RTS	Appendix for the BlackBerry ® Smartphone Model RCE21CW SAR Report			Page 1(7)
RIM Testing Services				
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	Nov 27 - Dec 02, 2008	RTS-1364-0812-03	L6ARCE	20CW

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

RTS RIM Testing Services	Appendix for the Black SAR Report	Berry ® Smartphone Model R	CE21CW	Page 2(7)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	Nov 27 - Dec 02, 2008	RTS-1364-0812-03	L6ARCE	20CW

Date/Time: 01/12/2008 1:22:38 PM

Test Laboratory: RTS

File Name: DipoleValidation 835MHz Amb Tem 23.8 Lig Tem 22.4C.da4

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446 Program Name: System Performance Check at 835 MHz

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

Medium parameters used: f = 835 MHz; $\sigma = 0.866$ mho/m; $\varepsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 110.4 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 12.9 W/kg

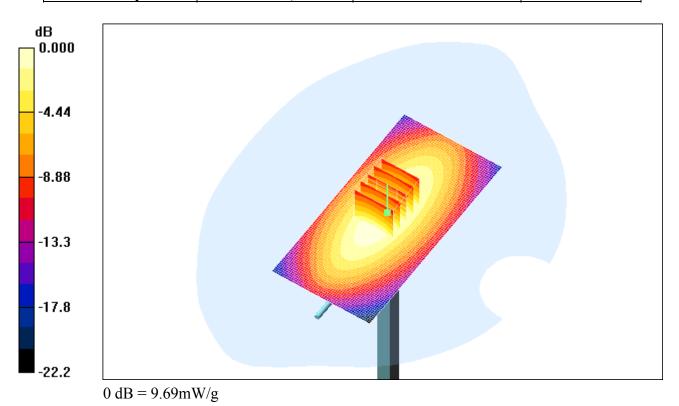
SAR(1 g) = 8.96 mW/g; SAR(10 g) = 5.9 mW/g

Maximum value of SAR (measured) = 9.72 mW/g

d=15mm, Pin=1000mW/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 9.69 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry ® Smartphone Model RC	CE21CW	Page 3(7)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	Nov 27 - Dec 02, 2008	RTS-1364-0812-03	L6ARCE2	20CW



RTS RIM Testing Services	Appendix for the BlackBo SAR Report	erry ® Smartphone Model RC	E21CW	Page 4(7)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	Nov 27 - Dec 02, 2008	RTS-1364-0812-03	L6ARCE20CW	

Date/Time: 27/11/2008 10:37:32 AM

Test Laboratory: RTS

File Name: DipoleValidation 1900MHz Amb Tem 22.3 Liq Tem 22.0 C.da4

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545 Program Name: System Performance Check at 1900 MHz

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.4 \text{ mho/m}$; $\varepsilon_r = 38$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 193.2 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 69.2 W/kg

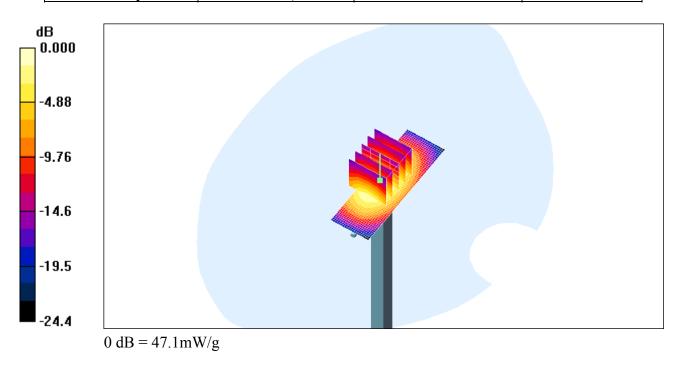
SAR(1 g) = 40.5 mW/g; SAR(10 g) = 21.2 mW/g

Maximum value of SAR (measured) = 46.2 mW/g

d=15mm, Pin=1000mW/Area Scan (21x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 47.1 mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	Nov 27 - Dec 02, 2008	RTS-1364-0812-03	L6ARCE2	20CW



RTS RIM Testing Services	Appendix for the BlackBo SAR Report	erry ® Smartphone Model RC	E21CW	Page 6(7)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	Nov 27 - Dec 02, 2008	RTS-1364-0812-03	L6ARCE20CW	

Date/Time: 01/12/2008 10:26:07 AM

Test Laboratory: RTS

File Name: DipoleValidation 1900MHz Amb Tem 23.7 Liq Tem 23.0 C.da4

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545 Program Name: System Performance Check at 1900 MHz

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.39 \text{ mho/m}$; $\varepsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 195.4 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 68.6 W/kg

SAR(1 g) = 40.5 mW/g; SAR(10 g) = 21.3 mW/g

Maximum value of SAR (measured) = 45.8 mW/g

d=15mm, Pin=1000mW/Area Scan (21x61x1): Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 46.9 mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	Nov 27 - Dec 02, 2008	RTS-1364-0812-03	L6ARCE2	20CW

