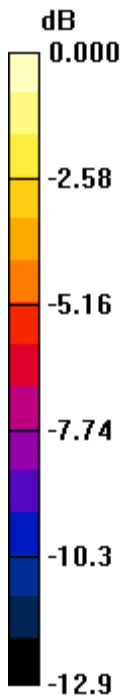
Grid 1 31.5 M4	Grid 2 32.8 M4	Grid 3 31.3 M4
Grid 4 17.1 M4	Grid 5 20.3 M4	Grid 6 20.3 M4
Grid 7 28.4 M4	Grid 8 30.4 M4	Grid 9 28.7 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 32.8V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		150 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 3:07:49 PM

Test Laboratory: RTS

File Name: [HAC_E_WCDMA_Band_II_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell;

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 14.3 V/m; Power Drift = -0.077 dB

Maximum value of Total (measured) = 30.3 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 151 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 22.4 V/m

Probe Modulation Factor = 0.910

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 14.3 V/m; Power Drift = -0.077 dB

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

Peak E-field in V/m

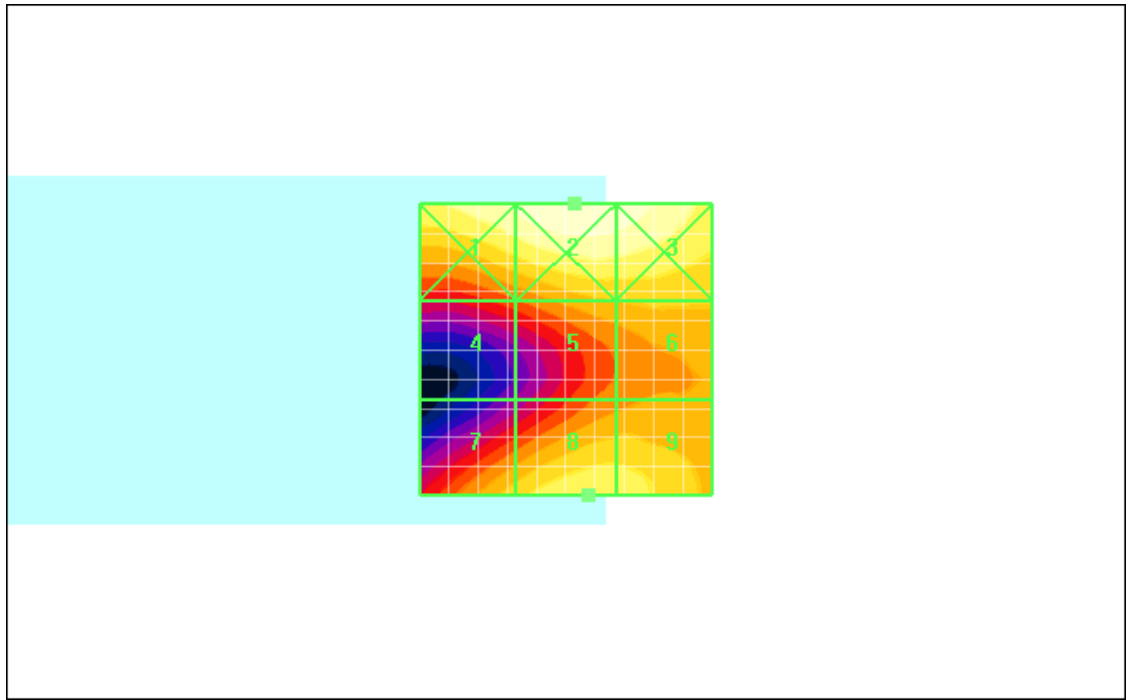
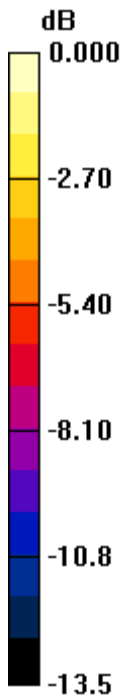
Grid 1 25.5 M4	Grid 2 27.6 M4	Grid 3 26.8 M4
Grid 4 14.8 M4	Grid 5 18.4 M4	Grid 6 18.8 M4
Grid 7 19.7 M4	Grid 8 22.4 M4	Grid 9 22.0 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 27.6V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		153 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 3:14:11 PM

Test Laboratory: RTS

File Name: [HAC_E_WCDMA_Band_II_high chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell;

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:


dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 16.2 V/m; Power Drift = -0.012 dB

Maximum value of Total (measured) = 32.9 V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		154 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

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 = 20.7 V/m

Probe Modulation Factor = 0.910

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 16.2 V/m; Power Drift = -0.012 dB

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

Peak E-field in V/m

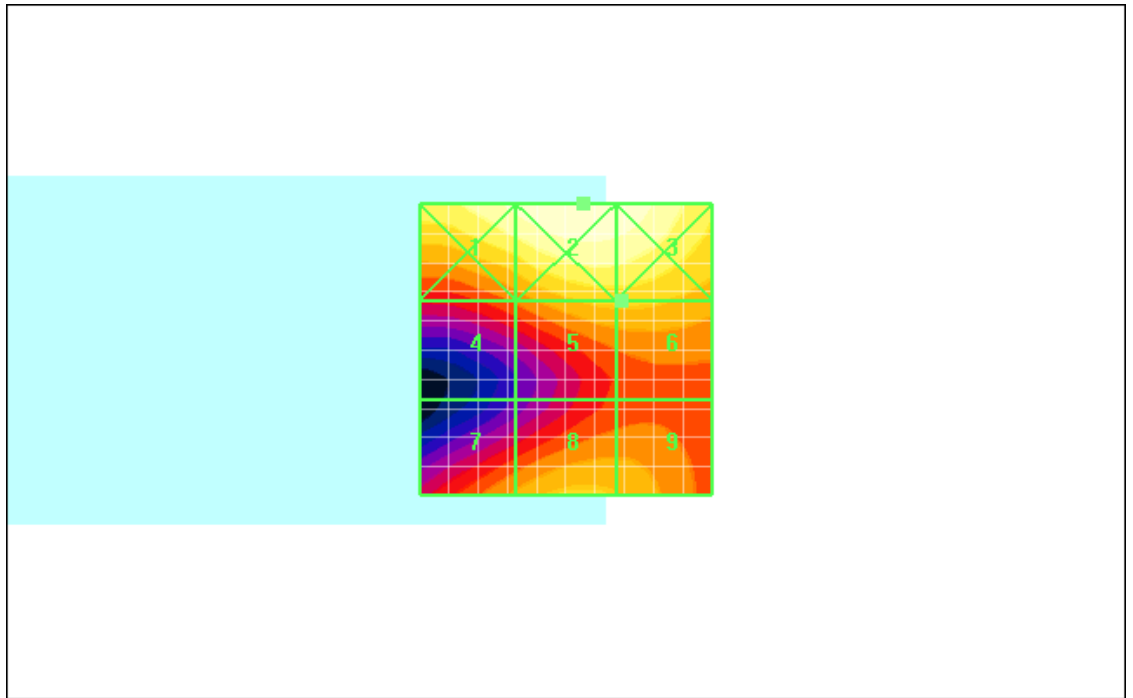
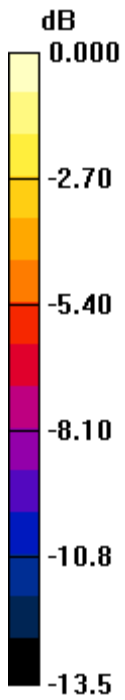
Grid 1	Grid 2	Grid 3
27.9 M4	30.0 M4	29.3 M4
Grid 4	Grid 5	Grid 6
16.7 M4	20.7 M4	20.7 M4
Grid 7	Grid 8	Grid 9
18.6 M4	20.6 M4	20.1 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 30.0V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		156 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 3:47:52 PM

Test Laboratory: RTS

File Name: [HAC_H_GSM850_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.081 A/m; Power Drift = -0.018 dB

Maximum value of Total (measured) = 0.171 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 157 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.423 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.081 A/m; Power Drift = -0.018 dB

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

Peak H-field in A/m

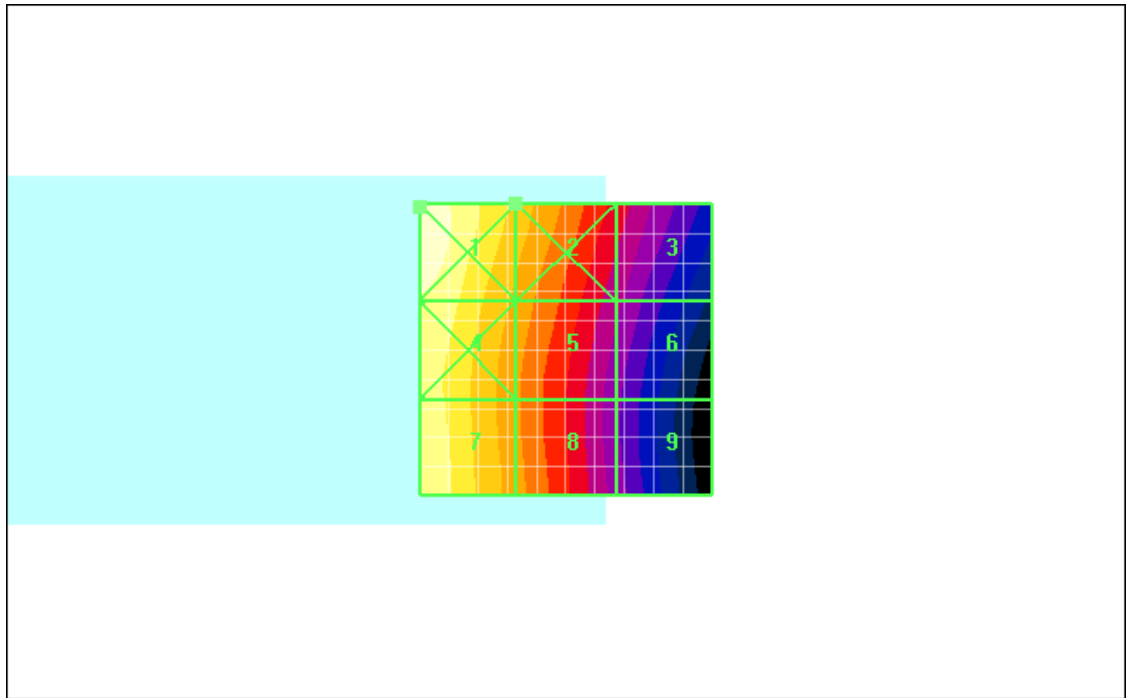
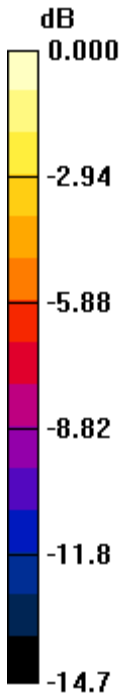
Grid 1 0.474 M3	Grid 2 0.327 M4	Grid 3 0.207 M4
Grid 4 0.421 M4	Grid 5 0.294 M4	Grid 6 0.179 M4
Grid 7 0.423 M4	Grid 8 0.282 M4	Grid 9 0.165 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.474A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		159 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 3:53:58 PM

Test Laboratory: RTS

File Name: [HAC_H_GSM850_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.092 A/m; Power Drift = -0.253 dB

Maximum value of Total (measured) = 0.176 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		160 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.454 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.092 A/m; Power Drift = -0.253 dB

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

Peak H-field in A/m

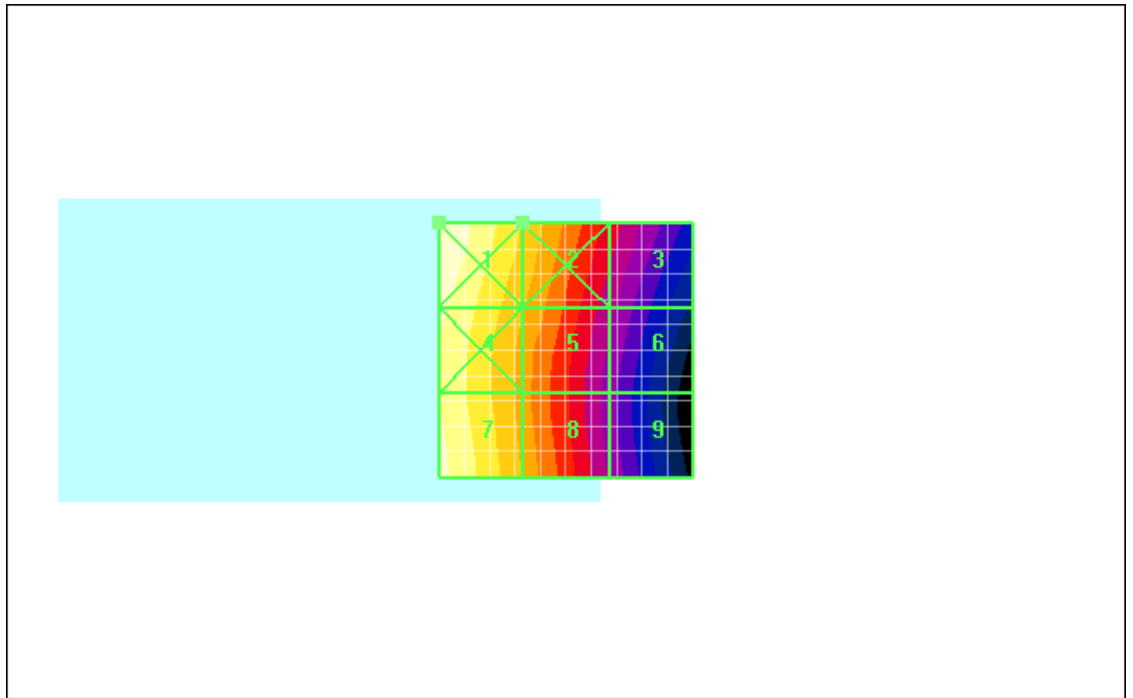
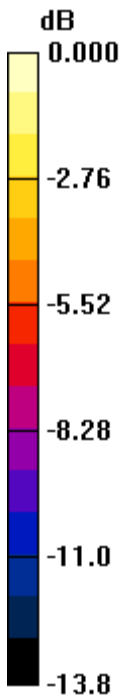
Grid 1	Grid 2	Grid 3
0.488 M3	0.350 M4	0.224 M4
Grid 4	Grid 5	Grid 6
0.453 M3	0.323 M4	0.196 M4
Grid 7	Grid 8	Grid 9
0.454 M3	0.318 M4	0.187 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.488A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 162 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

Date/Time: 21/08/2009 4:00:15 PM

Test Laboratory: RTS

File Name: [HAC_H_GSM850_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.107 A/m; Power Drift = -0.086 dB

Maximum value of Total (measured) = 0.196 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		163 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.521 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.107 A/m; Power Drift = -0.086 dB

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

Peak H-field in A/m

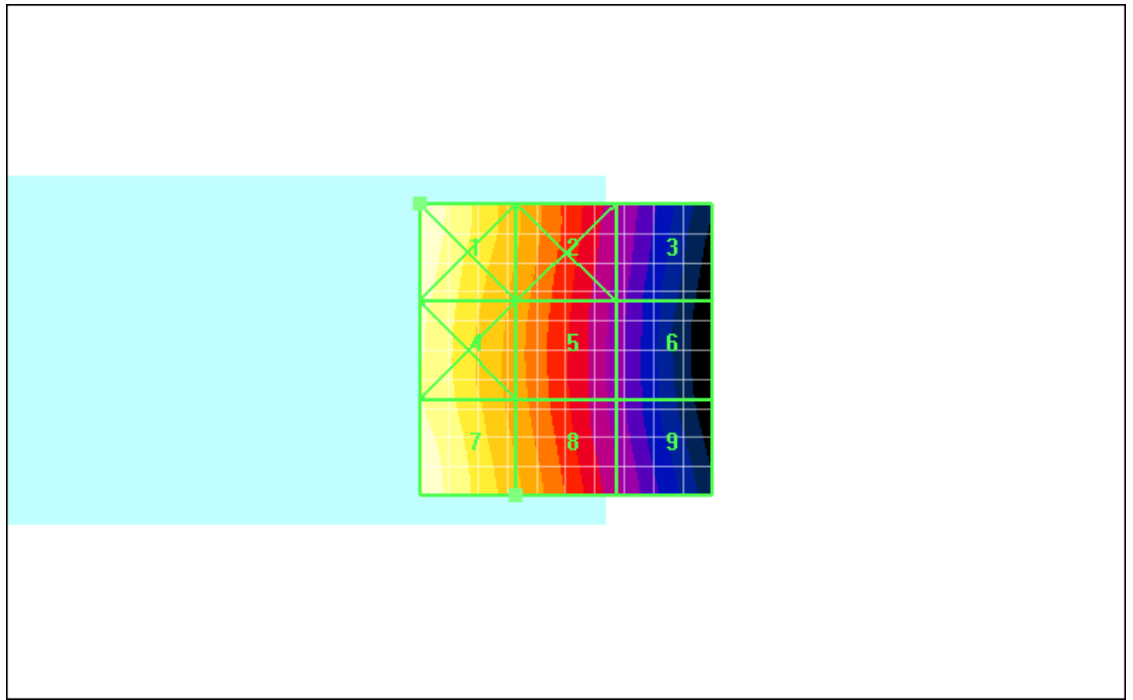
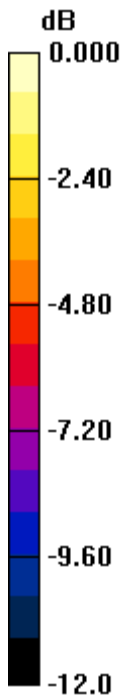
Grid 1 0.542 M3	Grid 2 0.384 M4	Grid 3 0.243 M4
Grid 4 0.512 M3	Grid 5 0.363 M4	Grid 6 0.230 M4
Grid 7 0.521 M3	Grid 8 0.385 M4	Grid 9 0.246 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.542A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		165 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 4:29:37 PM

Test Laboratory: RTS

File Name: [HAC_H_WCDMA_Band_V_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD V; Frequency: 826.4 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:


dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.087 A/m; Power Drift = 0.191 dB

Maximum value of Total (measured) = 0.176 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 166 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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 = 0.183 A/m

Probe Modulation Factor = 1.11

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.087 A/m; Power Drift = 0.191 dB

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

Peak H-field in A/m

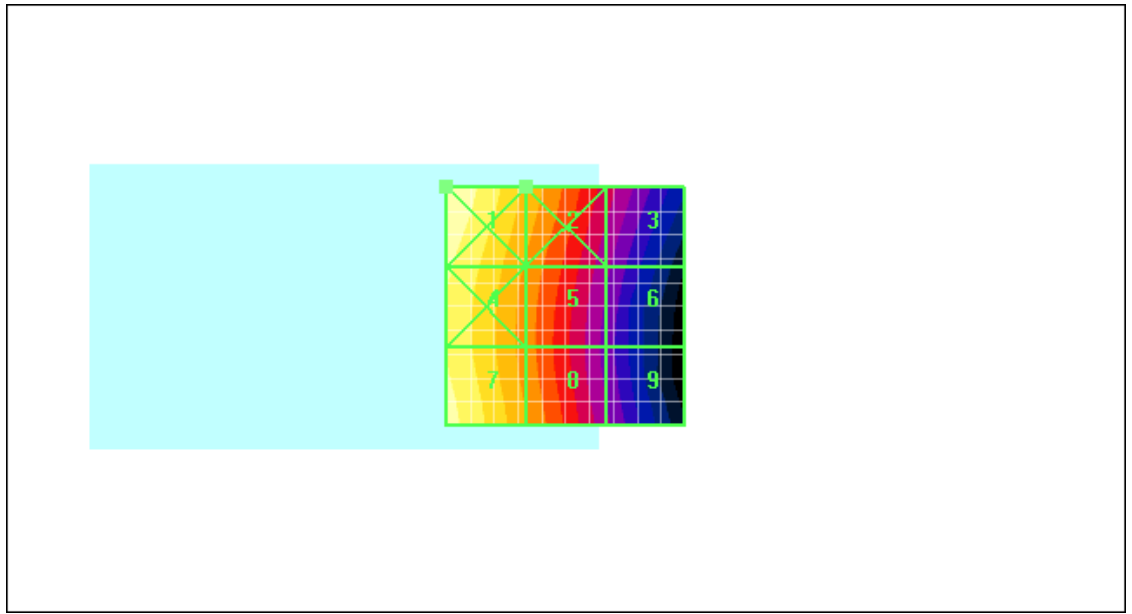
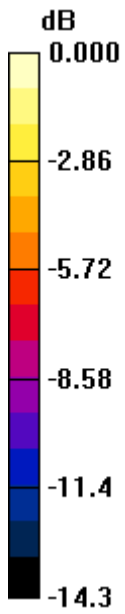
Grid 1 0.195 M4	Grid 2 0.137 M4	Grid 3 0.086 M4
Grid 4 0.178 M4	Grid 5 0.124 M4	Grid 6 0.075 M4
Grid 7 0.183 M4	Grid 8 0.128 M4	Grid 9 0.075 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.195A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		168 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 4:36:05 PM

Test Laboratory: RTS

File Name: [HAC_H_WCDMA_Band_V_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:


dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.106 A/m; Power Drift = -0.075 dB

Maximum value of Total (measured) = 0.209 A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		169 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

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 = 0.210 A/m

Probe Modulation Factor = 1.10

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.106 A/m; Power Drift = -0.075 dB

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

Peak H-field in A/m

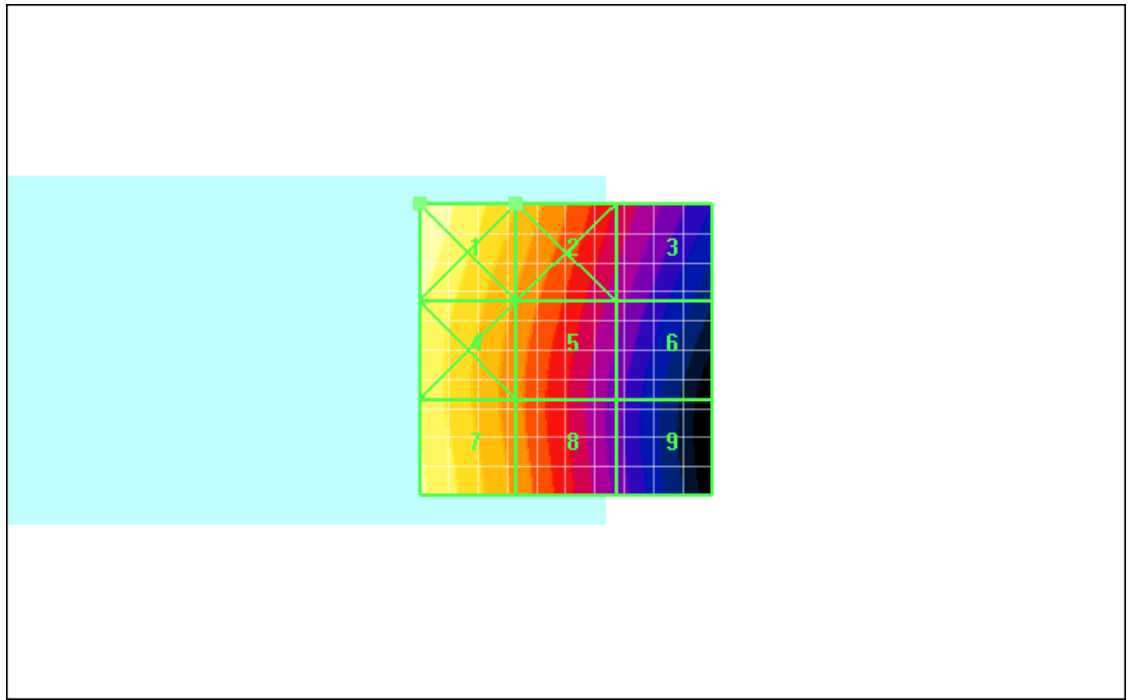
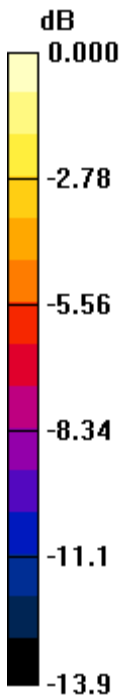
Grid 1 0.230 M4	Grid 2 0.165 M4	Grid 3 0.108 M4
Grid 4 0.208 M4	Grid 5 0.147 M4	Grid 6 0.093 M4
Grid 7 0.210 M4	Grid 8 0.146 M4	Grid 9 0.086 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.230A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		171 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 4:43:32 PM

Test Laboratory: RTS

File Name: [HAC_H_WCDMA_Band_V_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:


dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.113 A/m; Power Drift = 0.197 dB

Maximum value of Total (measured) = 0.209 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 172 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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 = 0.228 A/m

Probe Modulation Factor = 1.10

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.113 A/m; Power Drift = 0.197 dB

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

Peak H-field in A/m

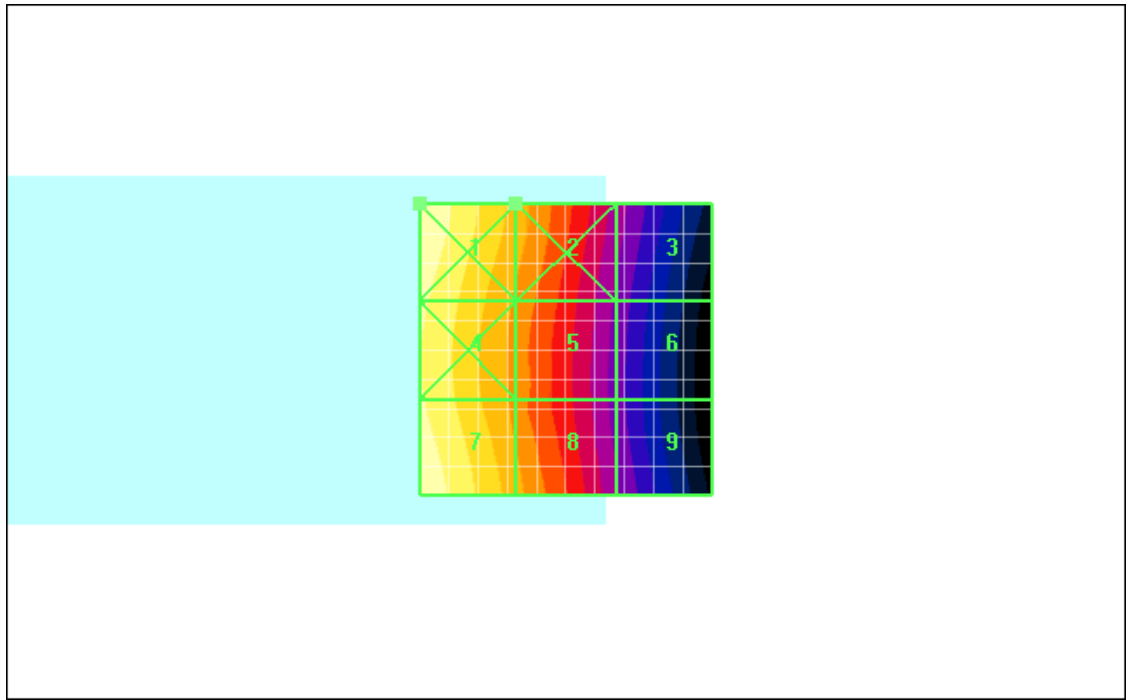
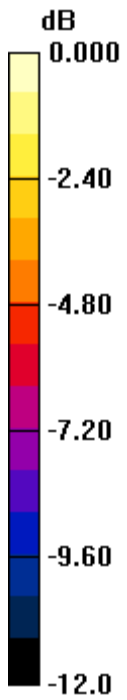
Grid 1 0.230 M4	Grid 2 0.168 M4	Grid 3 0.107 M4
Grid 4 0.215 M4	Grid 5 0.157 M4	Grid 6 0.099 M4
Grid 7 0.228 M4	Grid 8 0.166 M4	Grid 9 0.103 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.230A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		174 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 4:06:13 PM

Test Laboratory: RTS

File Name: [HAC_H_GSM1900_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.090 A/m; Power Drift = 0.106 dB

Maximum value of Total (measured) = 0.102 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		175 (191)
Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37	FCC ID L6ARCM70UW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.204 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.090 A/m; Power Drift = 0.106 dB

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

Peak H-field in A/m

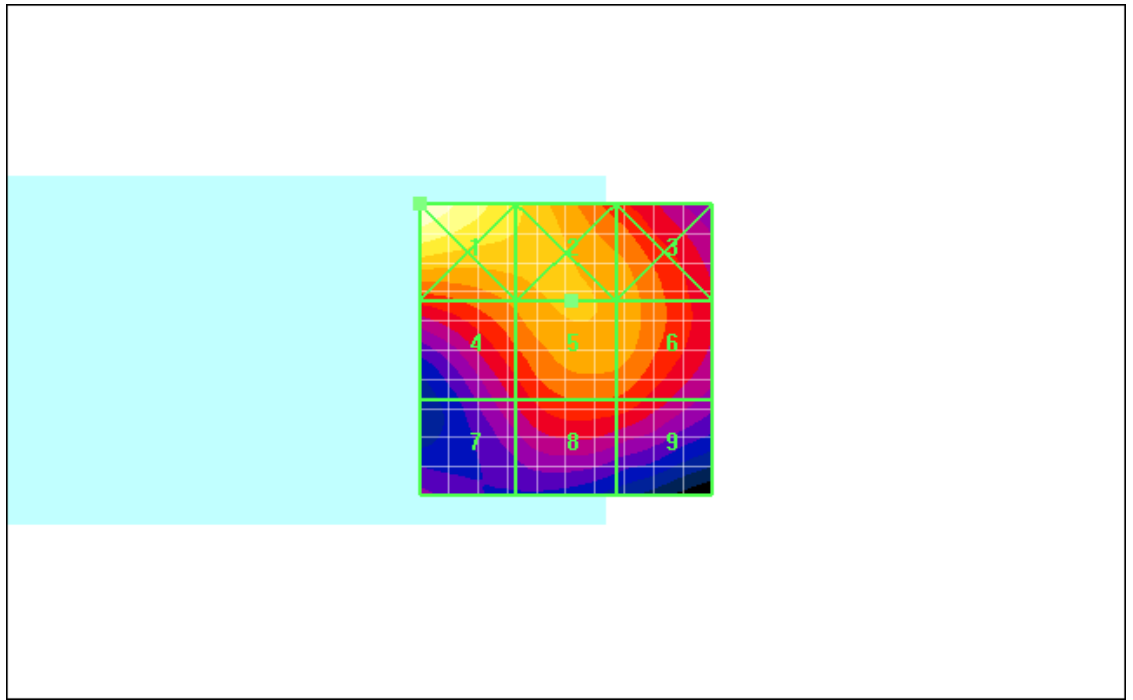
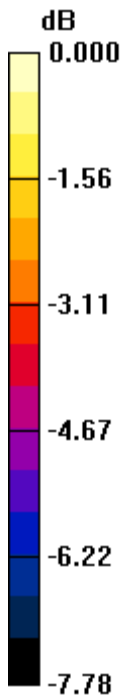
Grid 1 0.257 M2	Grid 2 0.218 M3	Grid 3 0.200 M3
Grid 4 0.194 M3	Grid 5 0.204 M3	Grid 6 0.200 M3
Grid 7 0.162 M3	Grid 8 0.180 M3	Grid 9 0.178 M3

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.257A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		177 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 4:13:44 PM

Test Laboratory: RTS

File Name: [HAC_H_GSM1900_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.088 A/m; Power Drift = 0.224 dB

Maximum value of Total (measured) = 0.111 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 178 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.205 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.088 A/m; Power Drift = 0.224 dB

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

Peak H-field in A/m

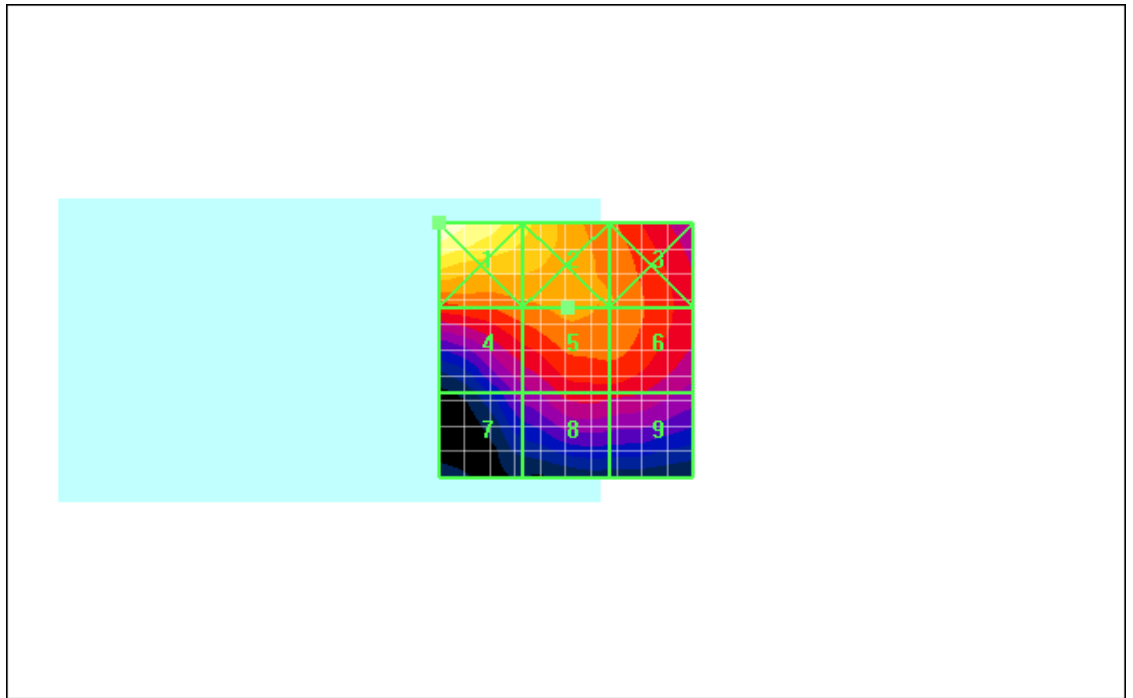
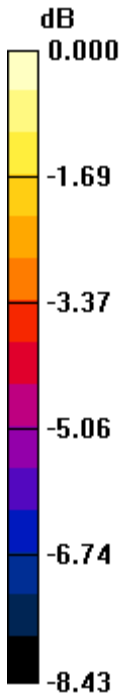
Grid 1 0.279 M2	Grid 2 0.235 M3	Grid 3 0.203 M3
Grid 4 0.198 M3	Grid 5 0.205 M3	Grid 6 0.202 M3
Grid 7 0.152 M3	Grid 8 0.173 M3	Grid 9 0.171 M3

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.279A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		180 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 4:19:40 PM

Test Laboratory: RTS

File Name: [HAC_H_GSM1900_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.085 A/m; Power Drift = 0.143 dB

Maximum value of Total (measured) = 0.116 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 181 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.207 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.085 A/m; Power Drift = 0.143 dB

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

Peak H-field in A/m

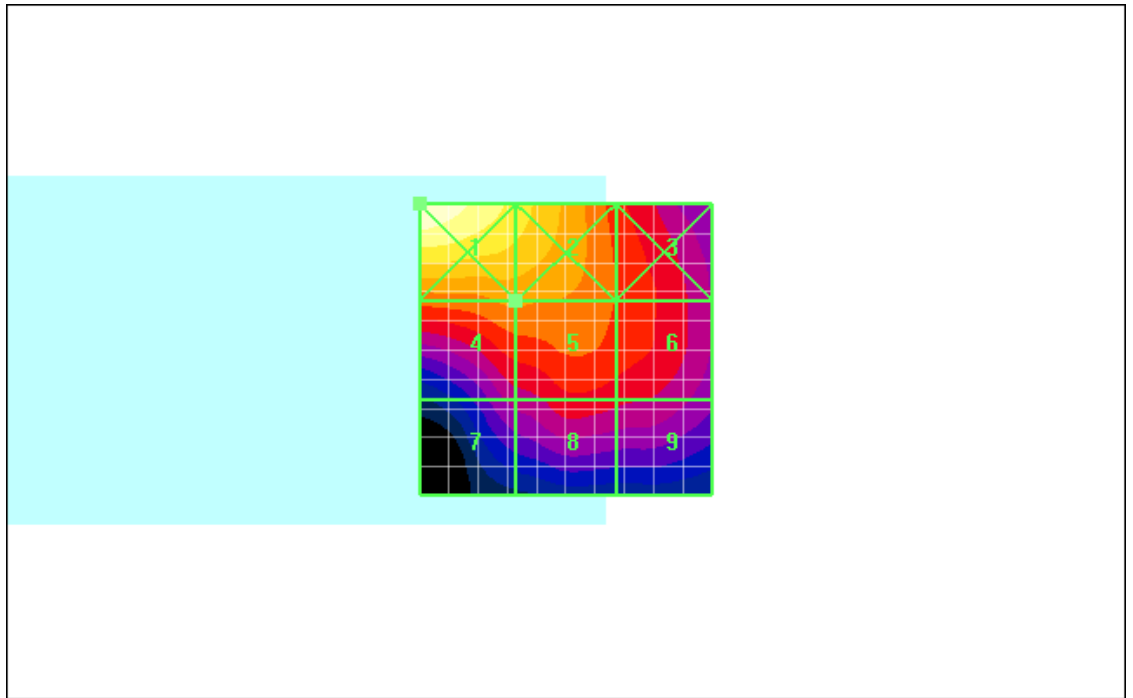
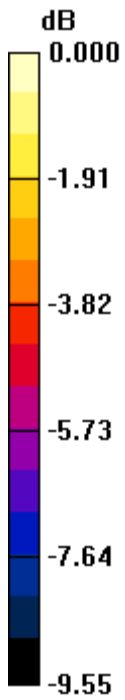
Grid 1 0.293 M2	Grid 2 0.246 M3	Grid 3 0.189 M3
Grid 4 0.207 M3	Grid 5 0.207 M3	Grid 6 0.189 M3
Grid 7 0.157 M3	Grid 8 0.173 M3	Grid 9 0.167 M3

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.293A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		183 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 4:52:10 PM

Test Laboratory: RTS

File Name: [HAC_H_WCDMA_Band_II_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:


dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.114 A/m; Power Drift = -0.038 dB

Maximum value of Total (measured) = 0.133 A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		184 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

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 = 0.096 A/m

Probe Modulation Factor = 0.920

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.114 A/m; Power Drift = -0.038 dB

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

Peak H-field in A/m

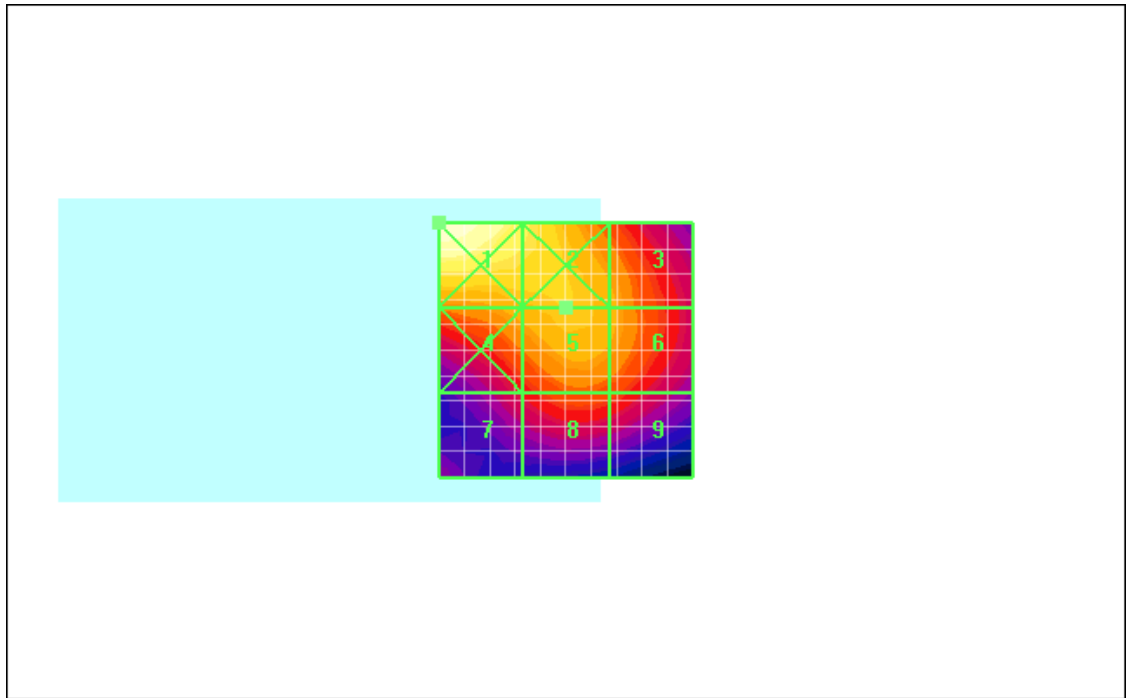
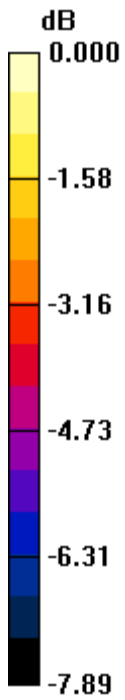
Grid 1 0.122 M4	Grid 2 0.103 M4	Grid 3 0.092 M4
Grid 4 0.093 M4	Grid 5 0.096 M4	Grid 6 0.092 M4
Grid 7 0.076 M4	Grid 8 0.083 M4	Grid 9 0.082 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.122A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		Page 186 (191)
	Author Data Daoud Attayi	Dates of Test July 03-Aug 11, 2009	Report No RTS-1689-0908-37

Date/Time: 21/08/2009 4:58:53 PM

Test Laboratory: RTS

File Name: [HAC_H_WCDMA_Band_II_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.090 A/m; Power Drift = 0.020 dB

Maximum value of Total (measured) = 0.110 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		187 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.076 A/m

Probe Modulation Factor = 0.920

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.090 A/m; Power Drift = 0.020 dB

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

Peak H-field in A/m

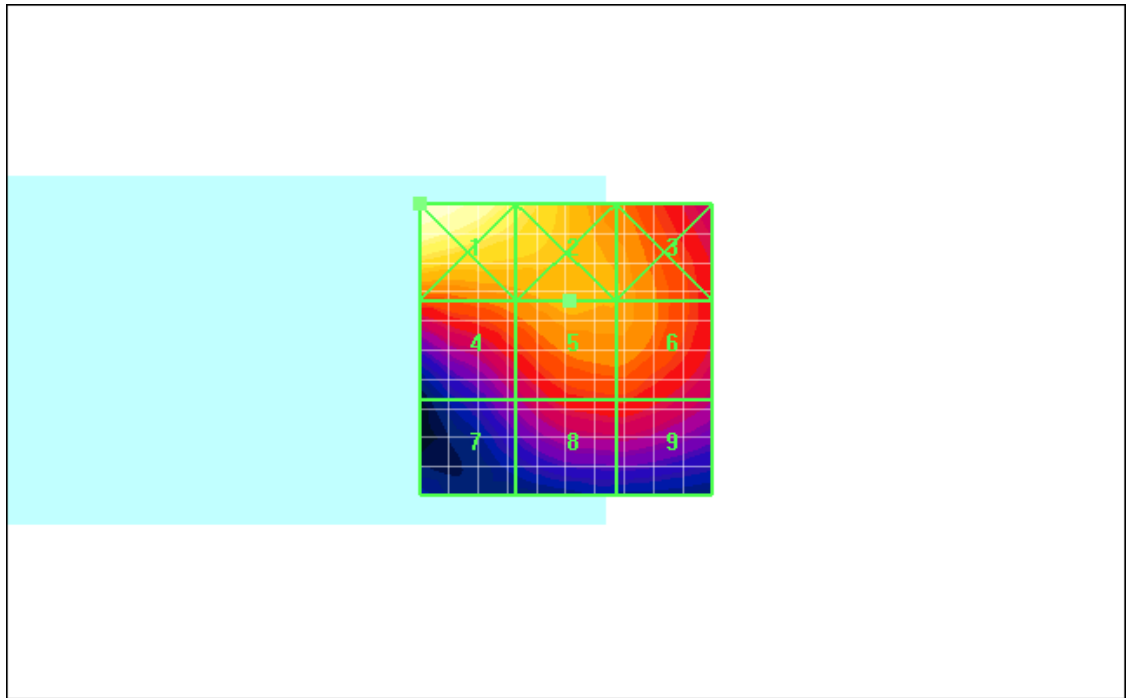
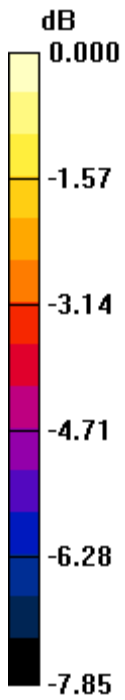
Grid 1 0.101 M4	Grid 2 0.086 M4	Grid 3 0.075 M4
Grid 4 0.073 M4	Grid 5 0.076 M4	Grid 6 0.075 M4
Grid 7 0.057 M4	Grid 8 0.066 M4	Grid 9 0.066 M4

Author Data
Daoud Attayi


Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.101A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		189 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

Date/Time: 21/08/2009 5:08:12 PM

Test Laboratory: RTS

File Name: [HAC_H_WCDMA_Band_II_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:


dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.089 A/m; Power Drift = -0.014 dB

Maximum value of Total (measured) = 0.116 A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM71UW		190 (191)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	July 03-Aug 11, 2009	RTS-1689-0908-37	L6ARCM70UW

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 = 0.075 A/m

Probe Modulation Factor = 0.920

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.089 A/m; Power Drift = -0.014 dB

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

Peak H-field in A/m

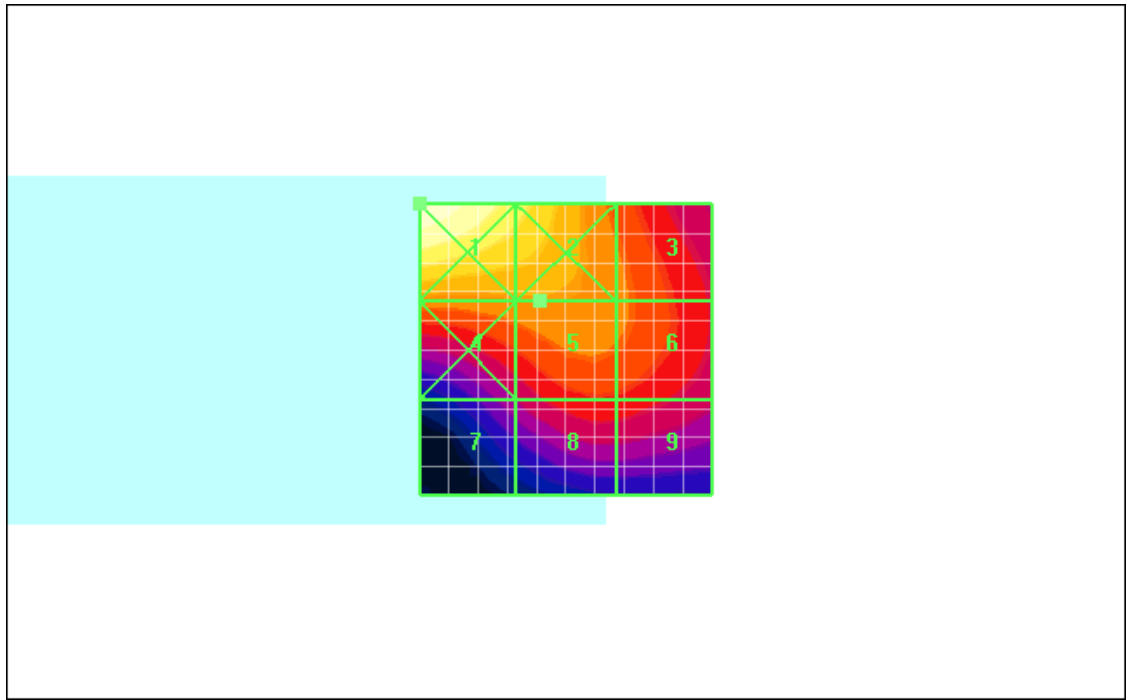
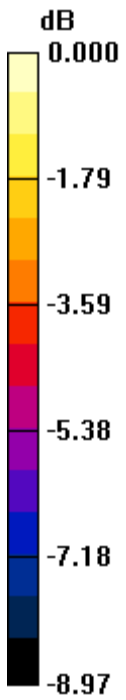
Grid 1	Grid 2	Grid 3
0.107 M4	0.089 M4	0.072 M4
Grid 4	Grid 5	Grid 6
0.075 M4	0.075 M4	0.072 M4
Grid 7	Grid 8	Grid 9
0.057 M4	0.065 M4	0.065 M4

Author Data
Daoud Attayi

Dates of Test
July 03-Aug 11, 2009

Report No
RTS-1689-0908-37

FCC ID
L6ARCM70UW



0 dB = 0.107A/m