	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		Page 1 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

Annex A: Measurement data and plots

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



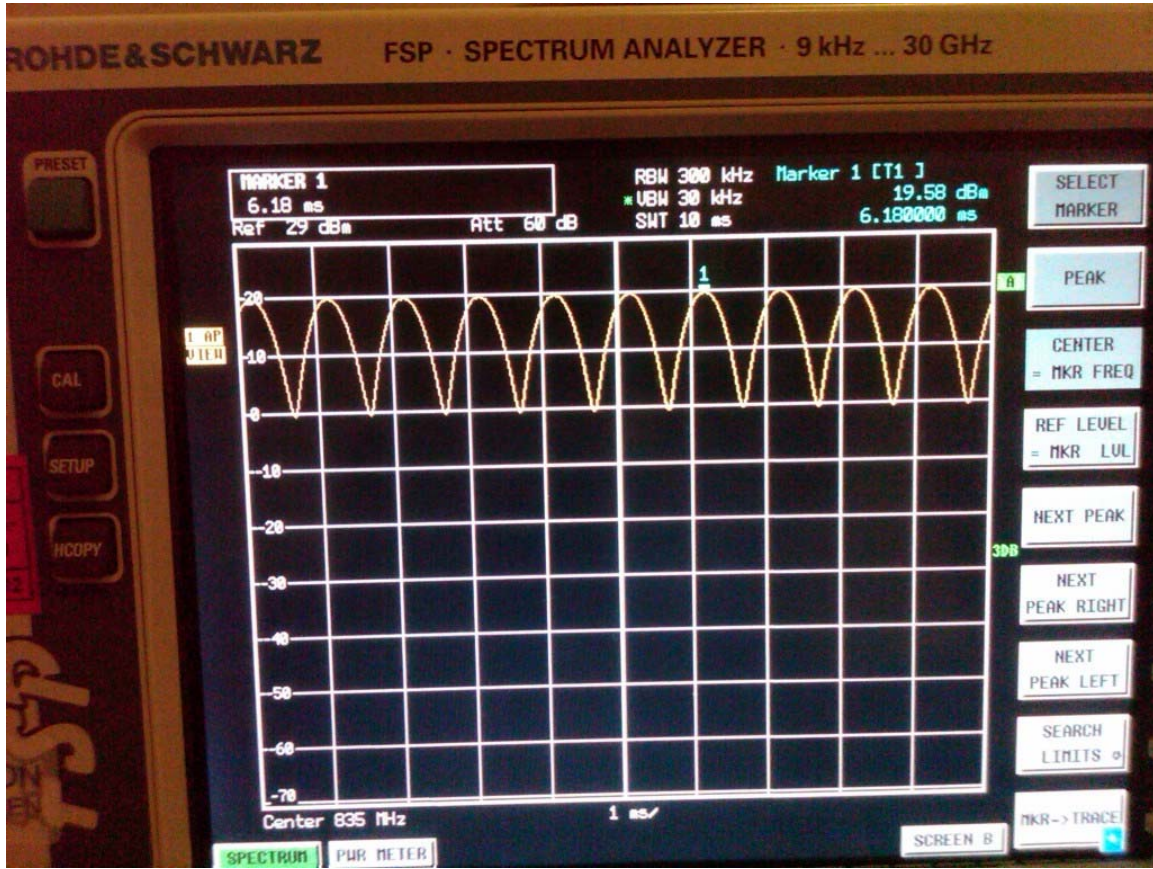
0 Hz Span CW Plot (835MHz)

Author Data
Daoud Attayi

Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



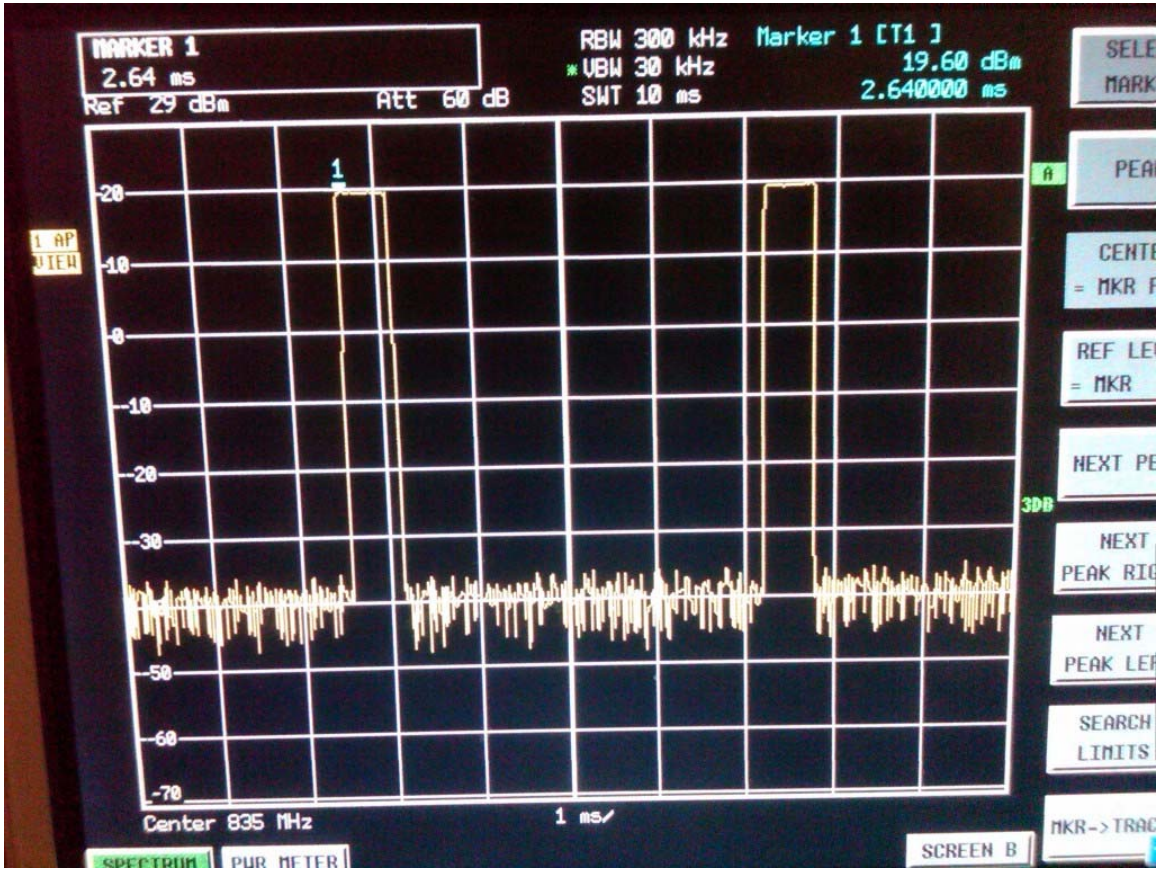
0 Hz Span 80% AM Plot (835MHz)

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

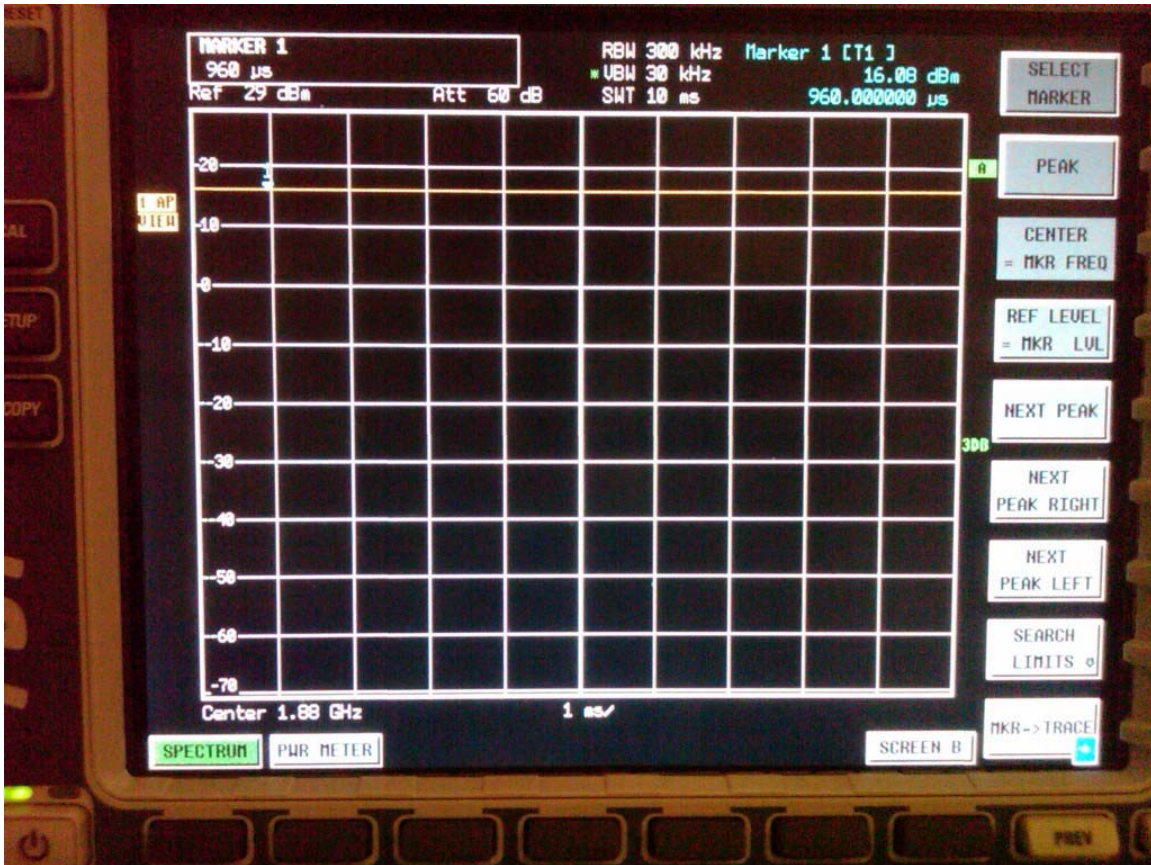
Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 Hz Span GSM (835MHz)

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		4 (180)
Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21	FCC ID L6ARCS70CW



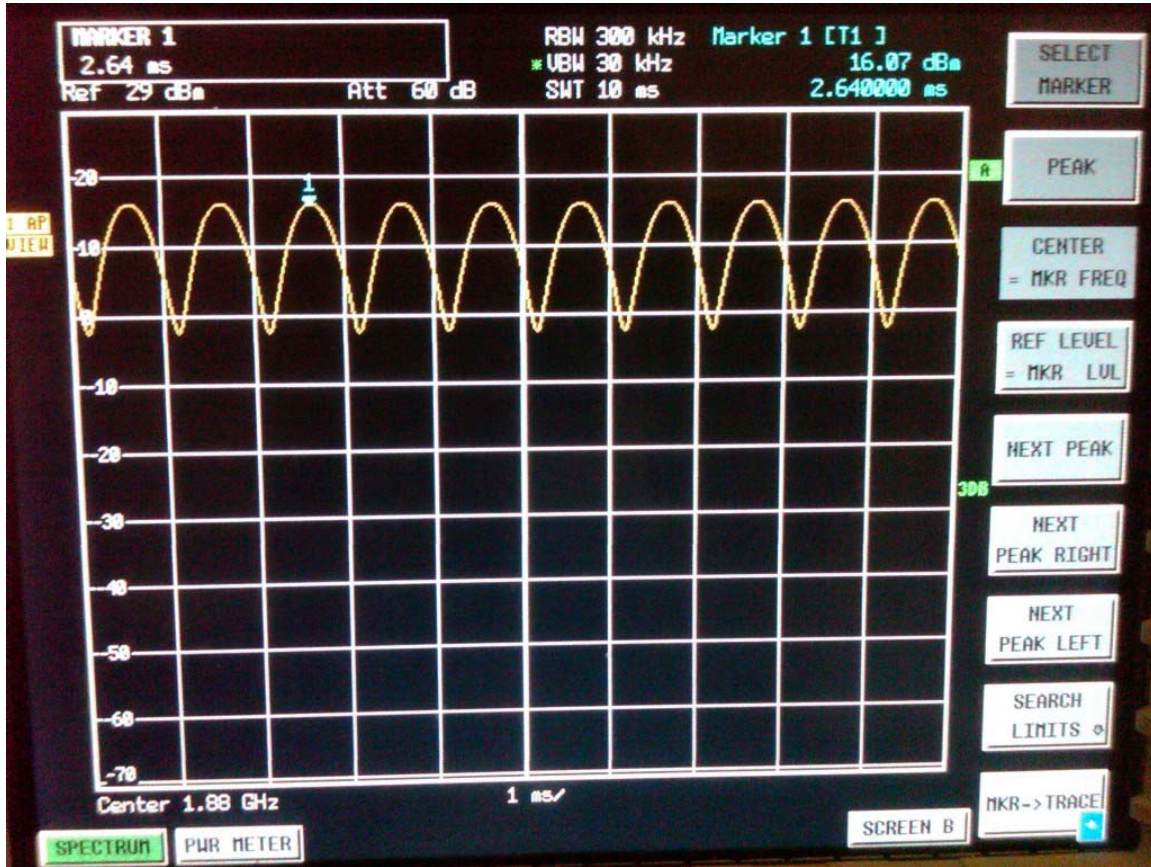
0 Hz Span CW Plot (1880MHz)

Author Data
Daoud Attayi

Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



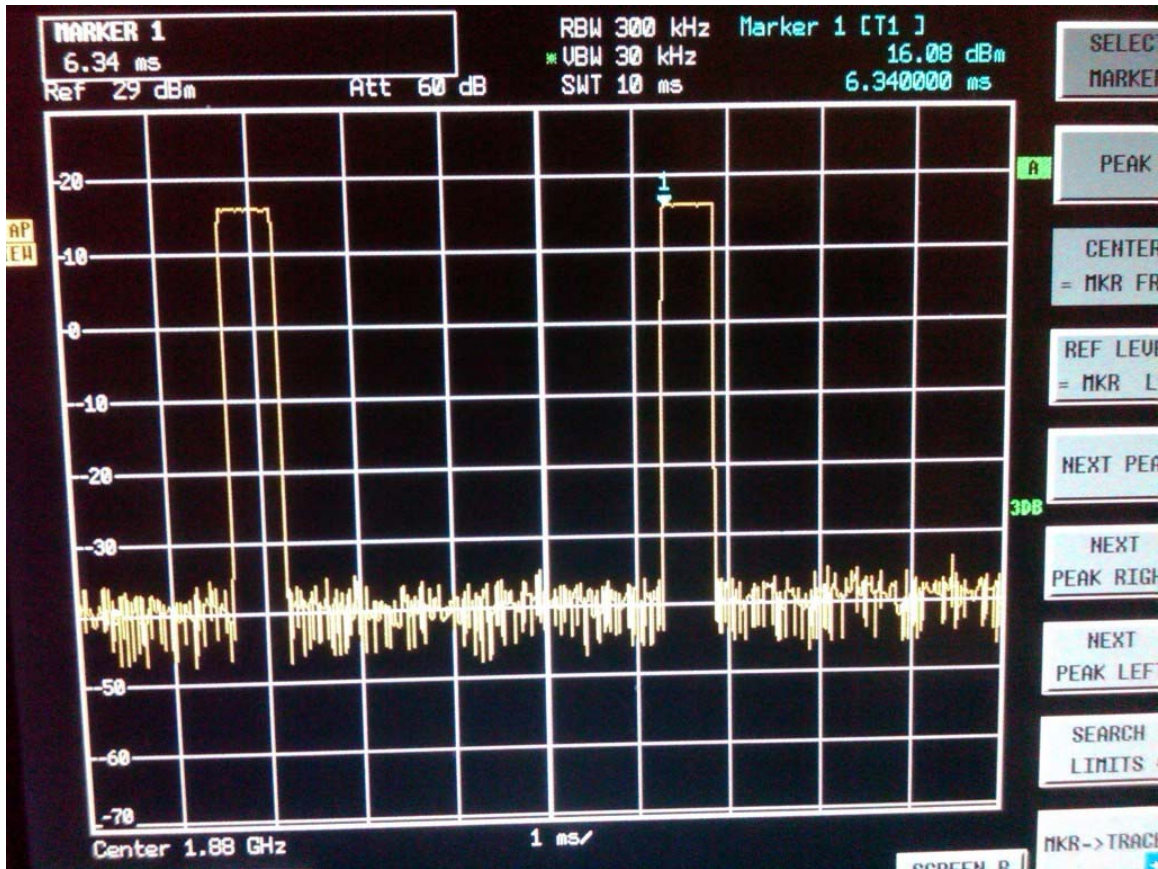
0 Hz Span 80% AM Plot (1880MHz)

Author Data
Daoud Attayi

Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



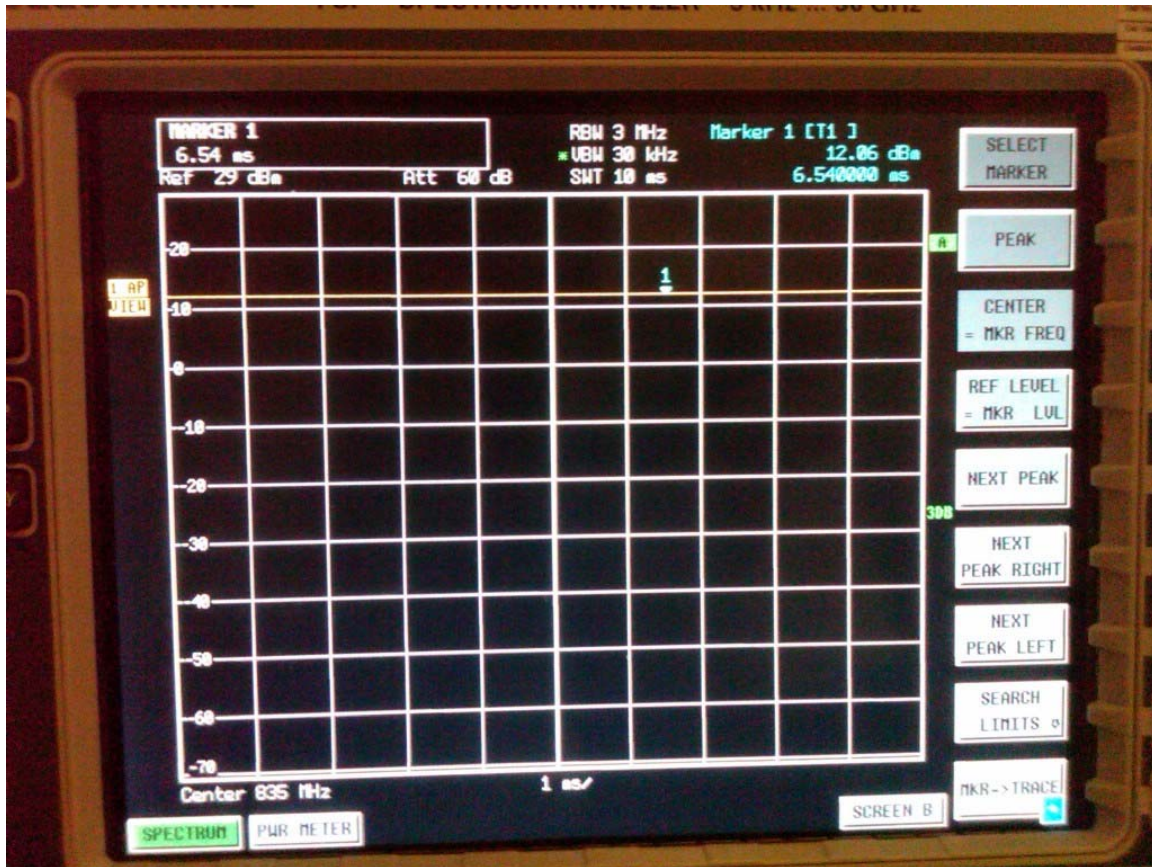
0 Hz Span GSM (1880MHz)

Author Data
Daoud Attayi

Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



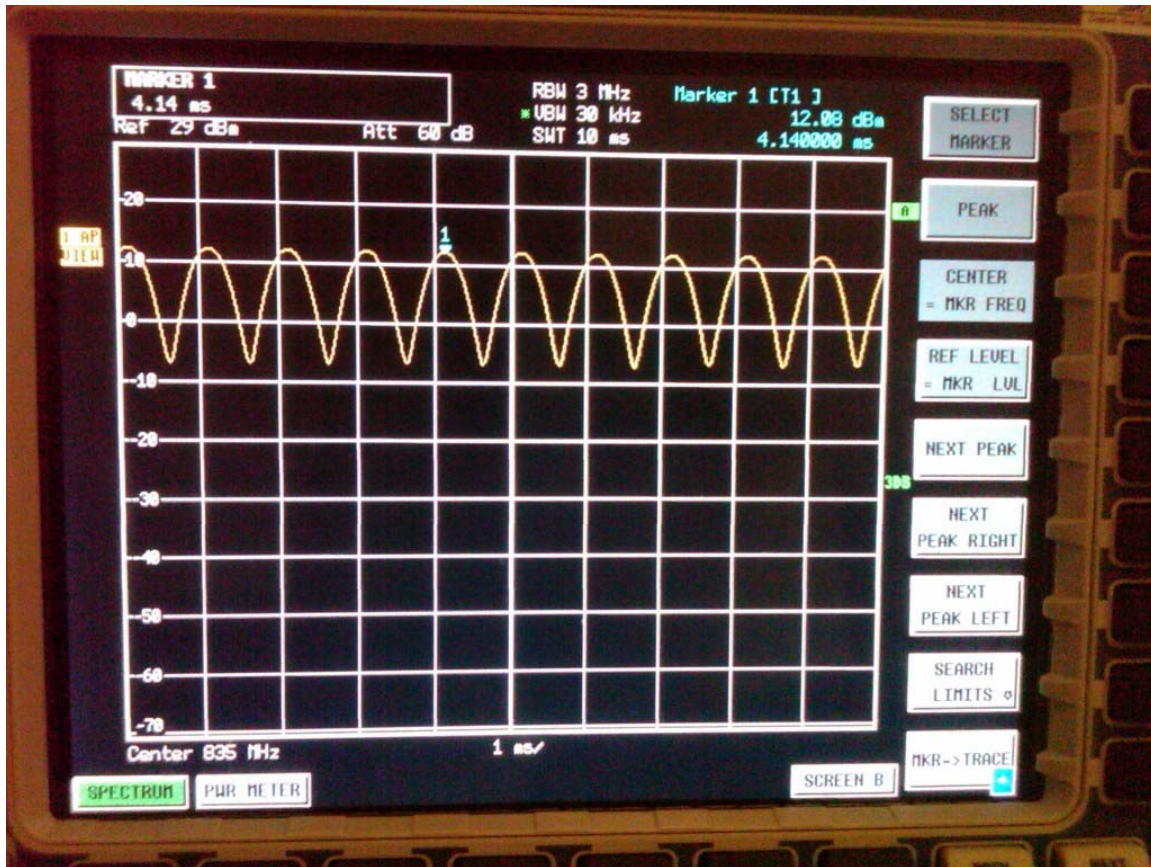
0 Hz Span CW Plot (835MHz)

Author Data
Daoud Attayi

Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 Hz Span 80% AM Plot (835MHz)

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 Hz Span CDMA (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		Page 10 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21



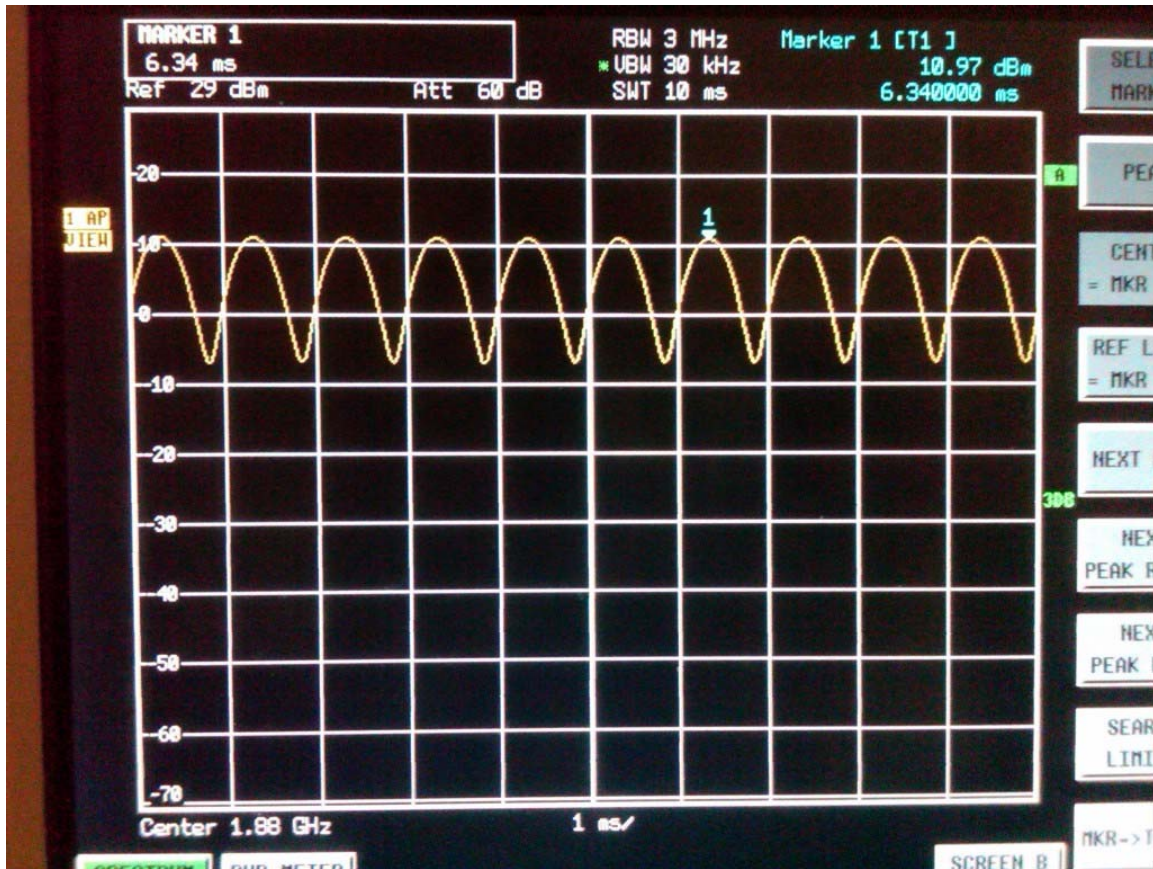
0 Hz Span CW Plot (1880MHz)

Author Data
Daoud Attayi

Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



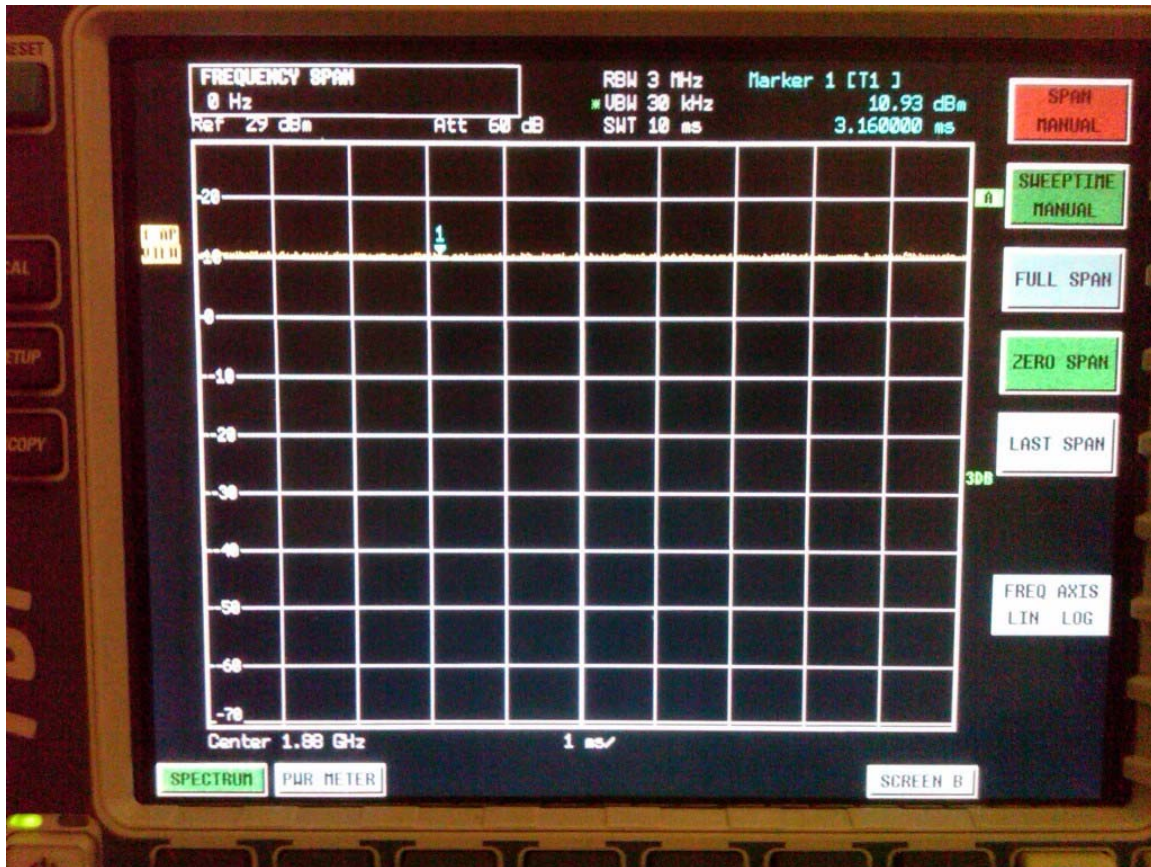
0 Hz Span 80% AM Plot (1880MHz)

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21


FCC ID
L6ARCS70CW



0 Hz Span CDMA (1880MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		Page 13 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

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 RCS71CW		14 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 1:36:08 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_CW835_20.00dBm

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 104.6 V/m; Power Drift = 0.019 dB

Maximum value of Total (measured) = 161.6 V/m

E Scan - measurement distance from the probe sensor center to

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		15 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 164.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 104.6 V/m; Power Drift = 0.019 dB

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

Peak E-field in V/m

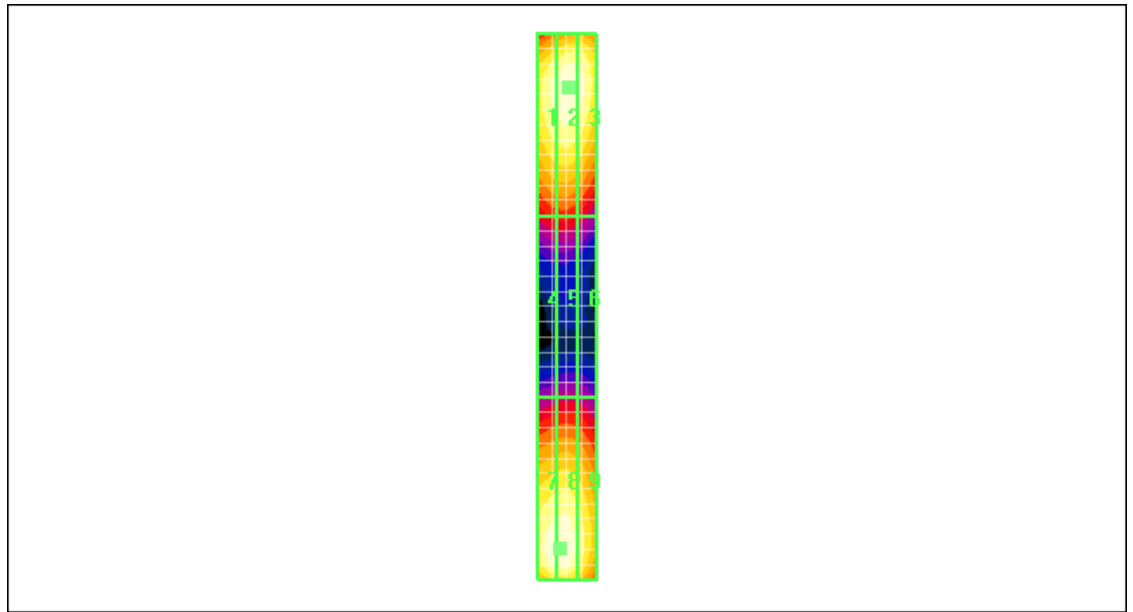
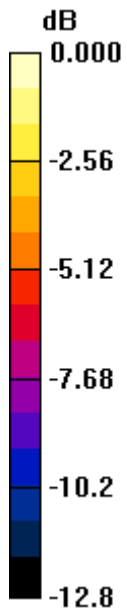
Grid 1	Grid 2	Grid 3
155.6 M4	161.0 M4	157.6 M4
Grid 4	Grid 5	Grid 6
86.3 M4	87.2 M4	82.1 M4
Grid 7	Grid 8	Grid 9
162.9 M4	164.1 M4	149.0 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 164.1V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		17 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 1:44:50 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_CW835_PMF_GSM

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 102.1 V/m; Power Drift = 0.108 dB

Maximum value of Total (measured) = 154.9 V/m

E Scan - measurement distance from the probe sensor center to

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		18 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 157.9 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 102.1 V/m; Power Drift = 0.108 dB

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

Peak E-field in V/m

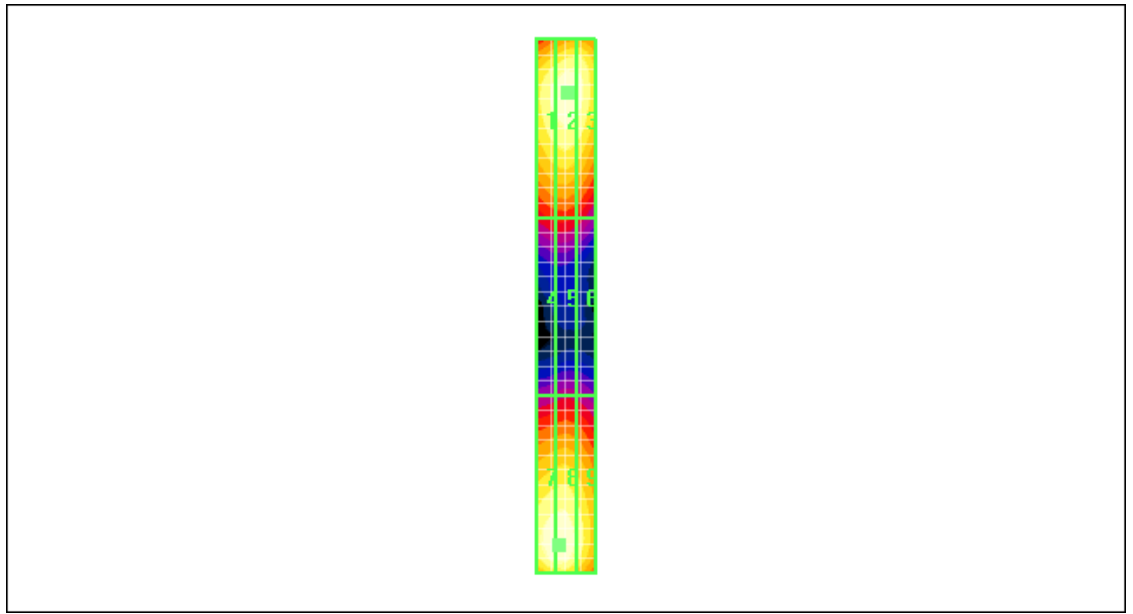
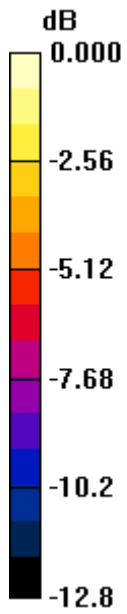
Grid 1	Grid 2	Grid 3
148.7 M4	154.3 M4	151.6 M4
Grid 4	Grid 5	Grid 6
82.4 M4	83.2 M4	78.9 M4
Grid 7	Grid 8	Grid 9
157.2 M4	157.9 M4	143.2 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 157.9V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		20 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 1:59:46 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_AM835_PMF_GSM

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 64.2 V/m; Power Drift = -0.096 dB

Maximum value of Total (measured) = 97.0 V/m

E Scan - measurement distance from the probe sensor center to

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		21 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 98.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 64.2 V/m; Power Drift = -0.096 dB

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

Peak E-field in V/m

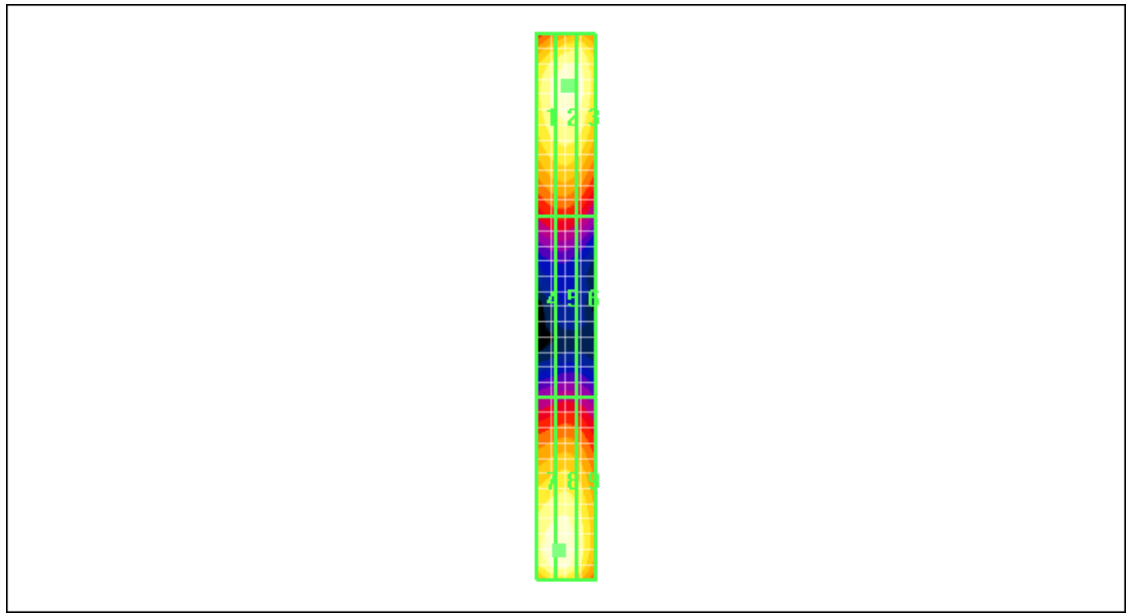
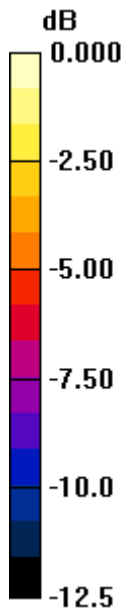
Grid 1	Grid 2	Grid 3
92.8 M4	95.8 M4	94.6 M4
Grid 4	Grid 5	Grid 6
52.2 M4	52.6 M4	49.8 M4
Grid 7	Grid 8	Grid 9

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 98.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		23 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 2:24:03 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_GSM835

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

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

Measurement Standard: DASY4 (High Precision Assessment)

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 = 34.9 V/m; Power Drift = -0.028 dB

Maximum value of Total (measured) = 54.7 V/m

E Scan - measurement distance from the probe sensor center to

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		Page 24 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

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

Maximum value of peak Total field = 55.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 34.9 V/m; Power Drift = -0.028 dB

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

Peak E-field in V/m

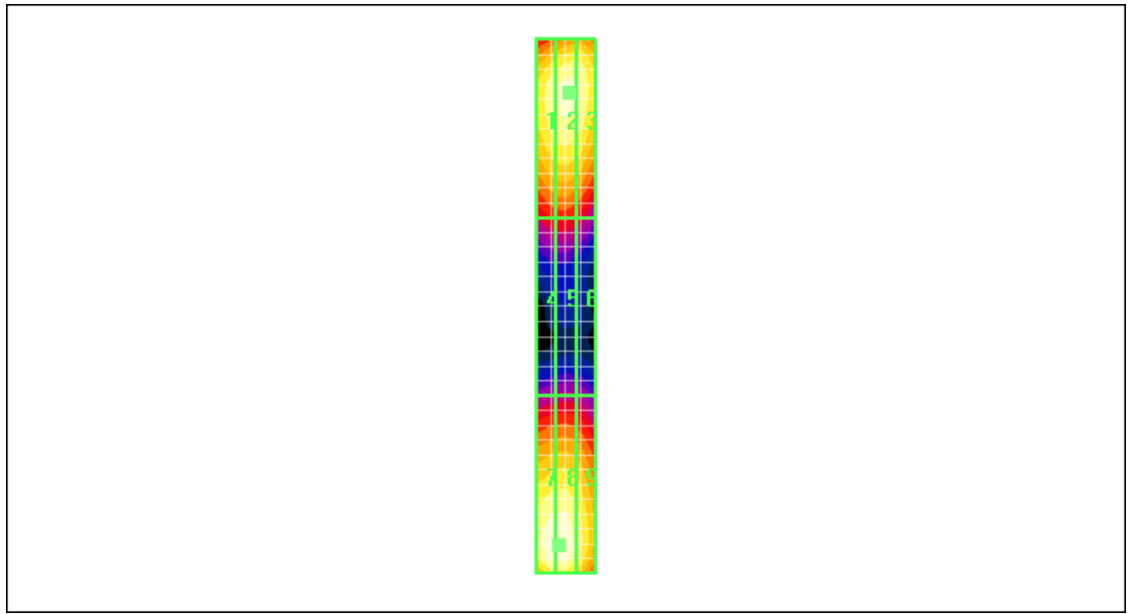
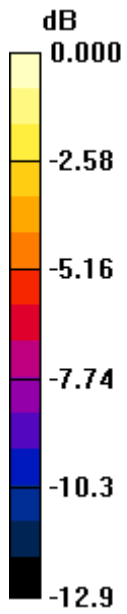
Grid 1 50.4 M4	Grid 2 52.4 M4	Grid 3 51.7 M4
Grid 4 28.6 M4	Grid 5 28.9 M4	Grid 6 27.5 M4
Grid 7 55.5 M4	Grid 8 55.6 M4	Grid 9 49.9 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 55.6V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		26 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 1:52:07 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_CW835_PMF_CDMA

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 43.8 V/m; Power Drift = -0.111 dB

Maximum value of Total (measured) = 66.3 V/m

E Scan - measurement distance from the probe sensor center to

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		27 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 67.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 43.8 V/m; Power Drift = -0.111 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
63.6 M4	65.9 M4	64.5 M4
Grid 4	Grid 5	Grid 6
35.3 M4	35.6 M4	33.7 M4
Grid 7	Grid 8	Grid 9

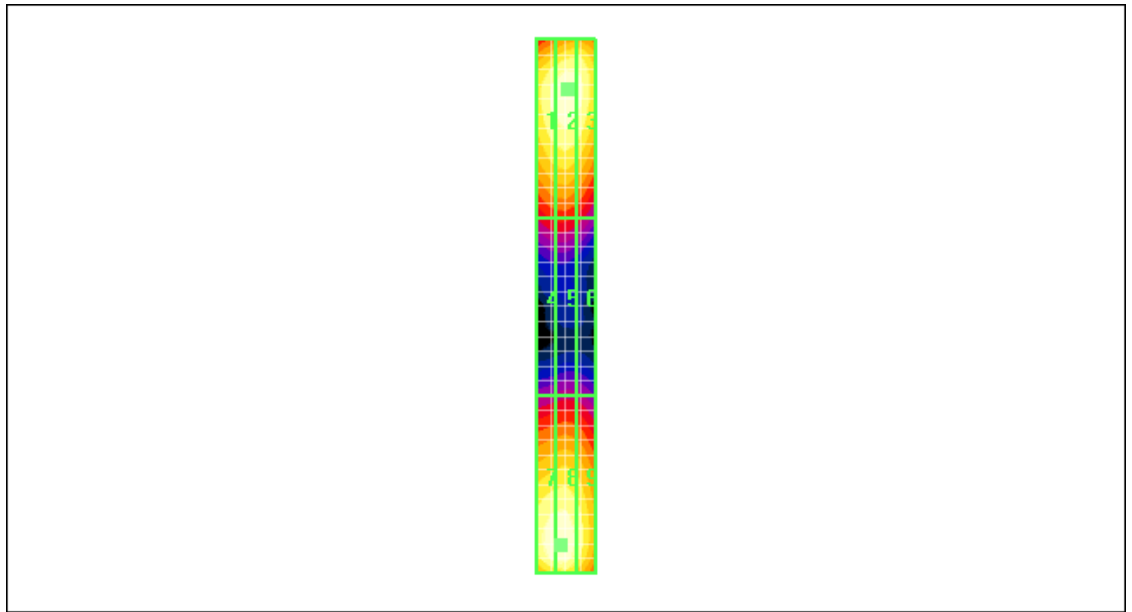
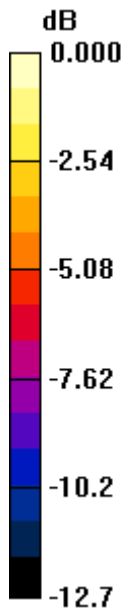
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Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 67.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		29 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 2:07:44 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_AM835_PMF_CDMA

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 27.4 V/m; Power Drift = 0.005 dB

Maximum value of Total (measured) = 41.9 V/m

E Scan - measurement distance from the probe sensor center to

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		30 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 42.5 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 27.4 V/m; Power Drift = 0.005 dB

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

Peak E-field in V/m

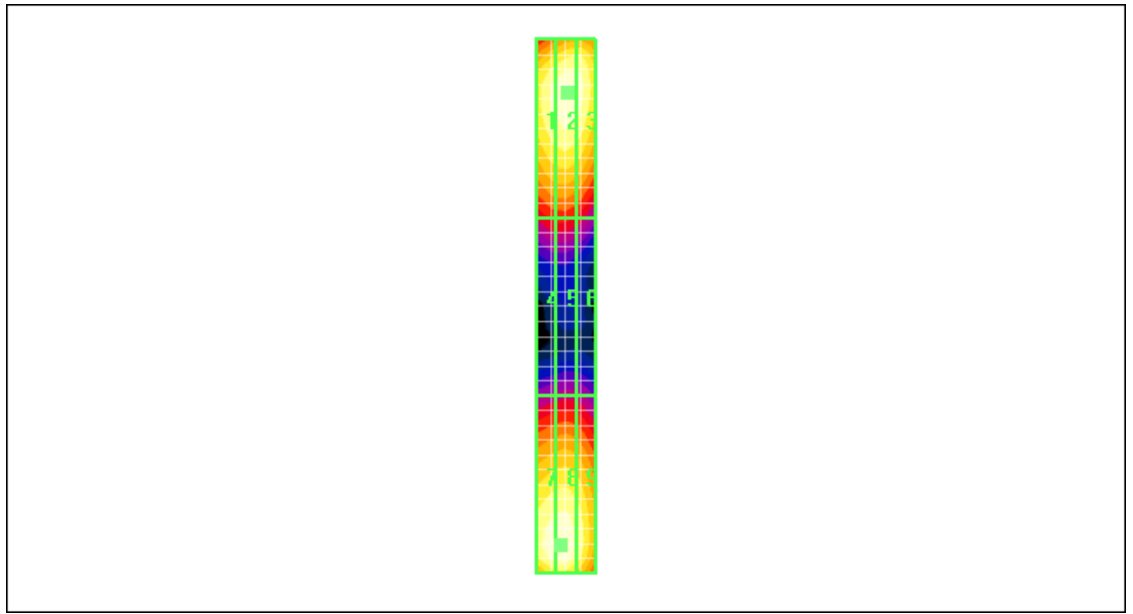
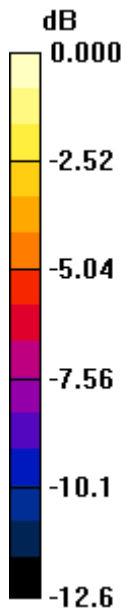
Grid 1	Grid 2	Grid 3
40.2 M4	41.6 M4	40.9 M4
Grid 4	Grid 5	Grid 6
22.5 M4	22.6 M4	21.5 M4
Grid 7	Grid 8	Grid 9
42.2 M4	42.5 M4	39.0 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 42.5V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		32 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 2:34:41 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_CDMA835

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

Communication System: CDMA 800; 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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 40.6 V/m; Power Drift = 0.130 dB

Maximum value of Total (measured) = 64.3 V/m

E Scan - measurement distance from the probe sensor center to

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		33 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 65.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 40.6 V/m; Power Drift = 0.130 dB

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

Peak E-field in V/m

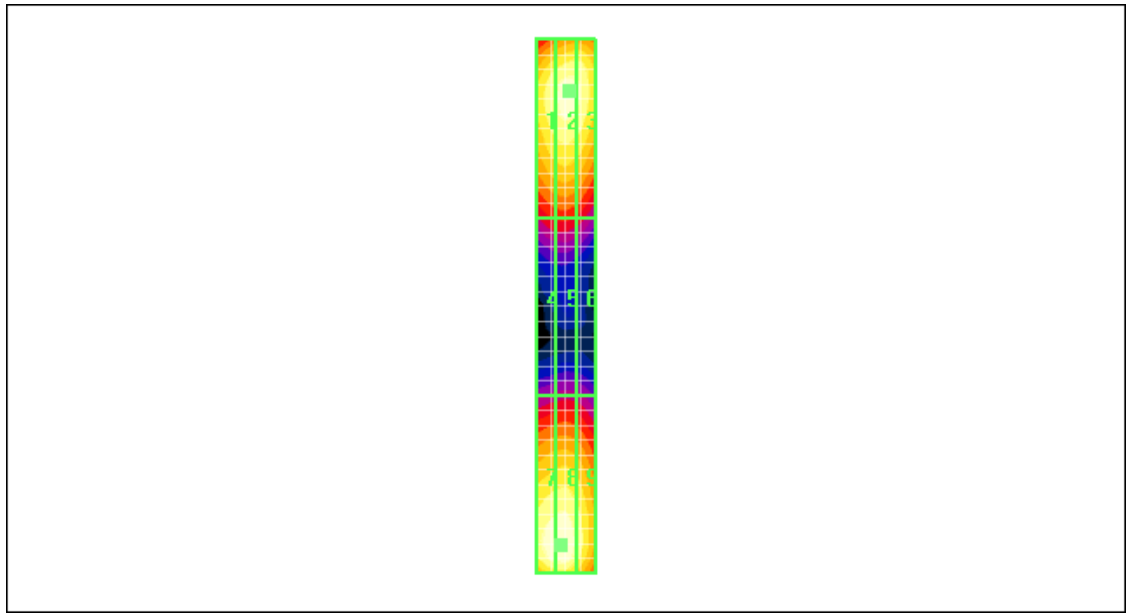
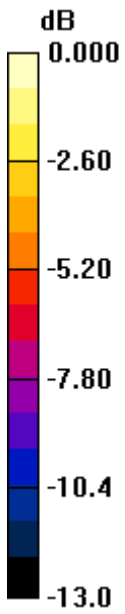
Grid 1	Grid 2	Grid 3
59.4 M4	61.7 M4	60.8 M4
Grid 4	Grid 5	Grid 6
33.5 M4	33.9 M4	32.3 M4
Grid 7	Grid 8	Grid 9
64.6 M4	65.3 M4	59.1 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 65.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		35 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 3:05:31 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_CW1880_20.00dBm

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 146.4 V/m; Power Drift = 0.029 dB

Maximum value of Total (measured) = 129.4 V/m

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		Page 36 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

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

Maximum value of peak Total field = 131.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 146.4 V/m; Power Drift = 0.029 dB

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

Peak E-field in V/m

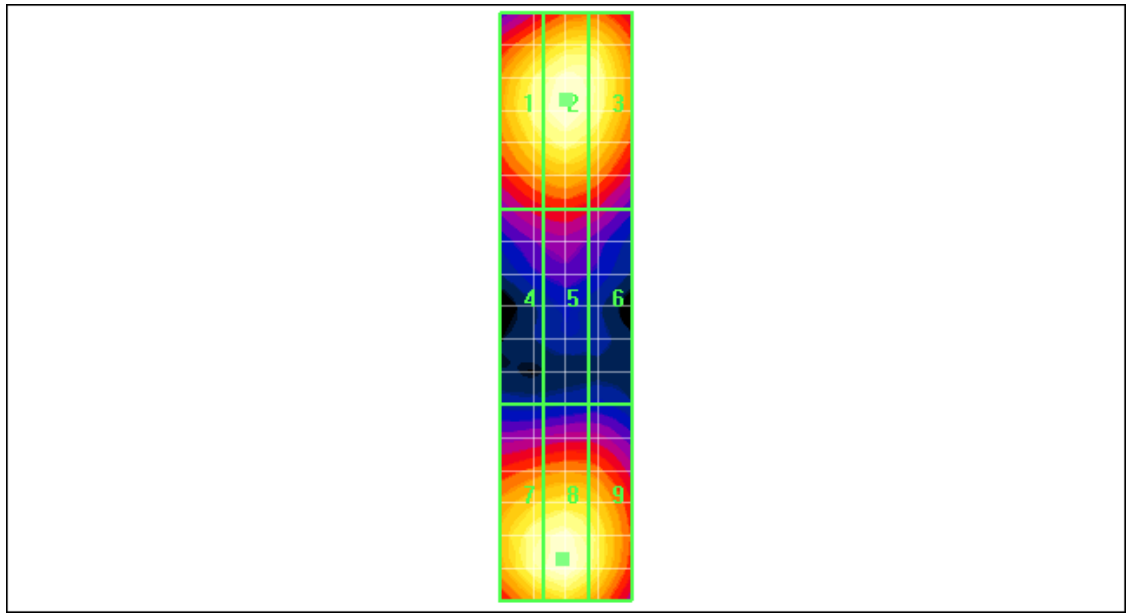
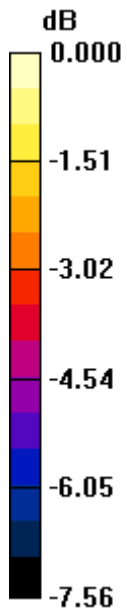
Grid 1 125.0 M2	Grid 2 129.7 M2	Grid 3 126.7 M2
Grid 4 86.8 M3	Grid 5 89.1 M3	Grid 6 84.9 M3
Grid 7 128.2 M2	Grid 8 131.8 M2	Grid 9 123.6 M2

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 131.8V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		38 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 3:21:37 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_CW1880_PMF_GSM

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 90.0 V/m; Power Drift = 0.028 dB

Maximum value of Total (measured) = 79.8 V/m

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		39 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 80.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 90.0 V/m; Power Drift = 0.028 dB

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

Peak E-field in V/m

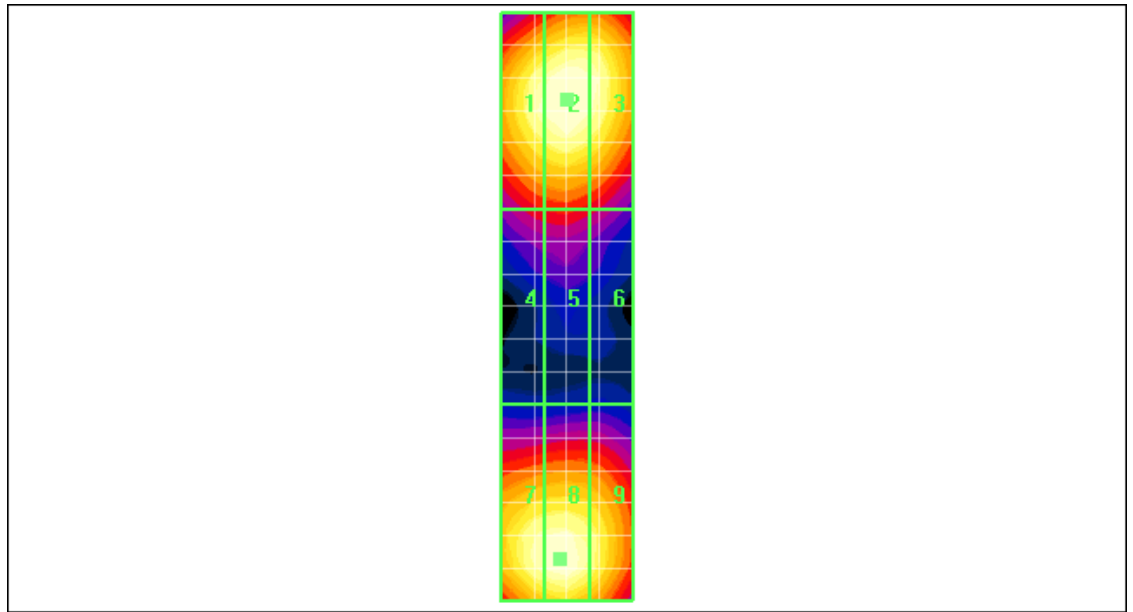
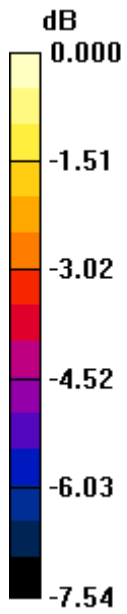
Grid 1	Grid 2	Grid 3
77.9 M3	80.1 M3	78.4 M3
Grid 4	Grid 5	Grid 6
54.0 M4	55.1 M4	52.4 M4
Grid 7	Grid 8	Grid 9
78.6 M3	79.9 M3	75.3 M3

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 80.1V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		41 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 3:27:32 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_AM_1880_PMF_GSM

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 57.5 V/m; Power Drift = -0.042 dB

Maximum value of Total (measured) = 50.3 V/m

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		42 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 50.9 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 57.5 V/m; Power Drift = -0.042 dB

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

Peak E-field in V/m

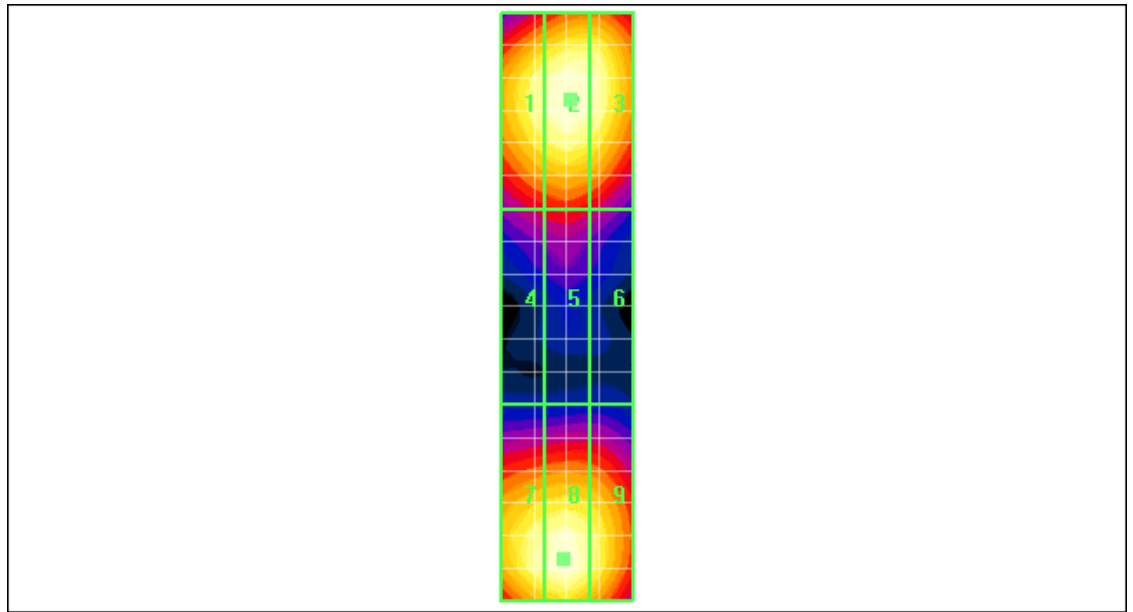
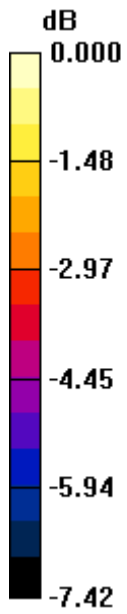
Grid 1	Grid 2	Grid 3
48.7 M4	50.5 M4	49.6 M4
Grid 4	Grid 5	Grid 6
33.7 M4	35.0 M4	33.1 M4
Grid 7	Grid 8	Grid 9
49.4 M4	50.9 M4	48.0 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 50.9V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		44 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 2:51:25 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_GSM1880

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

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: TCoil Section

Measurement Standard: DASY4 (High Precision Assessment)

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 = 30.9 V/m; Power Drift = -0.040 dB

Maximum value of Total (measured) = 27.1 V/m

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		45 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 27.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 30.9 V/m; Power Drift = -0.040 dB

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

Peak E-field in V/m

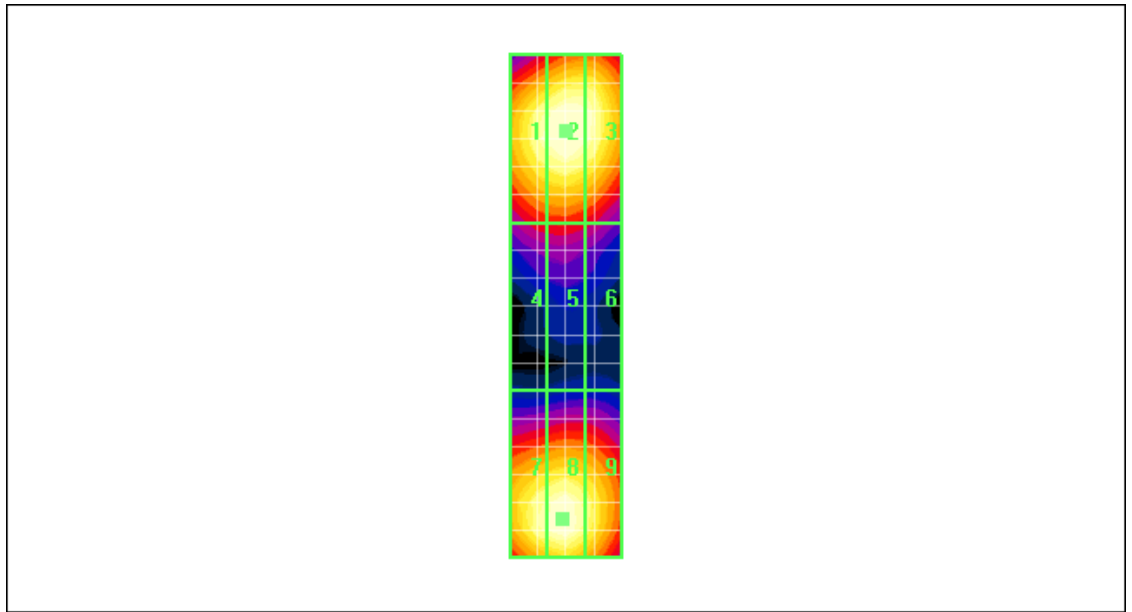
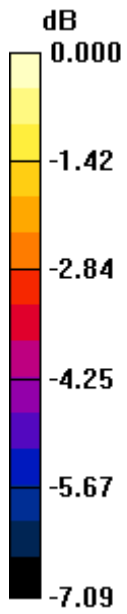
Grid 1	Grid 2	Grid 3
26.4 M4	27.2 M4	26.7 M4
Grid 4	Grid 5	Grid 6
18.7 M4	19.0 M4	18.2 M4
Grid 7	Grid 8	Grid 9
26.6 M4	27.2 M4	25.6 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 27.2V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		47 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 3:16:25 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_CW1880_PMF_CDMA

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

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

Measurement Standard: DASY4 (High Precision Assessment)

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 = 52.1 V/m; Power Drift = -0.007 dB

Maximum value of Total (measured) = 45.5 V/m

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		48 (180)
Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21	FCC ID L6ARCS70CW

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

Maximum value of peak Total field = 46.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 52.1 V/m; Power Drift = -0.007 dB

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

Peak E-field in V/m

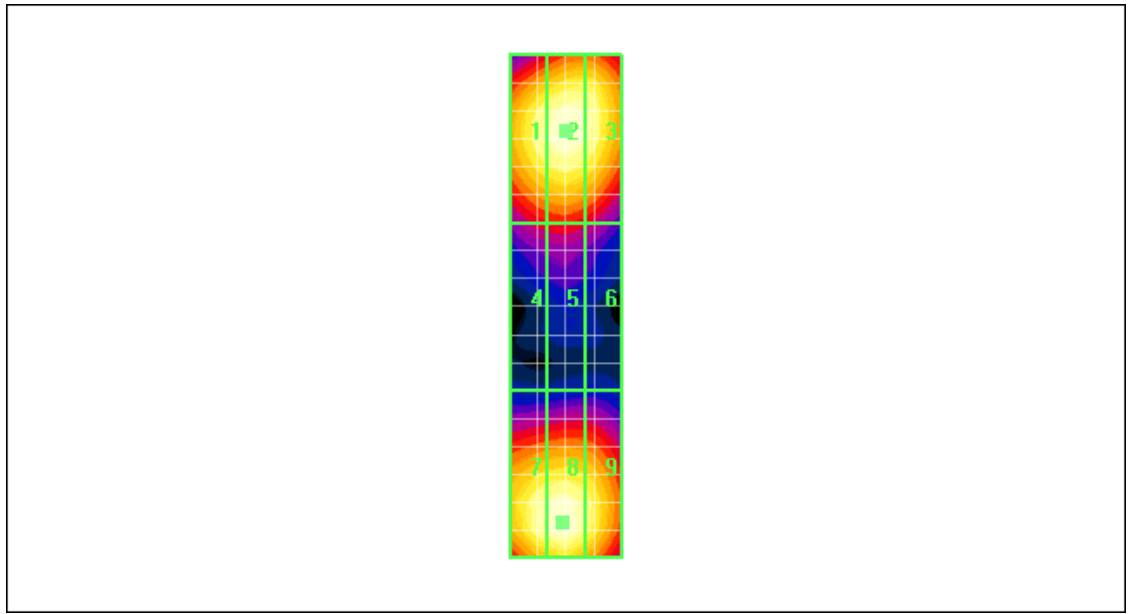
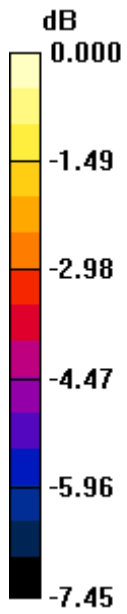
Grid 1	Grid 2	Grid 3
44.3 M4	45.7 M4	44.7 M4
Grid 4	Grid 5	Grid 6
30.8 M4	31.5 M4	30.0 M4
Grid 7	Grid 8	Grid 9
45.2 M4	46.3 M4	43.6 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 46.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		50 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 3:34:44 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_AM_1880_PMF_CDMA

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 33.4 V/m; Power Drift = -0.006 dB

Maximum value of Total (measured) = 29.4 V/m

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		51 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 29.9 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 33.4 V/m; Power Drift = -0.006 dB

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

Peak E-field in V/m

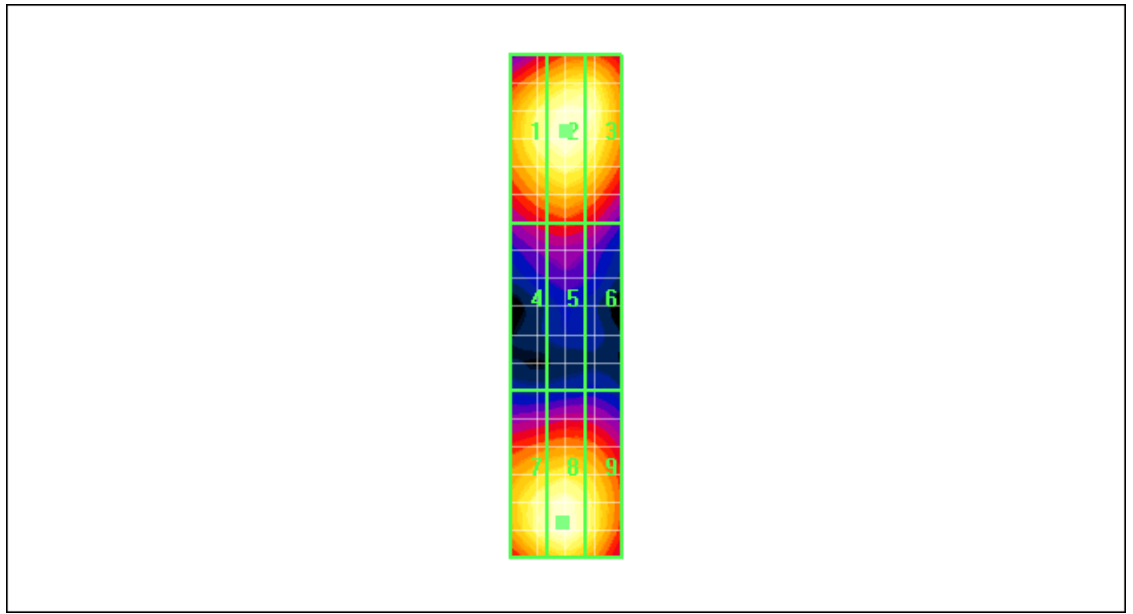
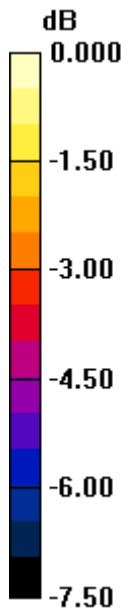
Grid 1	Grid 2	Grid 3
28.6 M4	29.5 M4	29.2 M4
Grid 4	Grid 5	Grid 6
19.9 M4	20.6 M4	19.7 M4
Grid 7	Grid 8	Grid 9
29.1 M4	29.9 M4	28.2 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 29.9V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		53 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 2:45:02 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_Dipole_CDMA1880

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

Communication System: CDMA 1900; 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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 50.6 V/m; Power Drift = 0.182 dB

Maximum value of Total (measured) = 45.2 V/m

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		54 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 45.9 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 50.6 V/m; Power Drift = 0.182 dB

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

Peak E-field in V/m

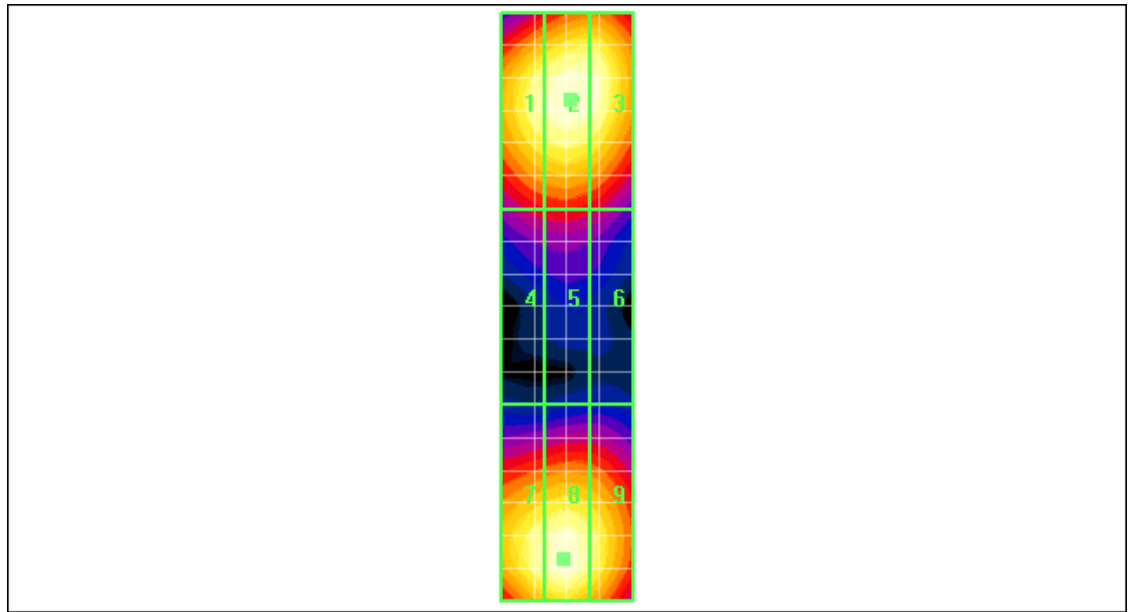
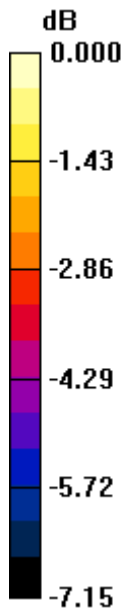
Grid 1	Grid 2	Grid 3
44.2 M4	45.4 M4	45.1 M4
Grid 4	Grid 5	Grid 6
31.2 M4	31.7 M4	30.6 M4
Grid 7	Grid 8	Grid 9
44.4 M4	45.9 M4	43.2 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 45.9V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		56 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 4:46:09 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_CW835_20.00dBm

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 (5x11x1):

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.488 A/m; Power Drift = -0.126 dB

Maximum value of Total (measured) = 0.456 A/m

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		57 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 0.457 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.488 A/m; Power Drift = -0.126 dB

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

Peak H-field in A/m

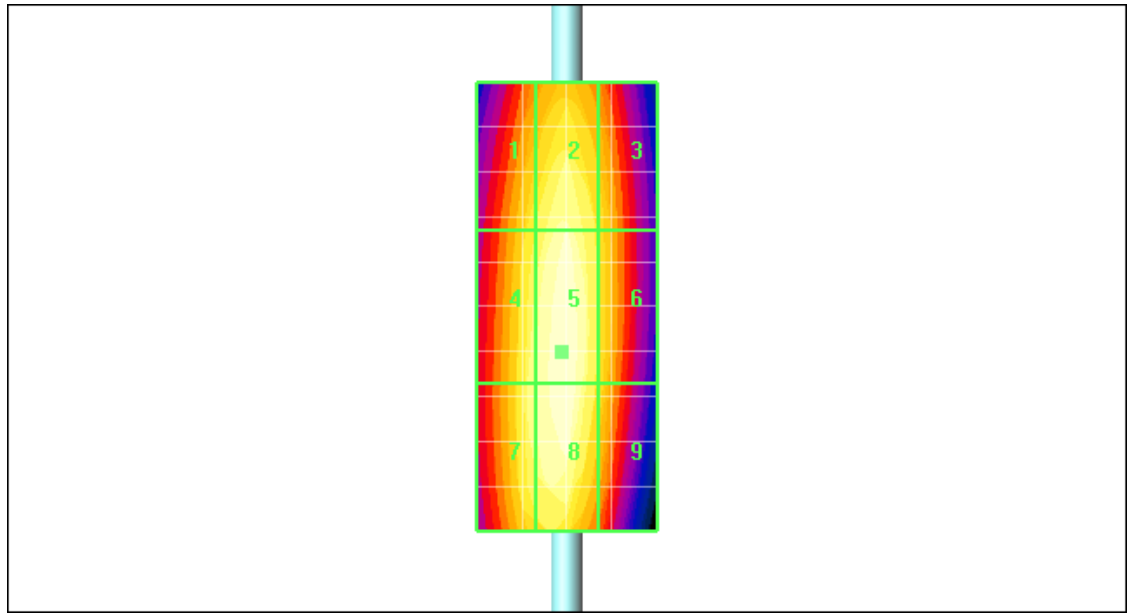
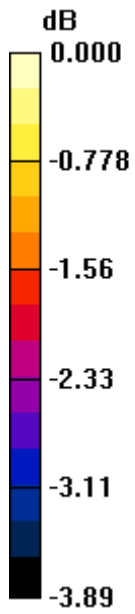
Grid 1 0.431 M4	Grid 2 0.445 M4	Grid 3 0.426 M4
Grid 4 0.444 M4	Grid 5 0.457 M4	Grid 6 0.431 M4
Grid 7 0.444 M4	Grid 8 0.456 M4	Grid 9 0.426 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.457A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		59 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 4:49:17 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_CW835_PMF_GSM

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 (5x11x1):

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.475 A/m; Power Drift = -0.109 dB

Maximum value of Total (measured) = 0.443 A/m

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		60 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 0.446 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 = -0.109 dB

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

Peak H-field in A/m

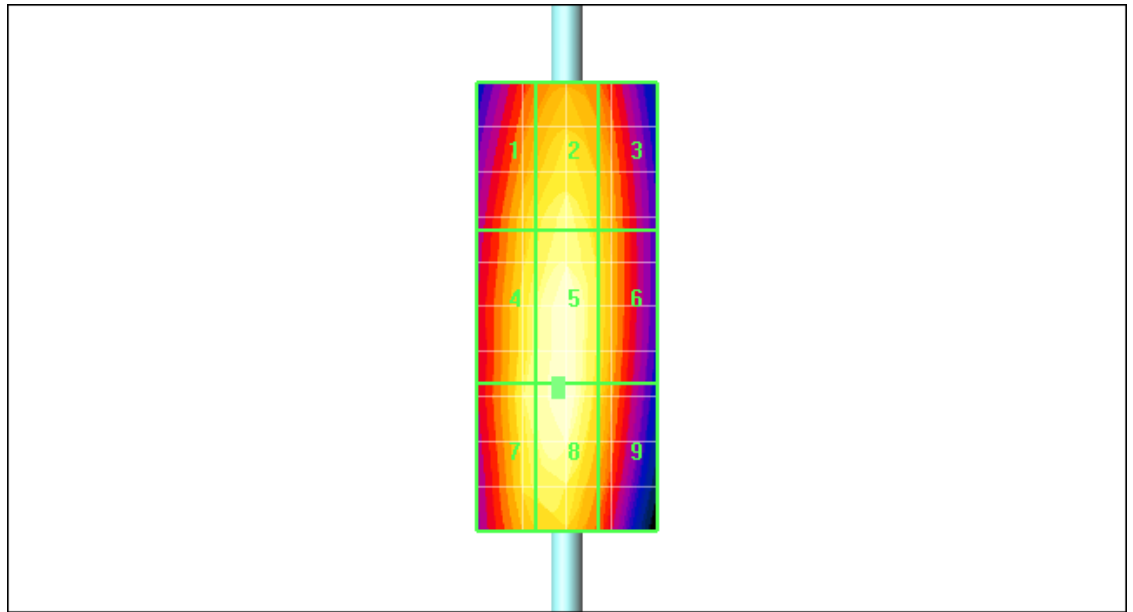
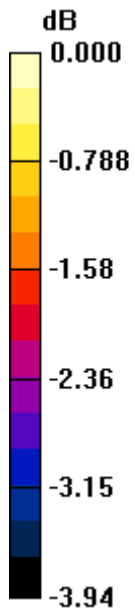
Grid 1	Grid 2	Grid 3
0.417 M4	0.428 M4	0.413 M4
Grid 4	Grid 5	Grid 6
0.434 M4	0.446 M4	0.418 M4
Grid 7	Grid 8	Grid 9
0.435 M4	0.446 M4	0.413 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.446A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		62 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 4:56:25 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_AM835_PMF_GSM

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

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

Measurement Standard: DASY4 (High Precision Assessment)

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 = 0.304 A/m; Power Drift = -0.104 dB

Maximum value of Total (measured) = 0.284 A/m

H Scan - measurement distance from the probe sensor center to

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		63 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 0.285 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.304 A/m; Power Drift = -0.104 dB

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

Peak H-field in A/m

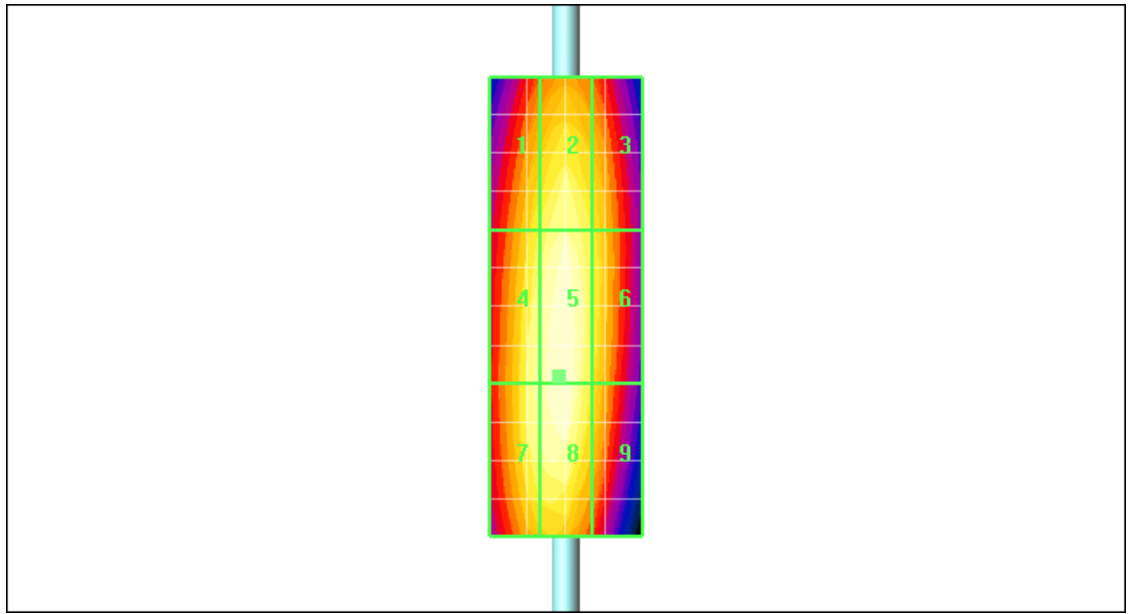
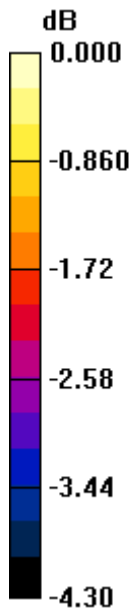
Grid 1	Grid 2	Grid 3
0.267 M4	0.276 M4	0.265 M4
Grid 4	Grid 5	Grid 6
0.279 M4	0.285 M4	0.269 M4
Grid 7	Grid 8	Grid 9
0.279 M4	0.285 M4	0.264 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.285A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		65 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 5:08:40 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_GSM835

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 0.171 A/m; Power Drift = 0.055 dB

Maximum value of Total (measured) = 0.160 A/m

H Scan - measurement distance from the probe sensor center to

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		66 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 0.161 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.171 A/m; Power Drift = 0.055 dB

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

Peak H-field in A/m

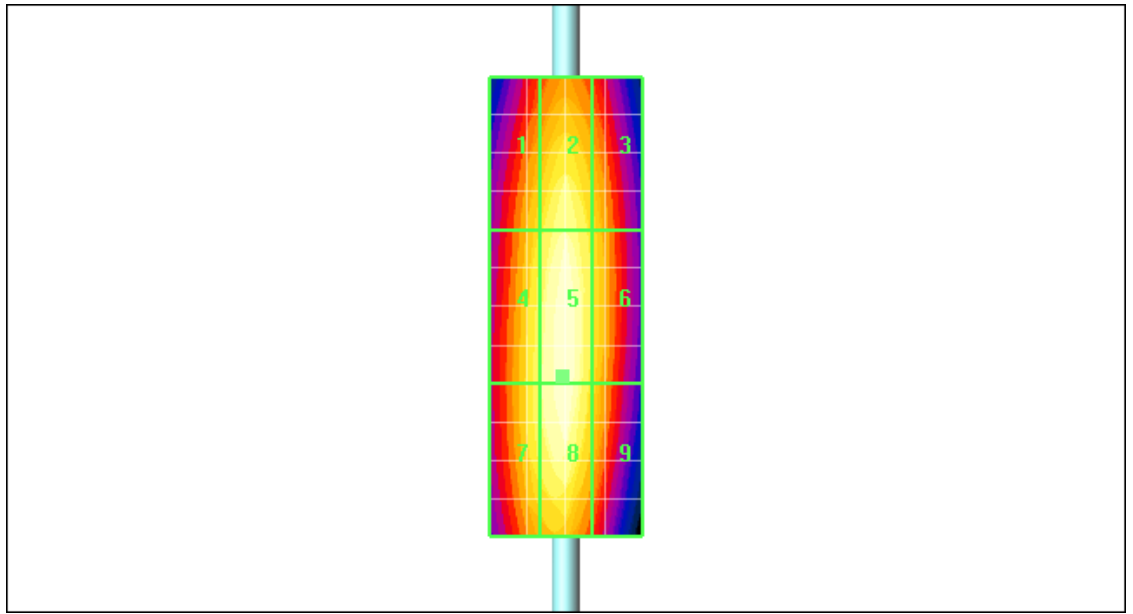
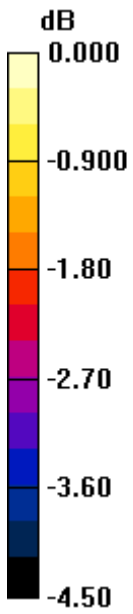
Grid 1	Grid 2	Grid 3
0.148 M4	0.155 M4	0.147 M4
Grid 4	Grid 5	Grid 6
0.154 M4	0.161 M4	0.150 M4
Grid 7	Grid 8	Grid 9
0.154 M4	0.161 M4	0.147 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.161A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		68 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 4:52:15 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_CW835_PMF_CDMA

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 (5x11x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.200 A/m; Power Drift = -0.056 dB

Maximum value of Total (measured) = 0.188 A/m

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		69 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 0.189 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.200 A/m; Power Drift = -0.056 dB

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

Peak H-field in A/m

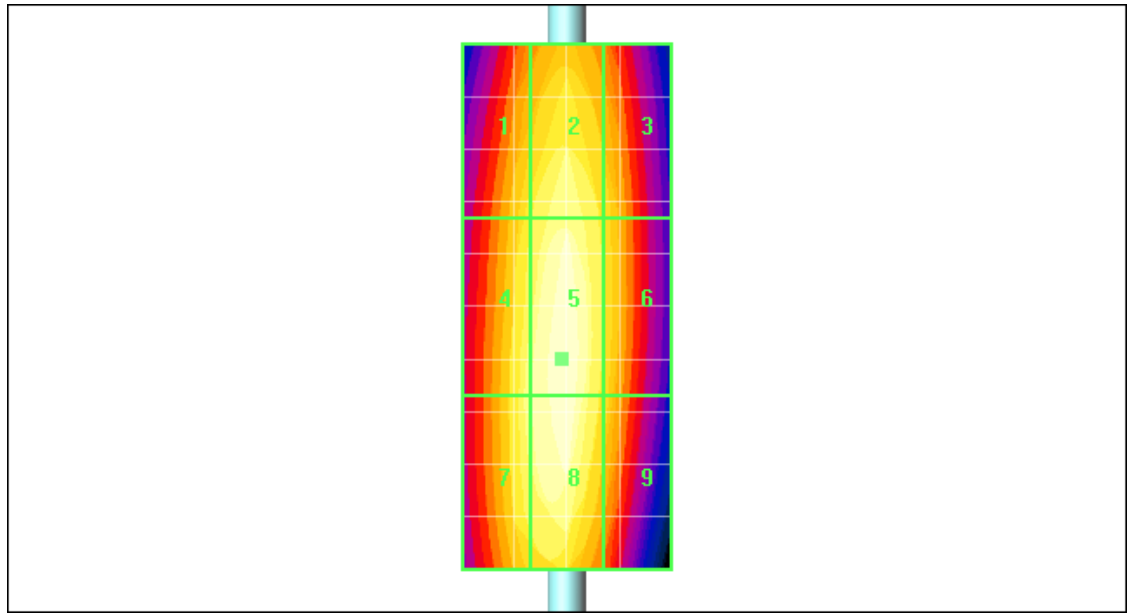
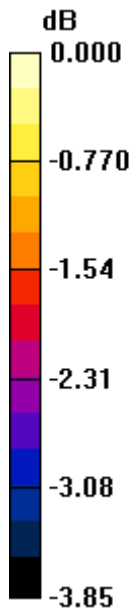
Grid 1	Grid 2	Grid 3
0.178 M4	0.183 M4	0.176 M4
Grid 4	Grid 5	Grid 6
0.183 M4	0.189 M4	0.178 M4
Grid 7	Grid 8	Grid 9
0.183 M4	0.188 M4	0.176 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.189A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		71 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 4:59:46 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_AM835_PMF_CDMA

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 0.142 A/m; Power Drift = 0.070 dB

Maximum value of Total (measured) = 0.135 A/m

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x121x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		72 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 0.135 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.142 A/m; Power Drift = 0.070 dB

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

Peak H-field in A/m

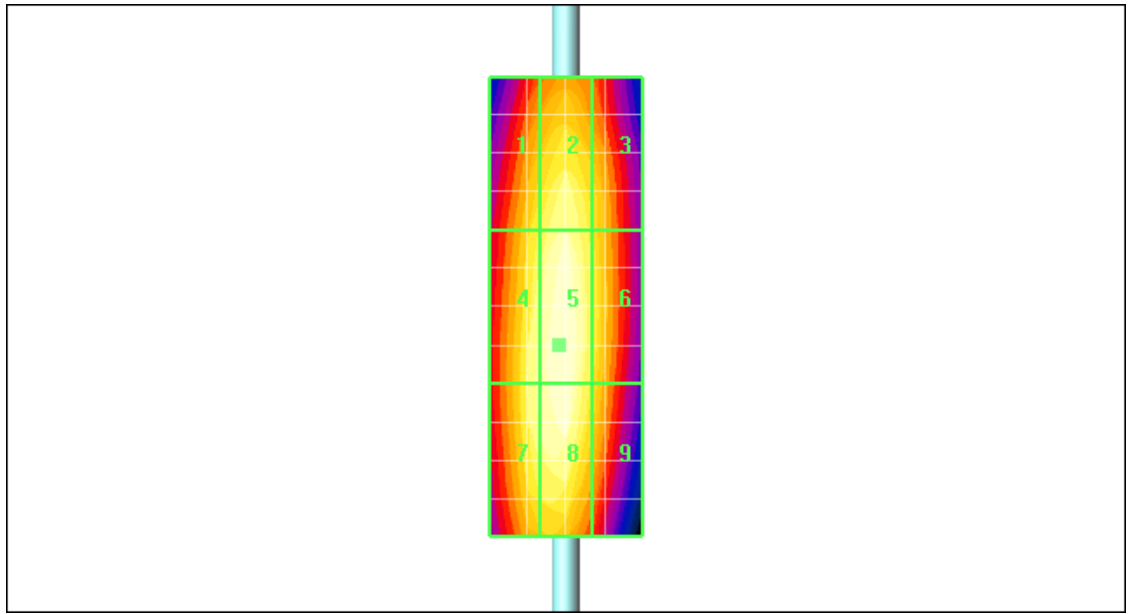
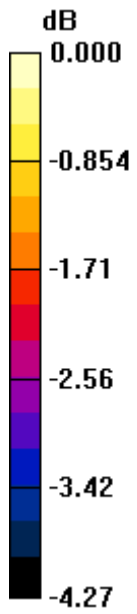
Grid 1	Grid 2	Grid 3
0.127 M4	0.131 M4	0.125 M4
Grid 4	Grid 5	Grid 6
0.132 M4	0.135 M4	0.127 M4
Grid 7	Grid 8	Grid 9
0.132 M4	0.134 M4	0.125 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.135A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		74 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 5:04:09 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_CDMA835

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

Communication System: CDMA 800; 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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 (5x11x1):

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.191 A/m; Power Drift = -0.078 dB

Maximum value of Total (measured) = 0.179 A/m

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		Page 75 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

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

Maximum value of peak Total field = 0.179 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.191 A/m; Power Drift = -0.078 dB

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

Peak H-field in A/m

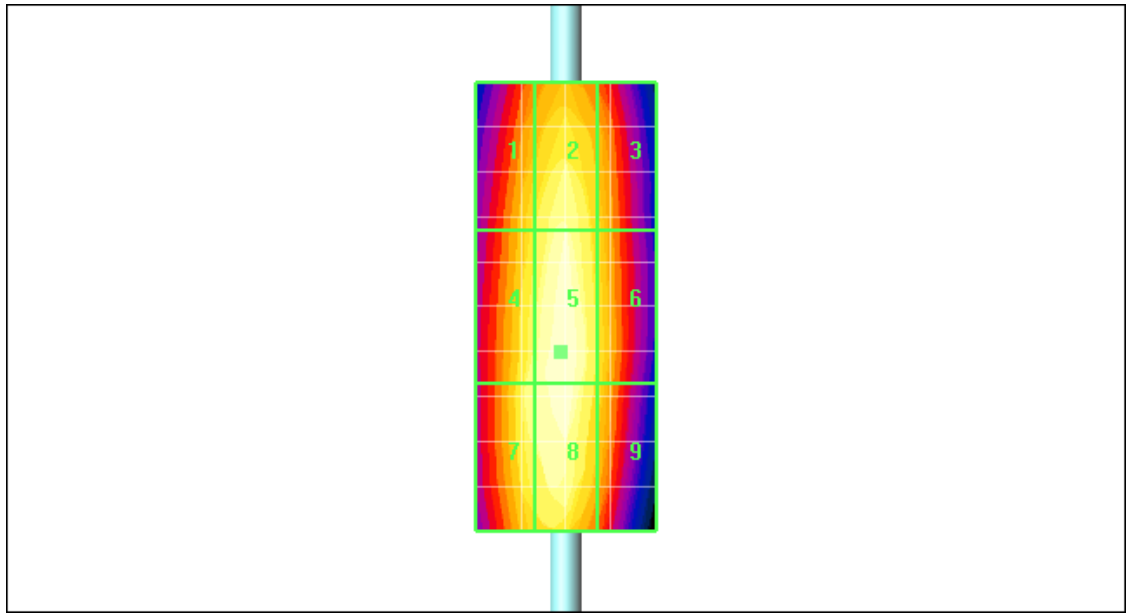
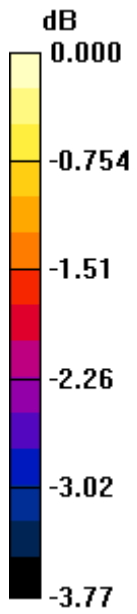
Grid 1 0.169 M4	Grid 2 0.174 M4	Grid 3 0.166 M4
Grid 4 0.174 M4	Grid 5 0.179 M4	Grid 6 0.169 M4
Grid 7 0.175 M4	Grid 8 0.178 M4	Grid 9 0.167 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.179A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		77 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 3:51:17 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_CW1880_20.00dBm

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 (5x13x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.461 A/m; Power Drift = 0.037 dB

Maximum value of Total (measured) = 0.435 A/m

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x121x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		78 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 0.436 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.461 A/m; Power Drift = 0.037 dB

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

Peak H-field in A/m

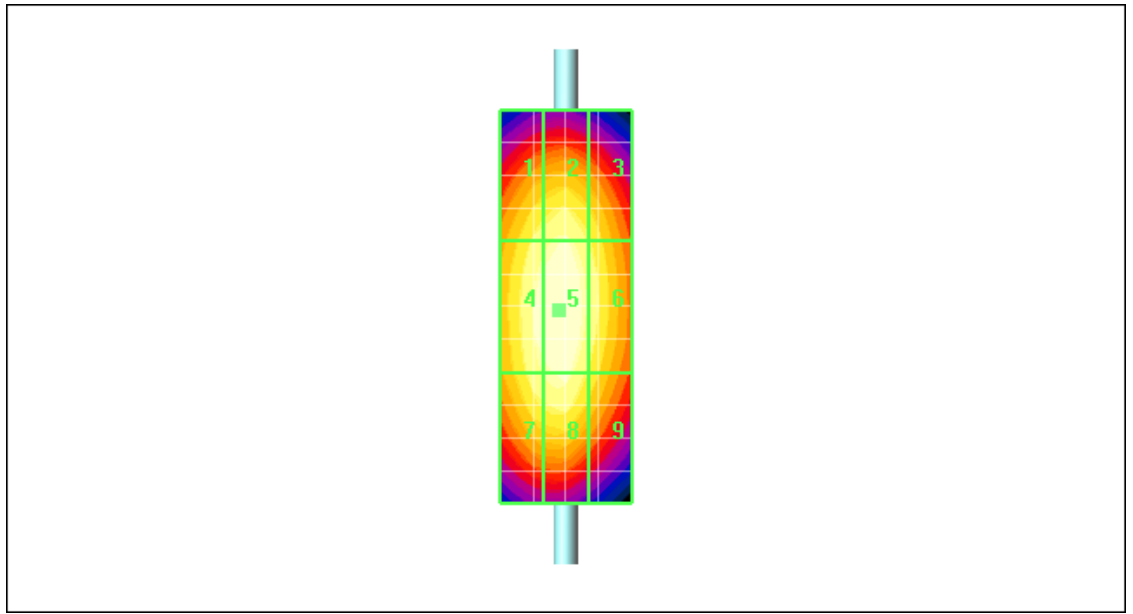
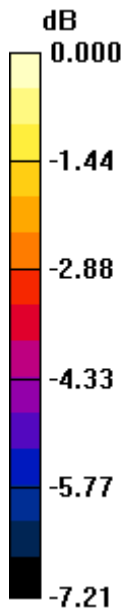
Grid 1	Grid 2	Grid 3
0.406 M2	0.417 M2	0.394 M2
Grid 4	Grid 5	Grid 6
0.425 M2	0.436 M2	0.409 M2
Grid 7	Grid 8	Grid 9
0.414 M2	0.422 M2	0.389 M2

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.436A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		80 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 3:55:16 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_CW1880_PMF_GSM

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 0.288 A/m; Power Drift = -0.101 dB

Maximum value of Total (measured) = 0.269 A/m

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		81 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 0.270 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.288 A/m; Power Drift = -0.101 dB

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

Peak H-field in A/m

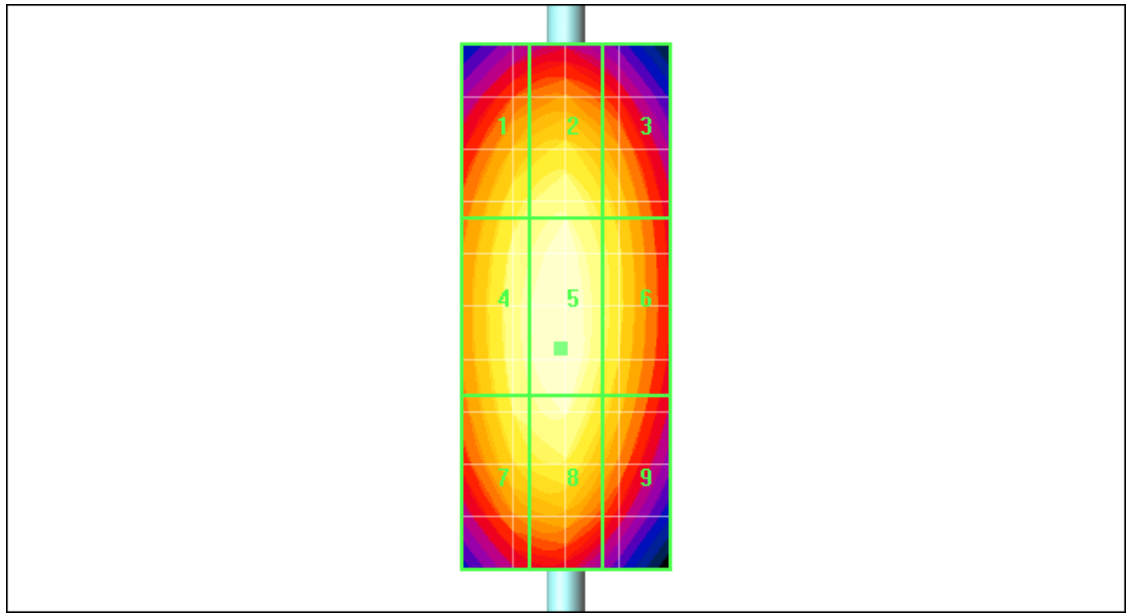
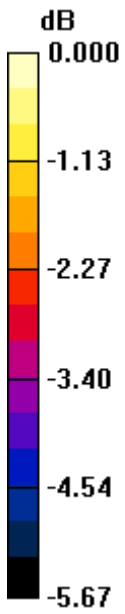
Grid 1	Grid 2	Grid 3
0.253 M3	0.259 M3	0.246 M3
Grid 4	Grid 5	Grid 6
0.262 M3	0.270 M3	0.252 M3
Grid 7	Grid 8	Grid 9
0.257 M3	0.263 M3	0.244 M3

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.270A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		83 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 4:03:31 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_AM1880_PMF_GSM

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 0.192 A/m; Power Drift = 0.075 dB

Maximum value of Total (measured) = 0.180 A/m

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		84 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 0.180 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.192 A/m; Power Drift = 0.075 dB

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

Peak H-field in A/m

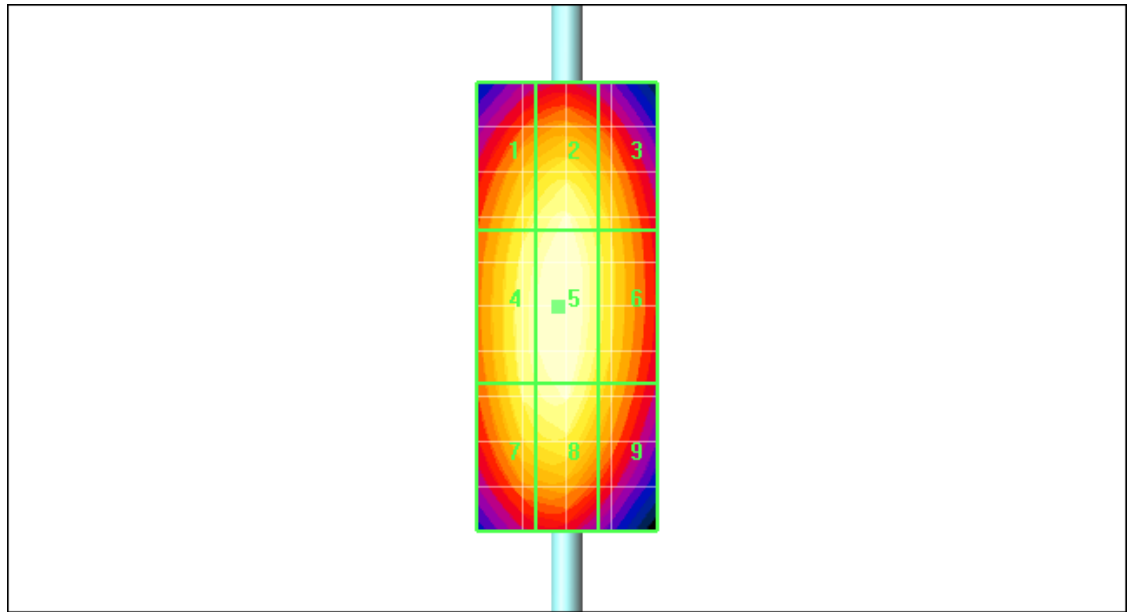
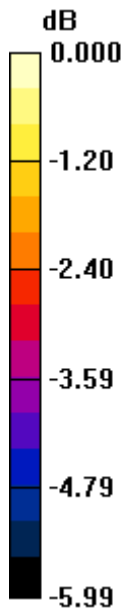
Grid 1	Grid 2	Grid 3
0.169 M4	0.175 M4	0.164 M4
Grid 4	Grid 5	Grid 6
0.175 M4	0.180 M4	0.167 M4
Grid 7	Grid 8	Grid 9
0.172 M4	0.176 M4	0.161 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.180A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		Page 86 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

Date/Time: 31/10/2009 4:11:45 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_GSM1880

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

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

Measurement Standard: DASY4 (High Precision Assessment)

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 = 0.125 A/m; Power Drift = 0.051 dB

Maximum value of Total (measured) = 0.116 A/m

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		87 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 0.116 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.125 A/m; Power Drift = 0.051 dB

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

Peak H-field in A/m

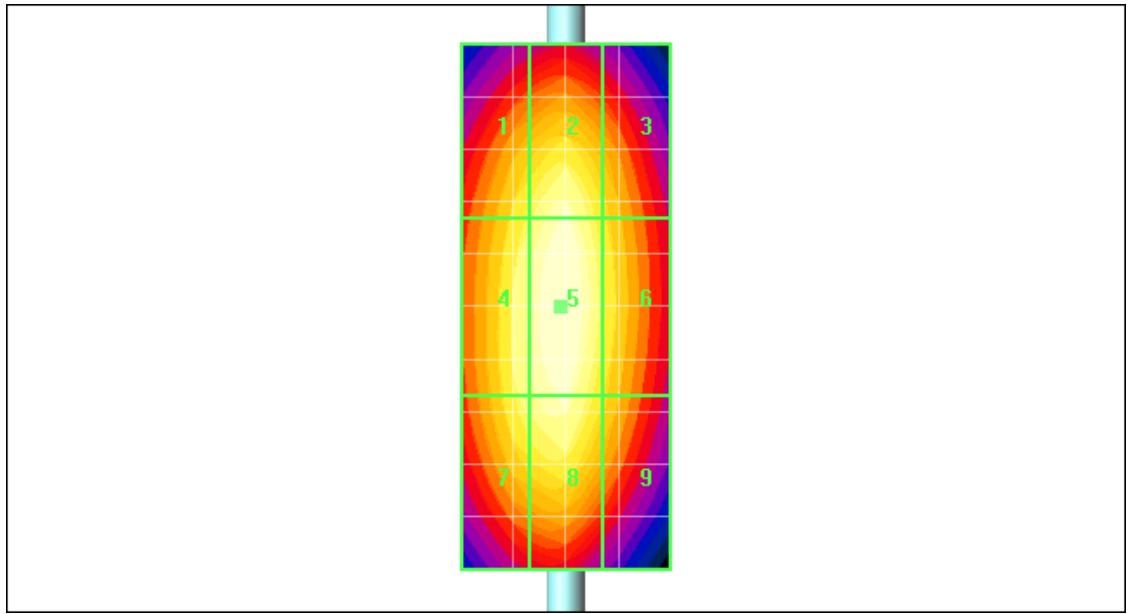
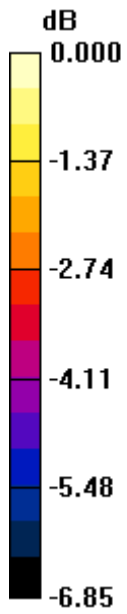
Grid 1	Grid 2	Grid 3
0.106 M4	0.112 M4	0.102 M4
Grid 4	Grid 5	Grid 6
0.111 M4	0.116 M4	0.105 M4
Grid 7	Grid 8	Grid 9
0.109 M4	0.112 M4	0.101 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.116A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		89 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 3:59:32 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_CW1880_PMF_CDMA

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 0.164 A/m; Power Drift = -0.013 dB

Maximum value of Total (measured) = 0.157 A/m

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		90 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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 = 0.164 A/m; Power Drift = -0.013 dB

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

Peak H-field in A/m

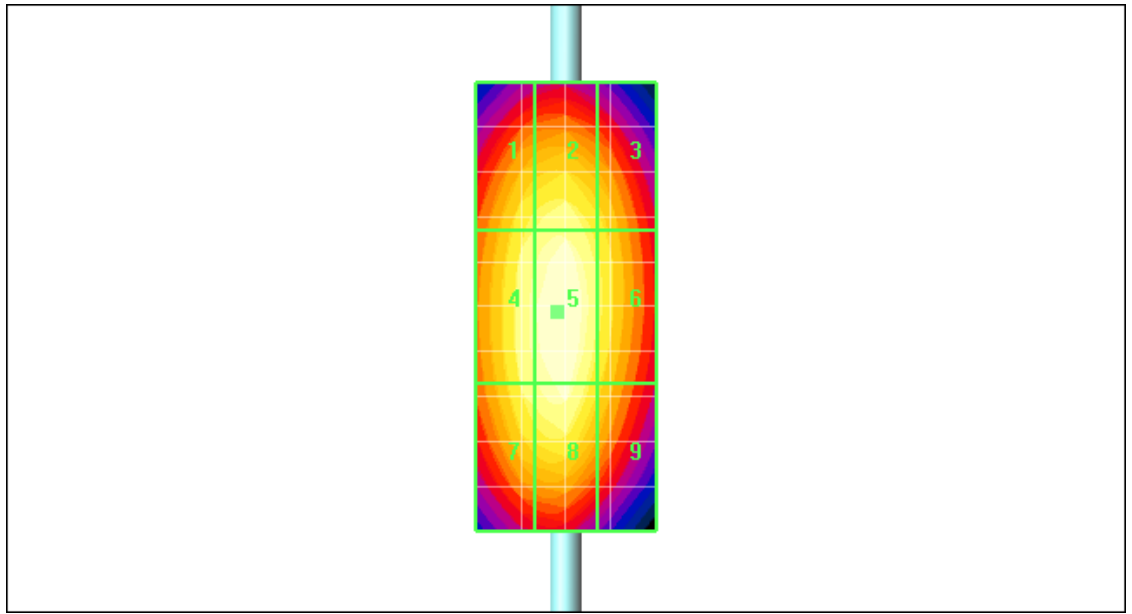
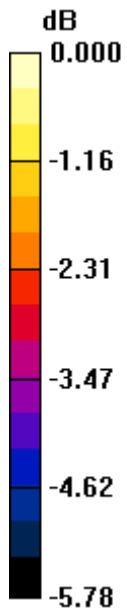
Grid 1	Grid 2	Grid 3
0.146 M4	0.150 M4	0.142 M4
Grid 4	Grid 5	Grid 6
0.152 M4	0.157 M4	0.146 M4
Grid 7	Grid 8	Grid 9
0.149 M4	0.153 M4	0.140 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.157A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		92 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 4:06:37 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_AM1880_CDMA

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

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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 0.110 A/m; Power Drift = -0.053 dB

Maximum value of Total (measured) = 0.103 A/m

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		93 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 0.104 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.110 A/m; Power Drift = -0.053 dB

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

Peak H-field in A/m

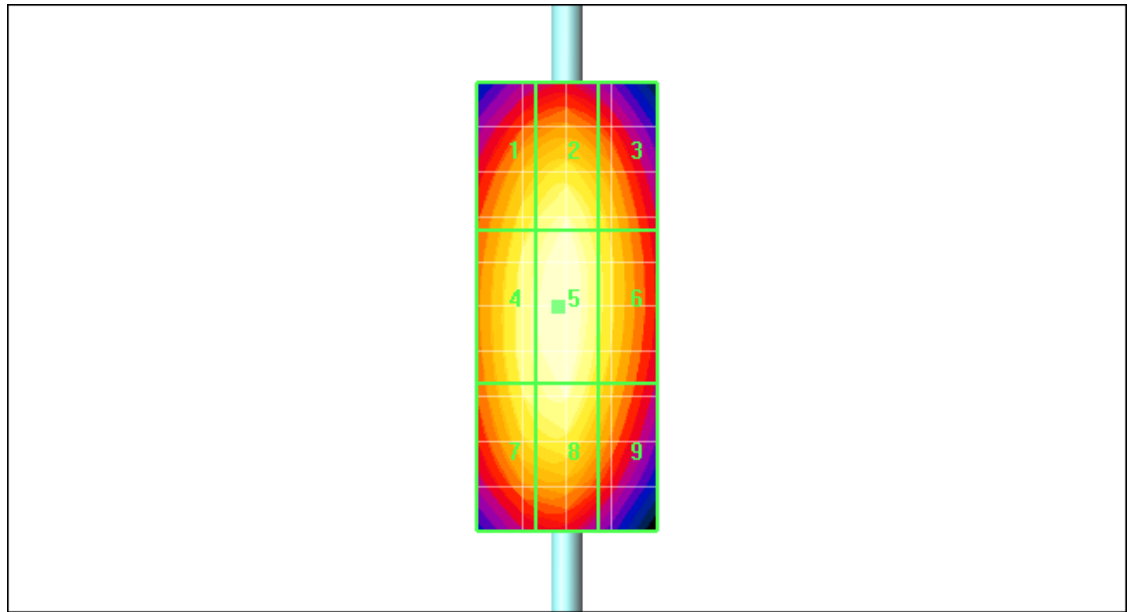
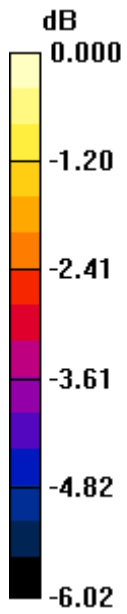
Grid 1	Grid 2	Grid 3
0.097 M4	0.101 M4	0.094 M4
Grid 4	Grid 5	Grid 6
0.101 M4	0.104 M4	0.096 M4
Grid 7	Grid 8	Grid 9
0.099 M4	0.101 M4	0.093 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.104A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		95 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 31/10/2009 4:41:00 PM

Test Laboratory: RIM TESTING SERVICES

HAC_H_Dipole_CDMA1880

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

Communication System: CDMA 1900; 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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 (5x10x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.174 A/m; Power Drift = -0.026 dB

Maximum value of Total (measured) = 0.163 A/m

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x91x1):

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		96 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Maximum value of peak Total field = 0.163 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.174 A/m; Power Drift = -0.026 dB

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

Peak H-field in A/m

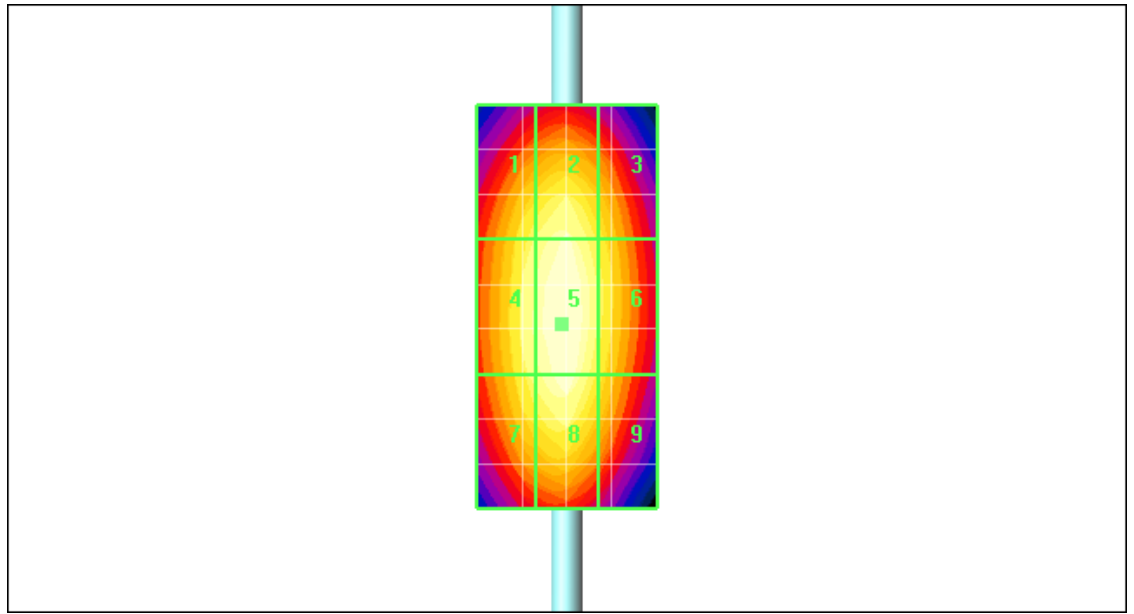
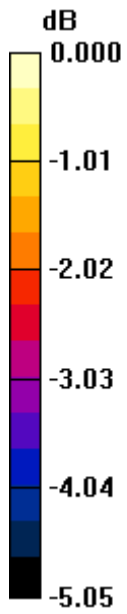
Grid 1	Grid 2	Grid 3
0.154 M4	0.158 M4	0.150 M4
Grid 4	Grid 5	Grid 6
0.158 M4	0.163 M4	0.153 M4
Grid 7	Grid 8	Grid 9
0.155 M4	0.161 M4	0.150 M4

Author Data
Daoud Attayi

Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

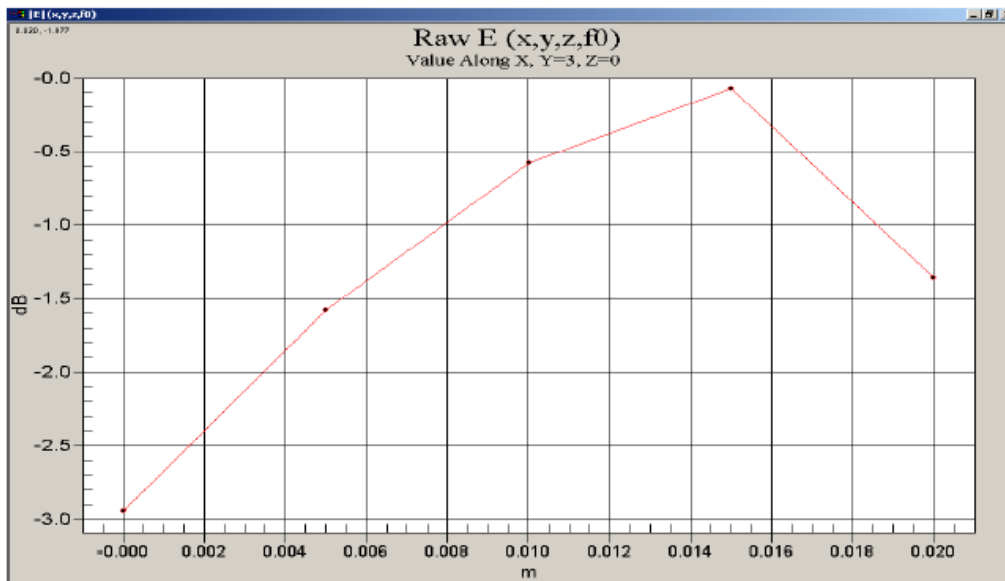
FCC ID
L6ARCS70CW



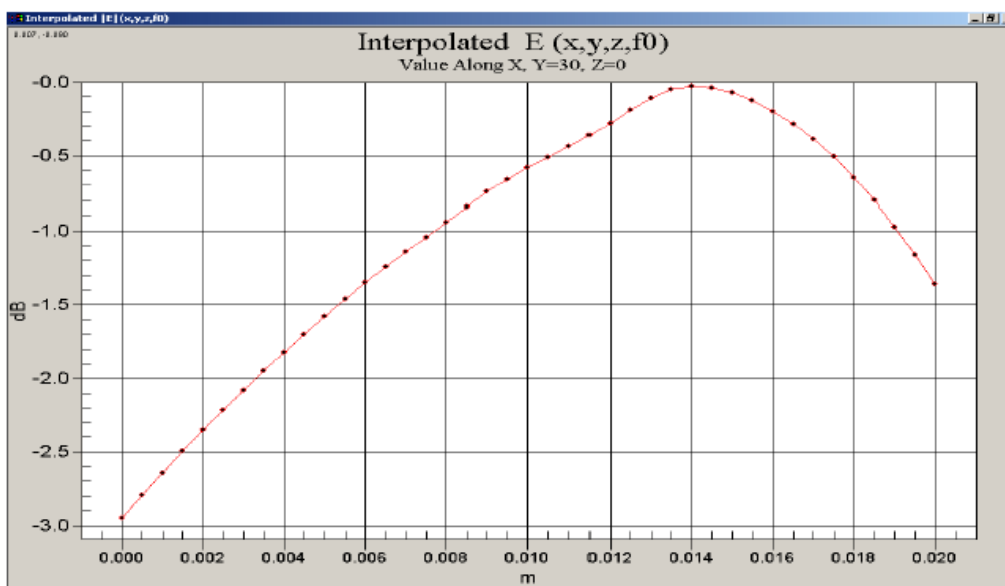
0 dB = 0.163A/m

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.

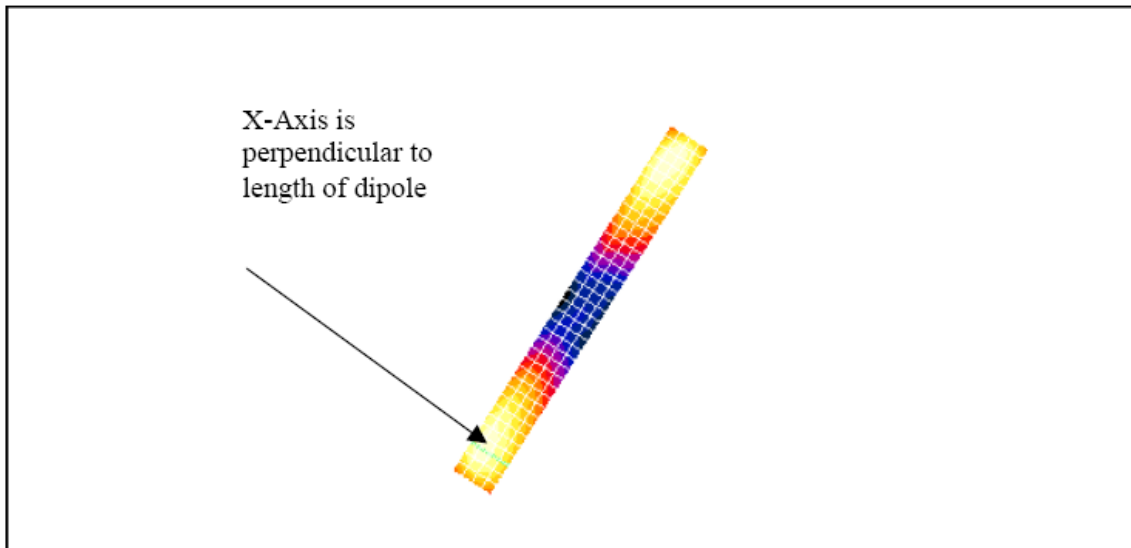


The figure above shows the raw measured field strength perpendicular to the length of the validation dipole. The TCB guidance slides require the 3dB width to be much larger than the step size. The width between -3dB points is > 21mm, at least 4 times the step size.



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 RCS71CW		Page 99 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21



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 RCS71CW		100 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: H Device Section

DASY4 Configuration:

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

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

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

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

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

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

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


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

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

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

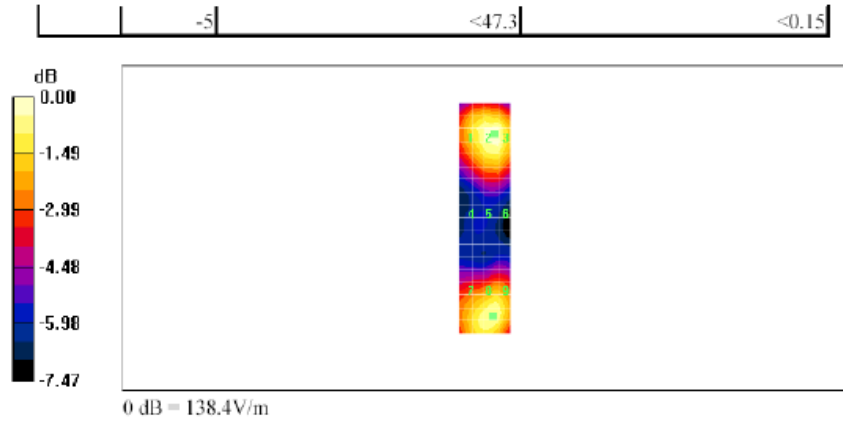
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		Page 101 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

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

Page 2 of 2



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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		102 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: H Device Section

DASY4 Configuration:

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

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

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

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

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

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

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


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

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

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

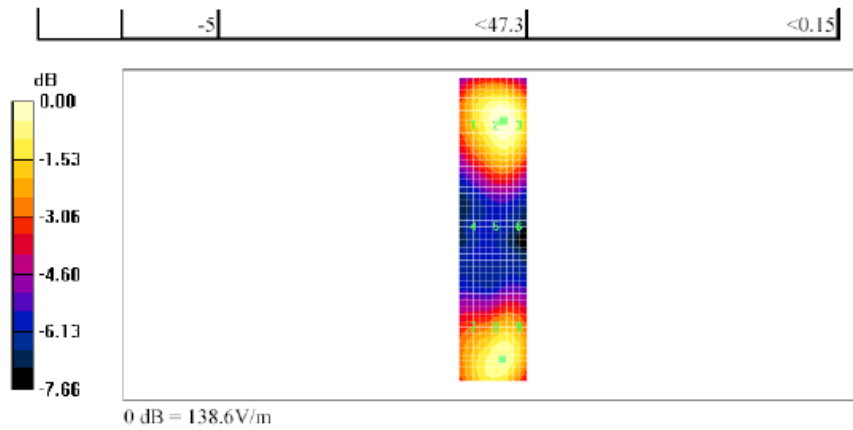
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		Page 103 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

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 RCS71CW		104 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_5 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

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

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

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

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

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

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

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


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

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

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

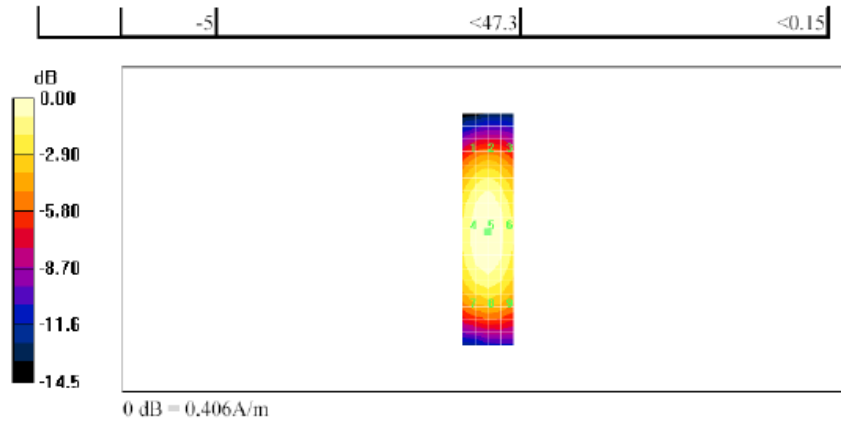
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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


	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		105 (180)
Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21	FCC ID L6ARCS70CW

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 RCS71CW		106 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

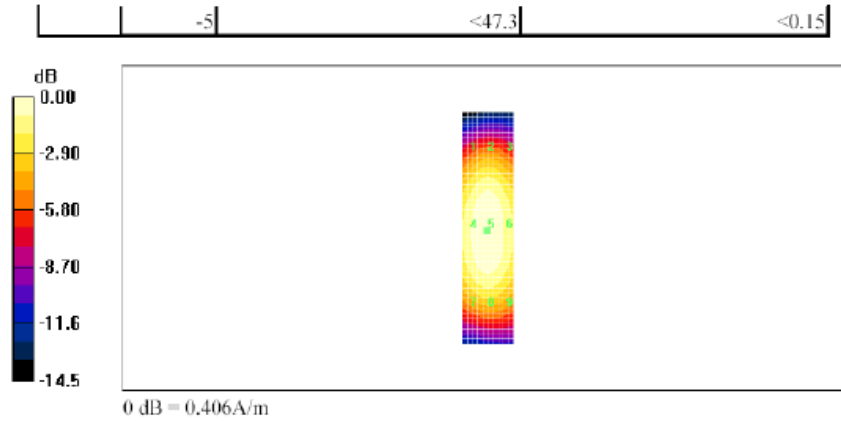
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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 RCS71CW		Page 107 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

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 RCS71CW		108 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

A.3 RF emissions plots

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		109 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 5:40:59 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM850_low_Chan.da4](#)

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

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 = 29.2 V/m; Power Drift = 0.062 dB

Maximum value of Total (measured) = 24.4 V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		110 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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 = 69.4 V/m

Probe Modulation Factor = 2.84

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 29.2 V/m; Power Drift = 0.062 dB

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

Peak E-field in V/m

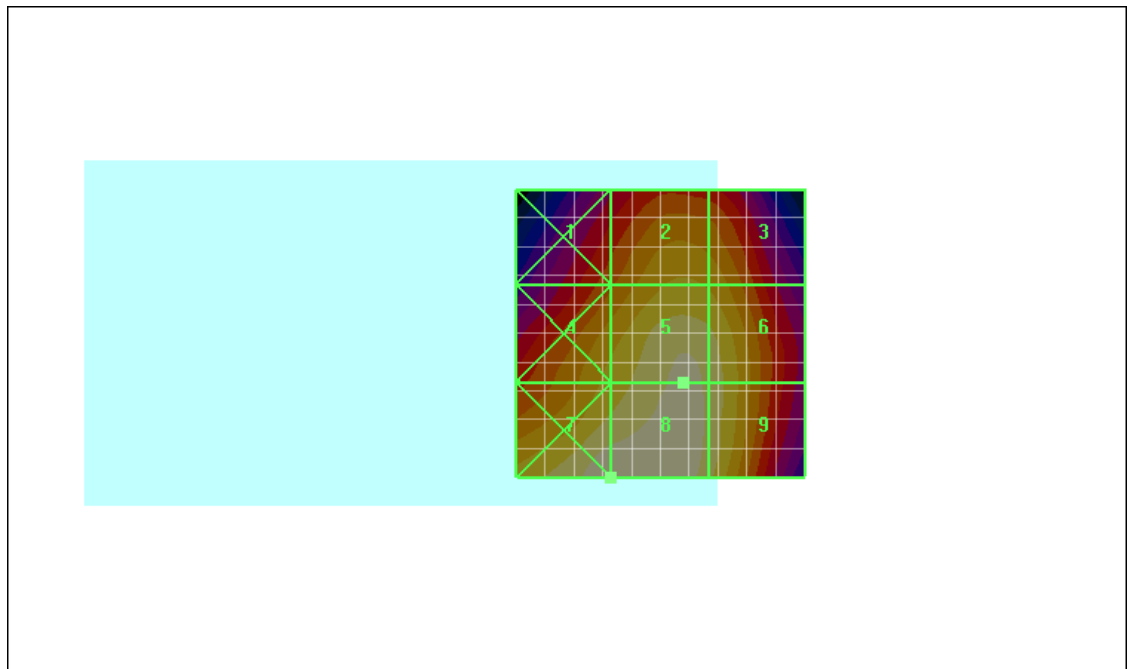
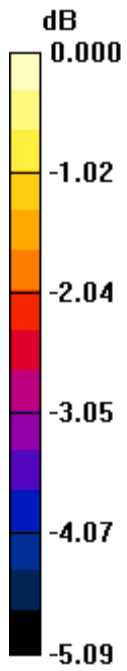
Grid 1 56.7 M4	Grid 2 62.2 M4	Grid 3 61.4 M4
Grid 4 62.8 M4	Grid 5 67.4 M4	Grid 6 66.1 M4
Grid 7 69.4 M4	Grid 8 69.4 M4	Grid 9 66.3 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 69.4V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		112 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 5:51:50 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM850_mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

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 = 30.9 V/m; Power Drift = -0.041 dB

Maximum value of Total (measured) = 26.0 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 RCS71CW		Page 113 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 74.2 V/m

Probe Modulation Factor = 2.84

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 30.9 V/m; Power Drift = -0.041 dB

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

Peak E-field in V/m

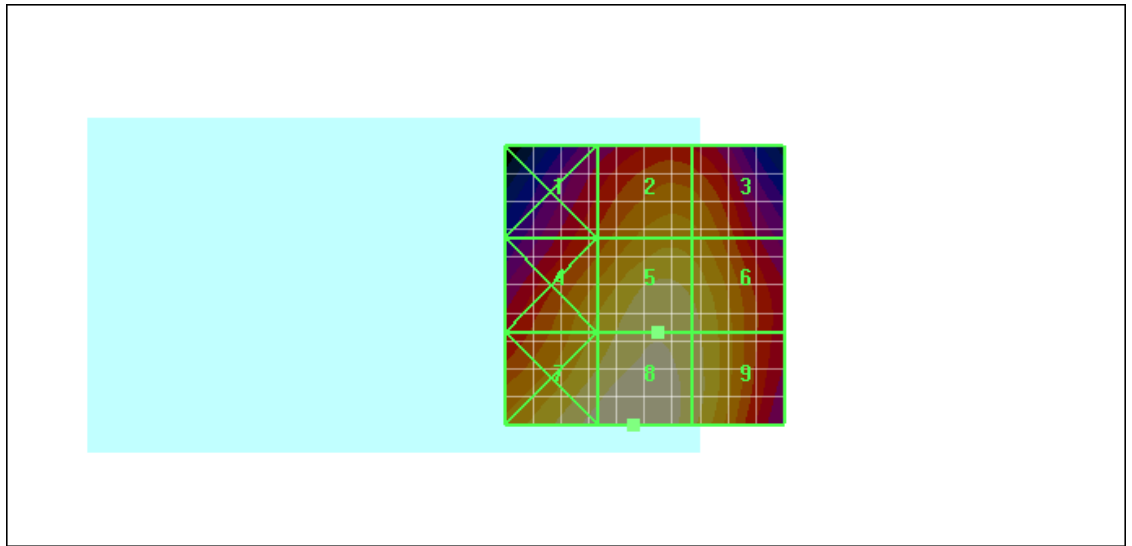
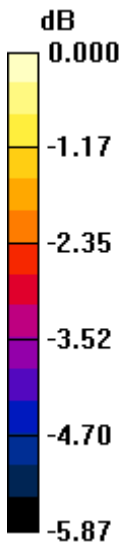
Grid 1 57.5 M4	Grid 2 63.9 M4	Grid 3 63.2 M4
Grid 4 65.7 M4	Grid 5 70.7 M4	Grid 6 69.0 M4
Grid 7 72.4 M4	Grid 8 74.2 M4	Grid 9 69.8 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 74.2V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		115 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 6:00:42 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM850_high_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

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 = 30.3 V/m; Power Drift = 0.024 dB

Maximum value of Total (measured) = 24.6 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 RCS71CW		116 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 70.1 V/m

Probe Modulation Factor = 2.84

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 30.3 V/m; Power Drift = 0.024 dB

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

Peak E-field in V/m

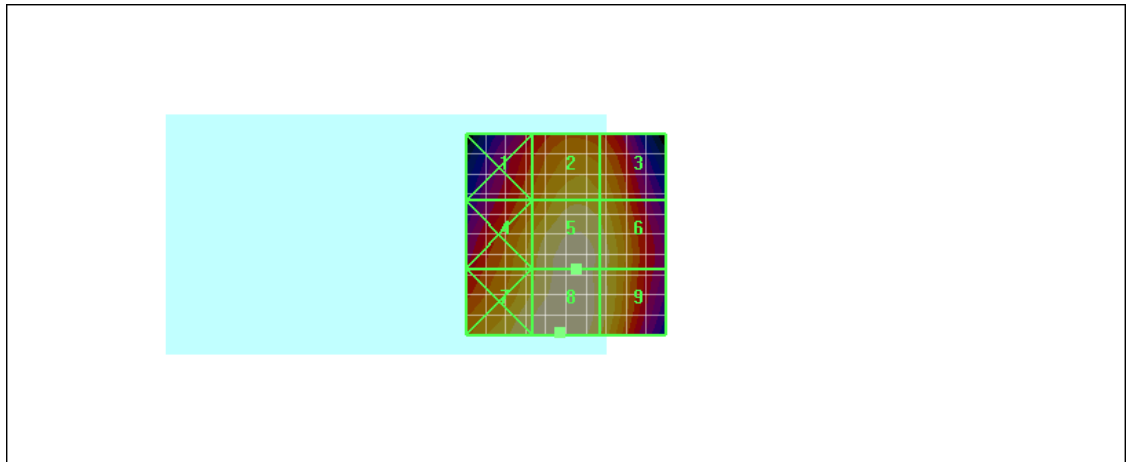
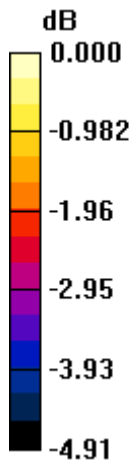
Grid 1 58.9 M4	Grid 2 64.7 M4	Grid 3 63.4 M4
Grid 4 64.3 M4	Grid 5 68.7 M4	Grid 6 67.0 M4
Grid 7 68.1 M4	Grid 8 70.1 M4	Grid 9 66.7 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 70.1V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		118 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 9:36:29 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_CDMA800_low_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

Communication System: CDMA 800; Frequency: 836.52 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 = 34.4 V/m; Power Drift = -0.073 dB

Maximum value of Total (measured) = 28.9 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 RCS71CW		119 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 29.8 V/m

Probe Modulation Factor = 1.03

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 34.4 V/m; Power Drift = -0.073 dB

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

Peak E-field in V/m

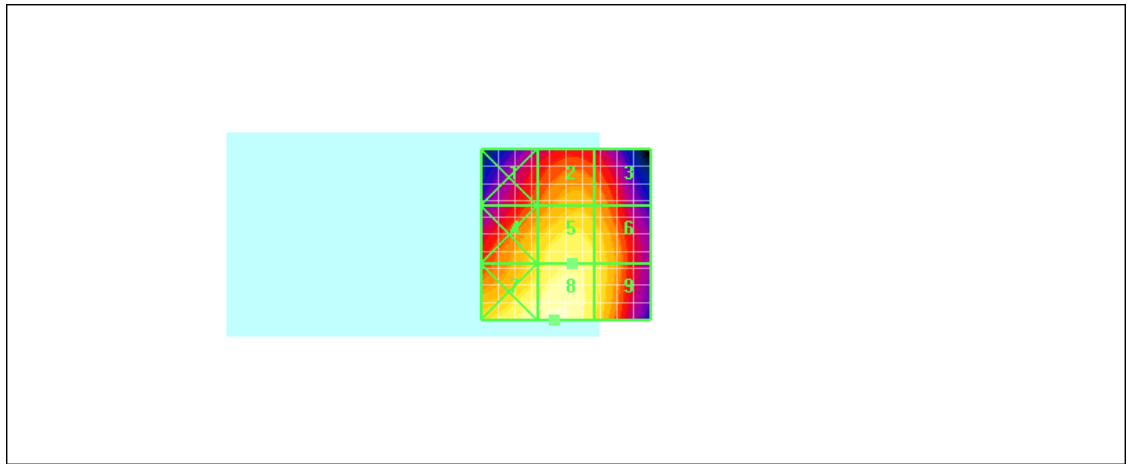
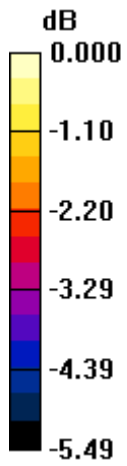
Grid 1	Grid 2	Grid 3
24.0 M4	25.9 M4	25.3 M4
Grid 4	Grid 5	Grid 6
26.9 M4	28.4 M4	27.5 M4
Grid 7	Grid 8	Grid 9
29.3 M4	29.8 M4	27.6 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 29.8V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		121 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 9:42:29 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_CDMA800_mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

Communication System: CDMA 800; Frequency: 836.52 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 = 43.0 V/m; Power Drift = -0.207 dB

Maximum value of Total (measured) = 35.7 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 RCS71CW		122 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 36.9 V/m

Probe Modulation Factor = 1.03


Device Reference Point: 0.000, 0.000, -6.30 mm

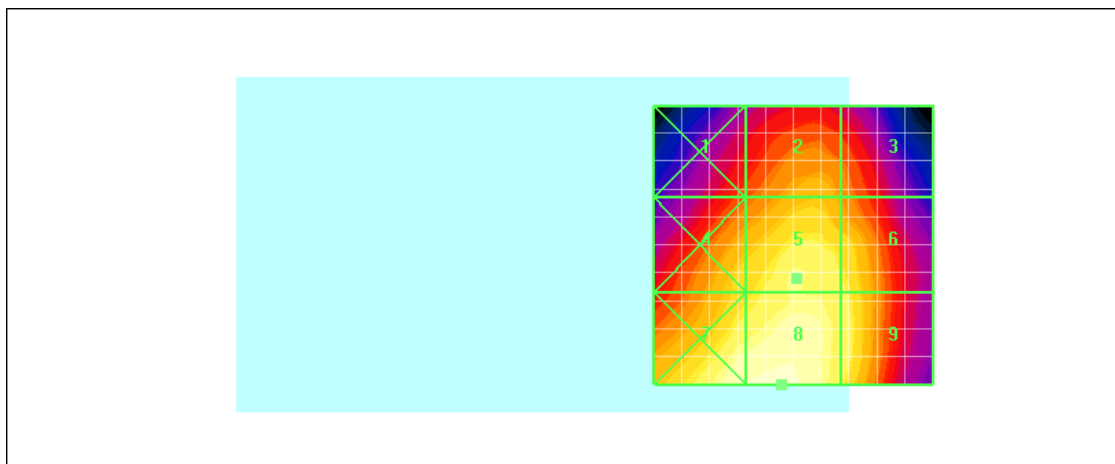
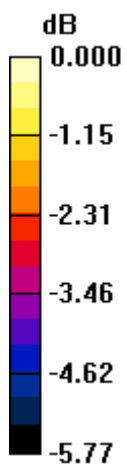
Reference Value = 43.0 V/m; Power Drift = -0.207 dB

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


Peak E-field in V/m

Grid 1	Grid 2	Grid 3
29.0 M4	31.9 M4	30.5 M4
Grid 4	Grid 5	Grid 6
33.1 M4	35.1 M4	34.2 M4
Grid 7	Grid 8	Grid 9
36.6 M4	36.9 M4	34.8 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		Page 123 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21



0 dB = 36.9V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		124 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 9:51:58 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_CDMA800_high_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

Communication System: CDMA 800; Frequency: 848.52 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 = 49.4 V/m; Power Drift = 0.085 dB

Maximum value of Total (measured) = 41.9 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 RCS71CW		125 (180)
Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21	FCC ID L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 43.4 V/m

Probe Modulation Factor = 1.03

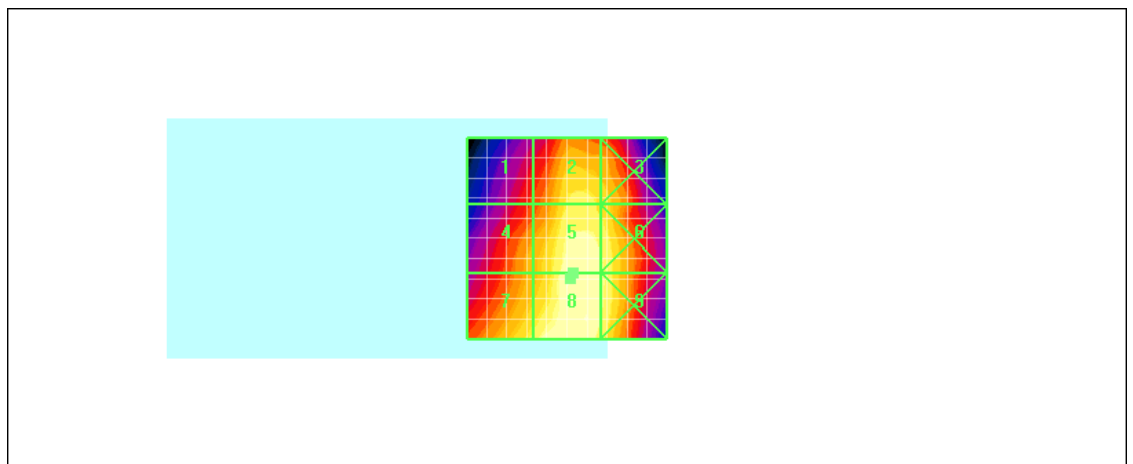
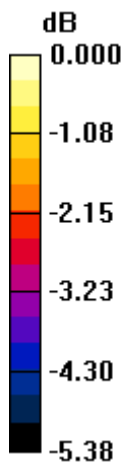
Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 49.4 V/m; Power Drift = 0.085 dB

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


Peak E-field in V/m

Grid 1 34.3 M4	Grid 2 40.6 M4	Grid 3 39.7 M4
Grid 4 37.5 M4	Grid 5 43.1 M4	Grid 6 41.7 M4
Grid 7 40.5 M4	Grid 8 43.4 M4	Grid 9 41.8 M4



	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		126 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

0 dB = 43.4V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		127 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 8:51:59 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM1900_low_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

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 = 15.4 V/m; Power Drift = 0.034 dB

Maximum value of Total (measured) = 24.9 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 RCS71CW		128 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 73.2 V/m

Probe Modulation Factor = 2.94

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.4 V/m; Power Drift = 0.034 dB

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

Peak E-field in V/m

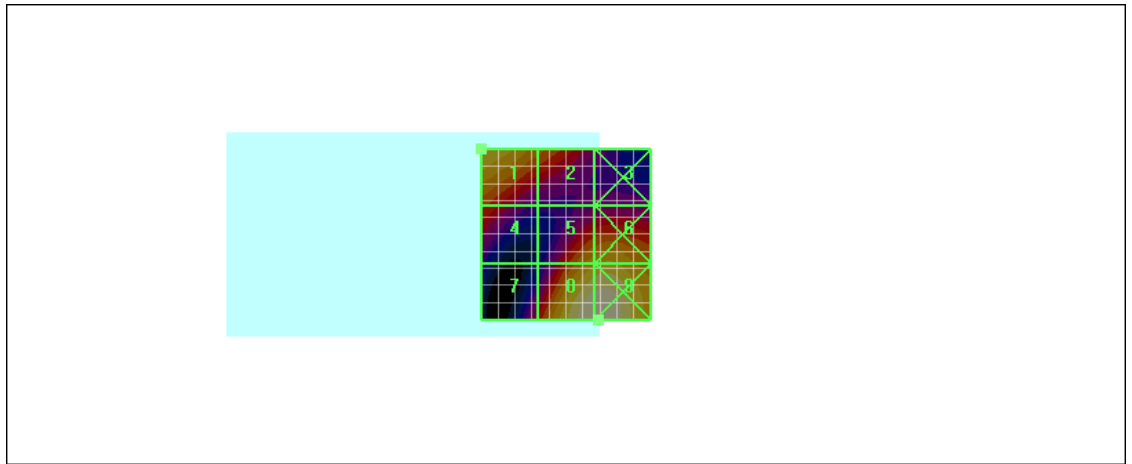
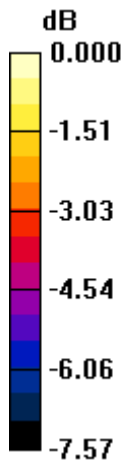
Grid 1 66.4 M3	Grid 2 56.5 M3	Grid 3 43.9 M4
Grid 4 53.0 M3	Grid 5 60.9 M3	Grid 6 62.4 M3
Grid 7 48.7 M3	Grid 8 73.2 M3	Grid 9 73.3 M3

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 73.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		130 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 9:01:47 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM1900_mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

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 = 17.1 V/m; Power Drift = 0.252 dB

Maximum value of Total (measured) = 25.5 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 RCS71CW		131 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 74.7 V/m

Probe Modulation Factor = 2.94

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 17.1 V/m; Power Drift = 0.252 dB

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

Peak E-field in V/m

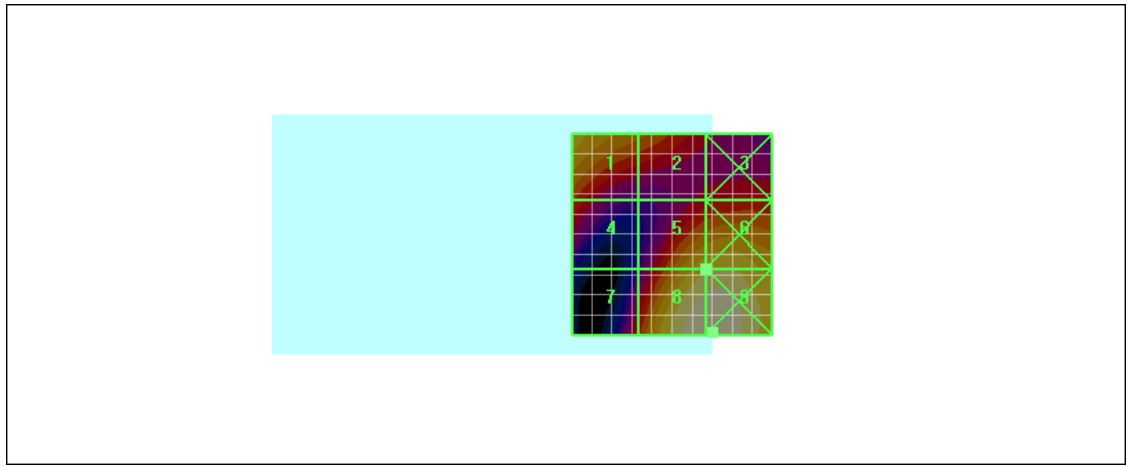
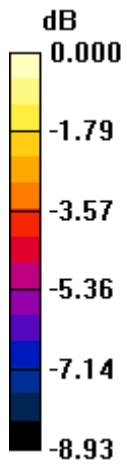
Grid 1	Grid 2	Grid 3
64.2 M3	54.4 M3	47.4 M3
Grid 4	Grid 5	Grid 6
50.5 M3	64.2 M3	65.7 M3
Grid 7	Grid 8	Grid 9
48.7 M3	74.7 M3	74.9 M3

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 74.9V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		133 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 9:09:30 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM1900_high_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

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 = 16.7 V/m; Power Drift = -0.003 dB

Maximum value of Total (measured) = 24.6 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 RCS71CW		134 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 72.2 V/m

Probe Modulation Factor = 2.94

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 16.7 V/m; Power Drift = -0.003 dB

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

Peak E-field in V/m

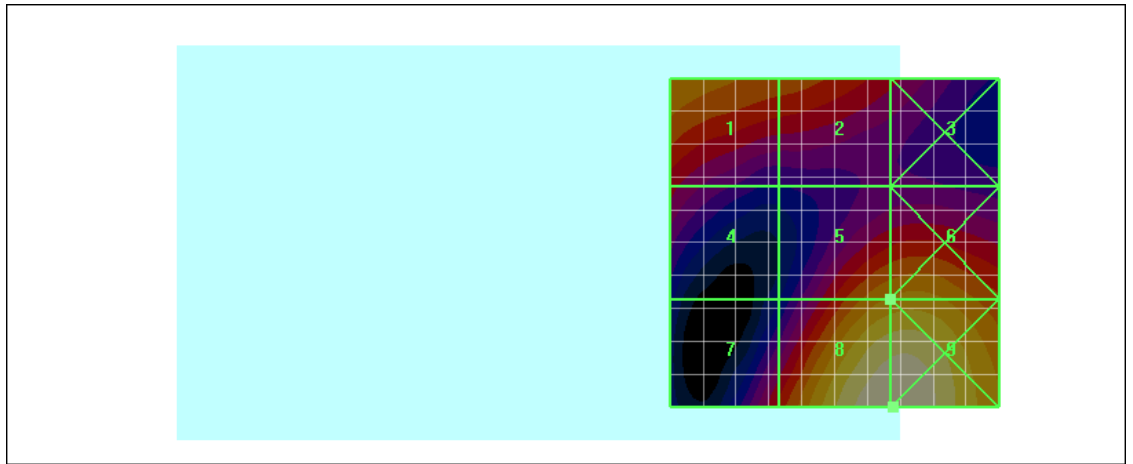
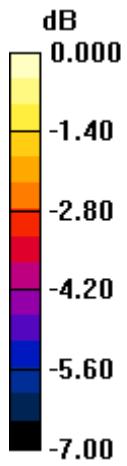
Grid 1	Grid 2	Grid 3
58.3 M3	54.3 M3	48.2 M3
Grid 4	Grid 5	Grid 6
48.1 M3	58.8 M3	59.7 M3
Grid 7	Grid 8	Grid 9
50.8 M3	72.2 M3	72.3 M3

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 72.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		136 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 10:06:51 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_CDMA1900_low_Chan

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 22.6 V/m; Power Drift = 0.055 dB

Maximum value of Total (measured) = 34.3 V/m

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

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		137 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

dx=5mm, dy=5mm

Maximum value of peak Total field = 29.9 V/m

Probe Modulation Factor = 1.01

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 22.6 V/m; Power Drift = 0.055 dB

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

Peak E-field in V/m

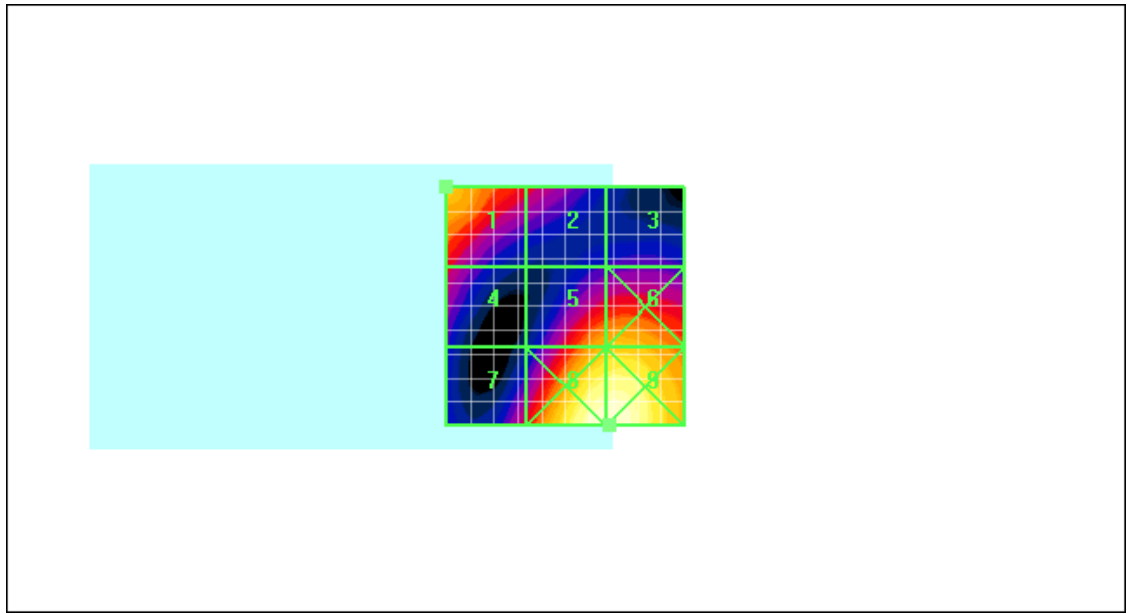
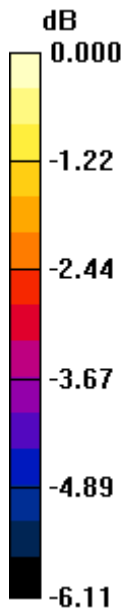
Grid 1 29.9 M4	Grid 2 24.8 M4	Grid 3 21.6 M4
Grid 4 24.7 M4	Grid 5 29.3 M4	Grid 6 29.8 M4
Grid 7 24.8 M4	Grid 8 34.7 M4	Grid 9 34.7 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 34.7V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		139 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 10:12:45 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_CDMA1900_mid_Chan

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; 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

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 21.2 V/m; Power Drift = -0.001 dB

Maximum value of Total (measured) = 32.2 V/m

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

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		140 (180)
Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21	FCC ID L6ARCS70CW

dx=5mm, dy=5mm

Maximum value of peak Total field = 27.5 V/m

Probe Modulation Factor = 1.01

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 21.2 V/m; Power Drift = -0.001 dB

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

Peak E-field in V/m

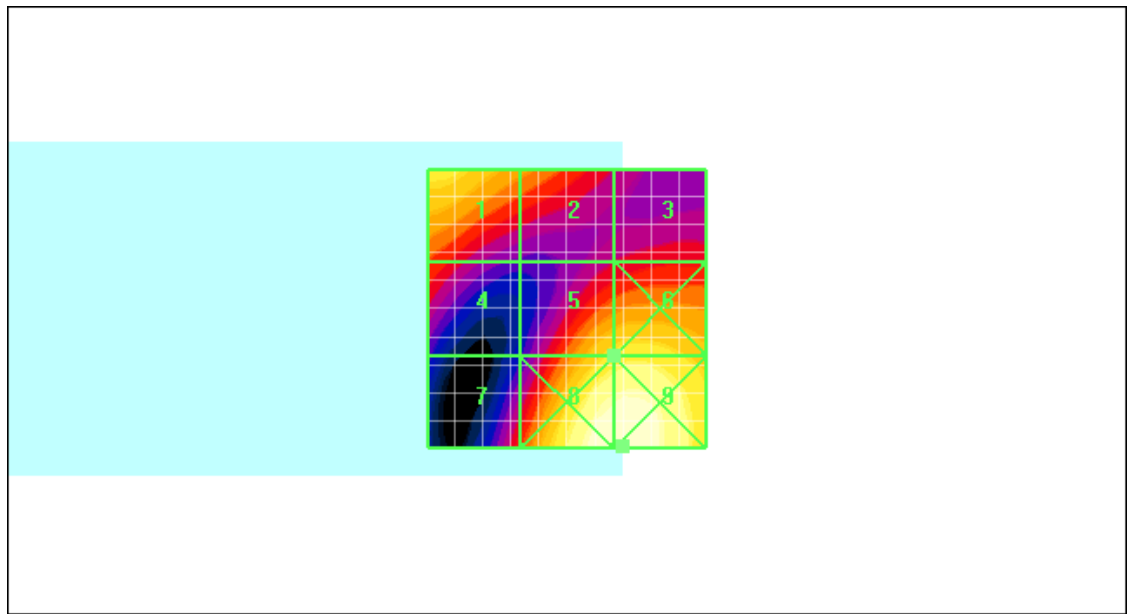
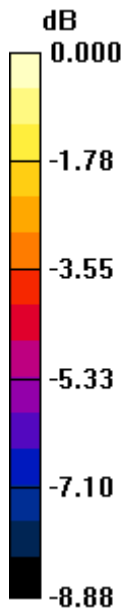
Grid 1 27.5 M4	Grid 2 24.0 M4	Grid 3 20.1 M4
Grid 4 21.8 M4	Grid 5 27.5 M4	Grid 6 28.1 M4
Grid 7 21.3 M4	Grid 8 32.4 M4	Grid 9 32.5 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 32.5V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		142 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 10:19:02 PM

Test Laboratory: RIM TESTING SERVICES

HAC_E_CDMA1900_high_Chan

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

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: DAS4, 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 = 18.6 V/m; Power Drift = 0.157 dB

Maximum value of Total (measured) = 28.2 V/m

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

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		143 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

dx=5mm, dy=5mm

Maximum value of peak Total field = 26.7 V/m

Probe Modulation Factor = 1.01

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.6 V/m; Power Drift = 0.157 dB

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

Peak E-field in V/m

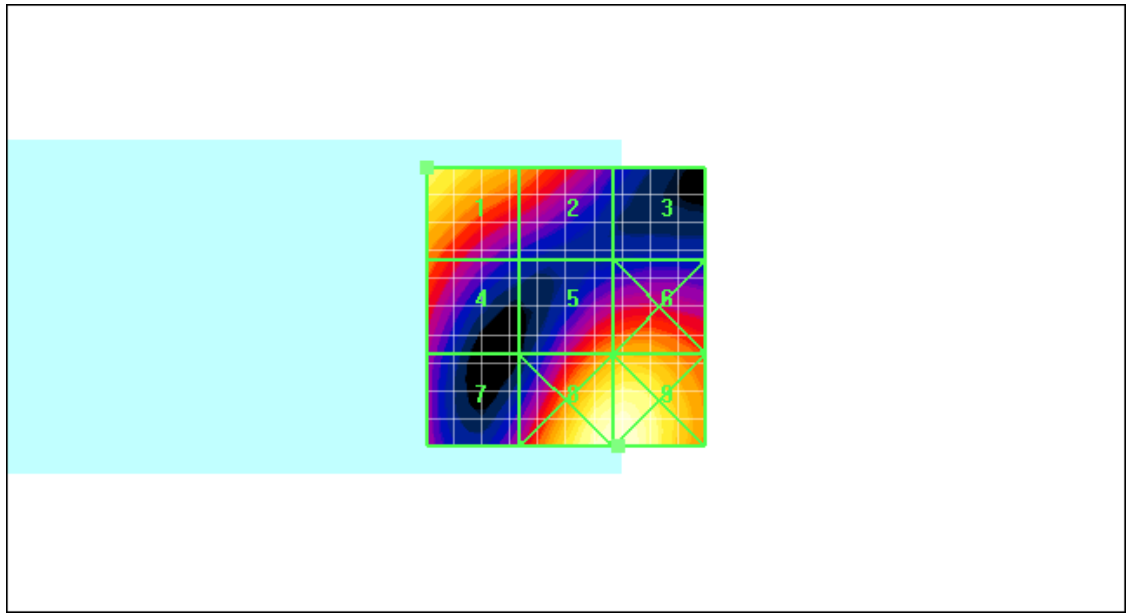
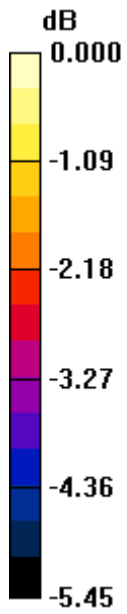
Grid 1	Grid 2	Grid 3
26.7 M4	23.7 M4	18.3 M4
Grid 4	Grid 5	Grid 6
23.1 M4	23.9 M4	24.4 M4
Grid 7	Grid 8	Grid 9
20.0 M4	28.4 M4	28.5 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 28.5V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		145 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 11:05:28 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_850_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

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 = 0.041 A/m; Power Drift = -0.097 dB

Maximum value of Total (measured) = 0.058 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 RCS71CW		Page 146 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.125 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.041 A/m; Power Drift = -0.097 dB

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

Peak H-field in A/m

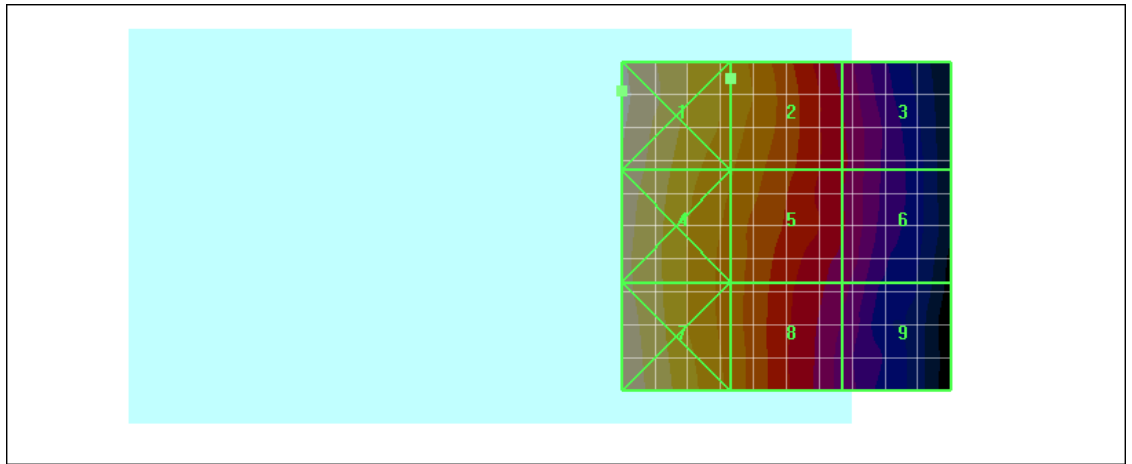
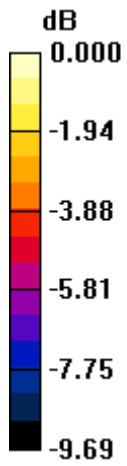
Grid 1 0.160 M4	Grid 2 0.125 M4	Grid 3 0.090 M4
Grid 4 0.156 M4	Grid 5 0.120 M4	Grid 6 0.090 M4
Grid 7 0.157 M4	Grid 8 0.116 M4	Grid 9 0.085 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.160A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		148 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 11:18:45 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_850_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

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 = 0.040 A/m; Power Drift = -0.058 dB

Maximum value of Total (measured) = 0.058 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 RCS71CW		149 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.121 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.040 A/m; Power Drift = -0.058 dB

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

Peak H-field in A/m

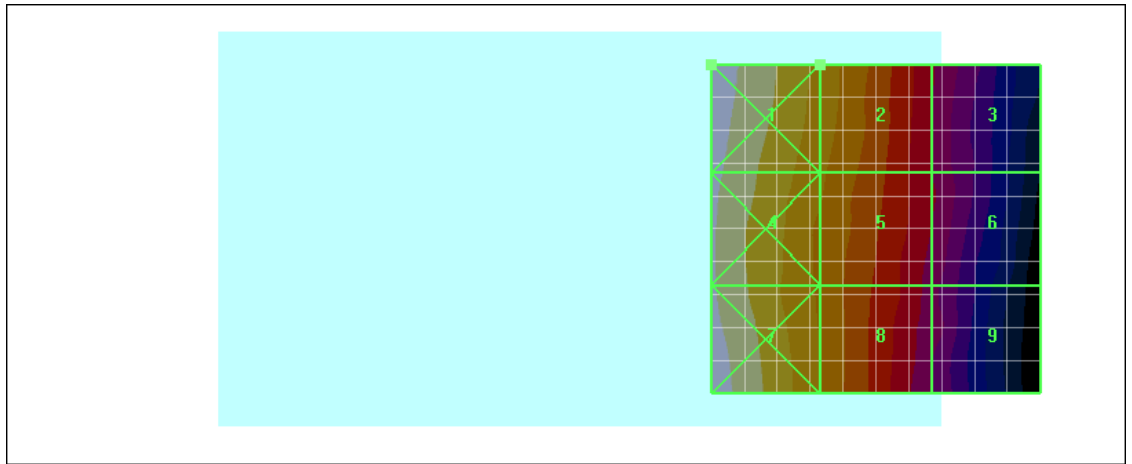
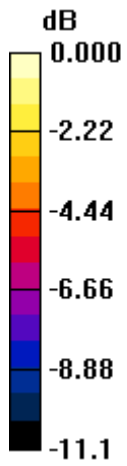
Grid 1 0.160 M4	Grid 2 0.121 M4	Grid 3 0.082 M4
Grid 4 0.151 M4	Grid 5 0.116 M4	Grid 6 0.082 M4
Grid 7 0.155 M4	Grid 8 0.114 M4	Grid 9 0.078 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.160A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		151 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 11:25:03 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_850_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

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 = 0.038 A/m; Power Drift = -0.285 dB

Maximum value of Total (measured) = 0.063 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 RCS71CW		Page 152 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.130 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.038 A/m; Power Drift = -0.285 dB

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

Peak H-field in A/m

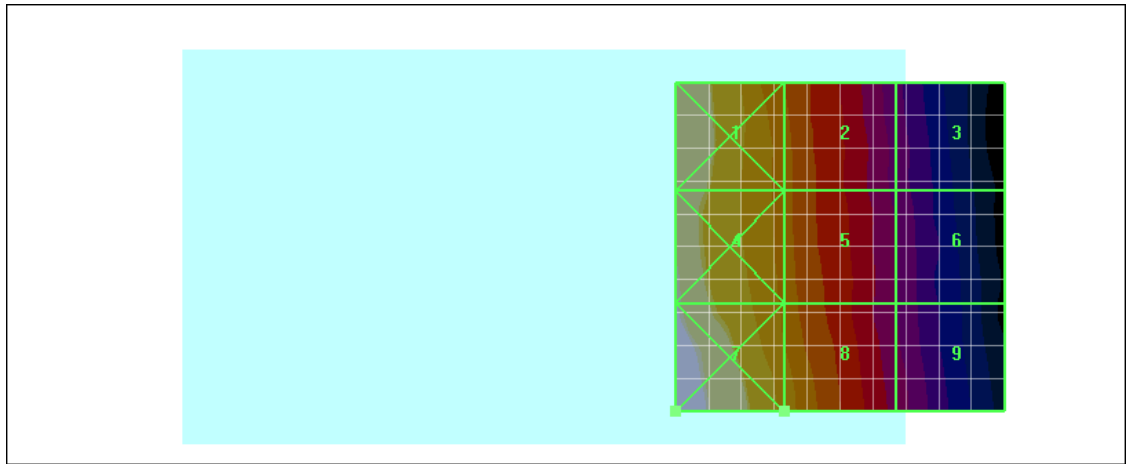
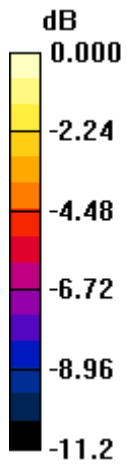
Grid 1 0.154 M4	Grid 2 0.117 M4	Grid 3 0.078 M4
Grid 4 0.160 M4	Grid 5 0.120 M4	Grid 6 0.080 M4
Grid 7 0.173 M4	Grid 8 0.130 M4	Grid 9 0.084 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.173A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		154 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 10:46:12 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_CDMA_800_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

Communication System: CDMA 800; Frequency: 824.7 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 = 0.045 A/m; Power Drift = -0.019 dB

Maximum value of Total (measured) = 0.064 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 RCS71CW		155 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.053 A/m

Probe Modulation Factor = 1.06

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.045 A/m; Power Drift = -0.019 dB

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

Peak H-field in A/m

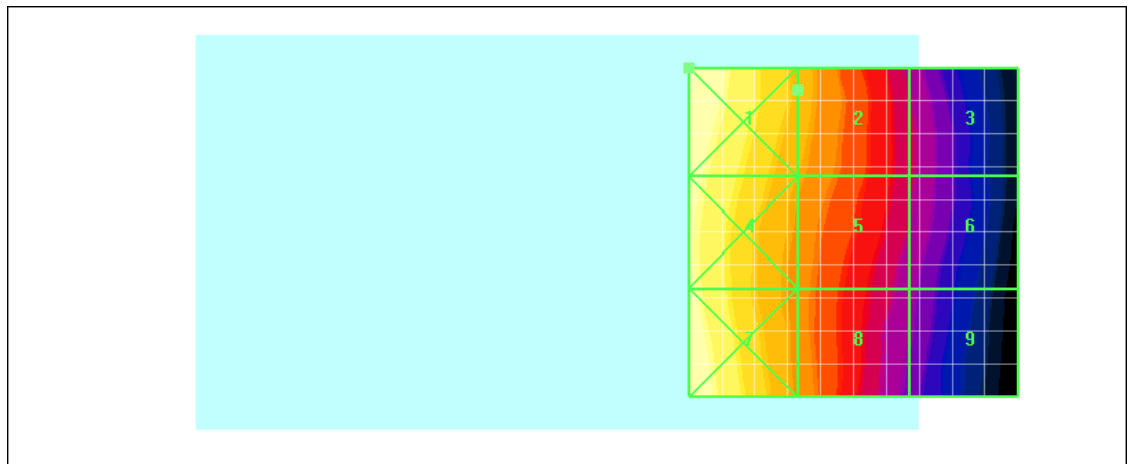
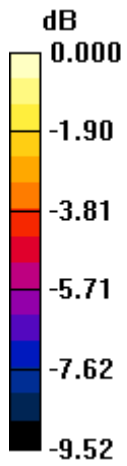
Grid 1 0.068 M4	Grid 2 0.053 M4	Grid 3 0.039 M4
Grid 4 0.065 M4	Grid 5 0.051 M4	Grid 6 0.039 M4
Grid 7 0.067 M4	Grid 8 0.050 M4	Grid 9 0.036 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.068A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		157 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 10:52:19 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_CDMA_800_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

Communication System: CDMA 800; Frequency: 836.52 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 = 0.050 A/m; Power Drift = 0.131 dB

Maximum value of Total (measured) = 0.075 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 RCS71CW		158 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.061 A/m

Probe Modulation Factor = 1.06

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.050 A/m; Power Drift = 0.131 dB

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

Peak H-field in A/m

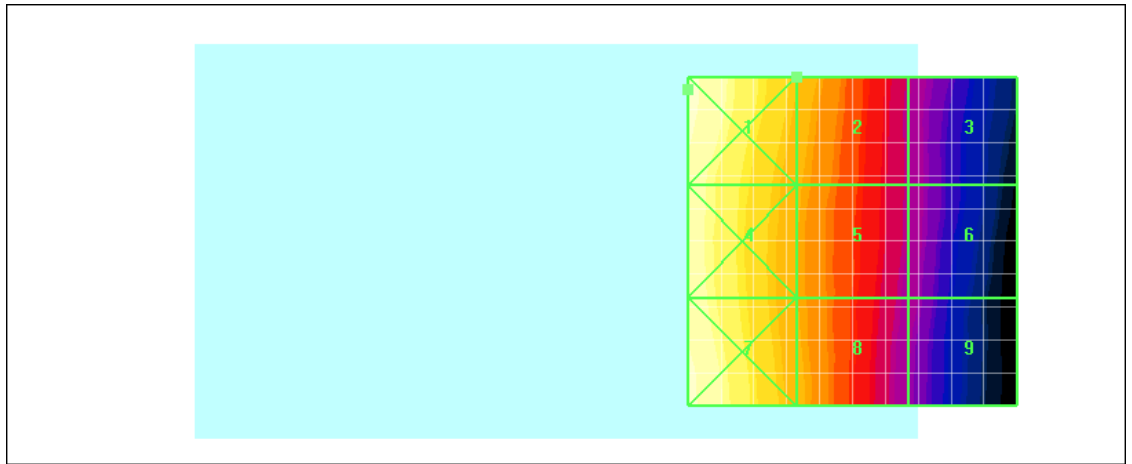
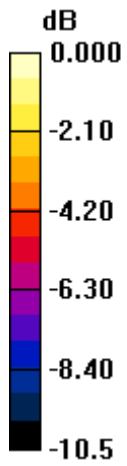
Grid 1	Grid 2	Grid 3
0.079 M4	0.061 M4	0.041 M4
Grid 4	Grid 5	Grid 6
0.076 M4	0.058 M4	0.041 M4
Grid 7	Grid 8	Grid 9
0.079 M4	0.059 M4	0.040 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.079A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		160 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 10:34:41 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_CDMA_800_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

Communication System: CDMA 800; Frequency: 848.52 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 = 0.059 A/m; Power Drift = 0.031 dB

Maximum value of Total (measured) = 0.099 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 RCS71CW		161 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.079 A/m

Probe Modulation Factor = 1.06

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.059 A/m; Power Drift = 0.031 dB

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

Peak H-field in A/m

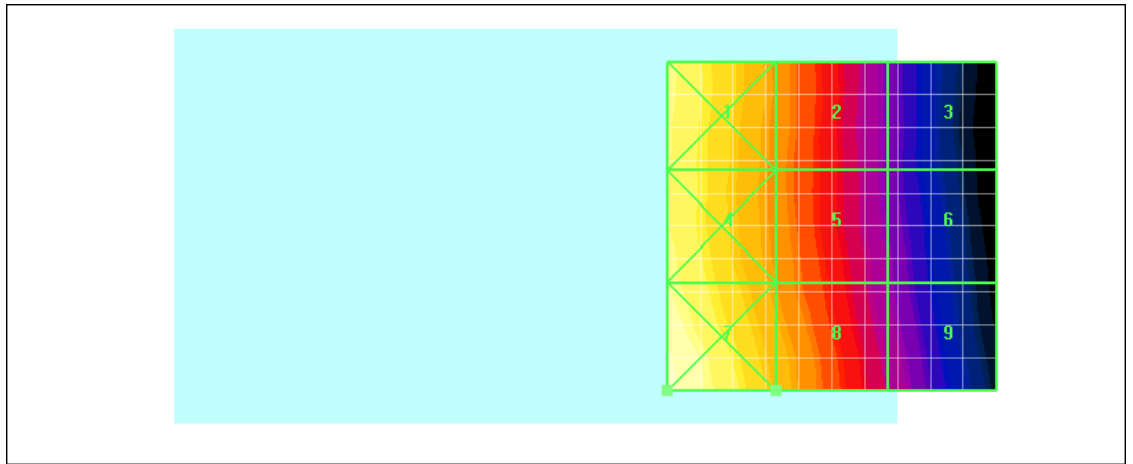
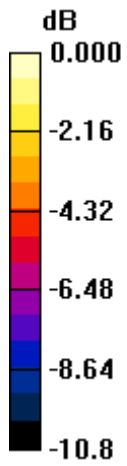
Grid 1 0.097 M4	Grid 2 0.073 M4	Grid 3 0.048 M4
Grid 4 0.097 M4	Grid 5 0.074 M4	Grid 6 0.050 M4
Grid 7 0.105 M4	Grid 8 0.079 M4	Grid 9 0.054 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.105A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		163 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 11:36:36 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_1900_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

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 = 0.063 A/m; Power Drift = 0.165 dB

Maximum value of Total (measured) = 0.074 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 RCS71CW		164 (180)
Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21	FCC ID L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.168 A/m

Probe Modulation Factor = 2.33

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.063 A/m; Power Drift = 0.165 dB

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

Peak H-field in A/m

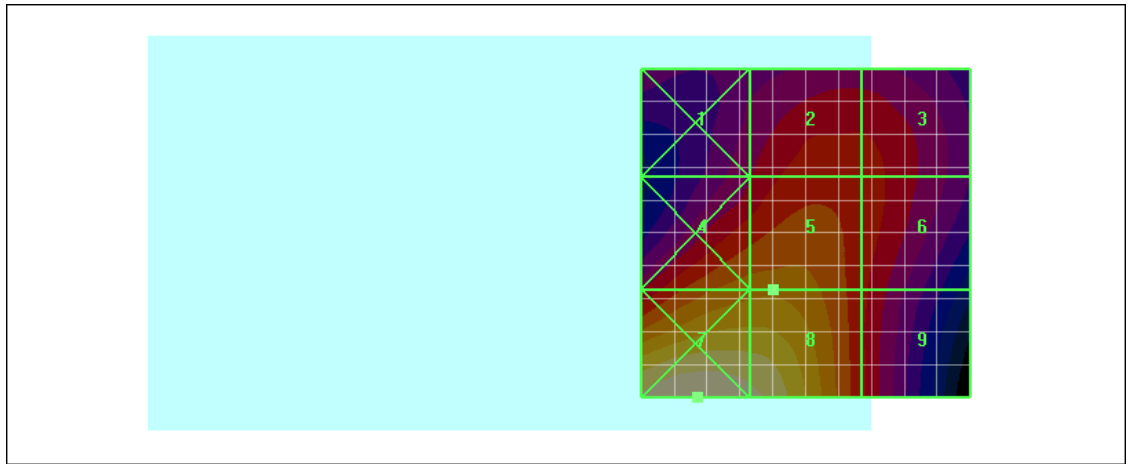
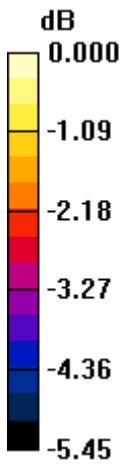
Grid 1 0.124 M4	Grid 2 0.133 M4	Grid 3 0.132 M4
Grid 4 0.144 M3	Grid 5 0.145 M3	Grid 6 0.133 M4
Grid 7 0.173 M3	Grid 8 0.168 M3	Grid 9 0.131 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.173A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		166 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 11:42:31 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_1900_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

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 = 0.075 A/m; Power Drift = 0.063 dB

Maximum value of Total (measured) = 0.079 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 RCS71CW		167 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.181 A/m

Probe Modulation Factor = 2.33


Device Reference Point: 0.000, 0.000, -6.30 mm

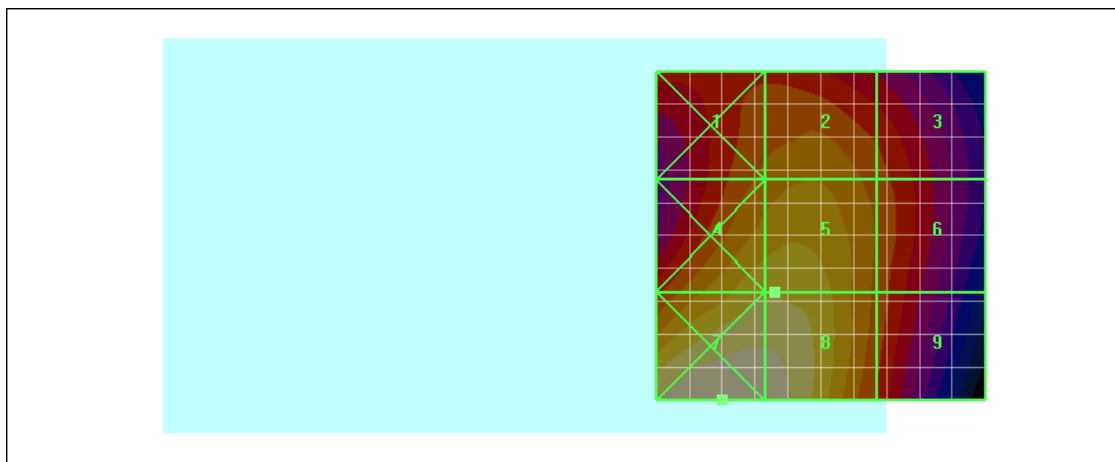
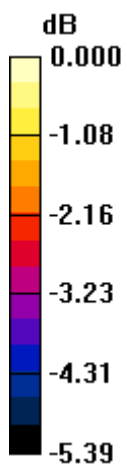
Reference Value = 0.075 A/m; Power Drift = 0.063 dB

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


Peak H-field in A/m

Grid 1 0.152 M3	Grid 2 0.156 M3	Grid 3 0.147 M3
Grid 4 0.168 M3	Grid 5 0.169 M3	Grid 6 0.149 M3
Grid 7 0.184 M3	Grid 8 0.181 M3	Grid 9 0.148 M3

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		Page 168 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21



0 dB = 0.184A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		169 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 11:48:39 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_1900_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

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 = 0.070 A/m; Power Drift = -0.140 dB

Maximum value of Total (measured) = 0.071 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 RCS71CW		170 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.161 A/m

Probe Modulation Factor = 2.33

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.070 A/m; Power Drift = -0.140 dB

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

Peak H-field in A/m

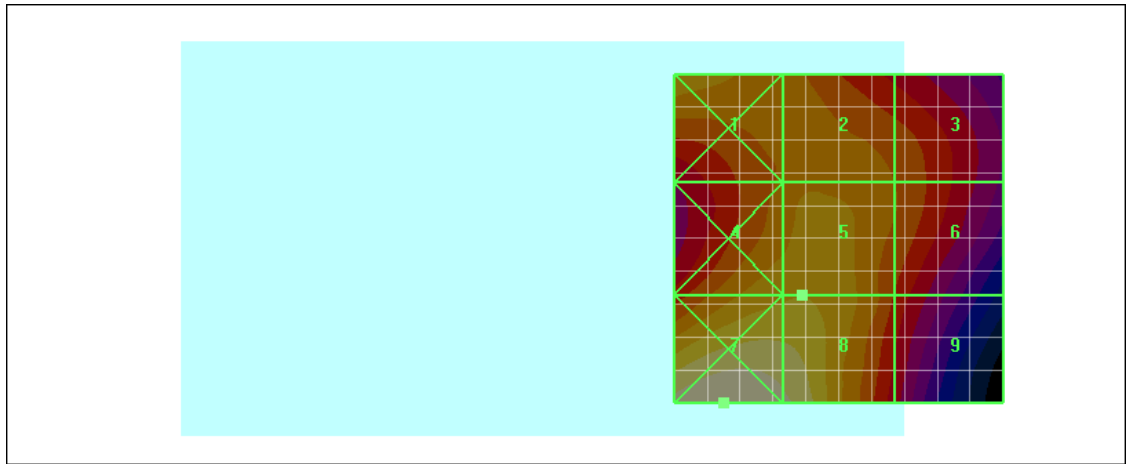
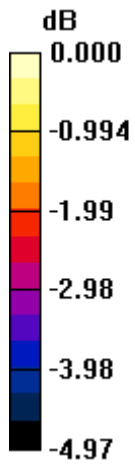
Grid 1 0.147 M3	Grid 2 0.142 M3	Grid 3 0.137 M4
Grid 4 0.147 M3	Grid 5 0.148 M3	Grid 6 0.138 M4
Grid 7 0.166 M3	Grid 8 0.161 M3	Grid 9 0.132 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.166A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		172 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 05/11/2009 11:56:38 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_CDMA_1900_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

Communication System: CDMA 1900; Frequency: 1851.25 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 = 0.088 A/m; Power Drift = -0.118 dB

Maximum value of Total (measured) = 0.098 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 RCS71CW		173 (180)
Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21	FCC ID L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.092 A/m

Probe Modulation Factor = 0.960

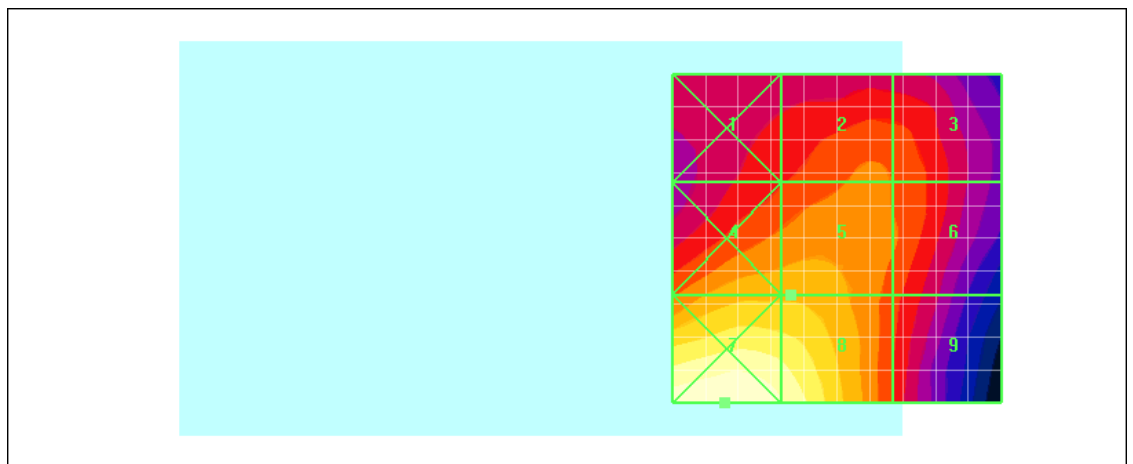
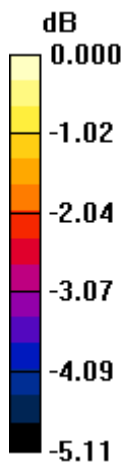
Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.088 A/m; Power Drift = -0.118 dB

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


Peak H-field in A/m

Grid 1 0.072 M4	Grid 2 0.076 M4	Grid 3 0.075 M4
Grid 4 0.081 M4	Grid 5 0.081 M4	Grid 6 0.076 M4
Grid 7 0.095 M4	Grid 8 0.092 M4	Grid 9 0.073 M4



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		Page 174 (180)
	Author Data Daoud Attayi	Dates of Test Oct. 31-Nov. 06, 2009	Report No RTS-2340-0911-21

0 dB = 0.095A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		175 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 06/11/2009 12:02:15 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_CDMA_1900_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

Communication System: CDMA 1900; 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 = 0.095 A/m; Power Drift = -0.095 dB

Maximum value of Total (measured) = 0.096 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 RCS71CW		176 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.091 A/m

Probe Modulation Factor = 0.960

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.095 A/m; Power Drift = -0.095 dB

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

Peak H-field in A/m

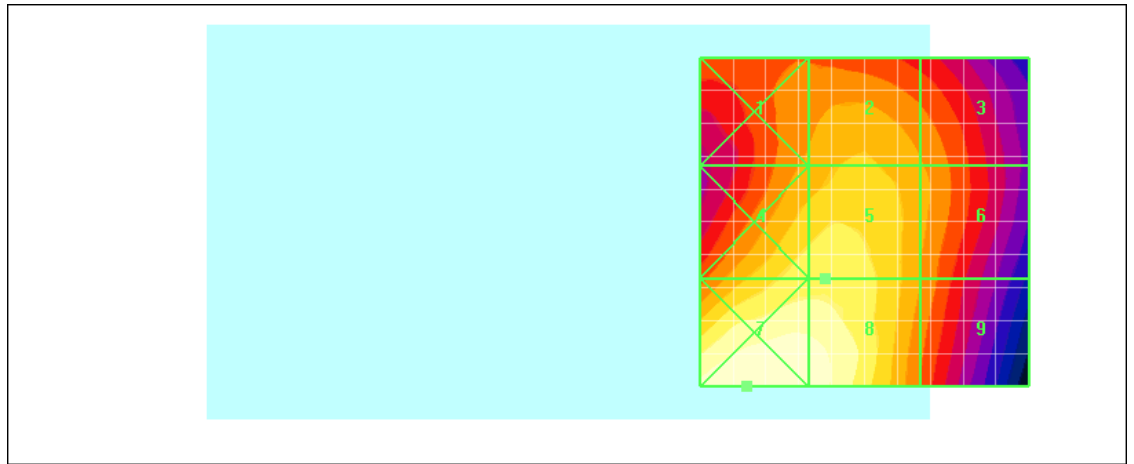
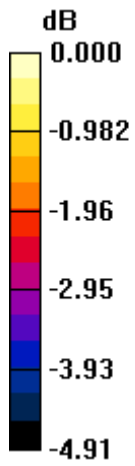
Grid 1 0.077 M4	Grid 2 0.080 M4	Grid 3 0.077 M4
Grid 4 0.084 M4	Grid 5 0.084 M4	Grid 6 0.077 M4
Grid 7 0.092 M4	Grid 8 0.091 M4	Grid 9 0.076 M4

Author Data
Daoud Attayi


Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.092A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCS71CW		178 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

Date/Time: 06/11/2009 12:07:29 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_CDMA_1900_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

Communication System: CDMA 1900; Frequency: 1908.5 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 = 0.082 A/m; Power Drift = 0.100 dB

Maximum value of Total (measured) = 0.085 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 RCS71CW		179 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Oct. 31-Nov. 06, 2009	RTS-2340-0911-21	L6ARCS70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.081 A/m

Probe Modulation Factor = 0.960

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.082 A/m; Power Drift = 0.100 dB

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

Peak H-field in A/m

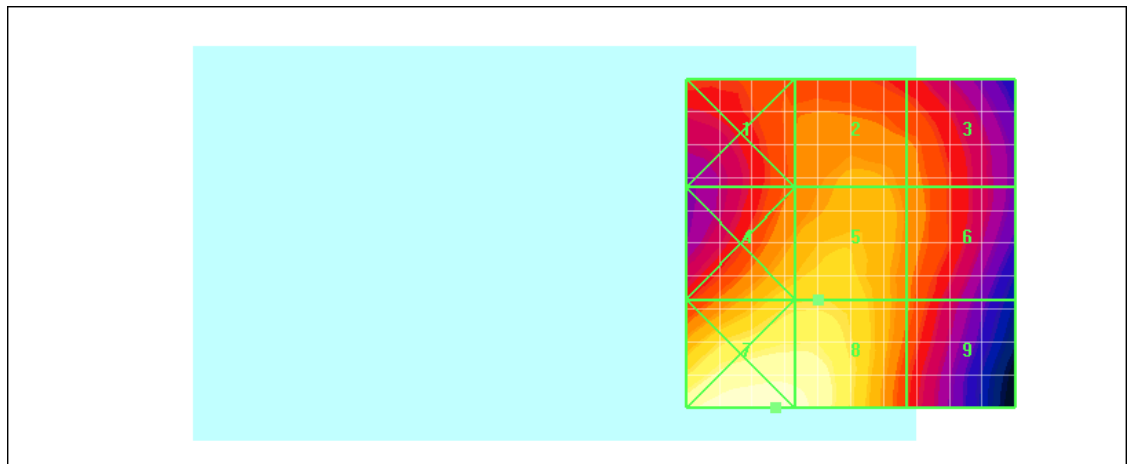
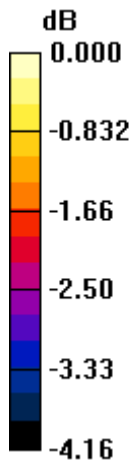
Grid 1 0.068 M4	Grid 2 0.070 M4	Grid 3 0.069 M4
Grid 4 0.074 M4	Grid 5 0.074 M4	Grid 6 0.069 M4
Grid 7 0.082 M4	Grid 8 0.081 M4	Grid 9 0.068 M4

Author Data
Daoud Attayi

Dates of Test
Oct. 31-Nov. 06, 2009

Report No
RTS-2340-0911-21

FCC ID
L6ARCS70CW



0 dB = 0.082A/m