APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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RIM Testing Services™	**Appendix A for the BlackBerry® Smartphone Model RCV71UW SAR Report**	**2(11)**

Author Data	Dates of Test	Test Report No	FCC ID:
Andrew Becker	**January 21 – March 3, 2010**	**RTS-2474-1002-39**	**L6ARCV70UW**

Date/Time: 1/21/2010 7:58:25 PM

Test Laboratory: RIM TESTING SERVICES
File Name:
DipoleValidation_835MHz_Amb_Tem_24.1_Liq_Tem_21.7_C_01_21_10.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; σ = 0.874 mho/m; ε_r = 42.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1644; ConvF(6.08, 6.08, 6.08); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/3/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 110.7 V/m; Power Drift = -0.010 dB
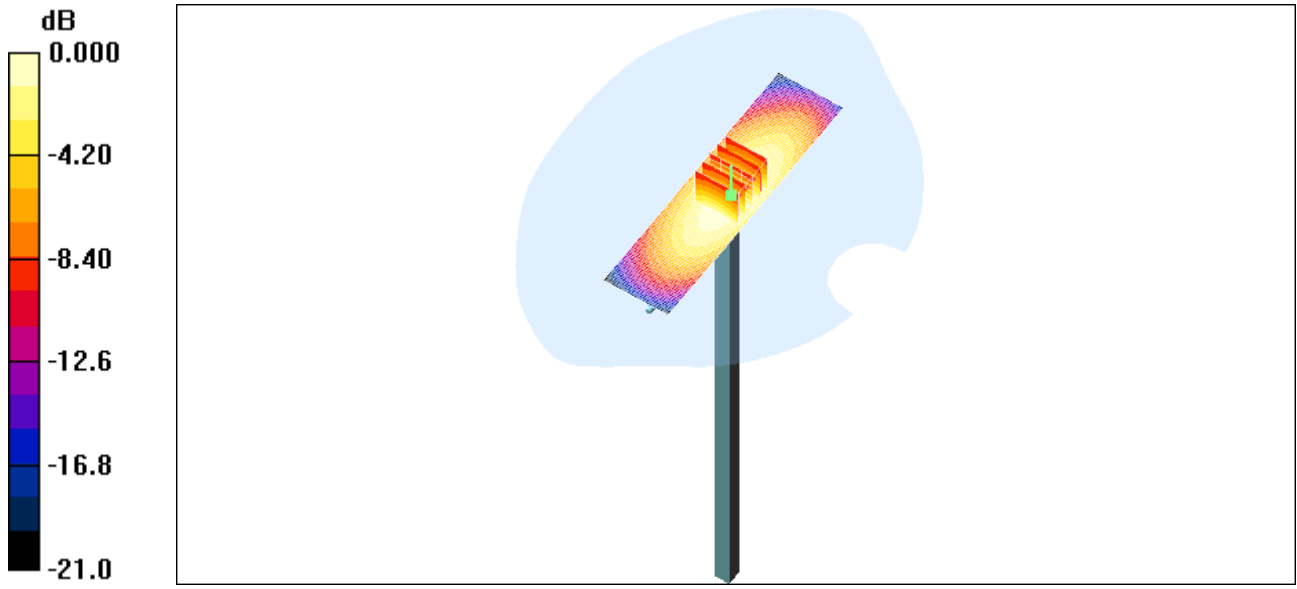Peak SAR (extrapolated) = 13.5 W/kg
SAR(1 g) = 9.34 mW/g; SAR(10 g) = 6.16 mW/g
Maximum value of SAR (measured) = 10.1 mW/g

d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 10.1 mW/g

0 dB = 10.1mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:
Andrew Becker	**January 21 – March 3, 2010**	**RTS-2474-1002-39**	**L6ARCV70UW**

Date/Time: 08/02/2010 6:15:47 PM

Test Laboratory: RIM TESTING SERVICES
File Name:
DipoleValidation_835MHz_Amb_Tem_22.2_Liq_Tem_21.3_C_02_08_10.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; $\sigma = 0.867$ mho/m; $\varepsilon_r = 39.5$; $\rho = 1000$ kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1644; ConvF(6.08, 6.08, 6.08); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 112.9 V/m; Power Drift = 0.020 dB
Peak SAR (extrapolated) = 13.9 W/kg
SAR(1 g) = 9.57 mW/g; SAR(10 g) = 6.3 mW/g
Maximum value of SAR (measured) = 10.3 mW/g

d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: dx=15mm, dy=15mm
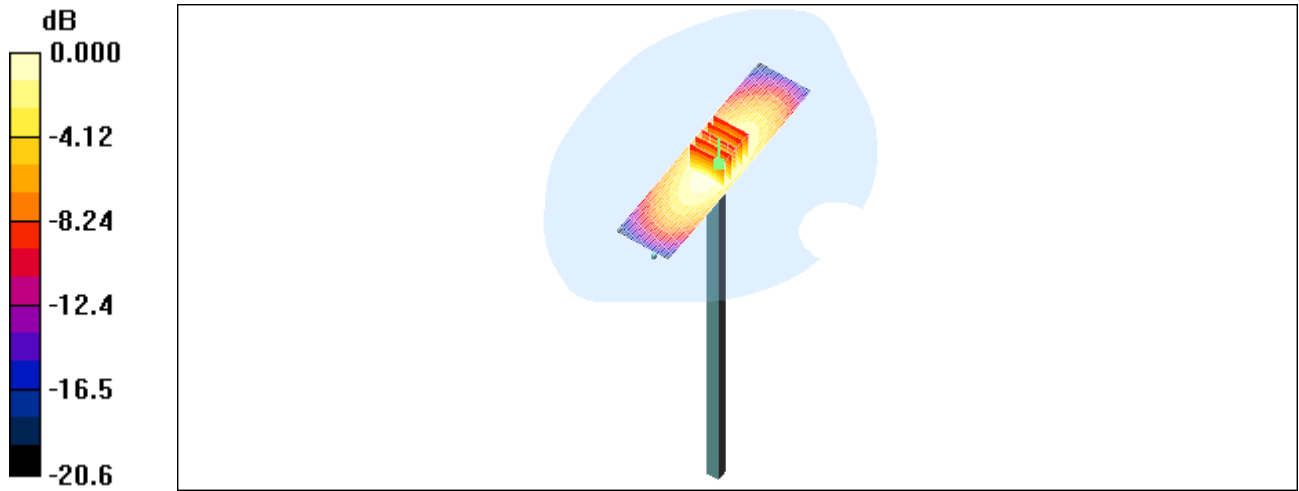Maximum value of SAR (interpolated) = 10.3 mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:
Andrew Becker	**January 21 – March 3, 2010**	**RTS-2474-1002-39**	**L6ARCV70UW**

0 dB = 10.3mW/g

Date/Time: 16/02/2010 2:25:40 PM

Test Laboratory: RIM TESTING SERVICES

DipoleValidation_835MHz_Amb_Tem_22.5_Liq_Tem_20.4C_02_16_10

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.874 mho/m; ε_r = 40.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(6.08, 6.08, 6.08); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement
grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 112.8 V/m; Power Drift = 0.047 dB
Peak SAR (extrapolated) = 14.2 W/kg
SAR(1 g) = 9.82 mW/g; SAR(10 g) = 6.47 mW/g
Maximum value of SAR (measured) = 10.6 mW/g

d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: dx=15mm,
dy=15mm
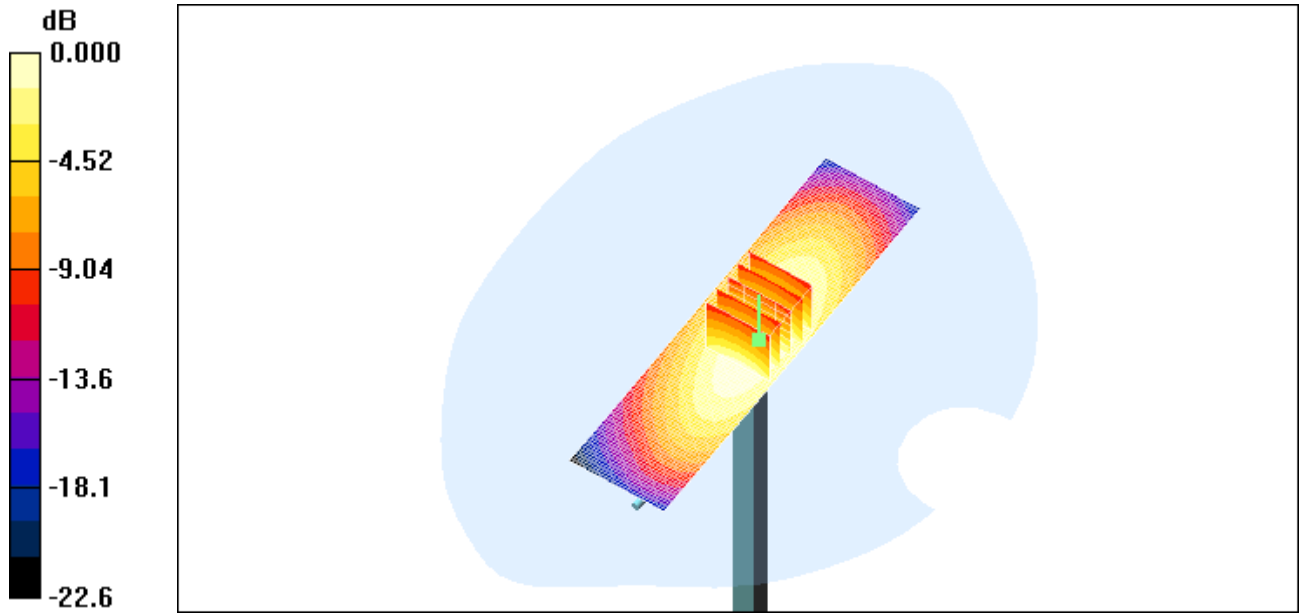Maximum value of SAR (interpolated) = 10.6 mW/g

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RIM Testing Services™	**Appendix A for the BlackBerry® Smartphone Model RCV71UW SAR Report**	**7(11)**

Author Data	Dates of Test	Test Report No	FCC ID:
Andrew Becker	**January 21 – March 3, 2010**	**RTS-2474-1002-39**	**L6ARCV70UW**

0 dB = 10.6mW/g

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RIM Testing Services™	Appendix A for the BlackBerry® Smartphone Model RCV71UW SAR Report	**8(11)**

Author Data	Dates of Test	Test Report No	FCC ID:
Andrew Becker	**January 21 – March 3, 2010**	**RTS-2474-1002-39**	**L6ARCV70UW**

Date/Time: 11/02/2010 7:03:04 PM

Test Laboratory: RIM TESTING SERVICES
File Name:
DipoleValidation_1900MHz_Amb_Tem_23.0_Liq_Tem_21.6_C_02_11_10.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; σ = 1.44 mho/m; ε_r = 40.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1644; ConvF(5.17, 5.17, 5.17); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement
grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 179.5 V/m; Power Drift = 0.049 dB
Peak SAR (extrapolated) = 67.8 W/kg
SAR(1 g) = 38.4 mW/g; SAR(10 g) = 20.1 mW/g
Maximum value of SAR (measured) = 43.1 mW/g

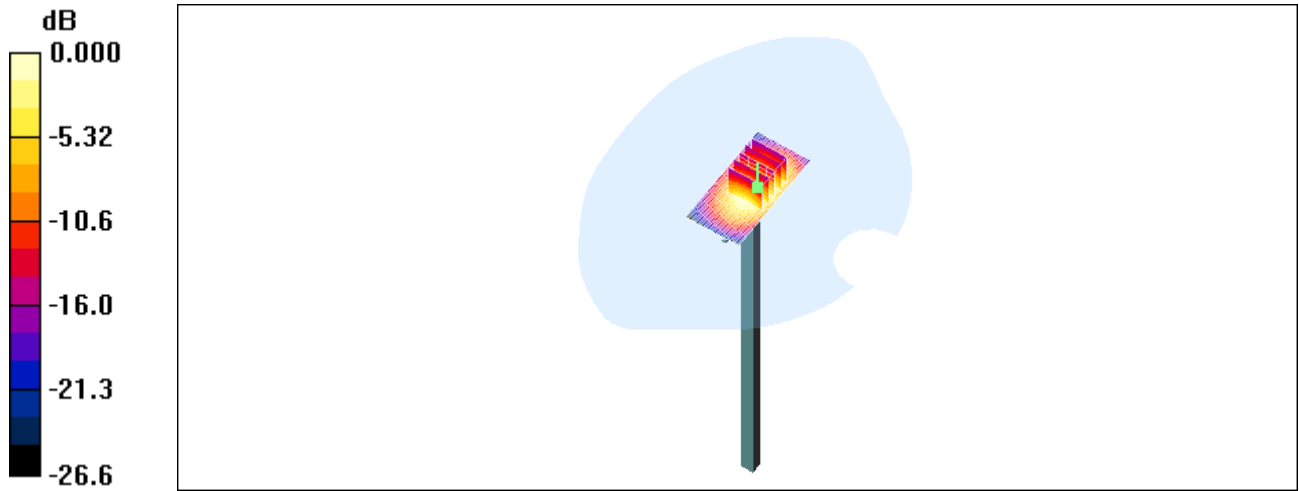**d=10mm, Pin=1000mW/Area Scan (31x61x1):** Measurement grid: dx=15mm,
dy=15mm
Maximum value of SAR (interpolated) = 44.8 mW/g

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RIM Testing Services™	Appendix A for the BlackBerry® Smartphone Model RCV71UW SAR Report	**9(11)**

Author Data	Dates of Test	Test Report No	FCC ID:
Andrew Becker	**January 21 – March 3, 2010**	**RTS-2474-1002-39**	**L6ARCV70UW**

0 dB = 44.8mW/g

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RIM Testing Services™	**Appendix A for the BlackBerry® Smartphone Model RCV71UW SAR Report**	**10(11)**

Author Data	Dates of Test	Test Report No	FCC ID:
Andrew Becker	**January 21 – March 3, 2010**	**RTS-2474-1002-39**	**L6ARCV70UW**

Date/Time: 2/24/2010 1:32:23 AM

Test Laboratory: RIM TESTING SERVICES
File Name:
DipoleValidation_1900MHz_Amb_Tem_23.4_Liq_Tem_21.4_C_02_24_10.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; $\sigma = 1.44$ mho/m; $\varepsilon_r = 38.7$; $\rho = 1000$ kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(5.17, 5.17, 5.17); Calibrated: 3/10/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/3/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement
grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 180.2 V/m; Power Drift = 0.051 dB
Peak SAR (extrapolated) = 65.1 W/kg
SAR(1 g) = 38.1 mW/g; SAR(10 g) = 20 mW/g
Maximum value of SAR (measured) = 43.1 mW/g

d=10mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm,
dy=15mm
Maximum value of SAR (interpolated) = 43.3 mW/g

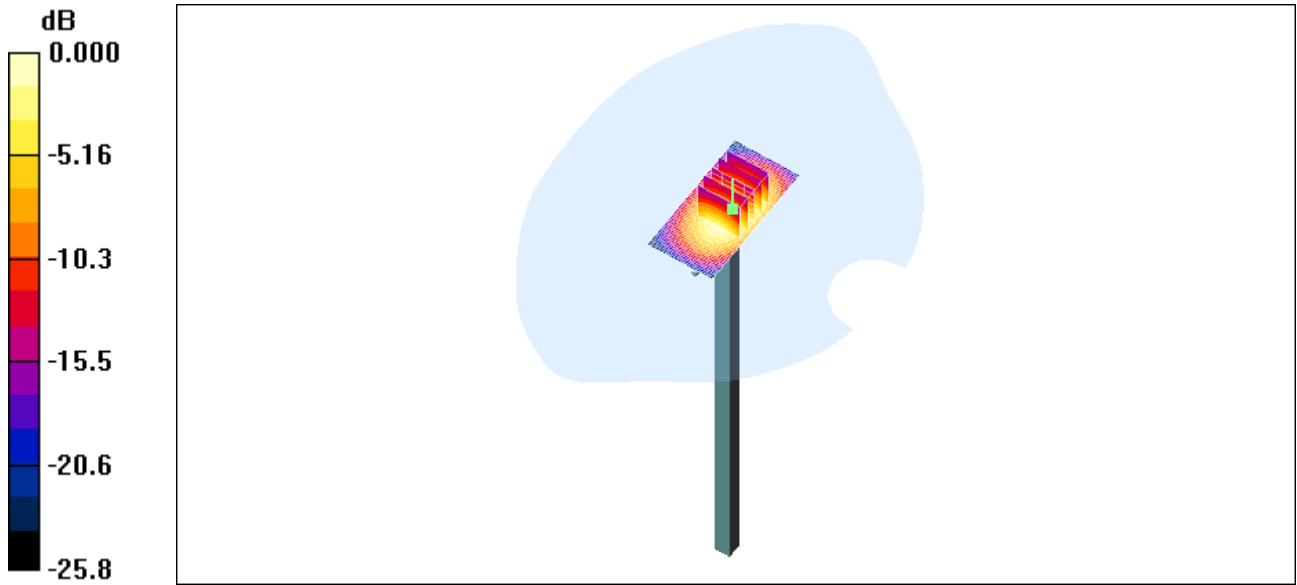|	Document	Page
RIM Testing Services™	**Appendix A for the BlackBerry® Smartphone Model RCV71UW SAR Report**	**11(11)**

Author Data	Dates of Test	Test Report No	FCC ID:
Andrew Becker	**January 21 – March 3, 2010**	**RTS-2474-1002-39**	**L6ARCV70UW**

0 dB = 43.3mW/g