RTS RIM Testing Services		Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W W

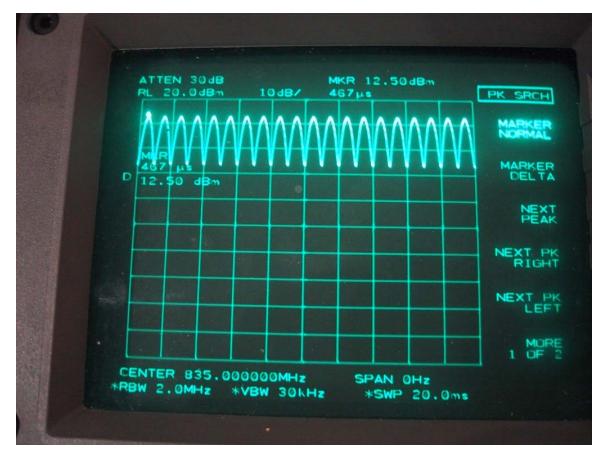
Annex A: Measurement plots and data

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



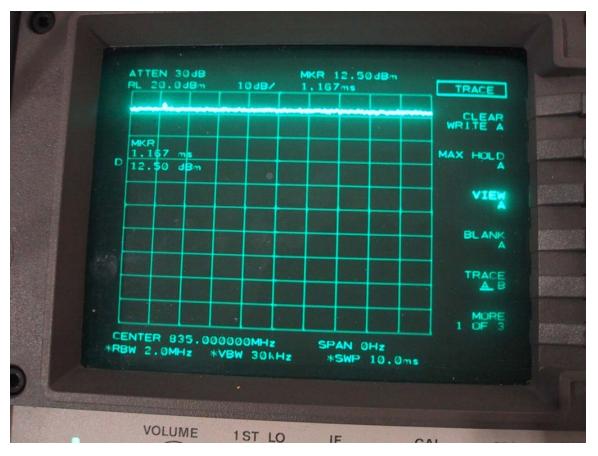
0 Hz Span CW Plot (835MHz)

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		Page 2(111)	
Author Data	Dates	Report No	FCC ID	CW
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20	



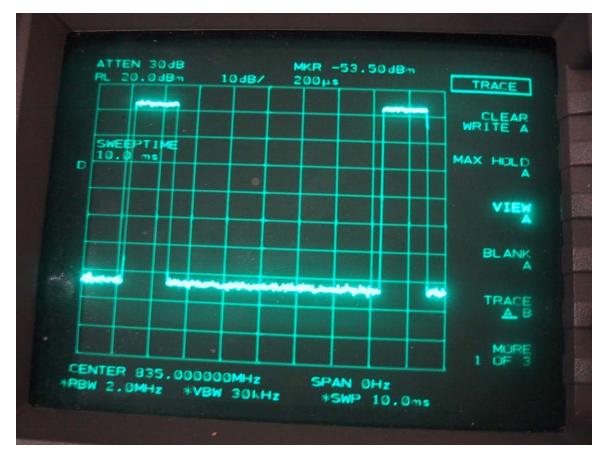
0 Hz Span 80% AM Plot (835MHz)

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 3(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW



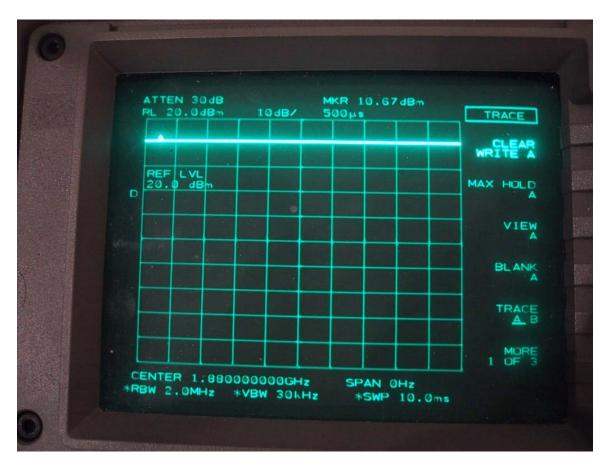
0 Hz Span CDMA Full Rate (835MHz)

RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		Page 4(111)	
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20	CW



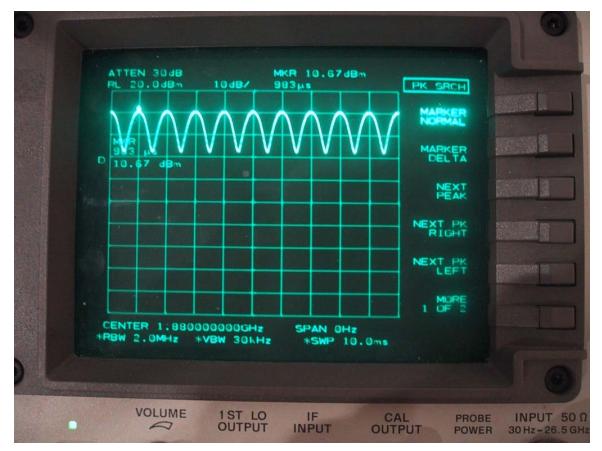
0 Hz Span CDMA 1/8 Rate (835MHz)

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		Page 5(111)	
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW



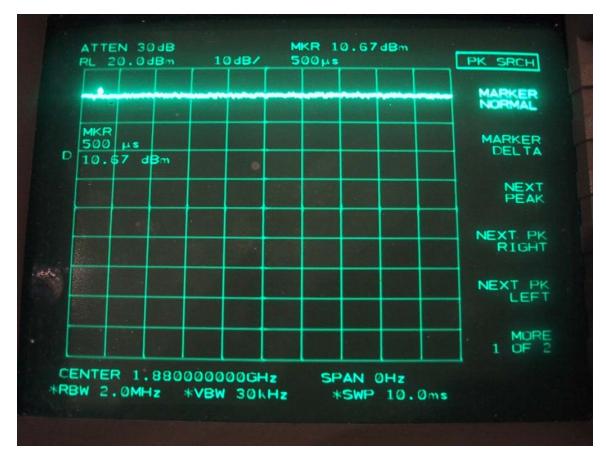
0 Hz Span CW Plot (1880MHz)

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 6(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	uly 13-19, 31, 2006 RTS-0373-0607-14 L6ARBF20CW			W



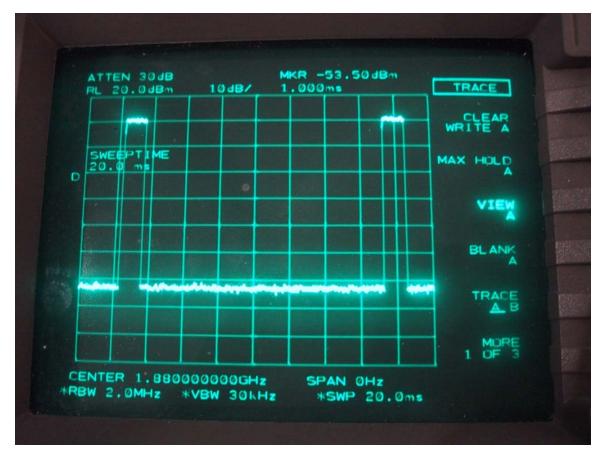
0 Hz Span 80% AM Plot (1880MHz)

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 7(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW



0 Hz Span CDMA Full Rate (1880MHz)

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 8(111)
Author Data	Dates	Report No		
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	. VV



0 Hz Span CDMA 1/8 Rate (1880MHz)

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 9(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW

A.2 Dipole validation and probe modulation factor plots

RTS RIM Testing Services		Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W W

Date/Time: 17/07/2006 10:34:32 AM

Test Laboratory: RTS

HAC_E_Dipole_835 MHz_CW_20dBm

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

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

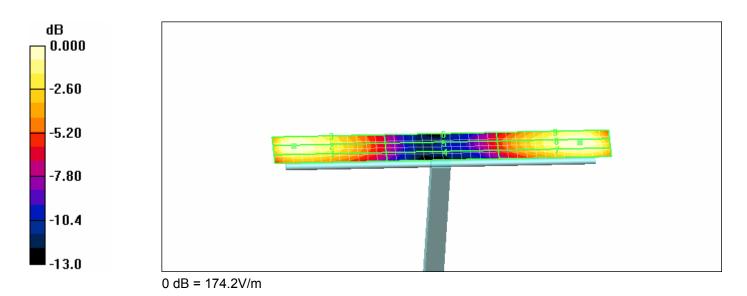
E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(5x37x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 53.7 V/m; Power Drift = 0.038 dB Maximum value of Total (measured) = 171.7 V/m

E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 174.2 V/m Probe Modulation Factor = 1.00 Reference Value = 53.7 V/m; Power Drift = 0.038 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E	Peak E-field in V/m				
Grid	Grid	Grid			
152.7	174.2	174.1			
Grid	Grid	Grid			
85.6	91.0	90.2			
Grid	Grid	Grid			

RTS RIM Testing Services		Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW	



RTS RIM Testing Services		l Compatibility RF Emiss Vireless Handheld Mode		Page 12(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 17/07/2006 12:47:20 PM

Test Laboratory: RTS

HAC_E_Dipole_835 MHz_CW_12.5dBm

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

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

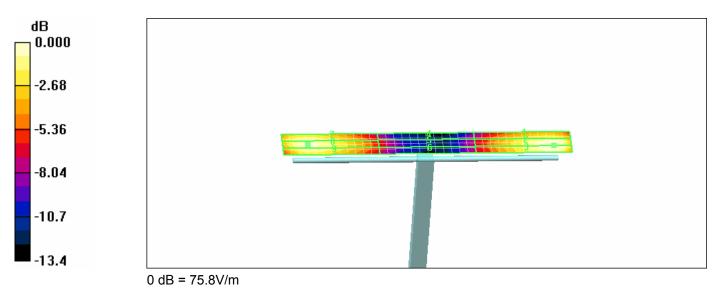
E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x37x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 22.5 V/m; Power Drift = 0.006 dB Maximum value of Total (measured) = 74.7 V/m

E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 75.8 V/m Probe Modulation Factor = 1.00 Reference Value = 22.5 V/m; Power Drift = 0.006 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m					
Grid	Grid	Grid			
64.6	75.8	75.8			
Grid	Grid	Grid			
36.2	37.8	37.2			
Grid	Grid	Grid			

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		ions Test	Page 13(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CV	V



RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry W			Page 14(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 17/07/2006 12:55:40 PM

Test Laboratory: RTS

HAC_E_Dipole_835 MHz_AM80%_12.5dBm

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

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

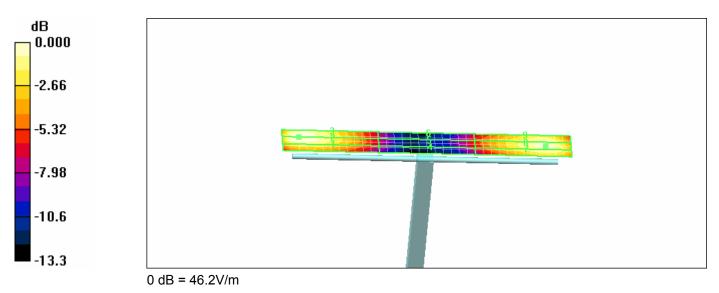
E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x37x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 13.8 V/m; Power Drift = 0.081 dB Maximum value of Total (measured) = 45.6 V/m

E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 46.2 V/m Probe Modulation Factor = 1.00 Reference Value = 13.8 V/m; Power Drift = 0.081 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m					
Grid	Grid	Grid			
39.6	46.2	46.2			
Grid	Grid	Grid			
22.2	23.4	23.1			
Grid	Grid	Grid			

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 15(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W



RTS RIM Testing Services	Document Annex A to Hearing Aid Report for BlackBerry W			Page 16(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 17/07/2006 11:26:09 AM

Test Laboratory: RTS

HAC_E_Dipole_835 MHz_CDMA_Full_12.5dBm

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

Communication System: CDMA 800; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

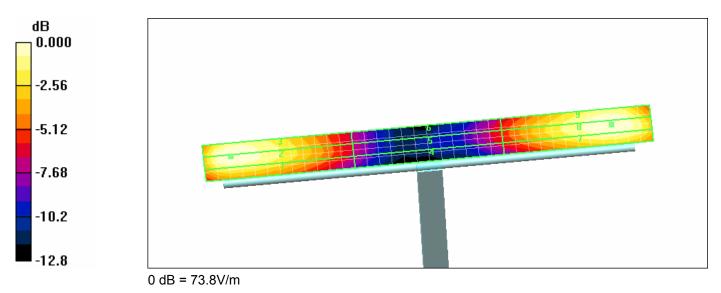
E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x37x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 23.1 V/m; Power Drift = 0.010 dB Maximum value of Total (measured) = 73.4 V/m

E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 73.8 V/m Probe Modulation Factor = 1.00 Reference Value = 23.1 V/m; Power Drift = 0.010 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E	-field in V/m	
Grid	Grid	Grid
64.6	73.8	73.6
Grid	Grid	Grid
36.4	38.6	38.3
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry V			Page 17(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W



RTS RIM Testing Services		Compatibility RF Emissi /ireless Handheld Model		Page 18(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 17/07/2006 11:35:24 AM

Test Laboratory: RTS

HAC_E_Dipole_835 MHz_CDMA_1/8th_R_12.5dBm

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

Communication System: CDMA 800; Frequency: 835 MHz;Duty Cycle: 1:8 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

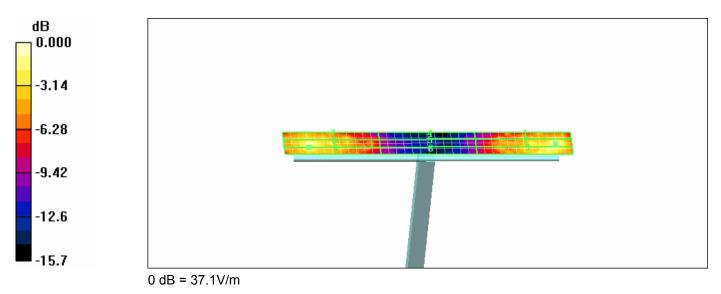
E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x37x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 8.45 V/m; Power Drift = 0.066 dB Maximum value of Total (measured) = 36.8 V/m

E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 37.1 V/m Probe Modulation Factor = 1.00 Reference Value = 8.45 V/m; Power Drift = 0.066 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m					
Grid	Grid	Grid			
28.3	37.1	33.0			
Grid	Grid	Grid			
14.7	14.7	14.8			
Grid	Grid	Grid			

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 19(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W



RTS RIM Testing Services		l Compatibility RF Emiss Wireless Handheld Mode		Page 20(111)
Author Data	Dates	Report No	FCC ID	ŚW
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	

Date/Time: 17/07/2006 2:29:02 PM

Test Laboratory: RTS

HAC_H_Dipole_835 MHz_CW_20dBm

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

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

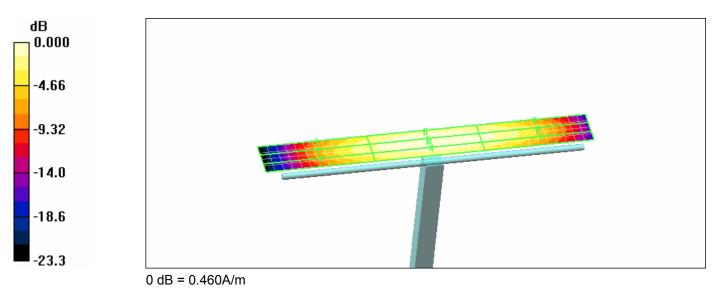
H Scan - H3DV6 probe tip 10mm above CD835 Dipole/Hearing Aid Compatibility Test (5x37x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00 Reference Value = 0.532 A/m; Power Drift = -0.067 dB Maximum value of Total (measured) = 0.458 A/m

H Scan - H3DV6 probe tip 10mm above CD835 Dipole/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.460 A/m Probe Modulation Factor = 1.00 Reference Value = 0.532 A/m; Power Drift = -0.067 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak I	Peak H-field in A/m				
Grid	Grid	Grid			
0.354	0.376	0.366			
Grid	Grid	Grid			
0.427	0.460	0.451			
Grid	Grid	Grid			

RTS RIM Testing Services			Page 21(111)	
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W W



RTS RIM Testing Services		Compatibility RF Emiss Vireless Handheld Mode		Page 22(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW

Date/Time: 17/07/2006 1:54:14 PM

Test Laboratory: RTS

HAC_H_Dipole_835 MHz_CW_12.5dBm

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

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

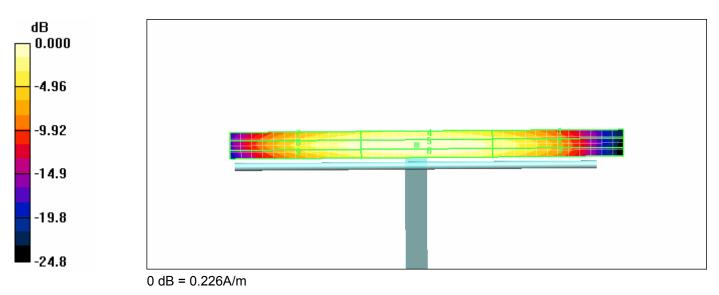
- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x37x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.219 A/m; Power Drift = -0.012 dB Maximum value of Total (measured) = 0.226 A/m

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.226 A/m Probe Modulation Factor = 1.00 Reference Value = 0.219 A/m; Power Drift = -0.012 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m					
Grid	Grid	Grid			
0.165	0.185	0.182			
Grid	Grid	Grid			
0.205	0.226	0.216			
Grid	Grid	Grid			

RTS RIM Testing Services				Page 23(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W



RTS RIM Testing Services		Compatibility RF Emiss Vireless Handheld Mode		Page 24(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W W

Date/Time: 17/07/2006 1:44:36 PM

Test Laboratory: RTS

HAC_H_Dipole_835 MHz_AM80%_12.5dBm

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

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

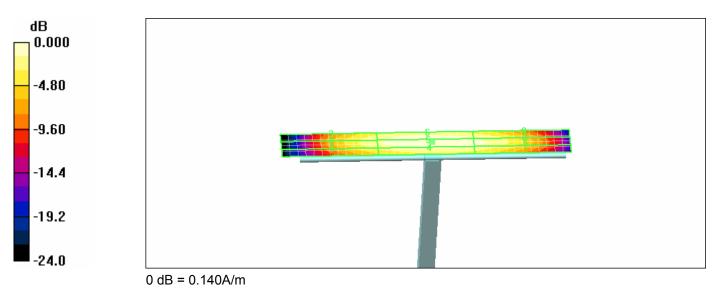
- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x37x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.134 A/m; Power Drift = 0.040 dB Maximum value of Total (measured) = 0.139 A/m

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.140 A/m Probe Modulation Factor = 1.00 Reference Value = 0.134 A/m; Power Drift = 0.040 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m				
Grid	Grid	Grid		
0.102	0.115	0.113		
Grid	Grid	Grid		
0.126	0.140	0.134		
Grid	Grid	Grid		

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 25(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W



RTS RIM Testing Services		Compatibility RF Emiss Vireless Handheld Mode		Page 26(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW

Date/Time: 17/07/2006 2:42:01 PM

Test Laboratory: RTS

HAC_H_Dipole_835 MHz_CDMA_12.5dBm

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

Communication System: CDMA 800; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

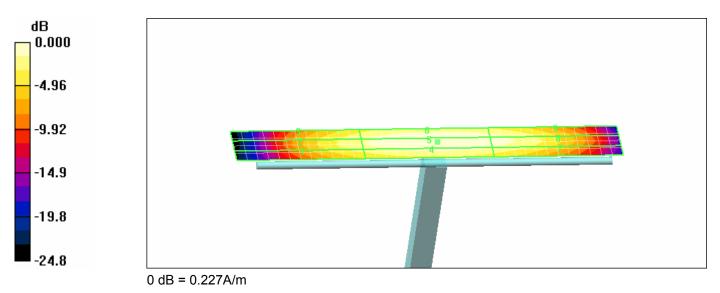
H Scan - H3DV6 probe tip 10mm above CD835 Dipole/Hearing Aid Compatibility Test (5x37x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.219 A/m; Power Drift = 0.037 dB Maximum value of Total (measured) = 0.226 A/m

H Scan - H3DV6 probe tip 10mm above CD835 Dipole/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.227 A/m Probe Modulation Factor = 1.00 Reference Value = 0.219 A/m; Power Drift = 0.037 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Deals II field in Alm

Peak H-field in A/m				
Grid	Grid	Grid		
0.169	0.185	0.179		
Grid	Grid	Grid		
0.205	0.227	0.219		
Grid	Grid	Grid		

RTS RIM Testing Services				Page 27(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W



RTS RIM Testing Services	Document Annex A to Hearing Aid Report for BlackBerry W			Page 28(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 31/07/2006 9:38:48 AM

Test Laboratory: RTS

HAC_H_Dipole_835 MHz_CDMA_1/8th_12.5dBm

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

Communication System: CDMA 800; Frequency: 835 MHz;Duty Cycle: 1:8 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

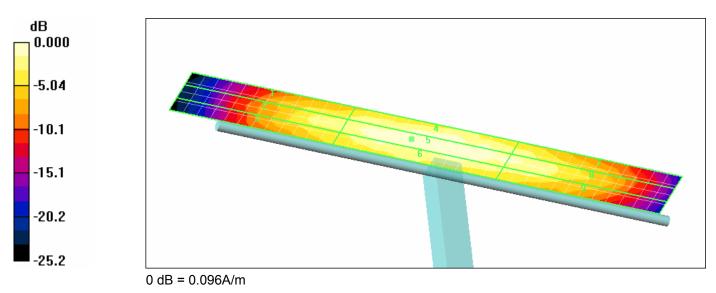
- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above CD835 Dipole/Hearing Aid Compatibility Test (5x37x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.083 A/m; Power Drift = -0.011 dB Maximum value of Total (measured) = 0.096 A/m

H Scan - H3DV6 probe tip 10mm above CD835 Dipole/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.096 A/m Probe Modulation Factor = 1.00 Reference Value = 0.083 A/m; Power Drift = -0.011 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m					
Grid	Grid	Grid			
0.069	0.075	0.065			
Grid	Grid	Grid			
0.091	0.096	0.085			
Grid	Grid	Grid			

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		
Author Data	Dates	Report No	FCC ID
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW



RTS RIM Testing Services		l Compatibility RF Emiss Wireless Handheld Mode		Page 30(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 13/07/2006 2:40:05 PM

Test Laboratory: RTS

HAC_E_Dipole_1880 MHz_CW_20dBm

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

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

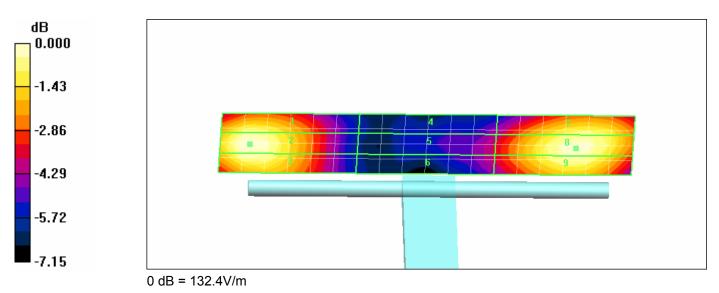
E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x19x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 72.9 V/m; Power Drift = 0.031 dB Maximum value of Total (measured) = 130.3 V/m

E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 132.4 V/m Probe Modulation Factor = 1.00 Reference Value = 72.9 V/m; Power Drift = 0.031 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m				
Grid	Grid	Grid		
125.2	132.4	129.3		
Grid	Grid	Grid		
81.9	87.3	87.0		
Grid	Grid	Grid		

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 31(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W



RTS RIM Testing Services		Compatibility RF Emiss Vireless Handheld Mode		Page 32(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW

Date/Time: 13/07/2006 2:46:28 PM

Test Laboratory: RTS

HAC_E_Dipole_1880 MHz_CW_10.67dBm

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

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

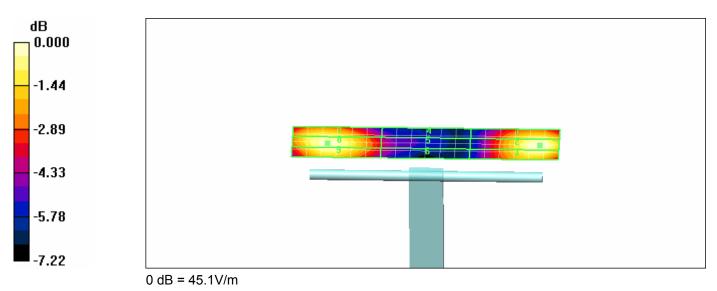
E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x19x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 24.8 V/m; Power Drift = -0.017 dB Maximum value of Total (measured) = 44.4 V/m

E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 45.1 V/m Probe Modulation Factor = 1.00 Reference Value = 24.8 V/m; Power Drift = -0.017 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m					
Grid	Grid	Grid			
42.6	45.1	43.9			
Grid	Grid	Grid			
27.9	29.7	29.5			
Grid	Grid	Grid			

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 33 (111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW



RTS RIM Testing Services		Compatibility RF Emissi /ireless Handheld Model		Page 34(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 13/07/2006 2:53:15 PM

Test Laboratory: RTS

HAC_E_Dipole_1880 MHz_80%AM_10.67dBm

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

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

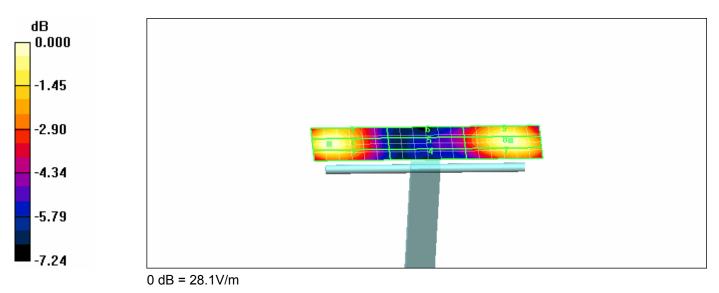
E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x19x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 15.4 V/m; Power Drift = -0.009 dB Maximum value of Total (measured) = 27.7 V/m

E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 28.1 V/m Probe Modulation Factor = 1.00 Reference Value = 15.4 V/m; Power Drift = -0.009 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m					
Grid	Grid	Grid			
26.7	28.1	27.4			
Grid	Grid	Grid			
17.4	18.5	18.4			
Grid	Grid	Grid			

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 35(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W



RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 36(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 13/07/2006 3:03:30 PM

Test Laboratory: RTS

HAC_E_Dipole_1880 MHz_CDMA_FR_10.67dBm

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

Communication System: CDMA 1900; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

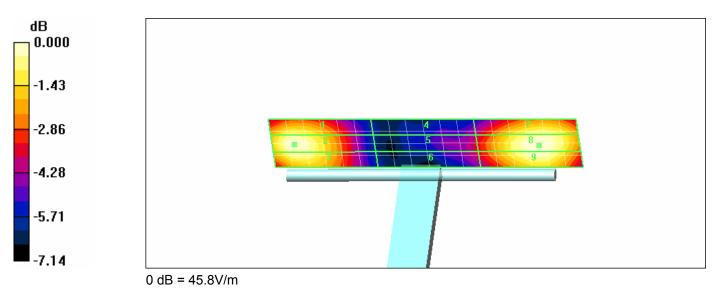
E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x19x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 25.5 V/m; Power Drift = -0.088 dB Maximum value of Total (measured) = 45.1 V/m

E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 45.8 V/m Probe Modulation Factor = 1.00 Reference Value = 25.5 V/m; Power Drift = -0.088 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m				
Grid	Grid	Grid		
43.1	45.8	44.5		
Grid	Grid	Grid		
28.7	30.7	30.5		
Grid	Grid	Grid		

RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry	Page 37(111)		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W



RTS RIM Testing Services	Document Annex A to Hearing Aid Report for BlackBerry V	Page 38(111)		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W

Date/Time: 31/07/2006 10:26:14 AM

Test Laboratory: RTS

HAC_E_Dipole_1880 MHz_CDMA_eigth_10.67dBm_07_31_06

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

Communication System: CDMA 1900; Frequency: 1880 MHz;Duty Cycle: 1:8 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

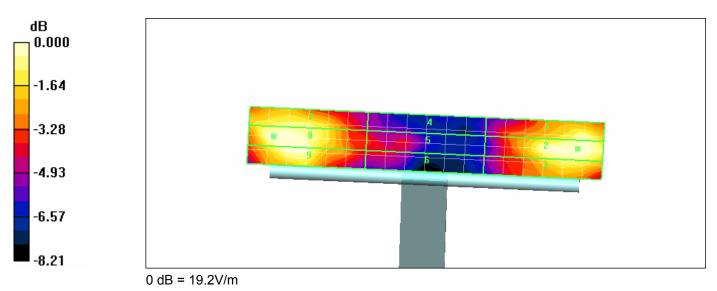
E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x19x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 9.47 V/m; Power Drift = -0.005 dB Maximum value of Total (measured) = 19.0 V/m

E Scan - ER probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 19.2 V/m Probe Modulation Factor = 1.00 Reference Value = 9.47 V/m; Power Drift = -0.005 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m					
Grid	Grid	Grid			
18.6	19.1	17.7			
Grid	Grid	Grid			
11.4	12.7	12.1			
Grid	Grid	Grid			

RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry V	Page 39(111)		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW



RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW				
Author Data	Dates	Report No	FCC ID		
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW	

RTS RIM Testing Services		l Compatibility RF Emiss Vireless Handheld Mode		Page 41(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 14/07/2006 4:00:34 PM

Test Laboratory: RTS

HAC_H_Dipole_1880 MHz_CW_20dBm

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

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

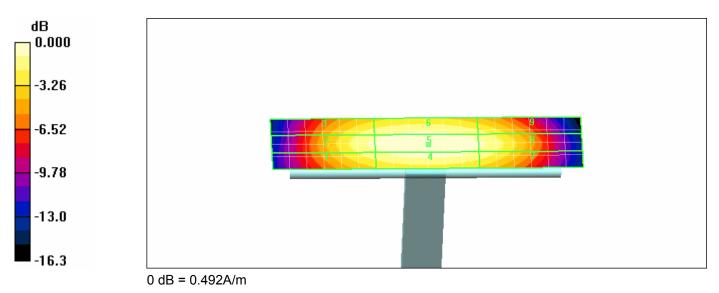
- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x19x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.478 A/m; Power Drift = -0.003 dB Maximum value of Total (measured) = 0.491 A/m

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.492 A/m Probe Modulation Factor = 1.00 Reference Value = 0.478 A/m; Power Drift = -0.003 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H	Peak H-field in A/m					
Grid	Grid	Grid				
0.425	0.451	0.422				
Grid	Grid	Grid				
0.468	0.492	0.454				
Grid	Grid	Grid				

RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry		Page 42(111)	
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW	



RTS RIM Testing Services		Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW				
Author Data	Dates	Report No	FCC ID			
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W		

Date/Time: 14/07/2006 4:09:14 PM

Test Laboratory: RTS

HAC_H_Dipole_1880 MHz_CW_10.67dBm

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

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

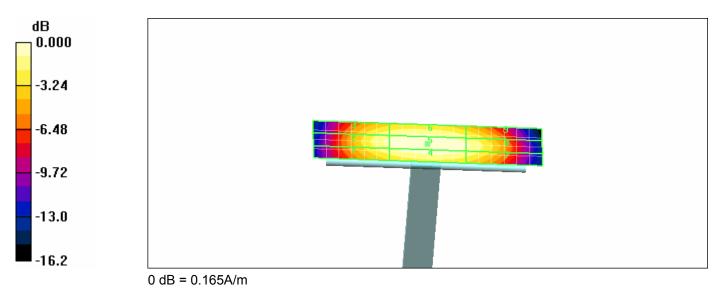
- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x19x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.161 A/m; Power Drift = -0.020 dB Maximum value of Total (measured) = 0.165 A/m

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.165 A/m Probe Modulation Factor = 1.00 Reference Value = 0.161 A/m; Power Drift = -0.020 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H	Peak H-field in A/m					
Grid	Grid	Grid				
0.144	0.152	0.142				
Grid	Grid	Grid				
0.158	0.165	0.152				
Grid	Grid	Grid				

RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry V	Page 44(111)		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW	



RTS RIM Testing Services		Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW				
Author Data	Dates	Report No	FCC ID			
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W		

Date/Time: 14/07/2006 4:16:07 PM

Test Laboratory: RTS

HAC_H_Dipole_1880 MHz_80%AM_10.67dBm

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

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

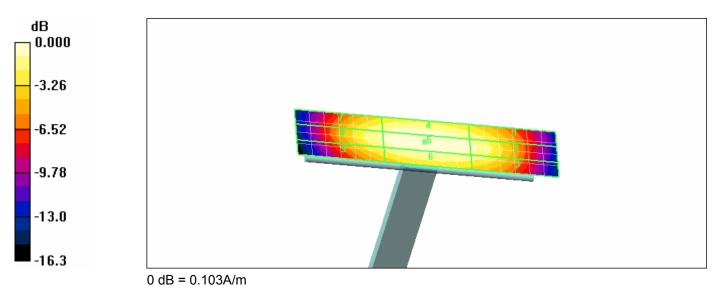
- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x19x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.101 A/m; Power Drift = -0.049 dB Maximum value of Total (measured) = 0.103 A/m

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.103 A/m Probe Modulation Factor = 1.00 Reference Value = 0.101 A/m; Power Drift = -0.049 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m				
Grid	Grid	Grid		
0.090	0.095	0.088		
Grid	Grid	Grid		
0.099	0.103	0.095		
Grid	Grid	Grid		

RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry V	Page 46(111)		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006			



RTS RIM Testing Services		Compatibility RF Emiss Vireless Handheld Mode		Page 47(111)
Author Data	Dates	Dates Report No FCC ID		
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 14/07/2006 4:30:14 PM

Test Laboratory: RTS

HAC_H_Dipole_1880 MHz_CDMA_Full_10.67dBm

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

Communication System: CDMA 1900; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

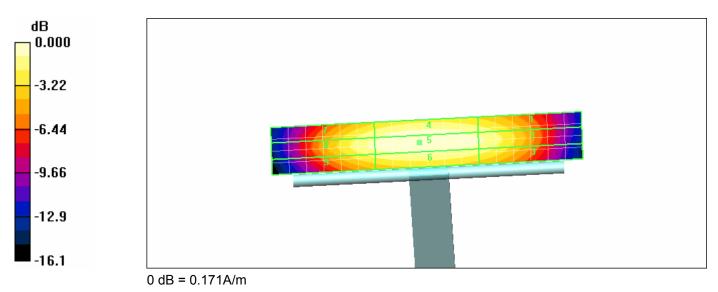
- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x19x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.167 A/m; Power Drift = -0.071 dB Maximum value of Total (measured) = 0.171 A/m

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.171 A/m Probe Modulation Factor = 1.00 Reference Value = 0.167 A/m; Power Drift = -0.071 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H	Peak H-field in A/m				
Grid	Grid	Grid			
0.147	0.156	0.145			
Grid	Grid	Grid			
0.164	0.171	0.157			
Grid	Grid	Grid			

RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry		Page 48(111)	
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W



RTS RIM Testing Services		l Compatibility RF Emiss Vireless Handheld Mode		Page 49(111)
Author Data	Dates	Dates Report No FCC ID		
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W

Date/Time: 31/07/2006 9:55:07 AM

Test Laboratory: RTS

HAC_H_Dipole_1880 MHz_CDMA_Eigth_10.67dBm

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

Communication System: CDMA 1900; Frequency: 1880 MHz;Duty Cycle: 1:8 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Device Section

DASY4 Configuration:

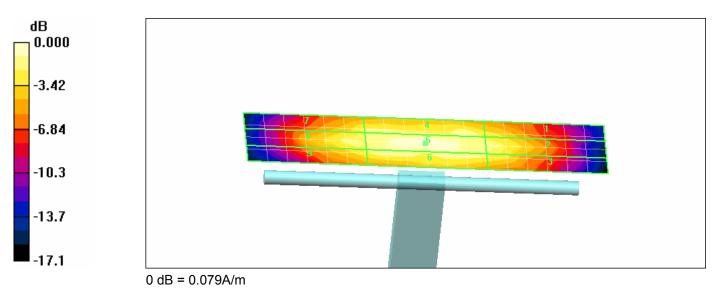
- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (5x19x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.069 A/m; Power Drift = 0.150 dB Maximum value of Total (measured) = 0.079 A/m

H Scan - H3DV6 probe tip 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.079 A/m Probe Modulation Factor = 1.00 Reference Value = 0.069 A/m; Power Drift = 0.150 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m				
Grid	Grid	Grid		
0.060	0.064	0.063		
Grid	Grid	Grid		
0.069	0.079	0.070		
Grid	Grid	Grid		

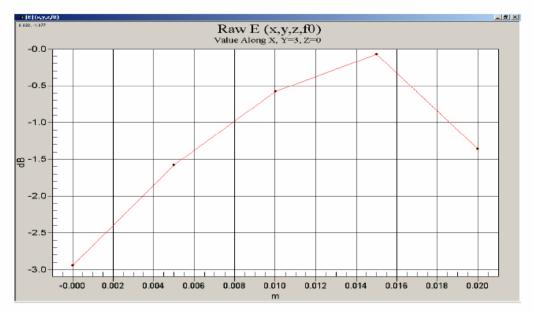
RTS RIM Testing Services				Page 50(111)
Author Data	Dates	Dates Report No FCC ID		
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW



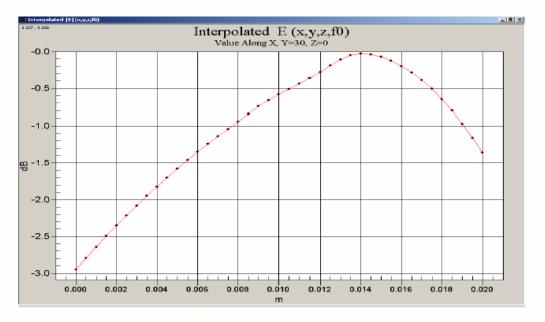
RTS RIM Testing Services	Document Annex A to Hearing Aid C Report for BlackBerry Wir			Page 51(111)
Author Data	Dates	Dates Report No FCC ID		
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

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.



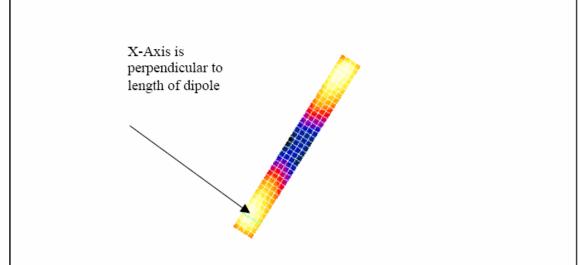
The figure above shows the raw measured field strength perpendicular to the length of the validation dipole. The TCB guidance slides require the 3dB width to be much larger than the step size. The width between -3dB points is ≥ 21 mm, at least 4 times the step size.



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

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RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CWPage 52(111)				
Author Data	Dates	Report No	FCC ID	1	
Daoud Attayi	July 13-19, 31, 2006	July 13-19, 31, 2006 RTS-0373-0607-14 L6ARBF20CW			



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.

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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, $\varepsilon_r = 1$; $\rho = 1000$ 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)

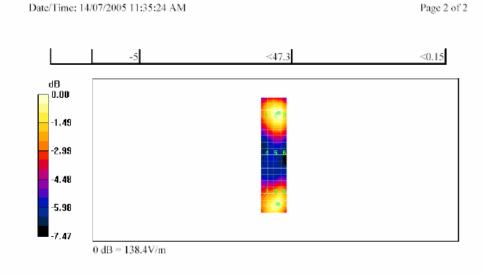
E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1					Grid 3
123.2					138.4
Grid 4			 		Grid 6
80.9				92.3	
Grid 7					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

RTS	Annex A to Hearing Aid Compatibility RF Emissions Test				
RIM Testing Services	Report for BlackBerry Wireless Handheld Model RBF20CW				
Author Data Daoud Attayi	Dates Report No FCC ID July 13-19, 31, 2006 RTS-0373-0607-14 L6ARBF20CW				



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

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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, $\varepsilon_r = 1$; $\rho = 1000$ 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 9
121.3	131.2	131.0	121.3	131.2	131.0

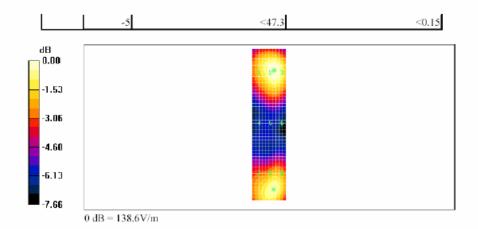
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry V	Page 56(111)				
Author Data Daoud Attayi	Dates July 13-19, 31, 2006					

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

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

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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, $\varepsilon_r = 1$; $\rho = 1$ 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 6		Grid 5	
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

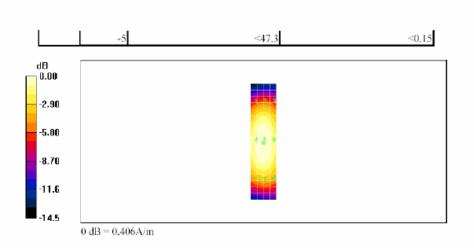
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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RTS RIM Testing Services		Compatibility RF Emiss Vireless Handheld Model		Page 58(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W

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RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry V	Page 59(111)				
Author Data Daoud Attayi	Dates July 13-19, 31, 2006					

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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, $\varepsilon_r = 1$; $\rho = 1$ 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 5	
0.394	0.406	0.391	0.394	0.406	0.391
		Grid 9		Grid 8	
0.367	0.380	0.365	0.367	0.380	0.365

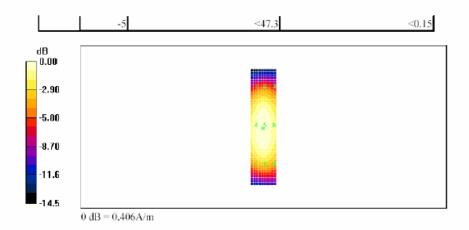
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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RTS	Annex A to Hearing Aid	Page				
RIM Testing Services	Report for BlackBerry V	60(111)				
Author Data Daoud Attayi	Dates July 13-19, 31, 2006					

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RTS RIM Testing Services	Annex A to Hearing Aid (Report for BlackBerry Wi	Page 61(111)		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006 RTS-0373-0607-14 L6ARBF20CW			

A.3 RF emission field plots

For plots where the probe was rotated, an arrow is drawn to showing location of the probe rotation after the exclusion block.

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW				
Author Data	Dates	Report No	FCC ID		
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W	

Date/Time: 18/07/2006 10:16:26 AM

Test Laboratory: RTS

HAC_E_Field_CDMA800_Spk center_low_chan

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 824.7 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 94.4 V/m

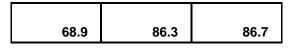
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 91.9 V/m; Power Drift = -0.099 dB

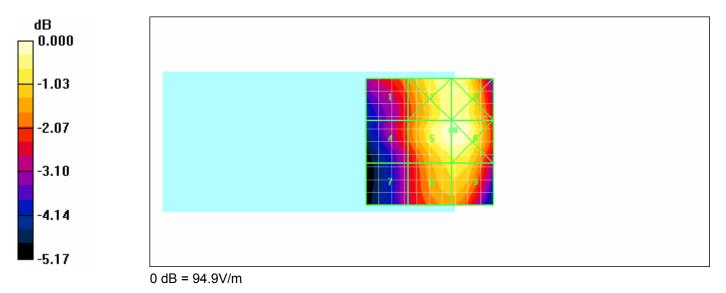
Maximum value of Total (measured) = 94.8 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 94.4 V/m Probe Modulation Factor = 1.00 Reference Value = 91.9 V/m; Power Drift = -0.099 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Grid	Grid	Grid		
78.4	91.9	92.1		
Grid	Grid	Grid		
75.8	94.4	94.9		
Grid	Grid	Grid		

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW	





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RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW				
Author Data	Dates	Report No	FCC ID		
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W	

Date/Time: 18/07/2006 10:26:30 AM

Test Laboratory: RTS

HAC_E_Field_CDMA800_Spk center_mid_chan

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

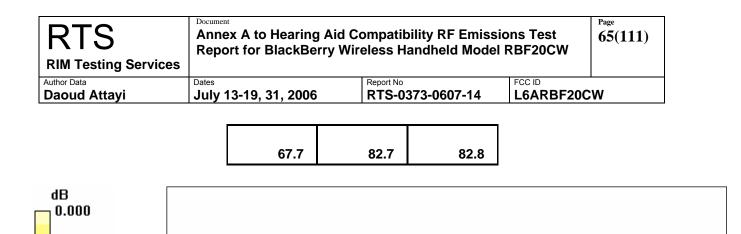
E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 91.6 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00

Reference Value = 90.1 V/m; Power Drift = -0.103 dB Maximum value of Total (measured) = 91.1 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 91.1 V/m Probe Modulation Factor = 1.00 Reference Value = 90.1 V/m; Power Drift = -0.103 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Grid	Grid	Grid		
78.9	89.2	89.2		
Grid	Grid	Grid		
75.3	91.1	91.2		
Grid	Grid	Grid		



-0.996

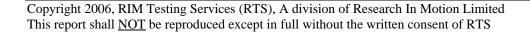
-1.99

-2.99

-3.98

-4.98

0 dB = 91.2 V/m



RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW				
Author Data	Dates	Report No	FCC ID		
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W	

Date/Time: 18/07/2006 10:48:30 AM

Test Laboratory: RTS

HAC_E_Field_CDMA800_Spk center_high_chan

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

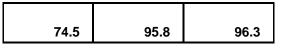
E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 105.4 V/m

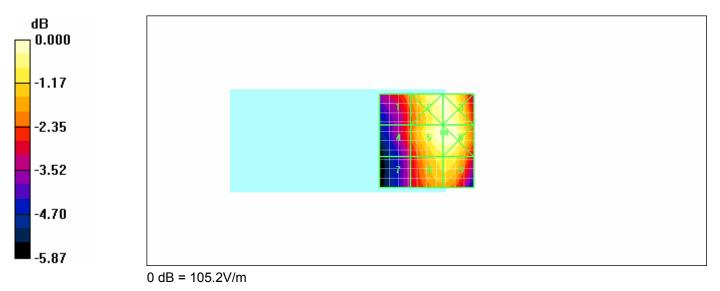
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 100.9 V/m; Power Drift = 0.007 dB Maximum value of Total (measured) = 105.2 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 104.8 V/m Probe Modulation Factor = 1.00 Reference Value = 100.9 V/m; Power Drift = 0.007 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Grid	Grid	Grid		
85.9	102.1	102.6		
Grid	Grid	Grid		
82.1	104.8	105.2		
Grid	Grid	Grid		

RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW				
Author Data	Dates	Report No	FCC ID	•	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW	





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Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 18/07/2006 11:08:31 AM

Test Laboratory: RTS

HAC_E_Field_CDMA800_T_Coil center_low_chan

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 824.7 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

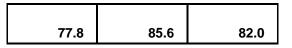
E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 94.3 V/m

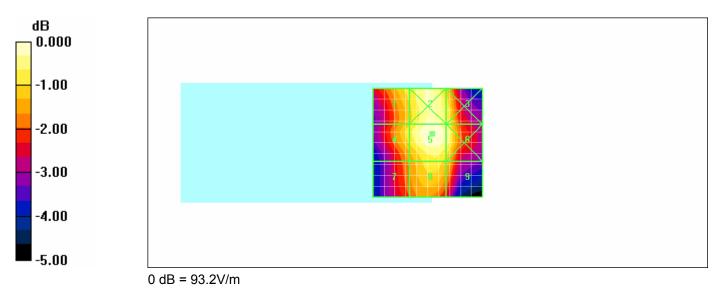
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 90.7 V/m; Power Drift = -0.048 dB Maximum value of Total (measured) = 92.9 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 93.2 V/m Probe Modulation Factor = 1.00 Reference Value = 90.7 V/m; Power Drift = -0.048 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-lieid in V/m				
Grid	Grid	Grid		
85.2	91.1	87.6		
Grid	Grid	Grid		
85.3	93.2	89.3		
Grid	Grid	Grid		

RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry V	Page 69(111)			
Author Data	Dates	Report No	FCC ID		
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW		





RTS RIM Testing Services	Document Annex A to Hearing Aid Report for BlackBerry W	Page 70(111)		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 18/07/2006 11:18:05 AM

Test Laboratory: RTS

HAC_E_Field_CDMA800_T_coil_center_mid_chan

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

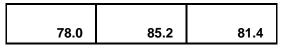
E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 92.4 V/m

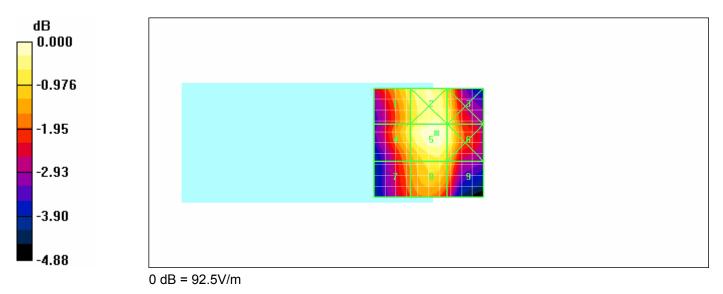
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 89.2 V/m; Power Drift = -0.042 dB Maximum value of Total (measured) = 91.9 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 92.5 V/m Probe Modulation Factor = 1.00 Reference Value = 89.2 V/m; Power Drift = -0.042 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Grid	Grid	Grid		
85.5	90.4	86.9		
Grid	Grid	Grid		
85.5	92.5	89.0		
Grid	Grid	Grid		

RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 71 (111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW	





RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 72(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW

Date/Time: 18/07/2006 11:28:28 AM

Test Laboratory: RTS

HAC_E_Field_CDMA800_T_coil center_high_chan

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

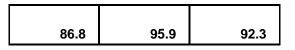
E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 106.4 V/m

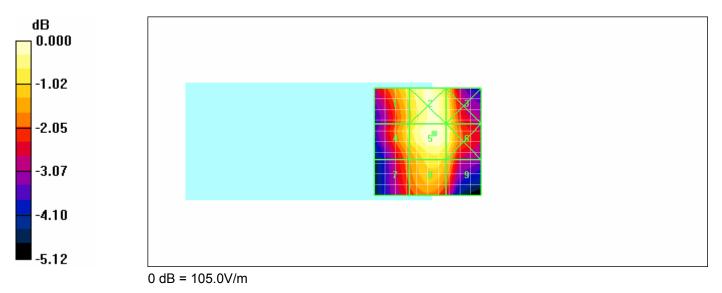
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 100.5 V/m; Power Drift = 0.000 dB Maximum value of Total (measured) = 104.2 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 105.0 V/m Probe Modulation Factor = 1.00 Reference Value = 100.5 V/m; Power Drift = 0.000 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Grid	Grid	Grid		
96.4	102.9	98.9		
Grid	Grid	Grid		
95.6	105.0	100.9		
Grid	Grid	Grid		

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW				
Author Data	Dates	Report No	FCC ID		
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW		





RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry V	Page 74(111)		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W

Date/Time: 18/07/2006 11:46:29 AM

Test Laboratory: RTS

HAC_E_Field_CDMA800_T_coil center_high_chan_batt2

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

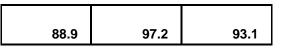
E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 107.7 V/m

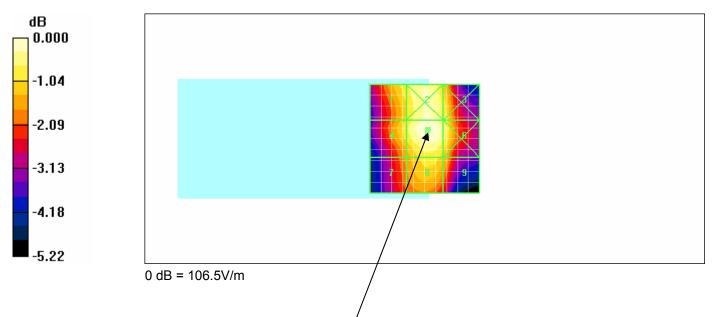
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 100.8 V/m; Power Drift = 0.171 dB Maximum value of Total (measured) = 106.3 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 106.5 V/m Probe Modulation Factor = 1.00 Reference Value = 100.8 V/m; Power Drift = 0.171 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Grid	Grid	Grid			
98.1	103.9	99.1			
Grid	Grid	Grid			
97.5	106.5	101.3			
Grid	Grid	Grid			

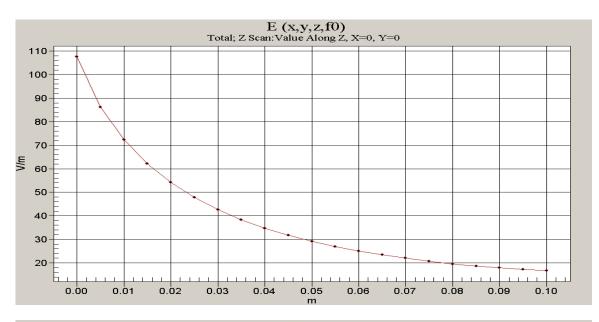
RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW				
Author Data	Dates	Report No	FCC ID	•	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW		

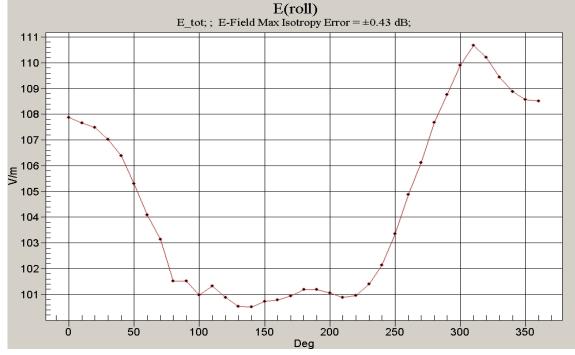




Location of probe rotation after applying exclusion blocks

RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry W	Page 76(111)		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W





E (delta) = (E max - E at zero degress) * PMF = (110.7 - 107.9) * 1.03 = 2.8 * 1.03 = 2.88 V/m

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW					
Author Data	Dates	Report No	FCC ID			
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W		

Date/Time: 18/07/2006 11:58:18 AM

Test Laboratory: RTS

HAC_E_Field_CDMA800_T_coil center_high_chan_batt3

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

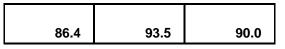
E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 100.7 V/m

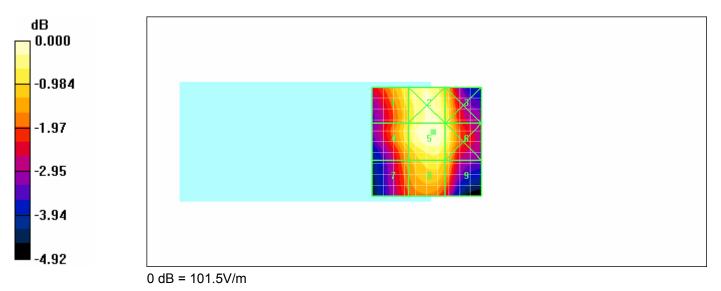
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 98.0 V/m; Power Drift = 0.112 dB Maximum value of Total (measured) = 101.0 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 101.5 V/m Probe Modulation Factor = 1.00 Reference Value = 98.0 V/m; Power Drift = 0.112 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Grid	Grid	Grid			
94.9	99.6	95.1			
Grid	Grid	Grid			
94.1	101.5	97.0			
Grid	Grid	Grid			

RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW	





RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW					
Author Data	Dates	Report No	FCC ID			
Daoud Attayi	July 13-19, 31, 2006 RTS-0373-0607-14 L6ARBF20CW					

Date/Time: 18/07/2006 12:16:14 PM

Test Laboratory: RTS

HAC_E_Field_CDMA800_T_coil center_high_chan_batt2_one_eigth_gating.da4

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz;Duty Cycle: 1:8 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 43.5 V/m

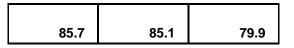
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 45.2 V/m; Power Drift = -0.193 dB

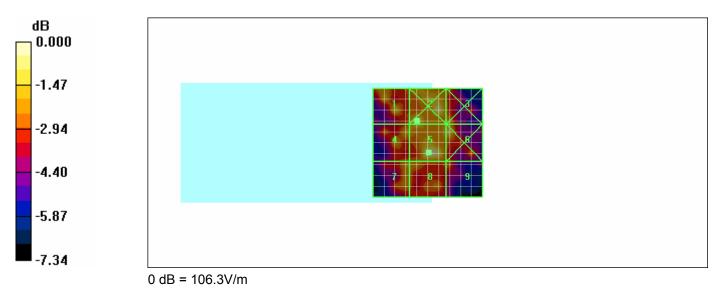
Maximum value of Total (measured) = 52.1 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 105.6 V/m Probe Modulation Factor = 2.04 Reference Value = 45.2 V/m; Power Drift = -0.193 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Grid	Grid	Grid			
93.7	106.3	87.7			
Grid	Grid	Grid			
87.2	105.6	96.1			
Grid	Grid	Grid			

RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW				
Author Data	Dates	Report No	FCC ID		
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW		





RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW					
Author Data	Dates	Report No	FCC ID			
Daoud Attayi	July 13-19, 31, 2006					

Date/Time: 31/07/2006 11:00:06 AM

Test Laboratory: RTS

HAC_E_Field_CDMA800_T_coil center_high_chan_batt2_one_eigth_gating_RC1_SO3

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz;Duty Cycle: 1:8 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

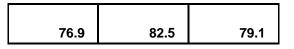
E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 69.1 V/m

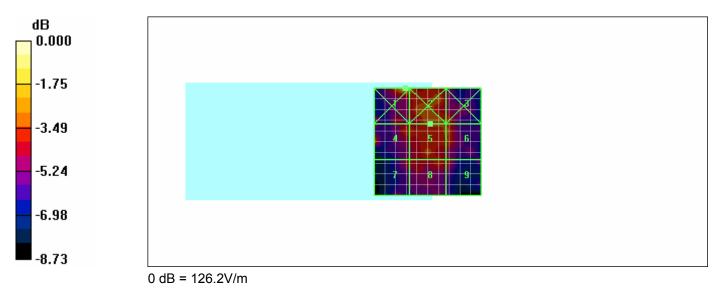
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 39.2 V/m; Power Drift = -0.046 dB Maximum value of Total (measured) = 61.7 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 99.5 V/m Probe Modulation Factor = 2.04 Reference Value = 39.2 V/m; Power Drift = -0.046 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m				
Grid	Grid	Grid		
126.2	113.2	85.3		
Grid	Grid	Grid		
99.5	87.9	86.3		
Grid	Grid	Grid		

RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 82(111)
Author Data	Dates Report No FCC ID			
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W





RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		Page 83(111)	
Author Data	Dates Report No FCC ID			
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20	CW

Date/Time: 19/07/2006 9:37:11 AM

Test Laboratory: RTS

HAC_H_Field_CDMA800_Spk center_low_chan

DUT: BlackBerry Wireless Handheld Model; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 824.7 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 0.175 A/m

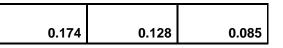
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.099 A/m; Power Drift = -0.107 dB Maximum value of Total (measured) = 0.174 A/m

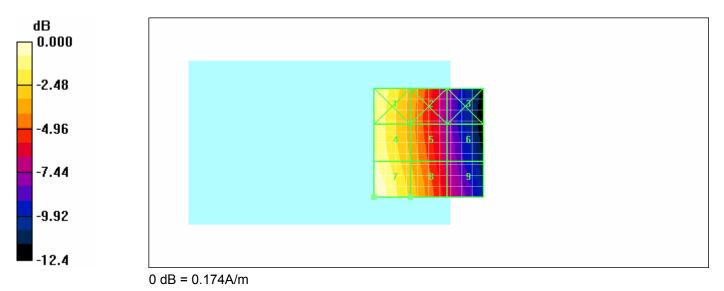
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.174 A/m Probe Modulation Factor = 1.00 Reference Value = 0.099 A/m; Power Drift = -0.107 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

FEAKII				
Grid	Grid	Grid		
0.164	0.118	0.073		
Grid	Grid	Grid		
0.162	0.120	0.077		
Grid	Grid	Grid		

Peak	H-field	in A/m
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RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 84(111)
Author Data	Dates Report No FCC ID			
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W





RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 85(111)
Author Data	Dates Report No FCC ID			
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 19/07/2006 9:56:10 AM

Test Laboratory: RTS

HAC_H_Field_CDMA800_Spk center_mid_chan

DUT: BlackBerry Wireless Handheld Model; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 0.190 A/m

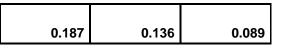
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.104 A/m; Power Drift = 0.147 dB Maximum value of Total (measured) = 0.187 A/m

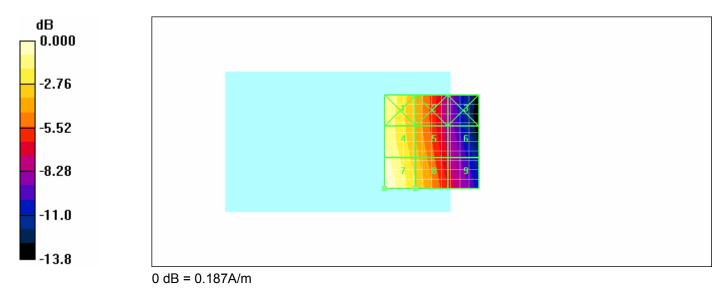
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.187 A/m Probe Modulation Factor = 1.00 Reference Value = 0.104 A/m; Power Drift = 0.147 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Feakii				
Grid	Grid	Grid		
0.172	0.123	0.073		
Grid	Grid	Grid		
0.176	0.128	0.081		
Grid	Grid	Grid		

Peak H-field	in	A/m
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RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 86(111)
Author Data	Dates Report No FCC ID			
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W





RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		Page 87(111)	
Author Data	Dates Report No FCC ID			
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 19/07/2006 10:05:20 AM

Test Laboratory: RTS

HAC_H_Field_CDMA800_Spk center_high_chan

DUT: BlackBerry Wireless Handheld Model; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 0.211 A/m

H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.118 A/m; Power Drift = 0.059 dB Maximum value of Total (measured) = 0.209 A/m

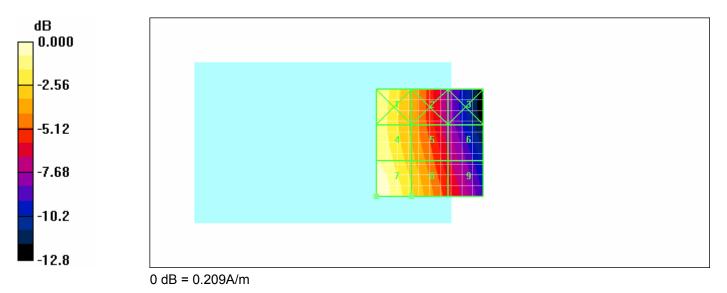
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.209 A/m Probe Modulation Factor = 1.00 Reference Value = 0.118 A/m; Power Drift = 0.059 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Grid	Grid	Grid	
0.188	0.139	0.087	
Grid	Grid	Grid	
0.192	0.147	0.099	
Grid	Grid	Grid	

Peak H-field	in	A/m
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RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 88(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW	





RTS RIM Testing Services				Page 89(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 19/07/2006 10:28:00 AM

Test Laboratory: RTS

HAC_H_Field_CDMA800_Spk center_high_chan batt2

DUT: BlackBerry Wireless Handheld Model; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 0.211 A/m

H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.119 A/m; Power Drift = -0.001 dB

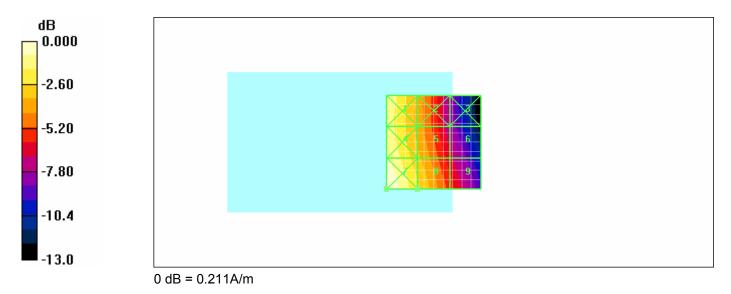
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.211 A/m Probe Modulation Factor = 1.00 Reference Value = 0.119 A/m; Power Drift = -0.001 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.189	0.139	0.087
Grid	Grid	Grid
0.195	0.146	0.099

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 90(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW	

Grid	Grid	Grid
0.211	0.160	0.112



RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 91(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW

Date/Time: 19/07/2006 10:39:26 AM

Test Laboratory: RTS

HAC_H_Field_CDMA800_Spk center_high_chan batt3

DUT: BlackBerry Wireless Handheld Model; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Dipole Section

DASY4 Configuration:

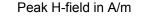
- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 0.203 A/m

H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.116 A/m; Power Drift = 0.035 dB Maximum value of Total (measured) = 0.204 A/m

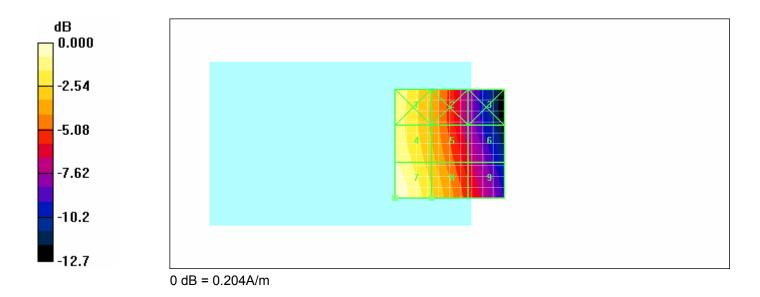
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.204 A/m Probe Modulation Factor = 1.00 Reference Value = 0.116 A/m; Power Drift = 0.035 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)



Grid	Grid	Grid
------	------	------

RTS RIM Testing Services				Page 92(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	W

Grid	Grid	Grid
0.190	0.144	0.097
Grid	Grid	Grid



RTS RIM Testing Services	Report for BlackBerry Wireless Handheld Model RBF20CW			Page 93(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 19/07/2006 10:52:30 AM

Test Laboratory: RTS

HAC_H_Field_CDMA800_Spk center_high_chan batt2_1_8th_rate

DUT: BlackBerry Wireless Handheld Model; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz;Duty Cycle: 1:8 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 0.075 A/m

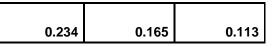
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.046 A/m; Power Drift = -0.008 dB Maximum value of Total (measured) = 0.099 A/m

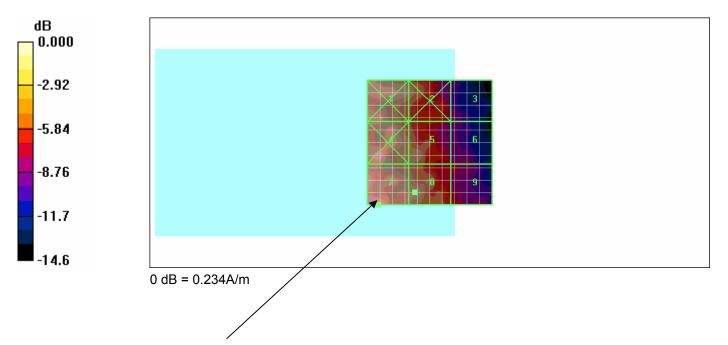
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.234 A/m Probe Modulation Factor = 2.35 Reference Value = 0.046 A/m; Power Drift = -0.008 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Grid	Grid			
0.148	0.092			
Grid	Grid			
0.150	0.097			
Grid	Grid			
	Grid 0.148 Grid 0.150			

Peak	H-field	in A/m
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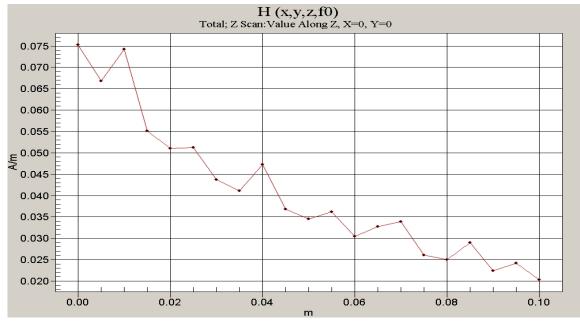
RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 94(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW



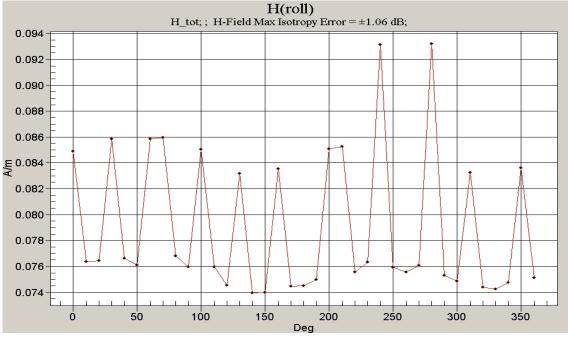


Location of the probe rotation after applying exclusion blocks

RTS RIM Testing Services				Page 95(111)
Author Data Daoud Attayi	Dates July 13-19, 31, 2006	Report No RTS-0373-0607-14	FCC ID L6ARBF20	CW







H (delta) = (H max - H at zero degress) * PMF = (0.093 - 0.085) * 2.35 = 0.008 * 2.35 = 0.02

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF200	CW

Date/Time: 19/07/2006 11:30:58 AM

Test Laboratory: RTS

HAC_H_Field_CDMA800_Spk center_high_chan batt2_RC1_SO3

DUT: BlackBerry Wireless Handheld Model; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz;Duty Cycle: 1:8 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 0.079 A/m

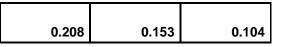
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.046 A/m; Power Drift = 0.112 dB Maximum value of Total (measured) = 0.088 A/m

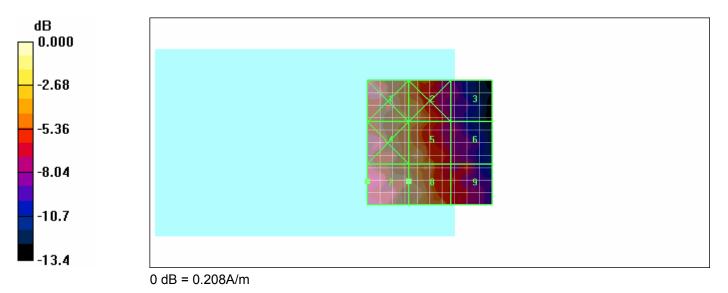
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.208 A/m Probe Modulation Factor = 2.35 Reference Value = 0.046 A/m; Power Drift = 0.112 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Grid	Grid			
0.137	0.084			
Grid	Grid			
0.140	0.095			
Grid	Grid			
	Grid 0.137 Grid 0.140			

Peak H-field i	in A/m	l
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RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 97(111)
Author Data	Dates	Report No	FCC ID	NA/
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	LOARDFZUU	, VV





RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 98(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 19/07/2006 8:35:23 AM

Test Laboratory: RTS

HAC_E_Field_CDMA1900_Spk center_low_chan

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 49.5 V/m

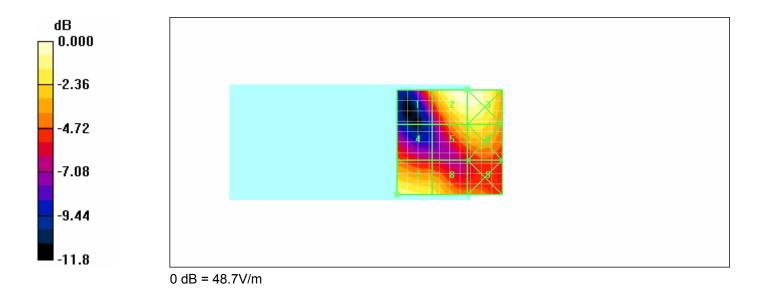
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 25.3 V/m; Power Drift = -0.033 dB

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 48.7 V/m Probe Modulation Factor = 0.980 Reference Value = 25.3 V/m; Power Drift = -0.033 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m				
Grid	Grid	Grid		
33.5	48.7	48.7		
33.5 Grid	48.7 Grid	48.7 Grid		

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 99(111)
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20CW	





RTS RIM Testing Services	Annex A to Hearing Aid Report for BlackBerry W	Page 100(111)		
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 19/07/2006 8:43:58 AM

Test Laboratory: RTS

HAC_E_Field_CDMA1900_Spk center_mid_chan

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

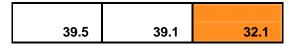
E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 49.6 V/m

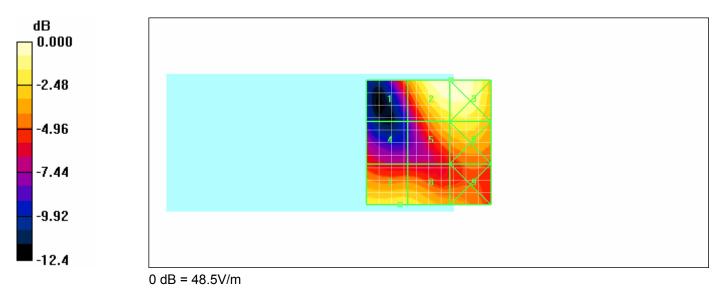
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 24.8 V/m; Power Drift = -0.070 dB Maximum value of Total (measured) = 49.4 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 48.5 V/m Probe Modulation Factor = 0.980 Reference Value = 24.8 V/m; Power Drift = -0.070 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m				
Grid	Grid	Grid		
30.9	48.5	48.5		
Grid	Grid	Grid		
25.7	37.2	38.8		
Grid	Grid	Grid		

RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		Page 101(111)	
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W





RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		Page 102(111)	
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 19/07/2006 8:52:51 AM

Test Laboratory: RTS

HAC_E_Field_CDMA1900_Spk center_high_chan

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1908.5 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 38.0 V/m

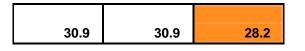
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00

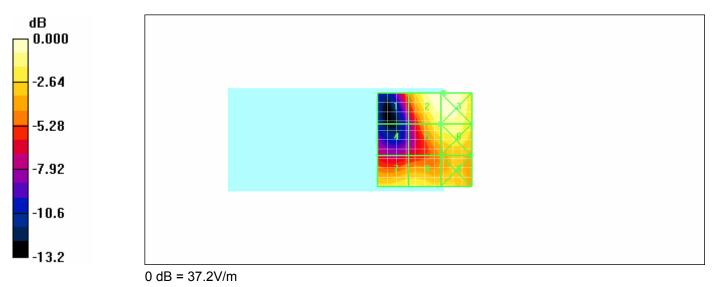
Reference Value = 21.6 V/m; Power Drift = -0.127 dB Maximum value of Total (measured) = 37.9 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 37.1 V/m Probe Modulation Factor = 0.980 Reference Value = 21.6 V/m; Power Drift = -0.127 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m				
Grid	Grid	Grid		
22.9	37.1	37.2		
Grid	Grid	Grid		
17.3	31.1	32.6		
Grid	Grid	Grid		

RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		Page 103(111)	
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W





RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		Page 104(111)	
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 19/07/2006 9:06:01 AM

Test Laboratory: RTS

HAC_E_Field_CDMA1900_T_coil center_low_chan

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1000 kg/m³ Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 47.5 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 23.8 V/m; Power Drift = -0.089 dB

Maximum value of Total (measured) = 47.3 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 41.9 V/m Probe Modulation Factor = 1.00 Reference Value = 23.8 V/m; Power Drift = -0.089 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m				
Grid	Grid	Grid		
42.5	47.3	43.5		
Grid	Grid	Grid		
27.0	36.8	36.2		
Grid	Grid	Grid		

RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW			Page 105(111)
Author Data Daoud Attayi	Dates July 13-19, 31, 2006	Report No RTS-0373-0607-14	FCC ID L6ARBF20C	W

41.9	34.6	28.7

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid

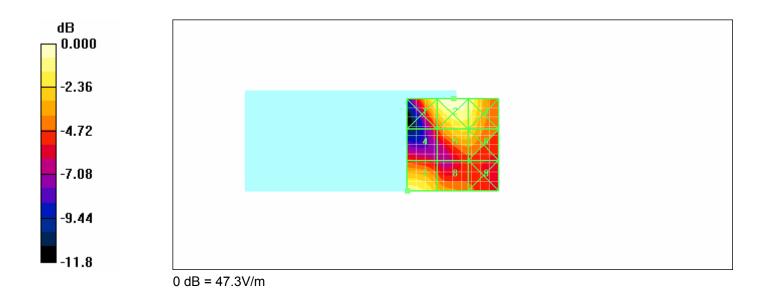
Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 46.3 V/m

Probe Modulation Factor = 0.980

Reference Value = 23.8 V/m; Power Drift = -0.089 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m				
Grid	Grid	Grid		
41.7	46.3	42.6		
Grid	Grid	Grid		
26.5	36.1	35.5		
Grid	Grid	Grid		



RTS RIM Testing Services	Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry Wireless Handheld Model RBF20CW		Page 106(111)	
Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 31/07/2006 11:25:49 AM

Test Laboratory: RTS

HAC_H_Field_CDMA1900_Spk center_low_chan

DUT: BlackBerry Wireless Handheld Model; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 0.134 A/m

H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.123 A/m; Power Drift = -0.008 dB Maximum value of Total (measured) = 0.136 A/m

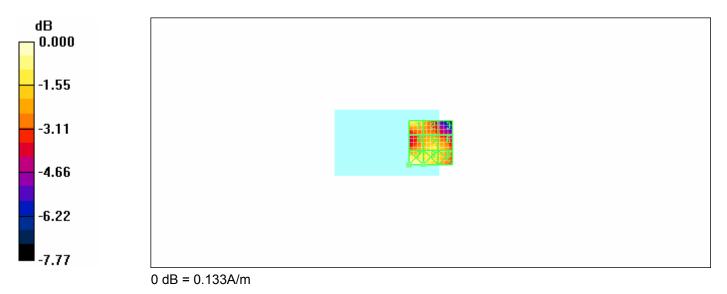
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.122 A/m Probe Modulation Factor = 0.980 Reference Value = 0.123 A/m; Power Drift = -0.008 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Grid	Grid	Grid		
0.122	0.109	0.093		
Grid	Grid	Grid		
0.108	0.114	0.110		
Grid	Grid	Grid		

Peak H-field in A/m

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0.133	0.117	0.110



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Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 19/07/2006 3:32:58 PM

Test Laboratory: RTS

HAC_H_Field_CDMA1900_Spk center_low_chan_1_8th_RC1_SO2

DUT: BlackBerry Wireless Handheld Model; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz;Duty Cycle: 1:8 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 0.049 A/m

H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.046 A/m; Power Drift = -0.029 dB Maximum value of Total (measured) = 0.055 A/m

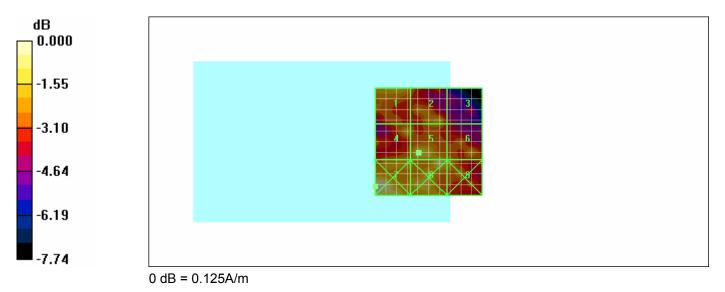
H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.117 A/m Probe Modulation Factor = 2.26 Reference Value = 0.046 A/m; Power Drift = -0.029 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Grid	Grid	Grid		
0.115	0.104	0.083		
Grid	Grid	Grid		
0.104	0.117	0.102		
Grid	Grid	Grid		

Peak H-field in A/m

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Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W





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Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W

Date/Time: 19/07/2006 1:38:06 PM

Test Laboratory: RTS

HAC_H_Field_CDMA1900_Spk center_mid_chan

DUT: BlackBerry Wireless Handheld Model; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: σ = 0 mho/m, ϵ_r = 1; ρ = 1 kg/m³ Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 SN6105; ; Calibrated: 11/11/2005
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

H Scan - H3DV6 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (measured) = 0.142 A/m

H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00 Reference Value = 0.118 A/m; Power Drift = -0.006 dB Maximum value of Total (measured) = 0.143 A/m

H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.116 A/m Probe Modulation Factor = 0.980 Reference Value = 0.118 A/m; Power Drift = -0.006 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-lieid in A/m				
Grid	Grid	Grid		
0.116	0.098	0.088		
Grid	Grid	Grid		
0.106	0.111	0.105		
Grid	Grid	Grid		

Peak H-field in A/m

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Author Data	Dates	Report No	FCC ID	
Daoud Attayi	July 13-19, 31, 2006	RTS-0373-0607-14	L6ARBF20C	W



