
	Document <b>Appendix C for the BlackBerry® Smartphone Model RDM71UW/ REN71UW</b> <b>SAR Report</b>			Page <b>1(83)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

**APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION**

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Date/Time: 2/9/2011 4:56:04 PM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_back\_GPRS850\_low\_chan\_amb\_temp\_23.3C\_liq\_temp\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 850; Frequency: 824.2 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 1 \text{ mho/m}$ ;  $\epsilon_r = 53.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.662 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 24.8 V/m; Power Drift = -0.151 dB  
Peak SAR (extrapolated) = 0.769 W/kg  
**SAR(1 g) = 0.617 mW/g; SAR(10 g) = 0.458 mW/g**  
Maximum value of SAR (measured) = 0.644 mW/g

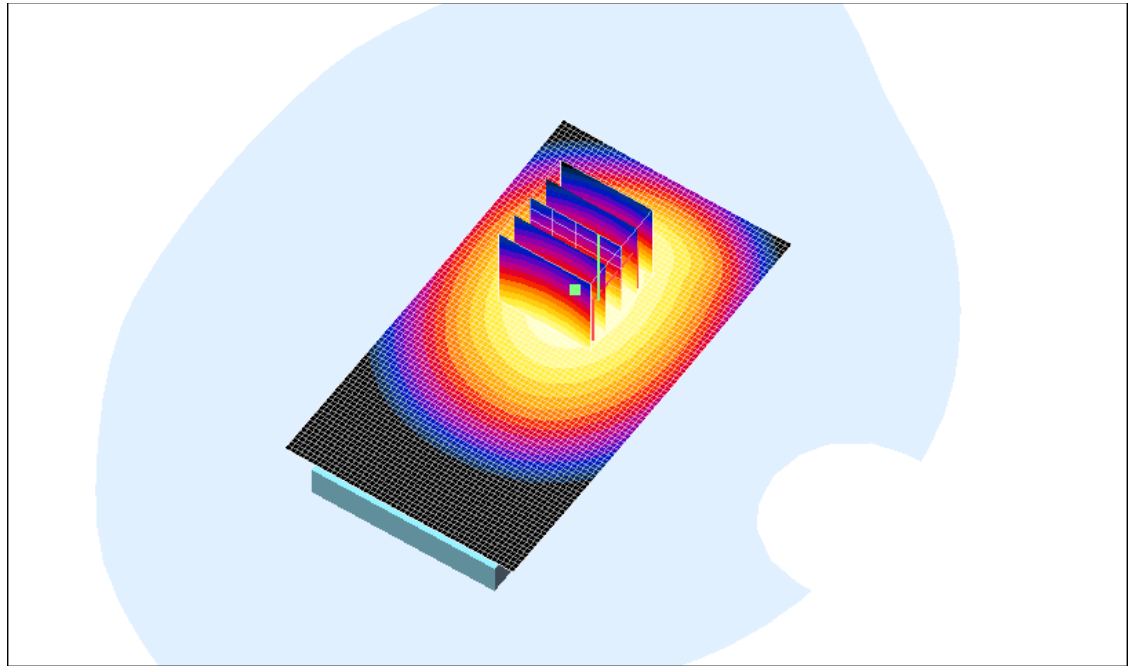
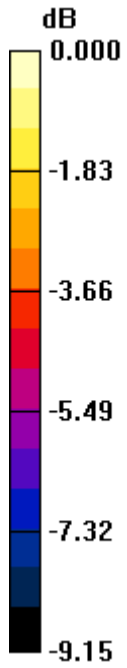
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.644mW/g

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Date/Time: 2/9/2011 4:41:45 PM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_back\_GPRS850\_mid\_chan\_amb\_temp\_23.3C\_liq\_temp\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.918 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.8 V/m; Power Drift = -0.177 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.832 mW/g; SAR(10 g) = 0.617 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.884 mW/g

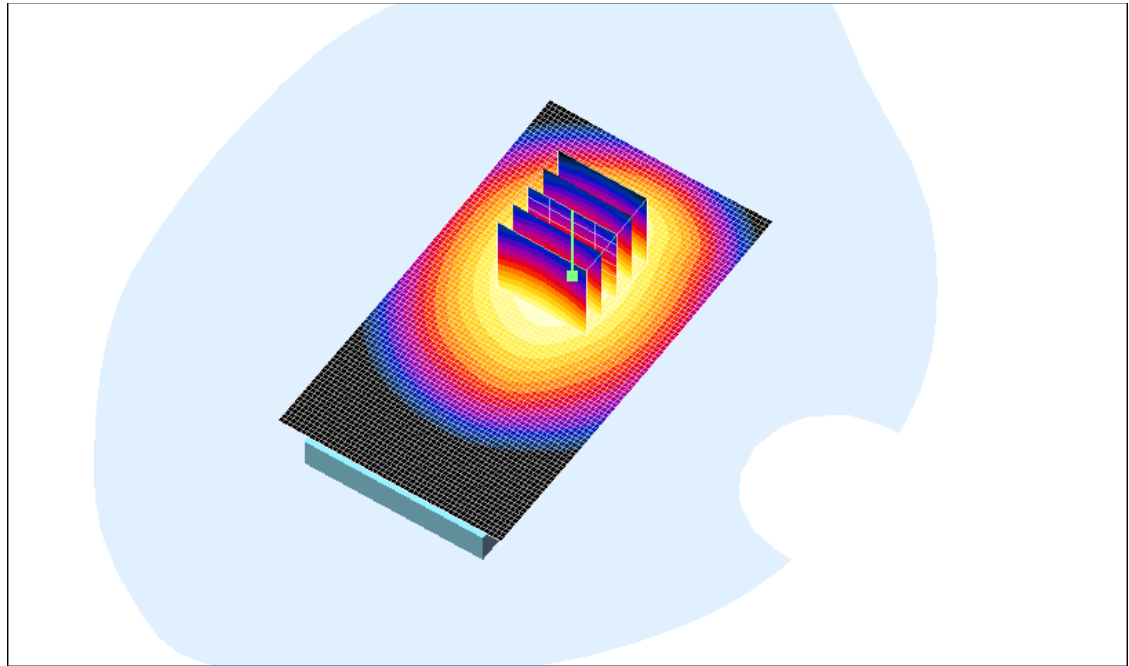
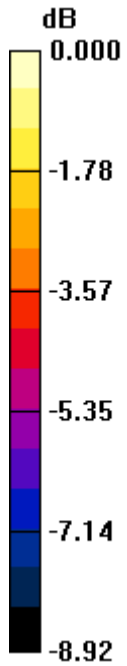
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
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0 dB = 0.884mW/g

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Date/Time: 2/9/2011 5:09:22 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_back\_GPRS850\_high\_chan\_amb\_temp\_23.3C\_liq\_temp  
\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8 \text{ MHz}$ ;  $\sigma = 1.02 \text{ mho/m}$ ;  $\epsilon_r = 53.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.806 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 27.0 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.963 W/kg

**SAR(1 g) = 0.759 mW/g; SAR(10 g) = 0.561 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.807 mW/g

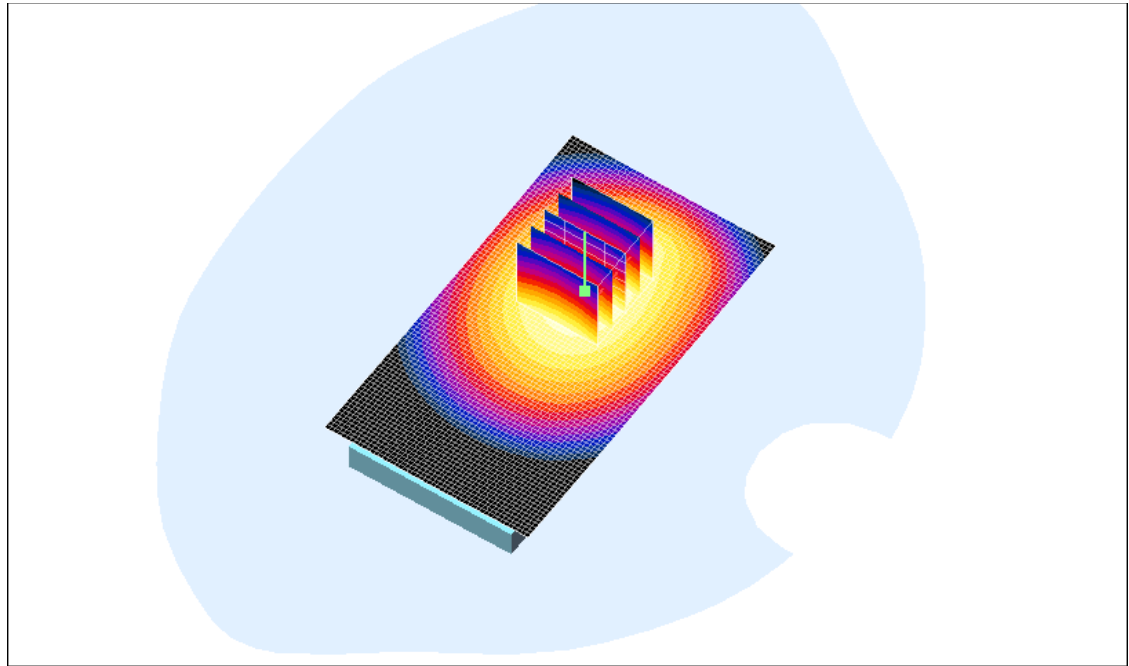
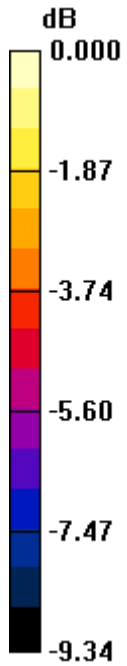
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
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0 dB = 0.807mW/g

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Date/Time: 2/9/2011 5:37:25 PM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_front\_GPRS850\_mid\_chan\_amb\_temp\_23.3C\_liq\_temp\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.391 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.2 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 0.471 W/kg

**SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.285 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.399 mW/g



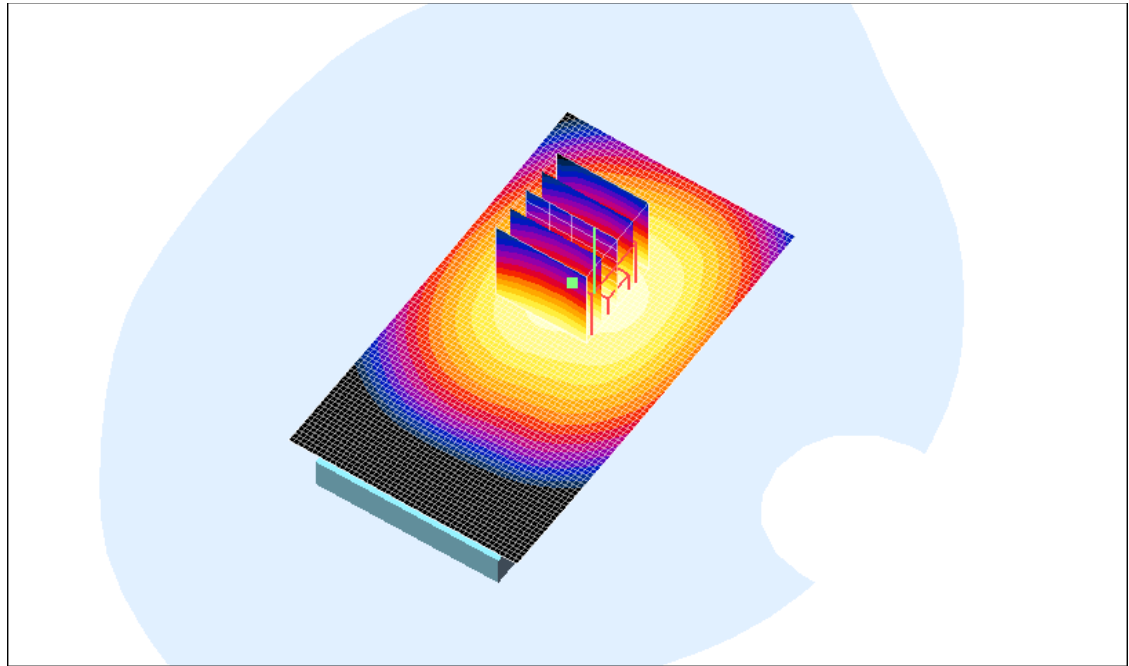
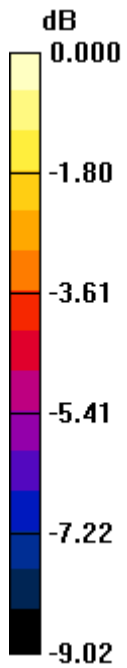
Author Data  
**Andrew Becker**

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Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
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0 dB = 0.399mW/g

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Date/Time: 2/9/2011 5:23:37 PM

Test Laboratory: RIM Testing Services

## Vertical\_Hoshter\_back\_GPRS850\_mid\_chan\_amb\_temp\_23.3C\_liq\_temp \_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.728 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 27.2 V/m; Power Drift = 0.044 dB

Peak SAR (extrapolated) = 0.842 W/kg

**SAR(1 g) = 0.683 mW/g; SAR(10 g) = 0.508 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.718 mW/g

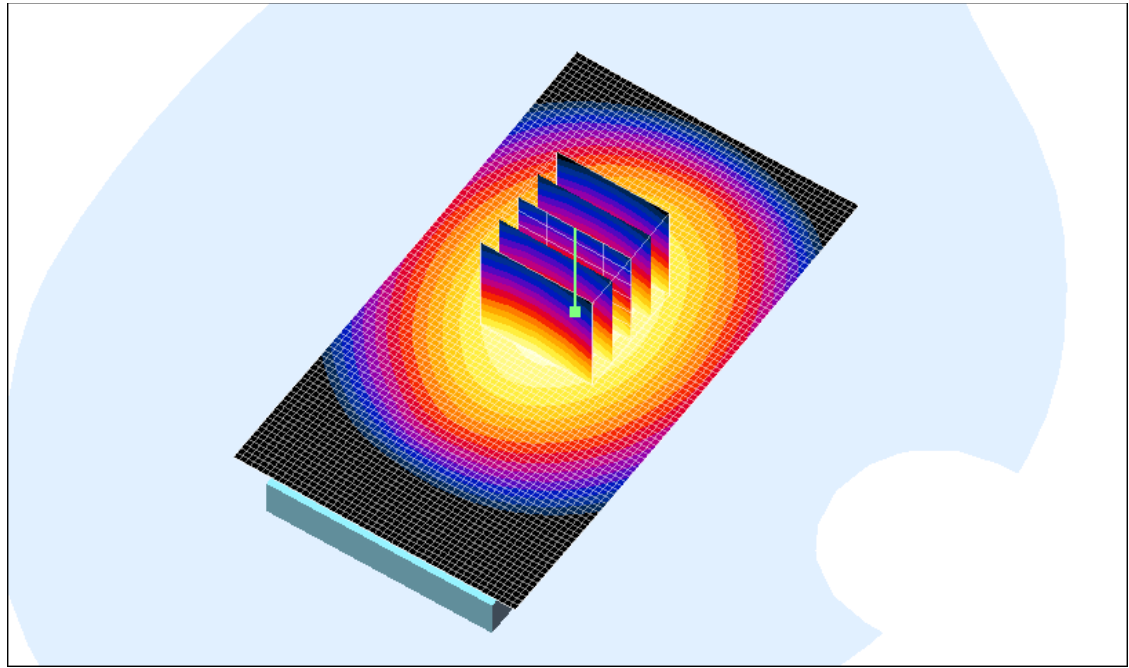
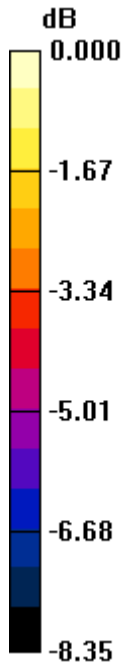
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
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0 dB = 0.718mW/g

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Date/Time: 2/9/2011 5:51:44 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_HS#1\_GPRS850\_mid\_chan\_amb\_temp\_23.3C\_liq  
\_temp\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.648 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.3 V/m; Power Drift = 0.076 dB

Peak SAR (extrapolated) = 0.797 W/kg

**SAR(1 g) = 0.622 mW/g; SAR(10 g) = 0.458 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.652 mW/g

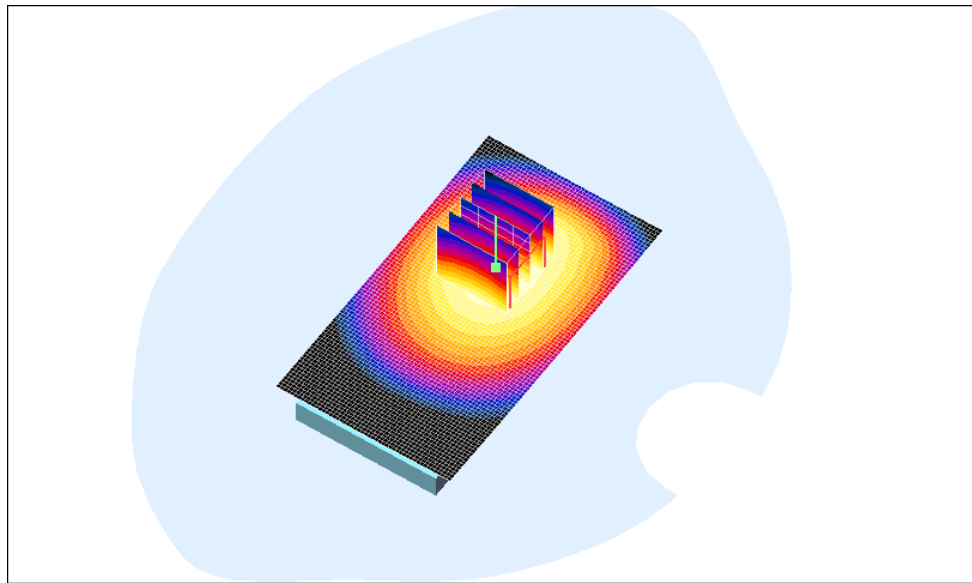
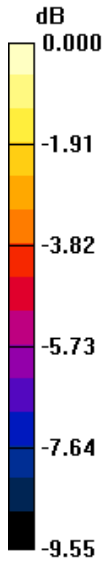
Author Data  
**Andrew Becker**

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FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
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0 dB = 0.652mW/g

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Date/Time: 2/9/2011 6:05:01 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_HS#2\_GPRS850\_mid\_chan\_amb\_temp\_23.2C\_liq  
\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.668 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.1 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.790 W/kg

**SAR(1 g) = 0.640 mW/g; SAR(10 g) = 0.477 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.675 mW/g

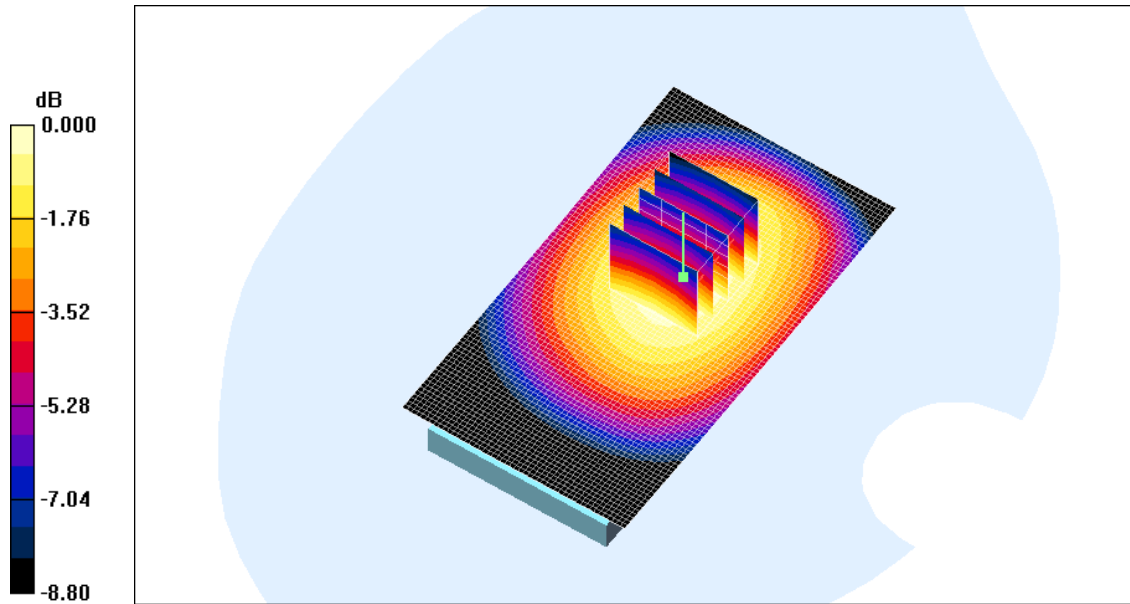
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
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0 dB = 0.675mW/g

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Date/Time: 2/9/2011 6:18:49 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_HS#3\_GPRS850\_mid\_chan\_amb\_temp\_23.2C\_liq  
\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.440 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.3 V/m; Power Drift = -0.221 dB

Peak SAR (extrapolated) = 0.504 W/kg

**SAR(1 g) = 0.404 mW/g; SAR(10 g) = 0.302 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.425 mW/g



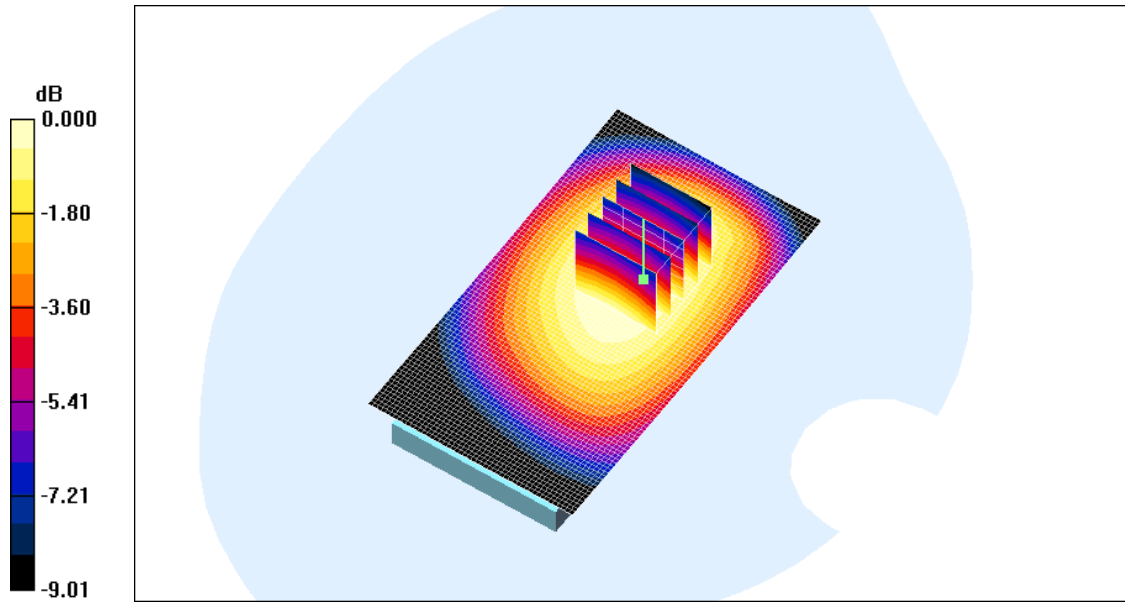
Author Data  
**Andrew Becker**

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**Jan 11 – July 04, 2011**


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**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
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0 dB = 0.425mW/g

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Date/Time: 2/9/2011 7:33:10 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_GPRS850\_3Slots\_mid\_chan\_amb\_temp\_23.2C\_li  
q\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 850 (3 slots); Frequency: 836.8 MHz; Duty Cycle: 1:2.8  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.767 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.7 V/m; Power Drift = -0.387 dB

Peak SAR (extrapolated) = 0.945 W/kg

**SAR(1 g) = 0.742 mW/g; SAR(10 g) = 0.549 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.782 mW/g

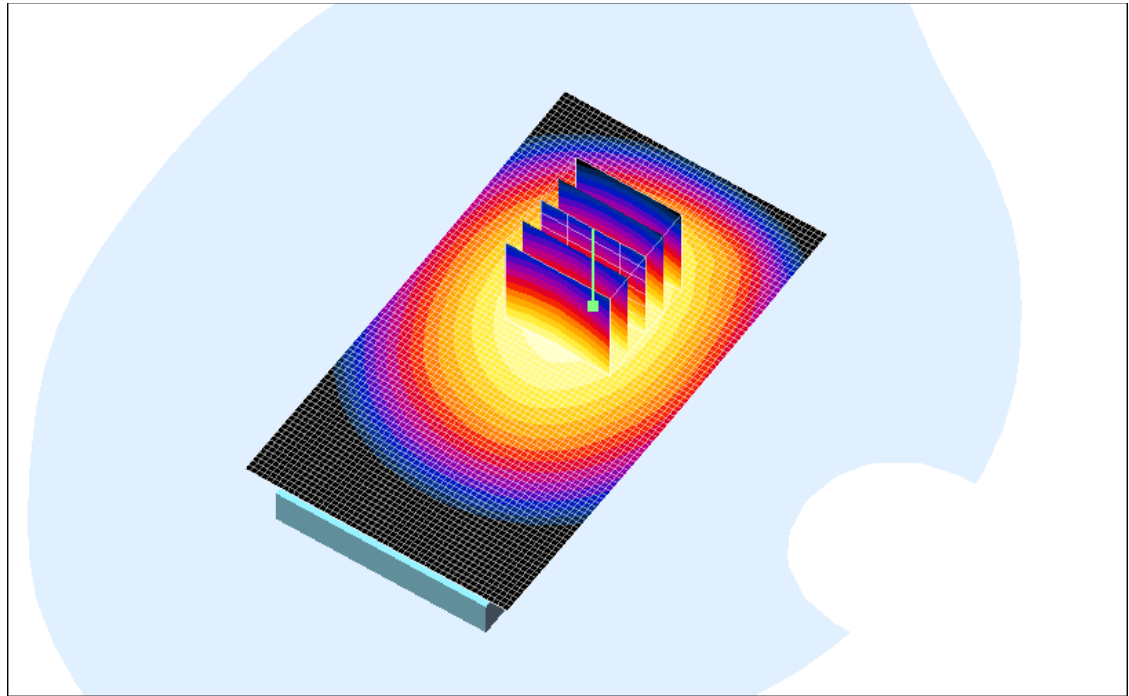
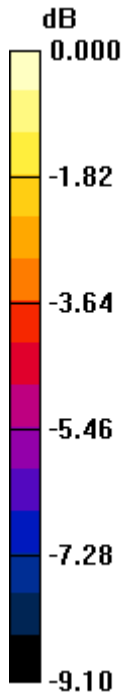
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.782mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

Date/Time: 2/9/2011 7:54:31 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_GPRS850\_4Slots\_mid\_chan\_amb\_temp\_23.1C\_li  
q\_temp\_21.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 850 (4 slots); Frequency: 836.8 MHz; Duty Cycle: 1:2.1  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.789 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.4 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.995 W/kg

**SAR(1 g) = 0.799 mW/g; SAR(10 g) = 0.593 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.838 mW/g

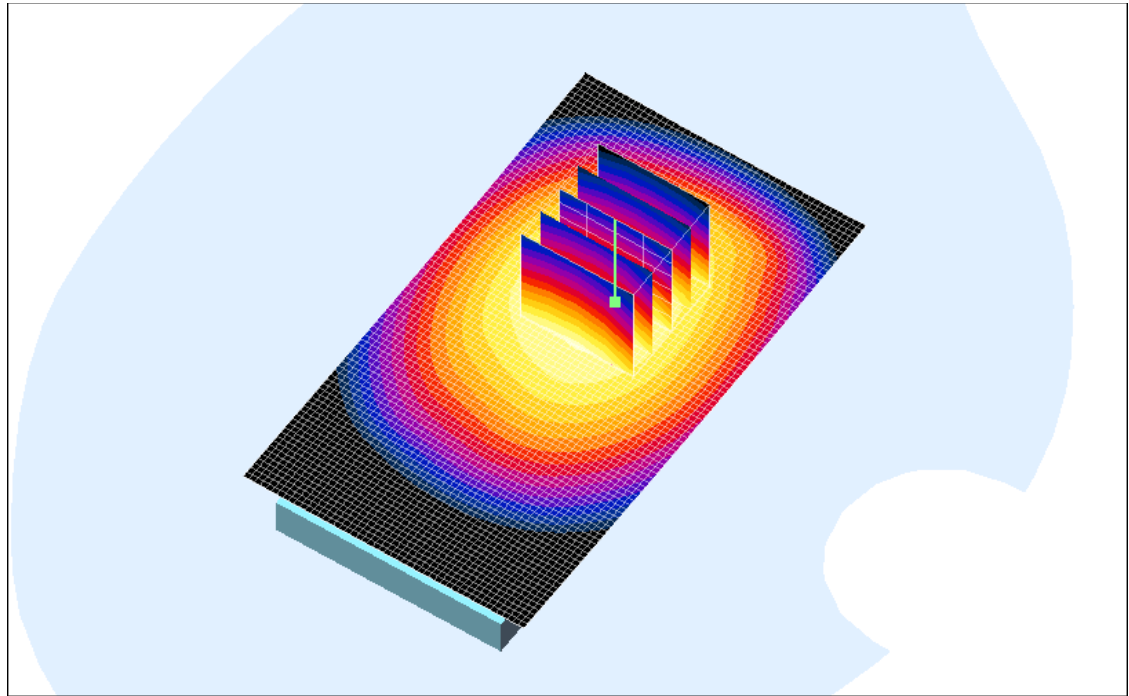
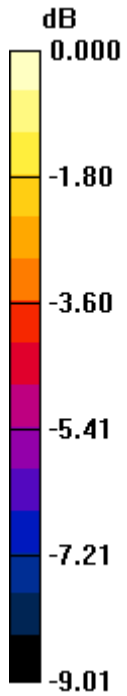
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.838mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

Date/Time: 2/9/2011 2:33:16 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_back\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_23.4C\_liq\_t  
emp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.653 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.9 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 0.761 W/kg

**SAR(1 g) = 0.606 mW/g; SAR(10 g) = 0.450 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.638 mW/g

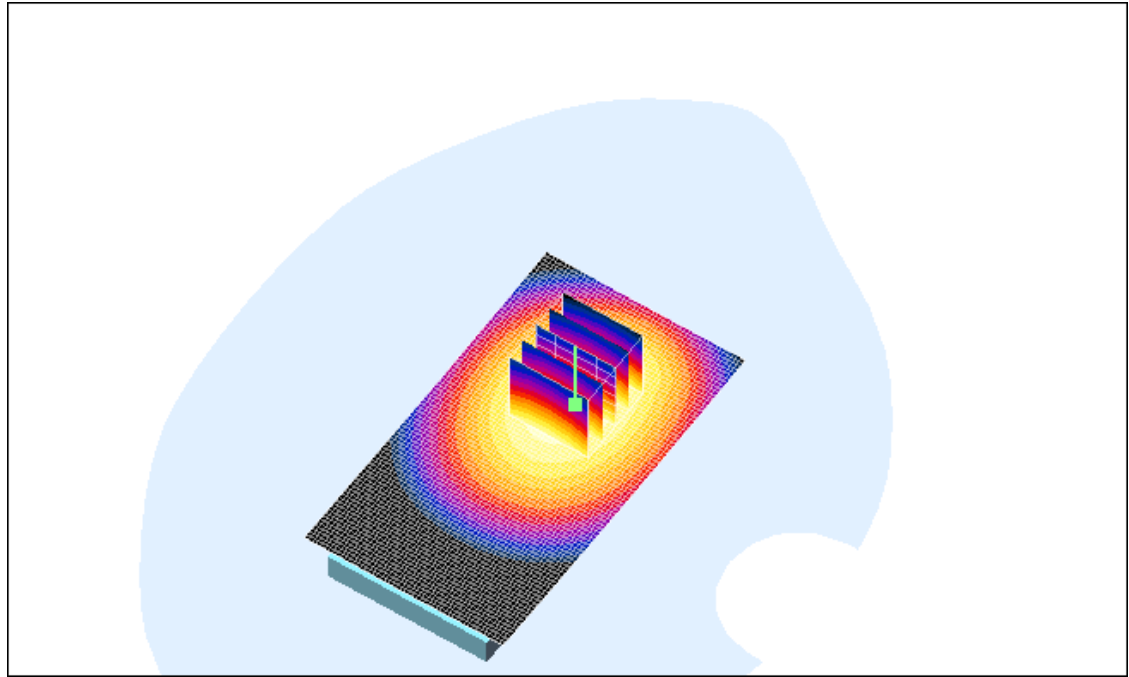
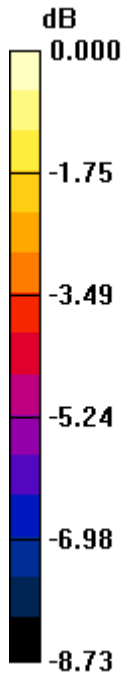
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.638mW/g

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Date/Time: 2/9/2011 3:26:51 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_front\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_23.3C\_liq\_t  
emp\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.290 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.6 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.340 W/kg

**SAR(1 g) = 0.278 mW/g; SAR(10 g) = 0.212 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.293 mW/g



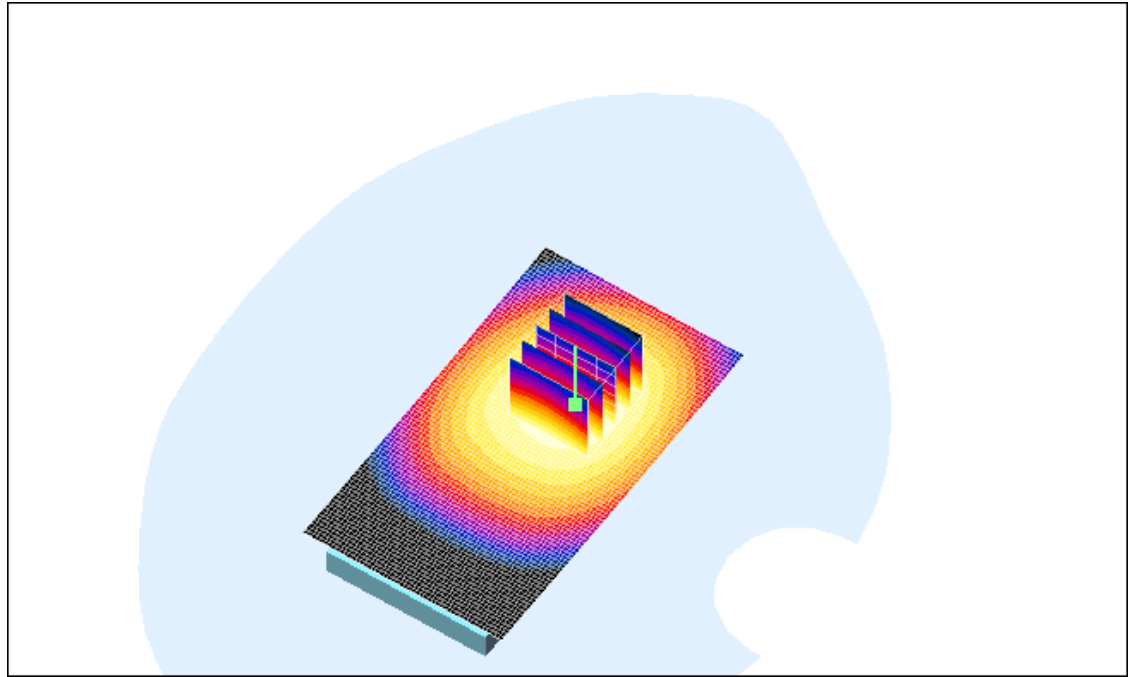
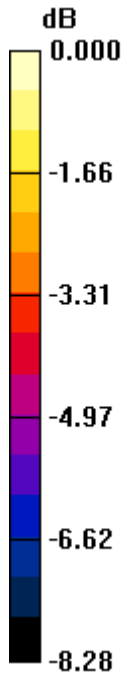
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.293mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

Date/Time: 2/9/2011 3:42:05 PM

Test Laboratory: RIM Testing Services

## Vertical

**Holster\_back\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_23.3C\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.834 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 29.5 V/m; Power Drift = -0.058 dB

Peak SAR (extrapolated) = 0.984 W/kg

**SAR(1 g) = 0.792 mW/g; SAR(10 g) = 0.590 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.837 mW/g

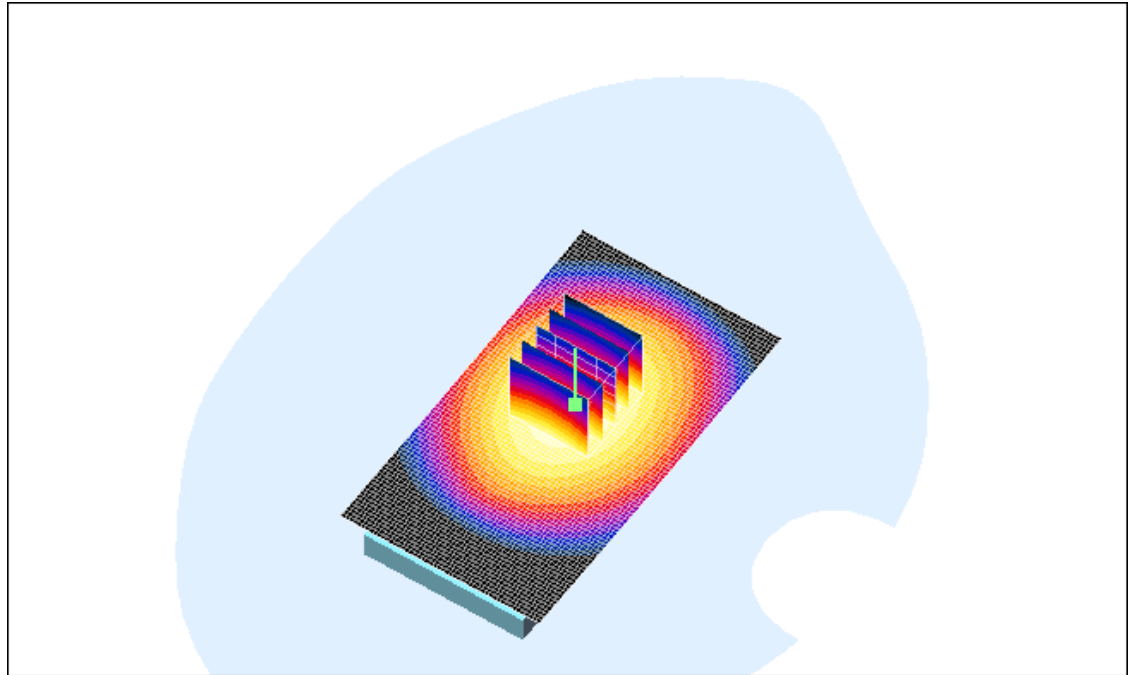
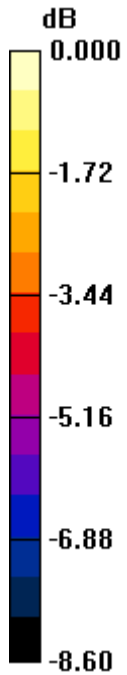
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.837mW/g

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Date/Time: 2/9/2011 2:52:16 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_HS#1\_back\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_23.5  
C\_liq\_temp\_22.3C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 19.7 V/m; Power Drift = 0.089 dB  
Peak SAR (extrapolated) = 0.564 W/kg  
**SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.330 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (measured) = 0.471 mW/g

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (interpolated) = 0.653 mW/g

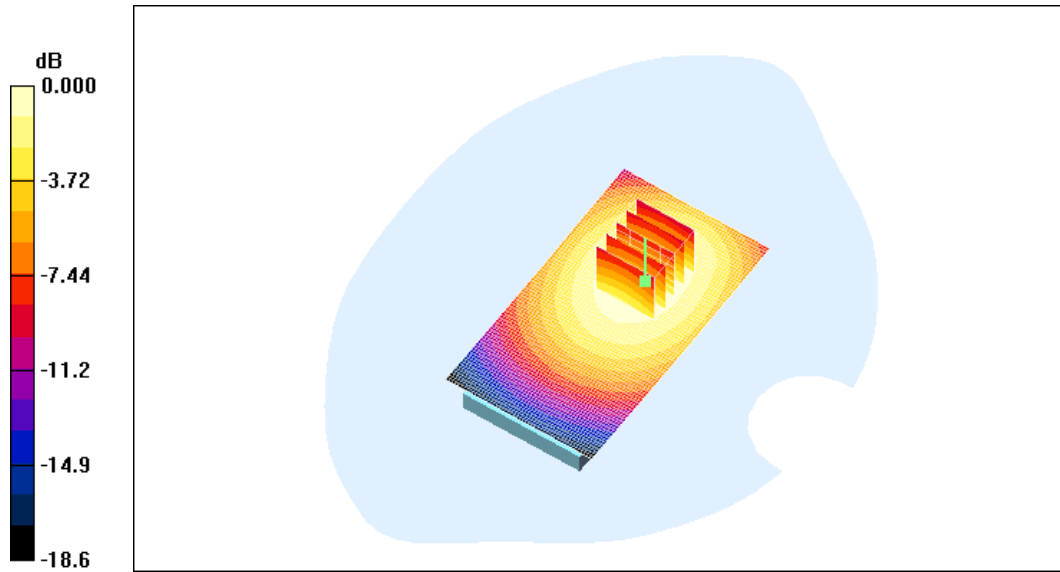
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.653mW/g

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Date/Time: 2/9/2011 3:01:02 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_HS#2\_back\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_23.5  
C\_liq\_temp\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.5 V/m; Power Drift = 0.087 dB

Peak SAR (extrapolated) = 0.540 W/kg

**SAR(1 g) = 0.426 mW/g; SAR(10 g) = 0.316 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.447 mW/g

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.653 mW/g

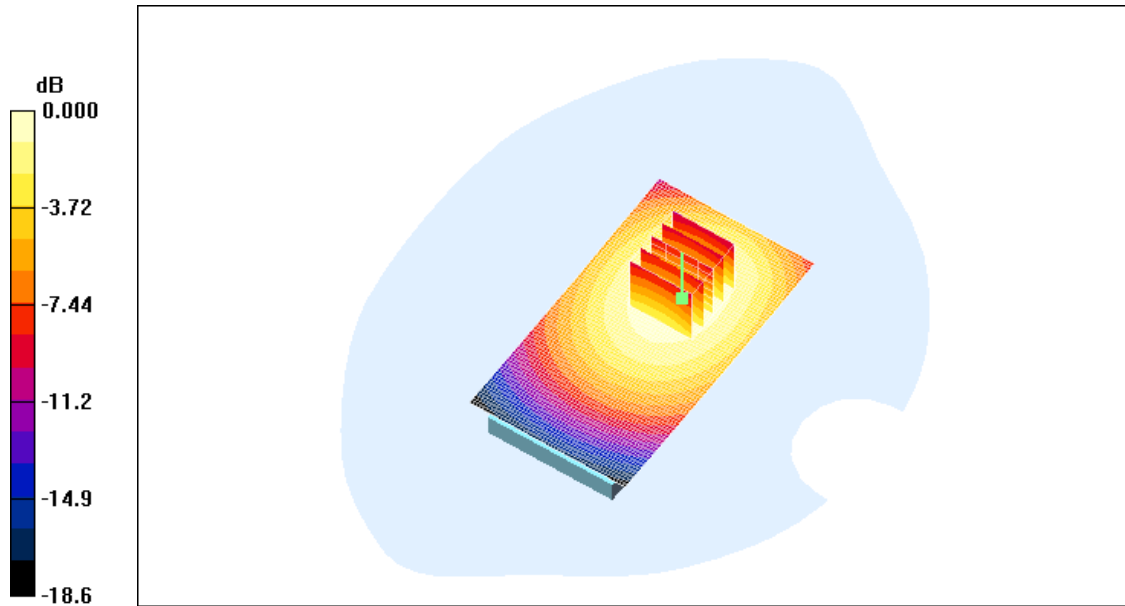
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.653mW/g

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Date/Time: 2/9/2011 3:17:31 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_HS#3\_back\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_23.5  
C\_liq\_temp\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.93, 5.93, 5.93); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.7 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 0.737 W/kg

**SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.438 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.623 mW/g

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.653 mW/g



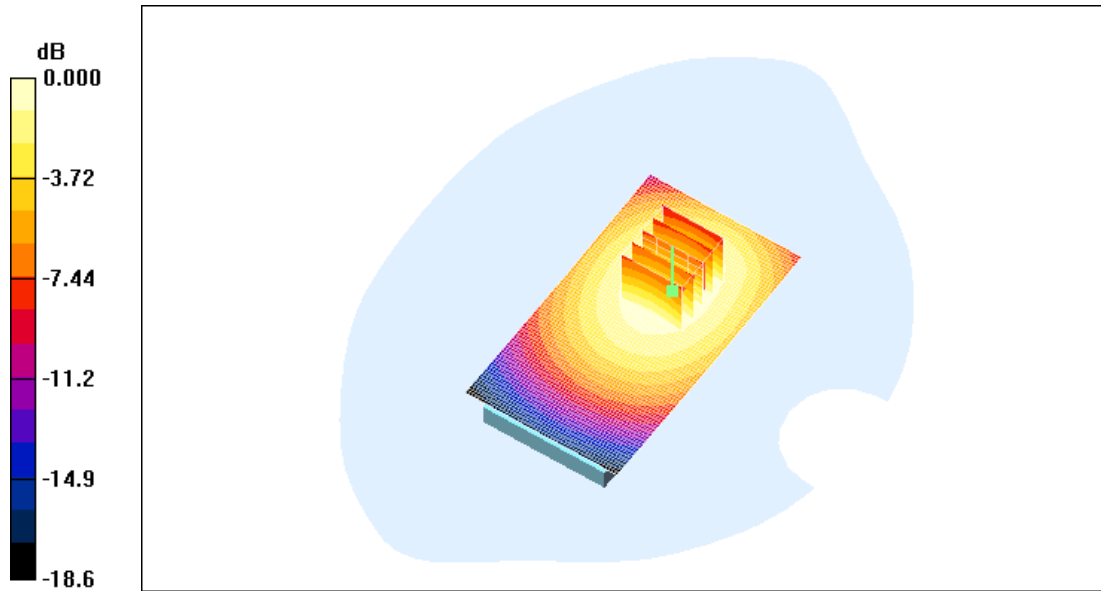
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.653mW/g

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Date/Time: 2/14/2011 9:12:02 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_GPRS1900\_mid\_chan\_amb\_temp\_23.3C\_liq\_tem  
p\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 50.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.58, 4.58, 4.58); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.385 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  
 $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.53 V/m; Power Drift = -0.205 dB

Peak SAR (extrapolated) = 0.482 W/kg

**SAR(1 g) = 0.344 mW/g; SAR(10 g) = 0.218 mW/g**

Maximum value of SAR (measured) = 0.372 mW/g

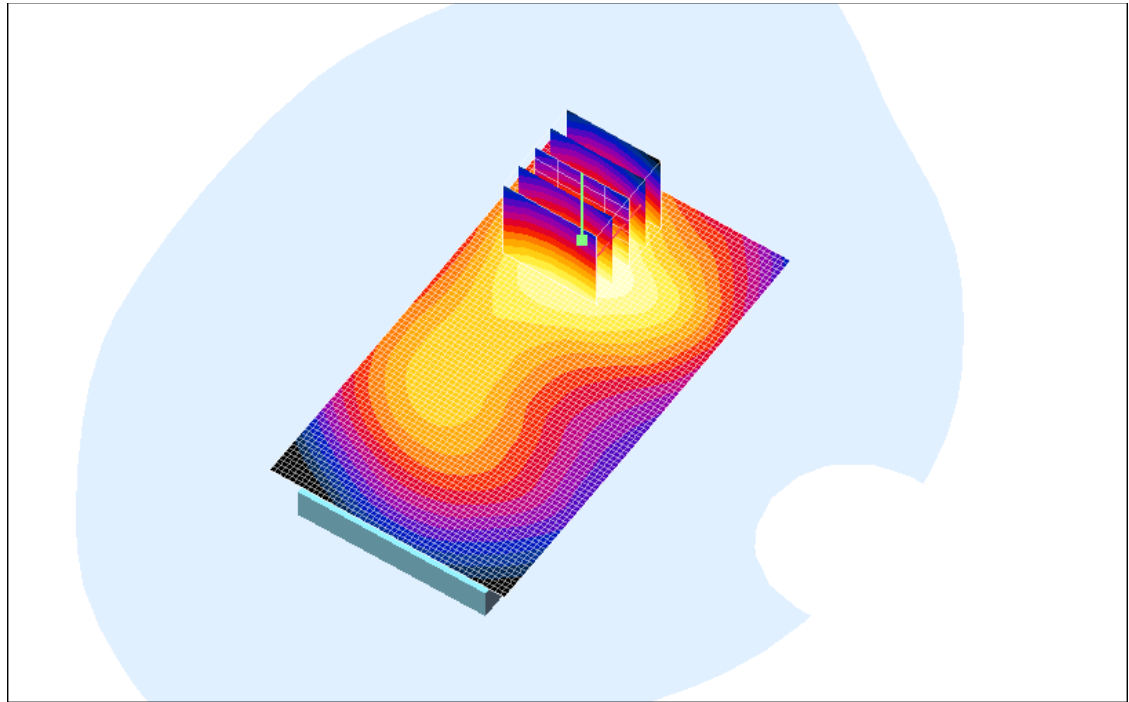
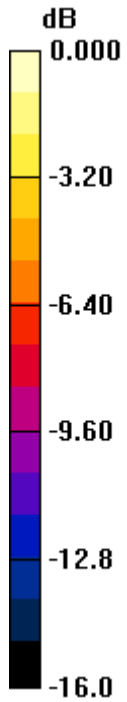
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.372mW/g

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Date/Time: 2/14/2011 9:32:49 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_GPRS1900\_mid\_chan\_amb\_temp\_23.2C\_liq\_temp\_22.0C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 50.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.58, 4.58, 4.58); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.278 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  
 $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 8.26 V/m; Power Drift = -0.337 dB

Peak SAR (extrapolated) = 0.334 W/kg

**SAR(1 g) = 0.244 mW/g; SAR(10 g) = 0.155 mW/g**

Maximum value of SAR (measured) = 0.265 mW/g

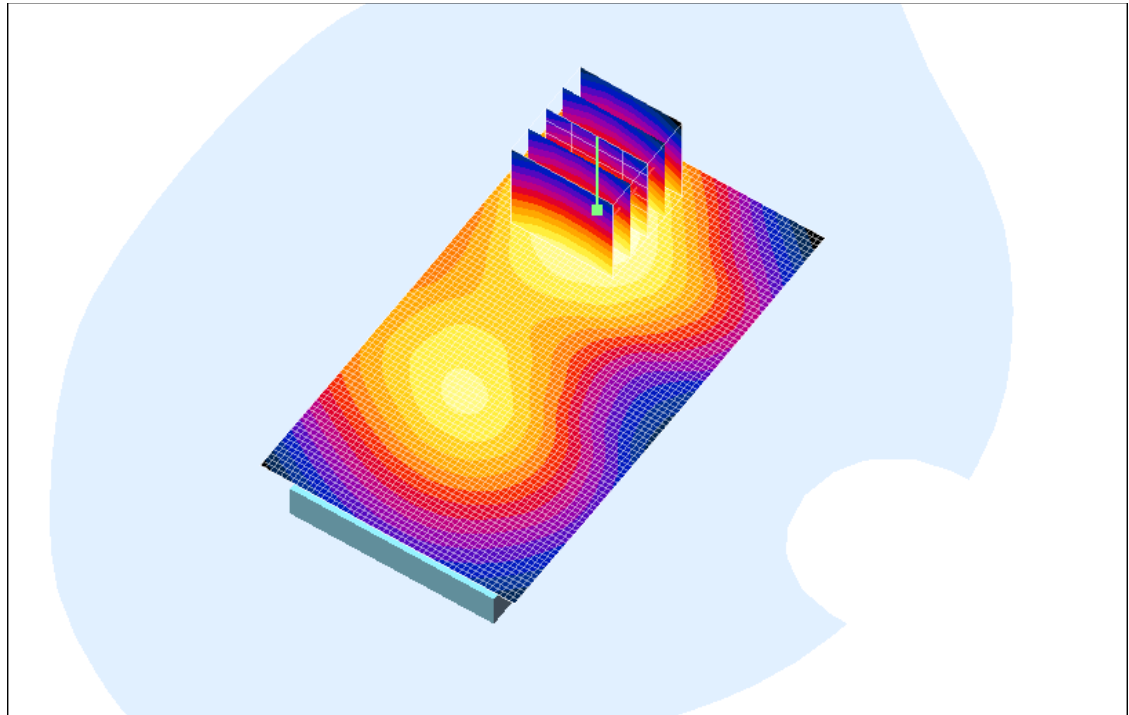
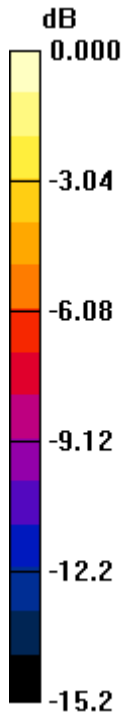
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.265mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDM71UW/ REN71UW SAR Report</b>			Page <b>38(83)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

Date/Time: 2/14/2011 9:53:19 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Front\_GPRS1900\_mid\_chan\_amb\_temp\_23.1C\_liq\_tem  
p\_21.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 50.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.58, 4.58, 4.58); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.260 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  
 $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 5.68 V/m; Power Drift = -0.353 dB

Peak SAR (extrapolated) = 0.354 W/kg

**SAR(1 g) = 0.239 mW/g; SAR(10 g) = 0.148 mW/g**

Maximum value of SAR (measured) = 0.260 mW/g

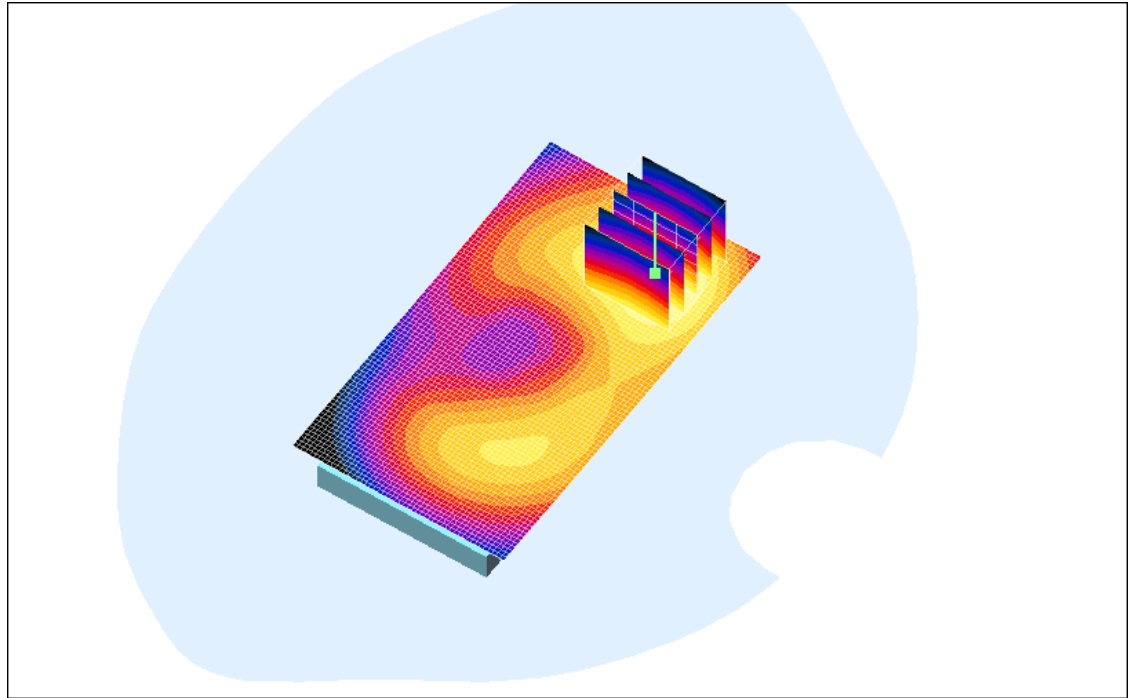
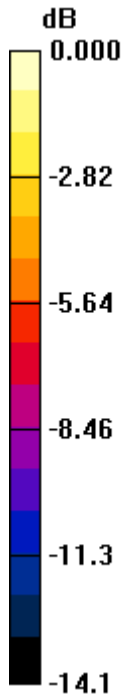
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.260mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

Date/Time: 2/14/2011 10:16:19 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_HS#2\_GPRS1900\_mid\_chan\_amb\_temp\_23.1C\_li  
q\_temp\_21.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 50.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.58, 4.58, 4.58); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.339 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  
 $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 7.77 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.426 W/kg

**SAR(1 g) = 0.305 mW/g; SAR(10 g) = 0.193 mW/g**

Maximum value of SAR (measured) = 0.330 mW/g



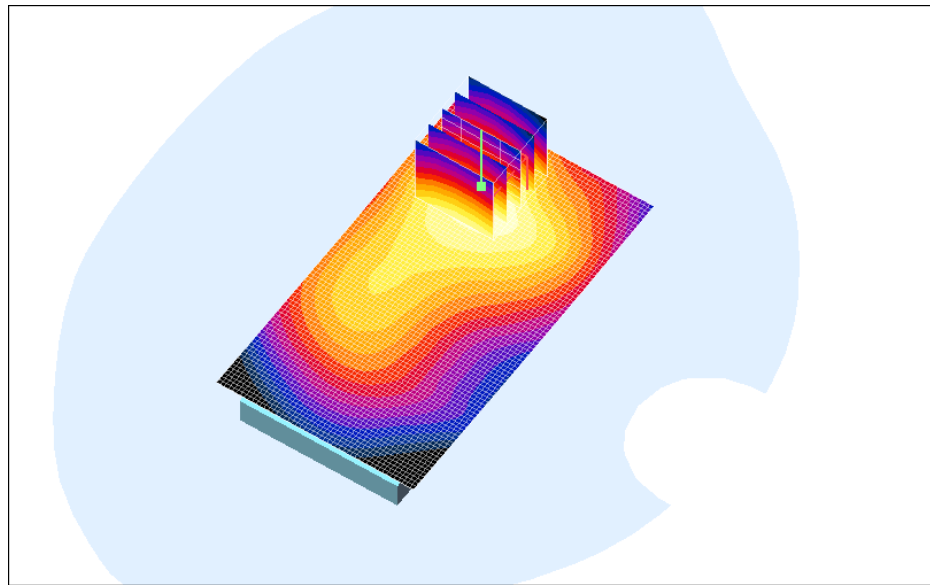
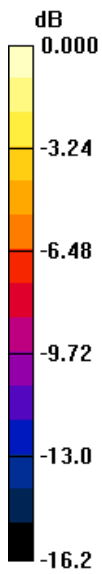
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.330mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

Date/Time: 2/15/2011 12:01:51 AM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_GPRS1900\_3\_Slots\_mid\_chan\_amb\_temp\_23.2C  
\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 1900 (3-slots); Frequency: 1880 MHz; Duty Cycle: 1:2.8  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 50.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.58, 4.58, 4.58); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.435 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,  
dy=7.5mm, dz=5mm

Reference Value = 8.15 V/m; Power Drift = 0.237 dB

Peak SAR (extrapolated) = 0.570 W/kg

**SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.257 mW/g**

Maximum value of SAR (measured) = 0.439 mW/g

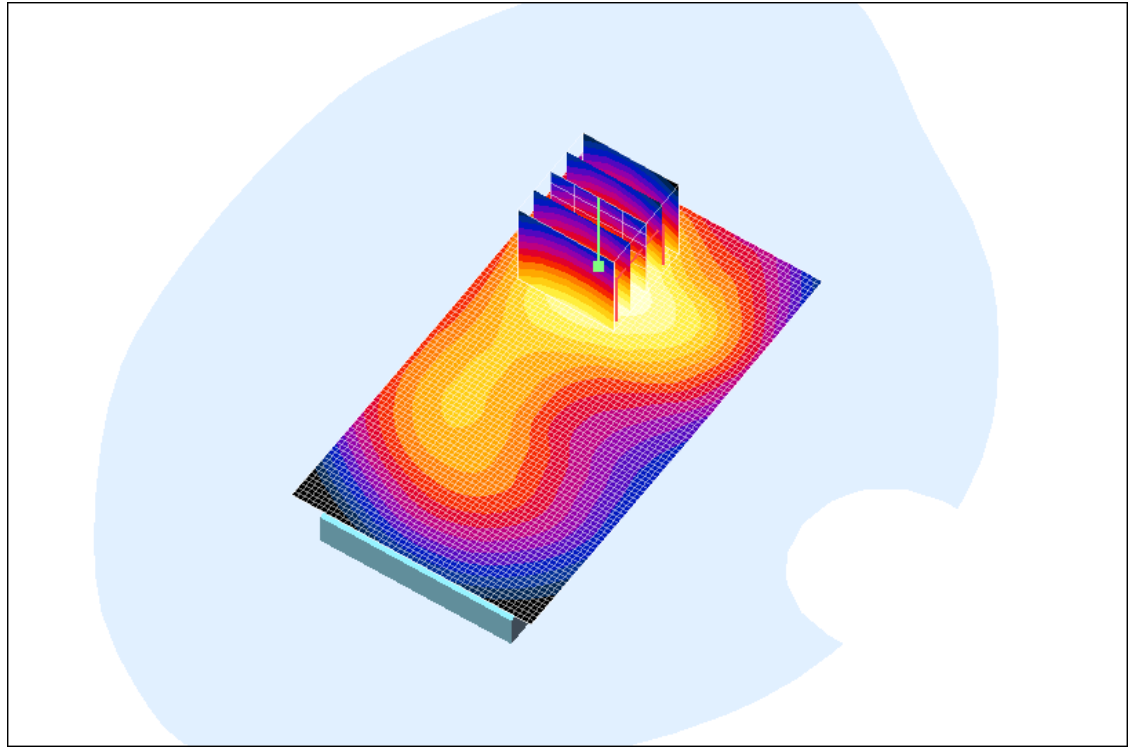
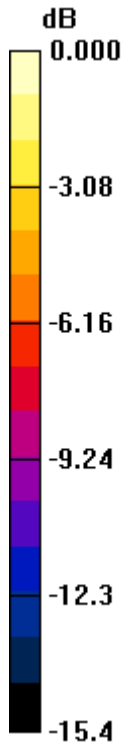
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.439mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

Date/Time: 2/15/2011 12:14:58 AM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_GPRS1900\_4\_Slots\_mid\_chan\_amb\_temp\_23.2C  
\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: GPRS 1900 (4-slots); Frequency: 1880 MHz; Duty Cycle: 1:2.1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.58, 4.58, 4.58); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.459 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,  
dy=7.5mm, dz=5mm

Reference Value = 8.54 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.595 W/kg

**SAR(1 g) = 0.425 mW/g; SAR(10 g) = 0.267 mW/g**

Maximum value of SAR (measured) = 0.461 mW/g

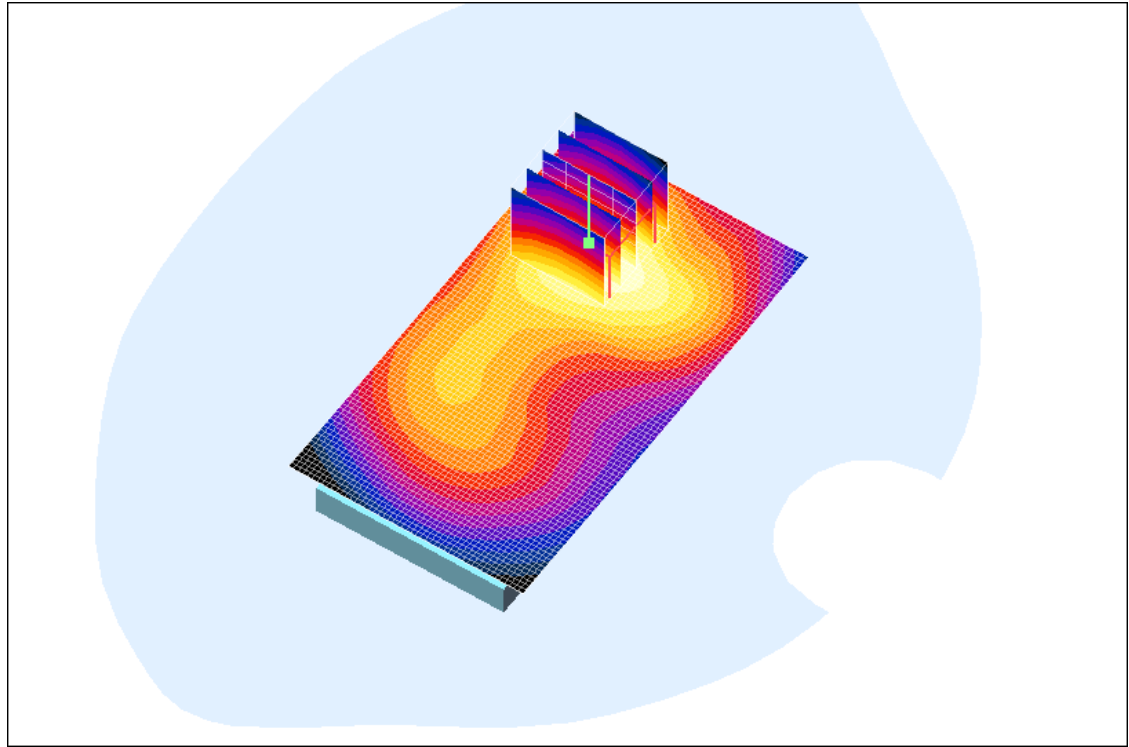
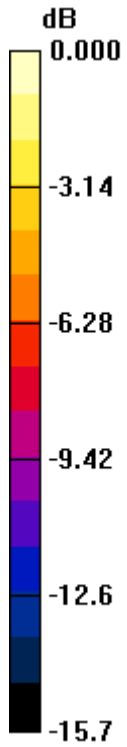
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.461mW/g

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Date/Time: 2/14/2011 10:46:42 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_UMTS\_band\_II\_low\_chan\_amb\_temp\_23.1C\_liq\_t  
emp\_21.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.58, 4.58, 4.58); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.726 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.2 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 0.962 W/kg

**SAR(1 g) = 0.680 mW/g; SAR(10 g) = 0.428 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.730 mW/g

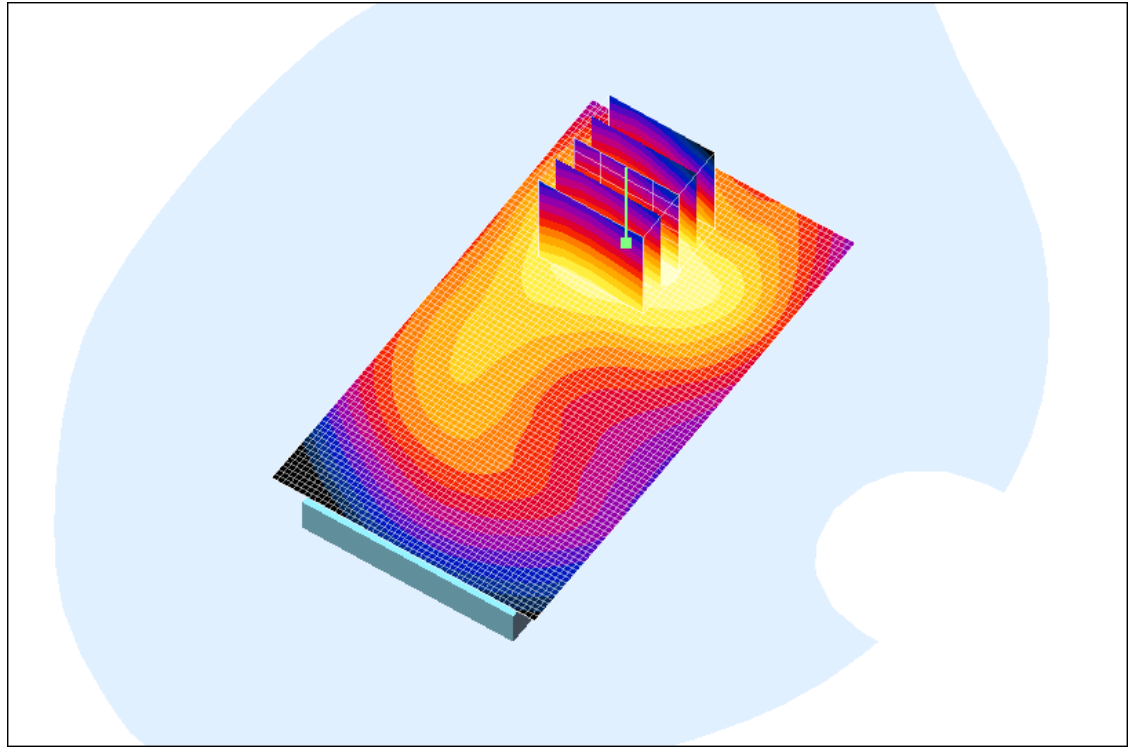
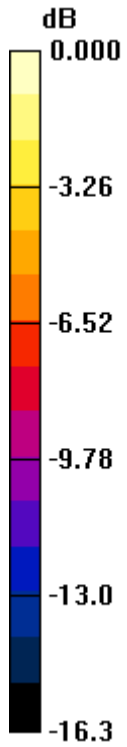
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.730mW/g

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Date/Time: 2/14/2011 10:32:30 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_UMTS\_band\_II\_mid\_chan\_amb\_temp\_23.1C\_liq\_t  
emp\_21.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.58, 4.58, 4.58); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.851 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,  
dy=7.5mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = -0.277 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.788 mW/g; SAR(10 g) = 0.498 mW/g**

Maximum value of SAR (measured) = 0.850 mW/g



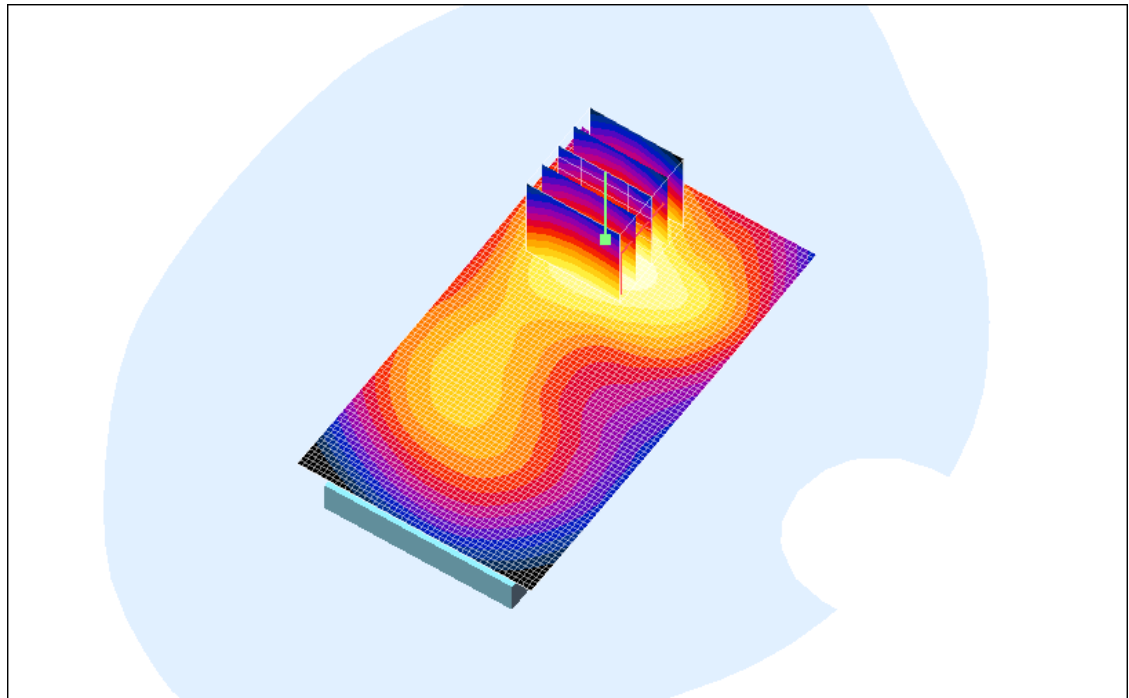
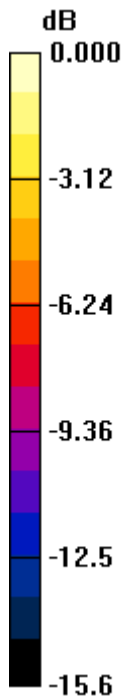
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.850mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDM71UW/ REN71UW</b> <b>SAR Report</b>			Page <b>50(83)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

Date/Time: 2/14/2011 10:59:30 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_UMTS\_band\_II\_high\_chan\_amb\_temp\_23.1C\_liq\_t  
emp\_21.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.57$  mho/m;  $\epsilon_r = 50.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.58, 4.58, 4.58); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.04 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 1.32 W/kg

**SAR(1 g) = 0.941 mW/g; SAR(10 g) = 0.589 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.02 mW/g

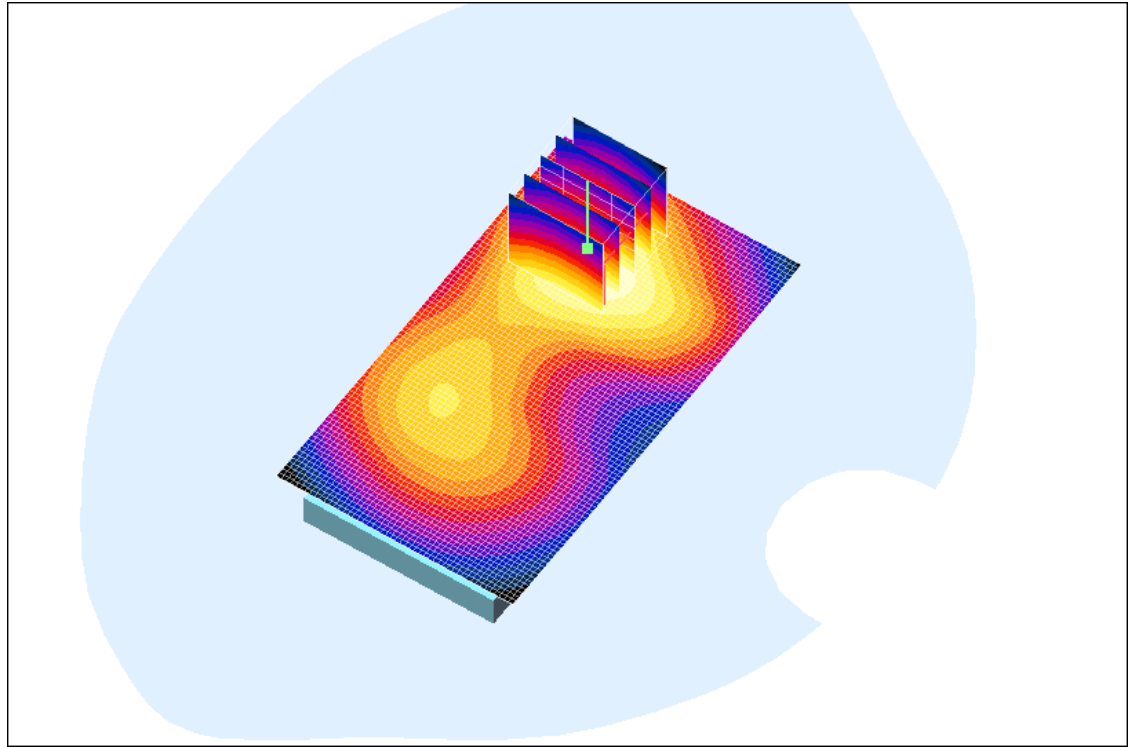
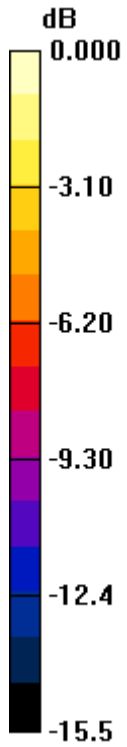
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 1.02mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

Date/Time: 2/14/2011 11:13:17 PM

Test Laboratory: RIM Testing Services

**Vertical\_Holster\_Back\_UMTS\_band\_II\_high\_chan\_amb\_temp\_23.2C\_liq  
\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.57$  mho/m;  $\epsilon_r = 50.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.58, 4.58, 4.58); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.662 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.56 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 0.826 W/kg

**SAR(1 g) = 0.587 mW/g; SAR(10 g) = 0.372 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.638 mW/g

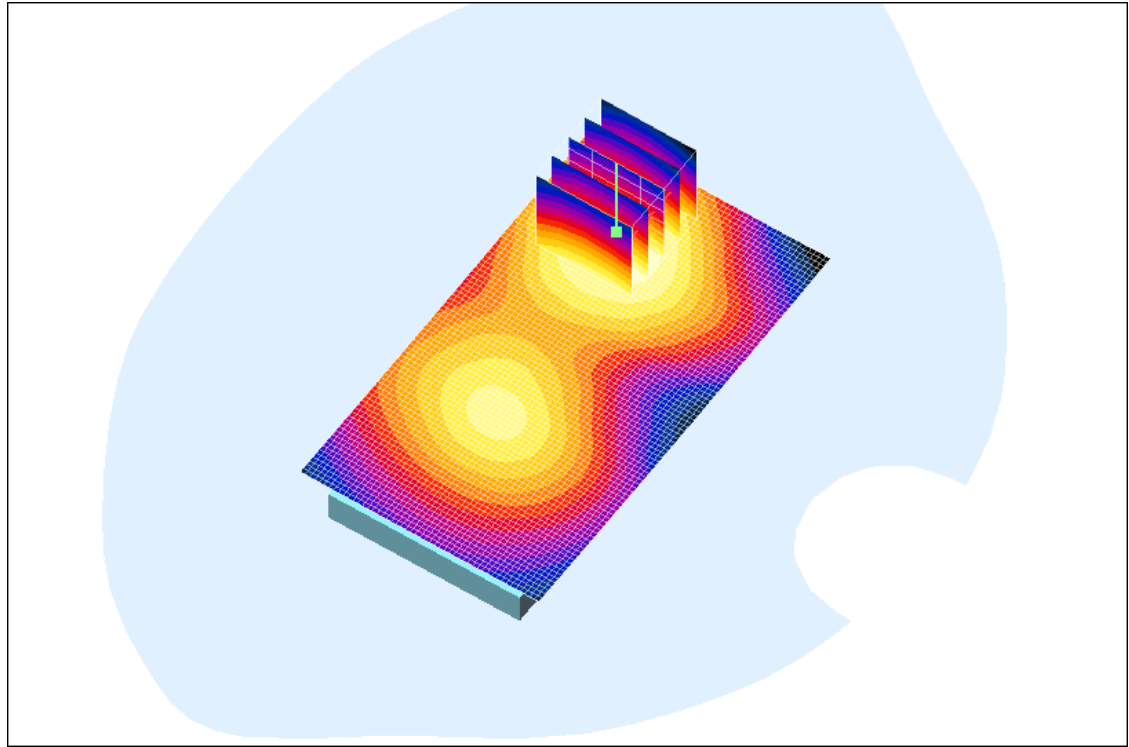
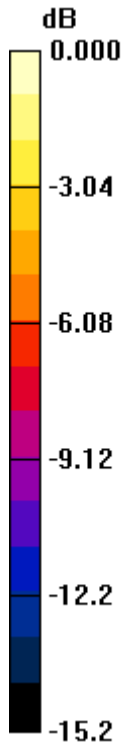
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.638mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

Date/Time: 2/14/2011 11:26:49 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Front\_UMTS\_band\_II\_high\_chan\_amb\_temp\_23.3C\_liq\_  
temp\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.57$  mho/m;  $\epsilon_r = 50.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.58, 4.58, 4.58); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.596 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.36 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 0.812 W/kg

**SAR(1 g) = 0.542 mW/g; SAR(10 g) = 0.335 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.593 mW/g

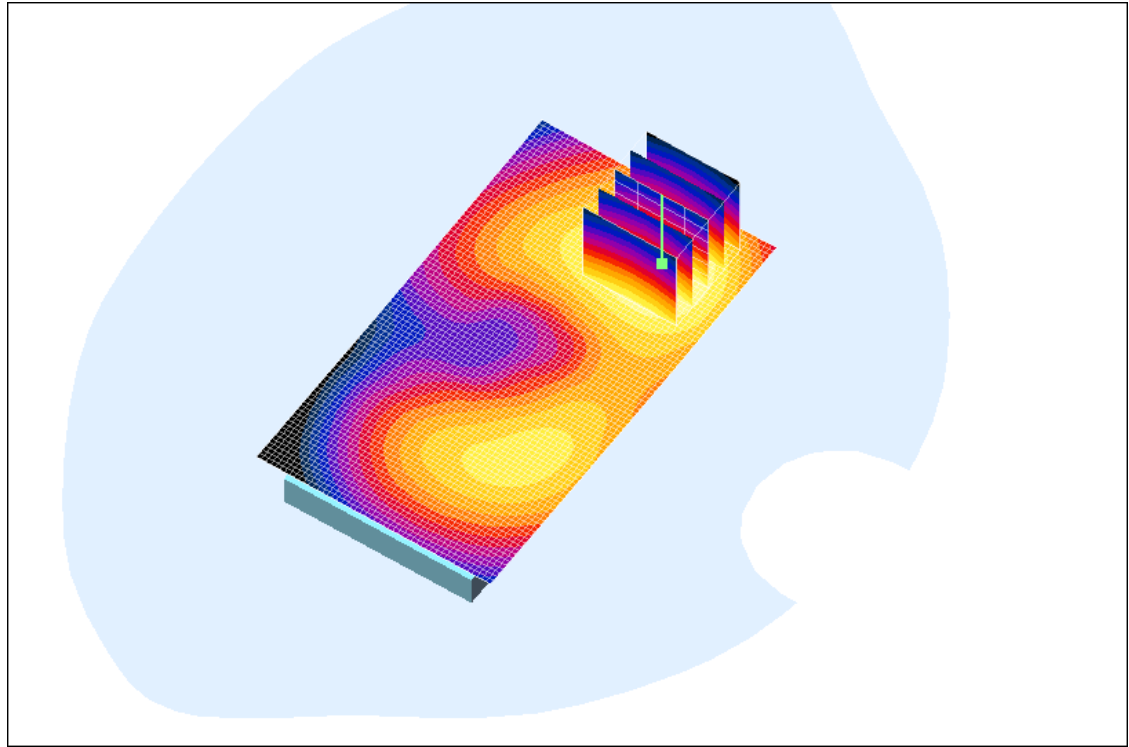
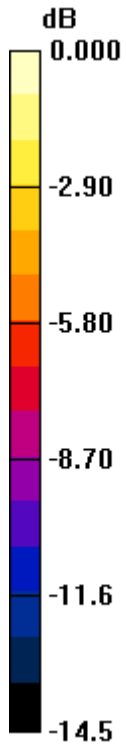
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.593mW/g

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Date/Time: 2/14/2011 11:44:48 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_HS#2\_UMTS\_band\_II\_high\_chan\_amb\_temp\_23.3  
C\_liq\_temp\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2695E3C2**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.57$  mho/m;  $\epsilon_r = 50.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.58, 4.58, 4.58); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.985 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.180 dB

Peak SAR (extrapolated) = 1.24 W/kg

**SAR(1 g) = 0.880 mW/g; SAR(10 g) = 0.551 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.953 mW/g



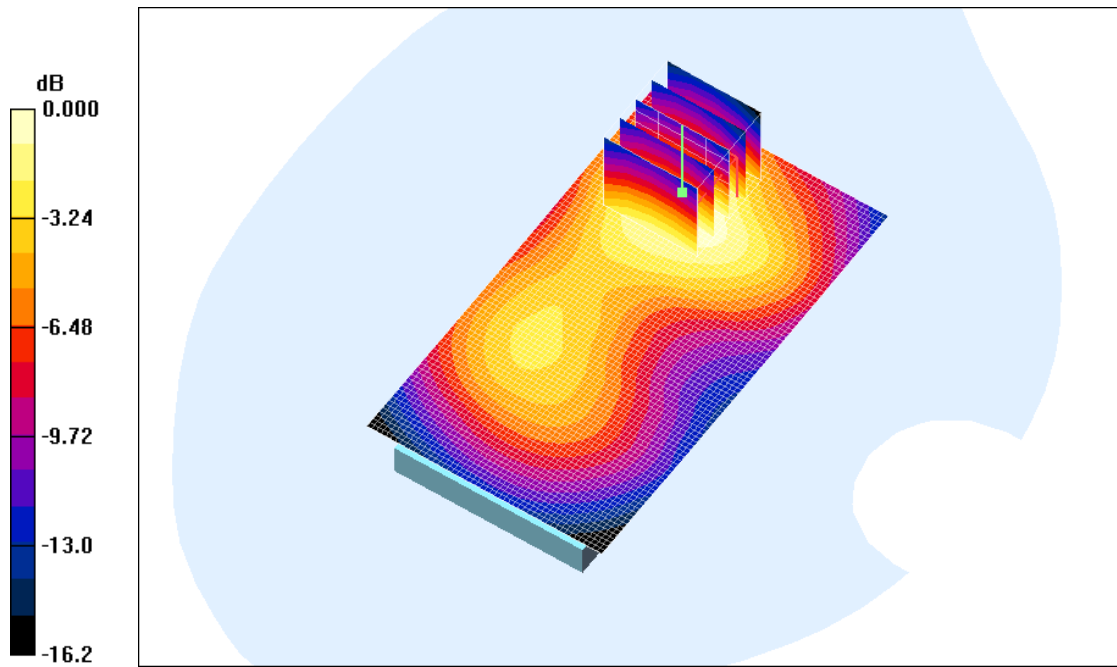
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.953mW/g

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Date/Time: 1/11/2011 10:06:52 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_802.11b\_high\_chan\_amb\_temp\_23.5C\_liq\_temp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26000070**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.05, 4.05, 4.05); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.060 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.51 V/m; Power Drift = -0.212 dB

Peak SAR (extrapolated) = 0.120 W/kg

**SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.032 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.058 mW/g

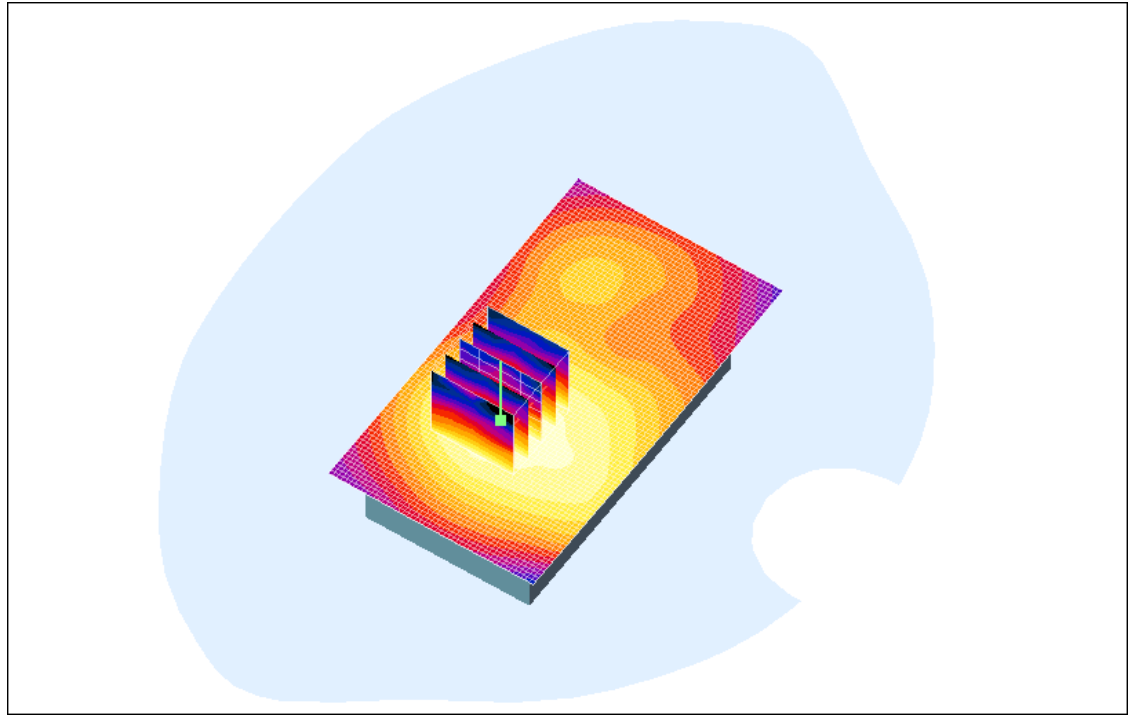
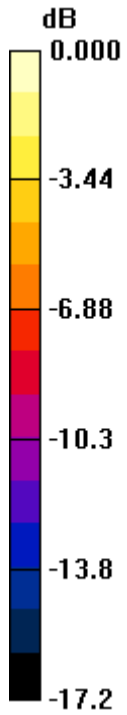
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.058mW/g

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Date/Time: 1/11/2011 8:51:40 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_802.11b\_high\_chan\_amb\_temp\_23.5C\_liq\_temp\_22.6C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26000070**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.05, 4.05, 4.05); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.072 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.71 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 0.166 W/kg

**SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.039 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.077 mW/g

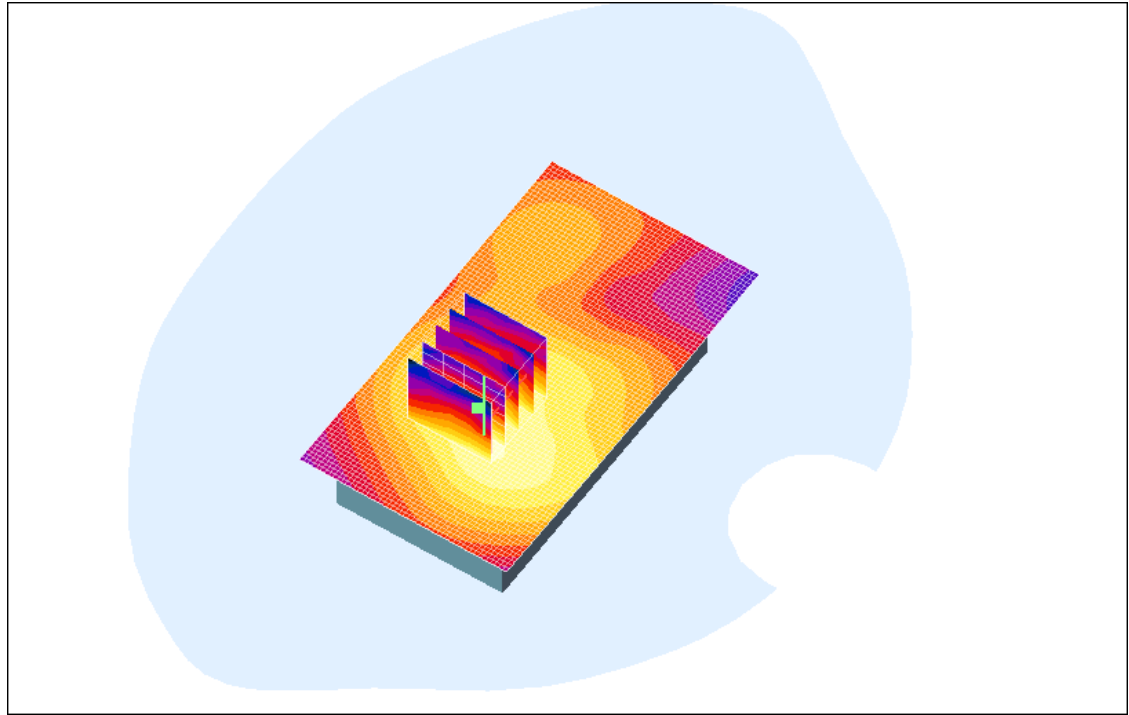
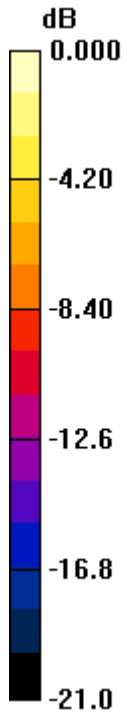
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.077mW/g

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Date/Time: 1/11/2011 9:06:53 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Front\_802.11b\_high\_chan\_amb\_temp\_23.5C\_liq\_temp \_22.6C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26000070**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.05, 4.05, 4.05); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.051 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.36 V/m; Power Drift = 0.141 dB

Peak SAR (extrapolated) = 0.100 W/kg

**SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.025 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.050 mW/g

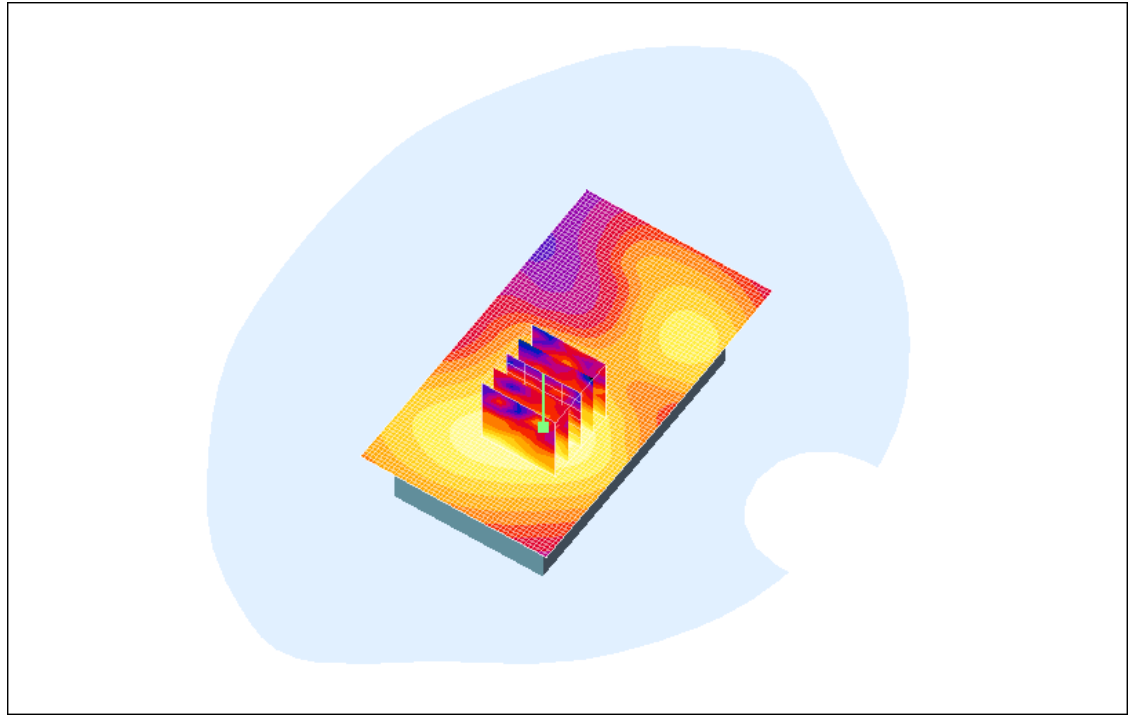
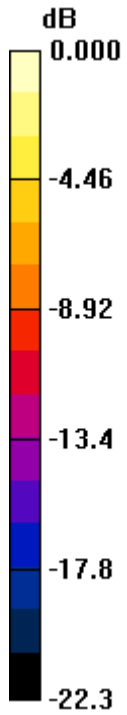
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.050mW/g

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Date/Time: 1/11/2011 9:21:52 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_HS#1\_802.11b\_high\_chan\_amb\_temp\_23.5C\_liq\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26000070**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.05, 4.05, 4.05); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.051 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.74 V/m; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 0.110 W/kg

**SAR(1 g) = 0.048 mW/g; SAR(10 g) = 0.028 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.049 mW/g



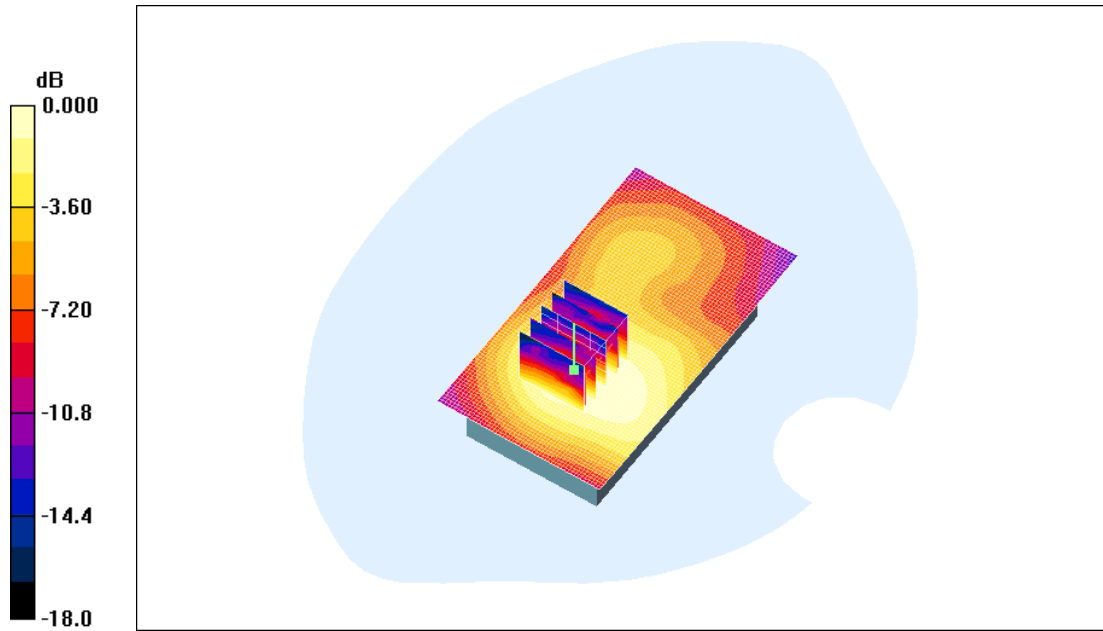
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.049mW/g

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Date/Time: 1/11/2011 9:36:51 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_HS#2\_802.11b\_high\_chan\_amb\_temp\_23.8C\_liq\_temp\_22.8C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26000070**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.05, 4.05, 4.05); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.044 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.43 V/m; Power Drift = -0.322 dB

Peak SAR (extrapolated) = 0.076 W/kg

**SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.021 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.043 mW/g

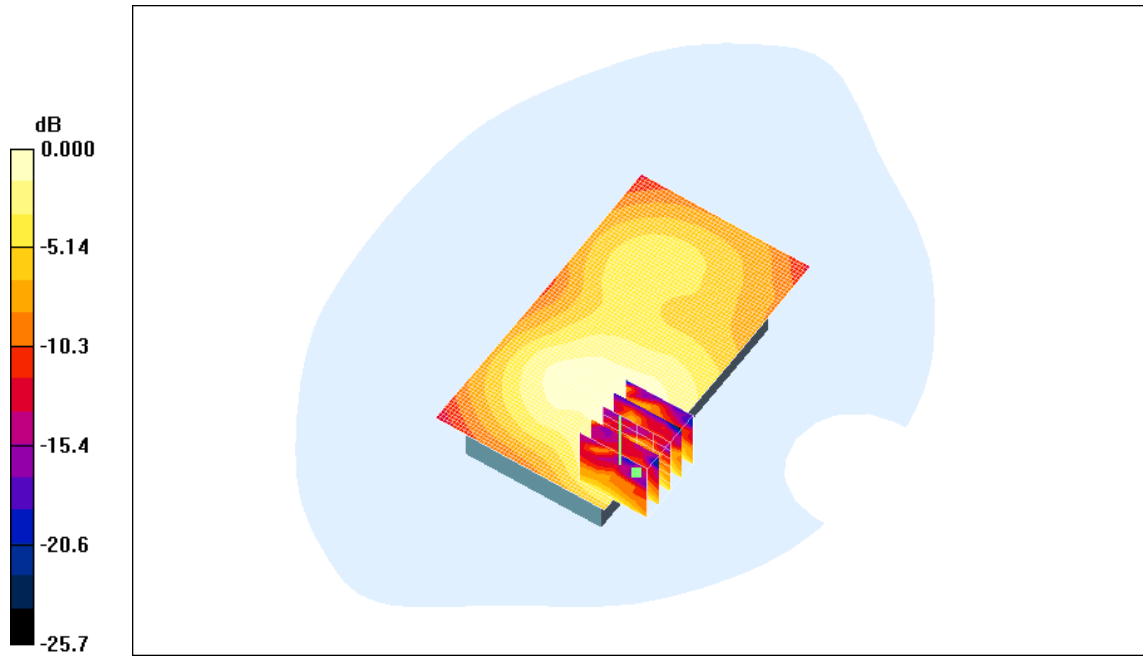
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

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0 dB = 0.043mW/g

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Date/Time: 1/11/2011 9:51:45 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_HS#3\_802.11b\_high\_chan\_amb\_temp\_23.4C\_liq\_temp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26000070**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.05, 4.05, 4.05); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.044 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.84 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 0.083 W/kg

**SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.023 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.043 mW/g

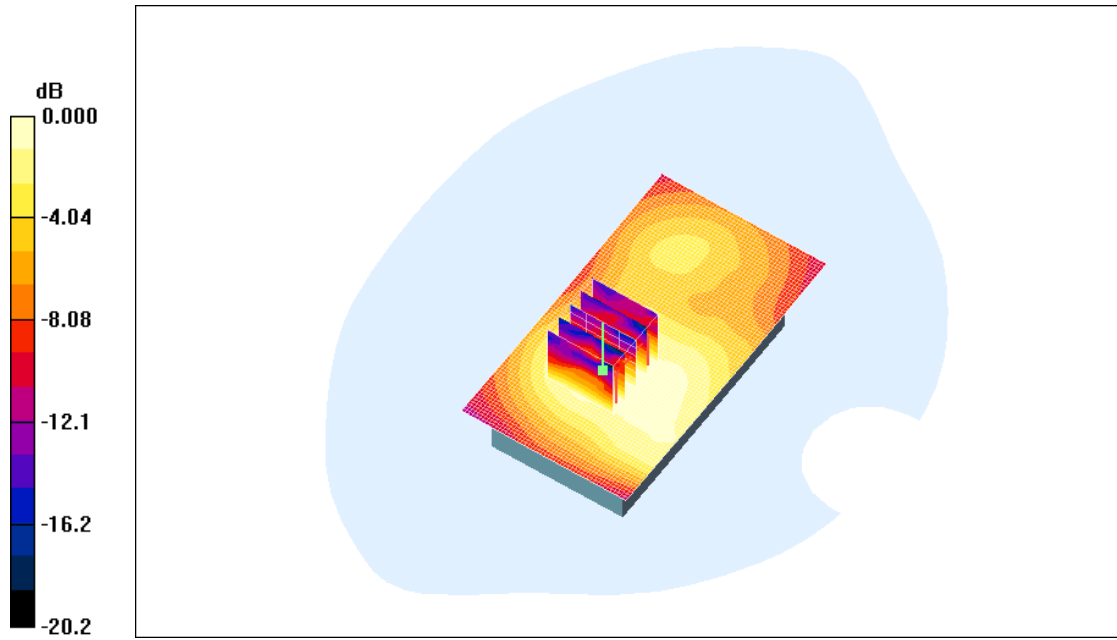
Author Data  
**Andrew Becker**

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**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.043mW/g

Author Data  
**Andrew Becker**

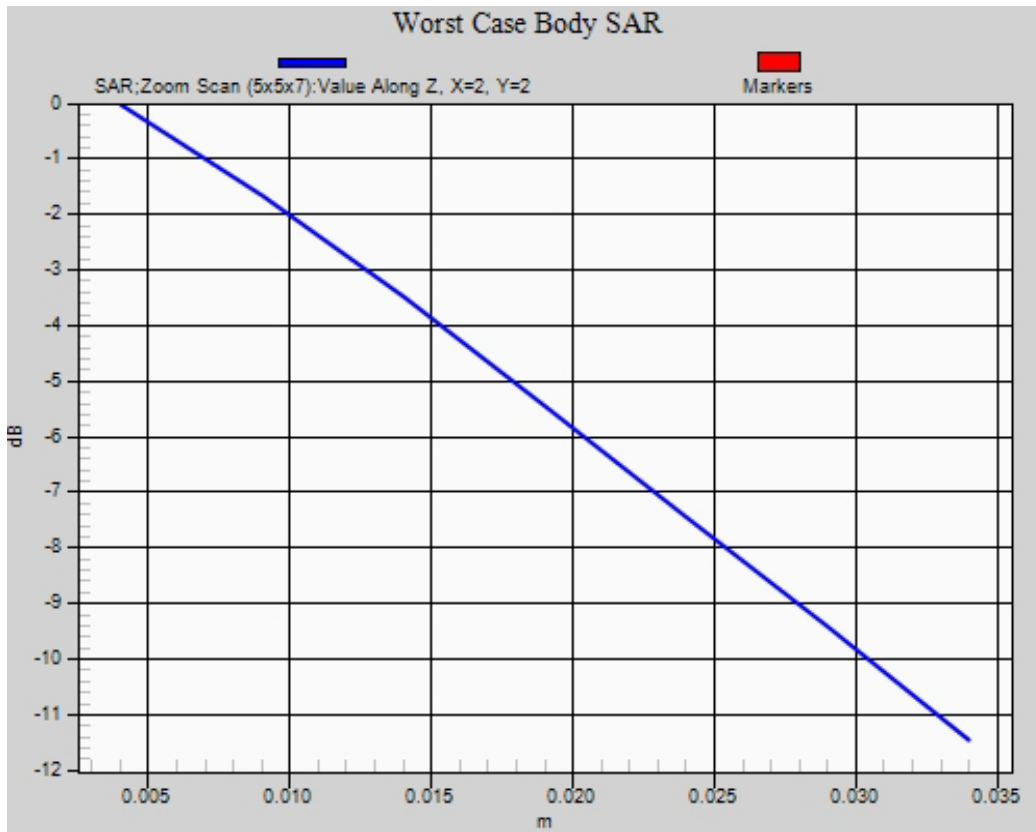
Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
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**L6AREN70UW**

IC ID  
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### Z axis plot for the worst case body configuration:



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Date/Time: 7/4/2011 5:14:19 PM, Date/Time: 7/4/2011 5:19:41 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_UMTS\_band\_IV\_low\_chan\_amb\_temp\_23.3\_liq\_tem  
mp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27B245BB**

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV; Frequency: 1712.4 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.472$  mho/m;  $\epsilon_r = 53.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.125 mW/g


**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:**

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

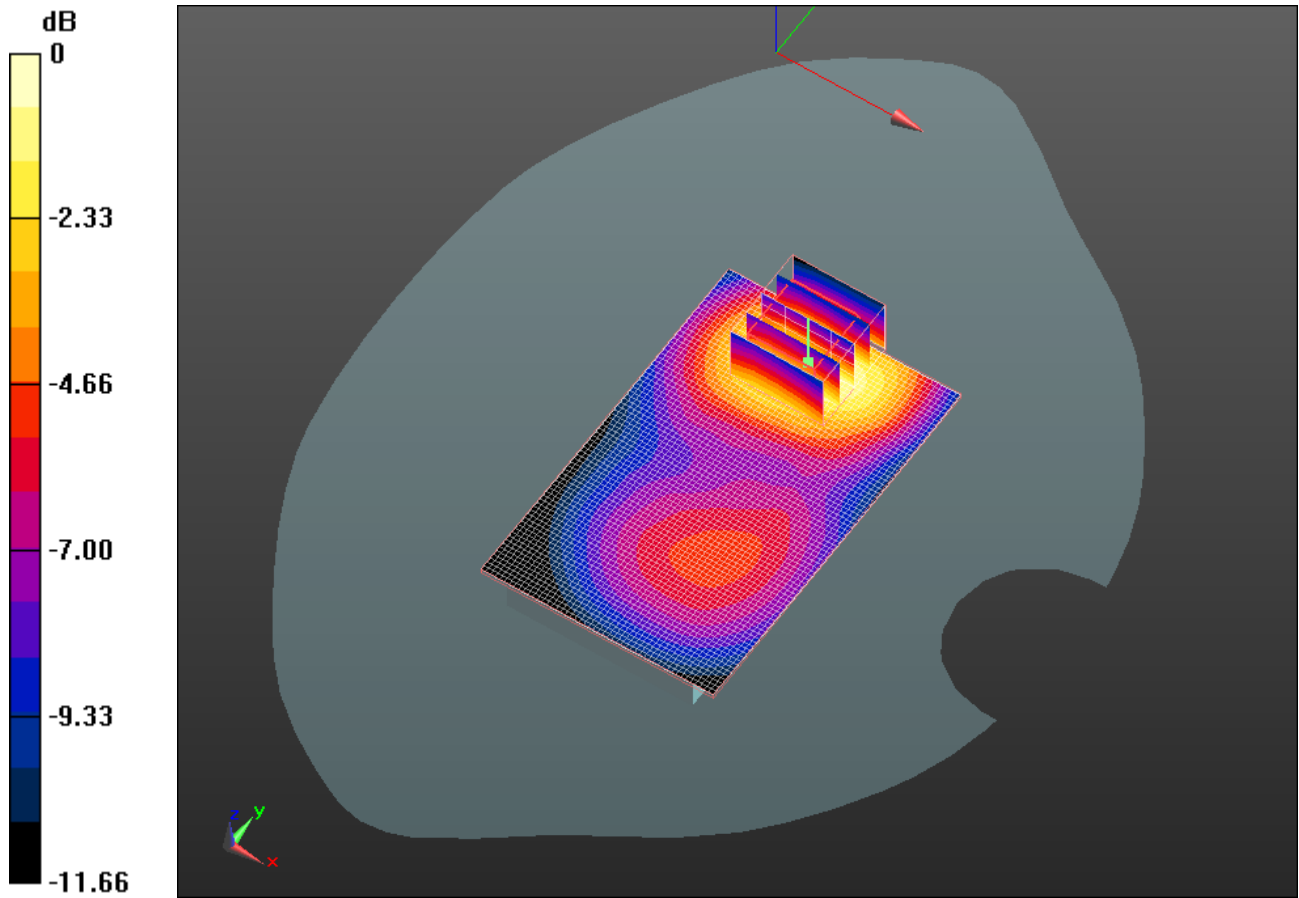
Reference Value = 11.887 V/m; Power Drift = 0.27 dB

Peak SAR (extrapolated) = 1.670 W/kg

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.623 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 1.154 mW/g



0 dB = 1.150mW/g



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Date/Time: 6/30/2011 9:19:08 PM, Date/Time: 6/30/2011 9:24:27 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_UMTS\_band\_IV\_mid\_chan\_amb\_temp\_23.4\_liq\_temper\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27B245BB**

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV; Frequency: 1732.6 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.485$  mho/m;  $\epsilon_r = 53.887$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.984 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:**

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

Reference Value = 11.387 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.370 W/kg

**SAR(1 g) = 0.879 mW/g; SAR(10 g) = 0.527 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.966 mW/g

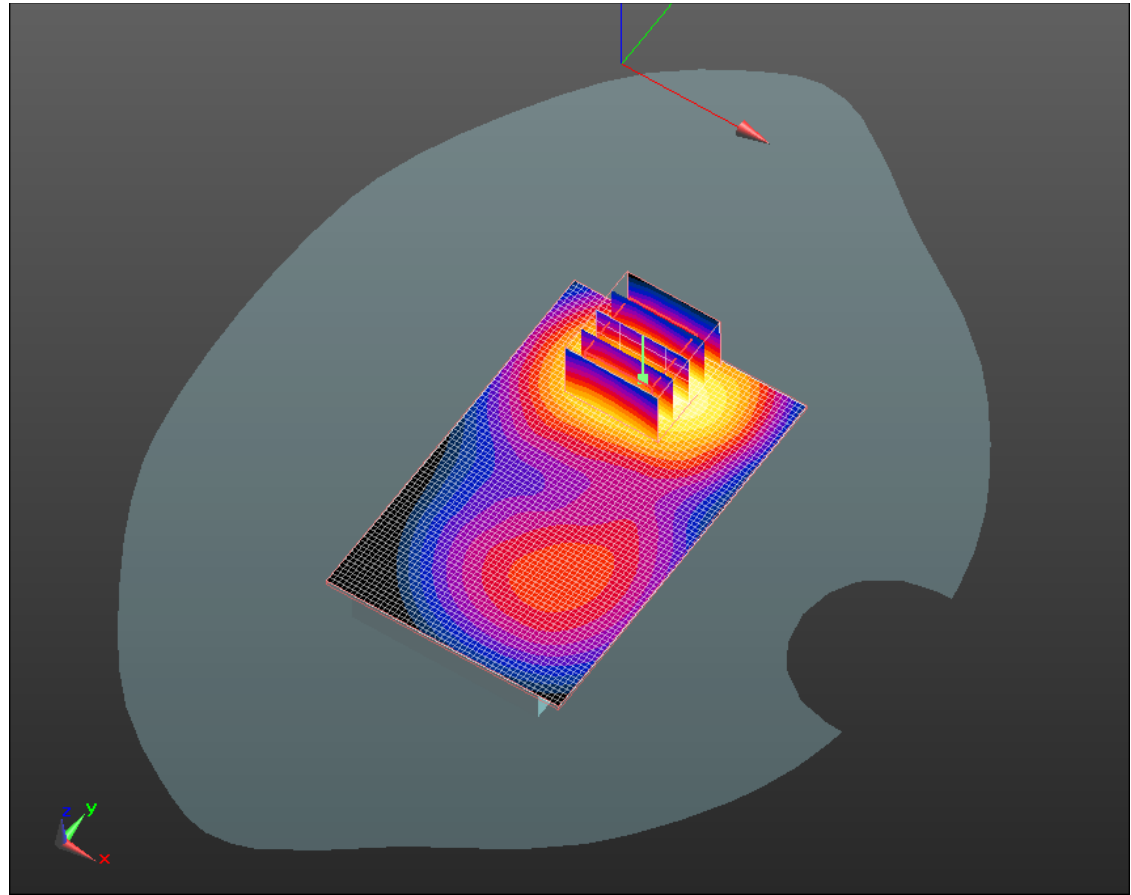
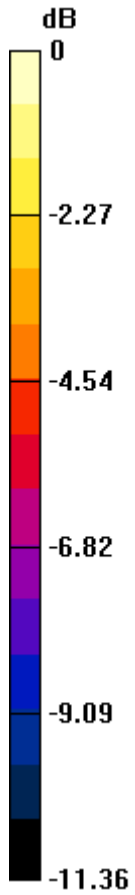
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.970mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

Date/Time: 7/4/2011 5:26:13 PM, Date/Time: 7/4/2011 5:31:32 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_UMTS\_band\_IV\_high\_chan\_amb\_temp\_23.3\_liq\_t  
emp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27B245BB**

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV; Frequency: 1752.6 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated):  $f = 1752.6 \text{ MHz}$ ;  $\sigma = 1.511 \text{ mho/m}$ ;  $\epsilon_r = 53.871$ ;  
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.229 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:**

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

Reference Value = 12.346 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.690 W/kg

**SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.659 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.200 mW/g

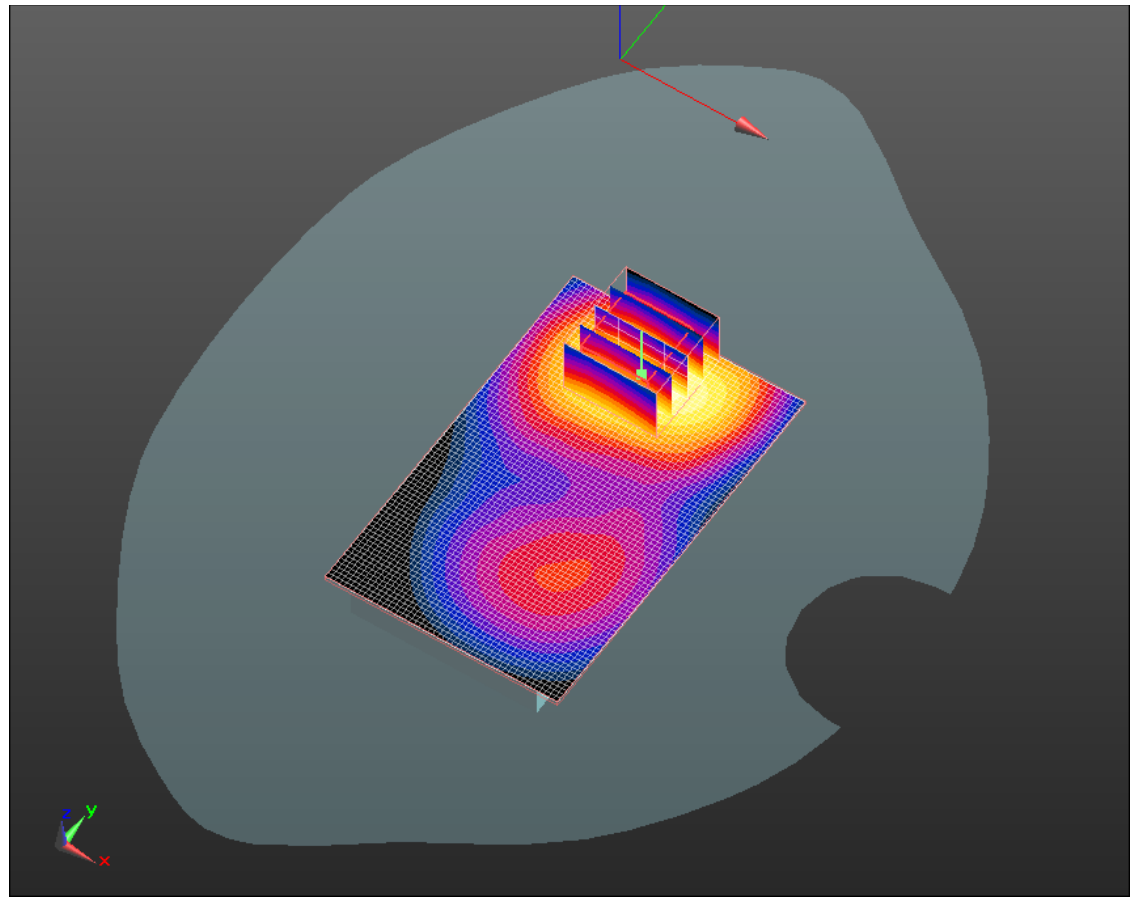
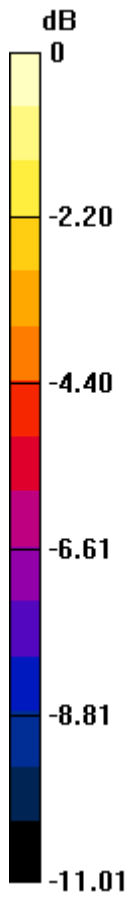
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 1.200mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 11 – July 04, 2011</b>	Test Report No <b>RTS-3640-1102-04B</b>	FCC ID: <b>L6ARDM70UW</b> <b>L6AREN70UW</b>

Date/Time: 6/30/2011 9:42:18 PM, Date/Time: 6/30/2011 9:47:39 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Front\_UMTS\_band\_IV\_mid\_chan\_amb\_temp\_23.3\_liq\_t  
emp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27B245BB**

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV; Frequency: 1732.6 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.485$  mho/m;  $\epsilon_r = 53.887$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.569 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:**

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

Reference Value = 10.395 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.790 W/kg

**SAR(1 g) = 0.531 mW/g; SAR(10 g) = 0.329 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.581 mW/g

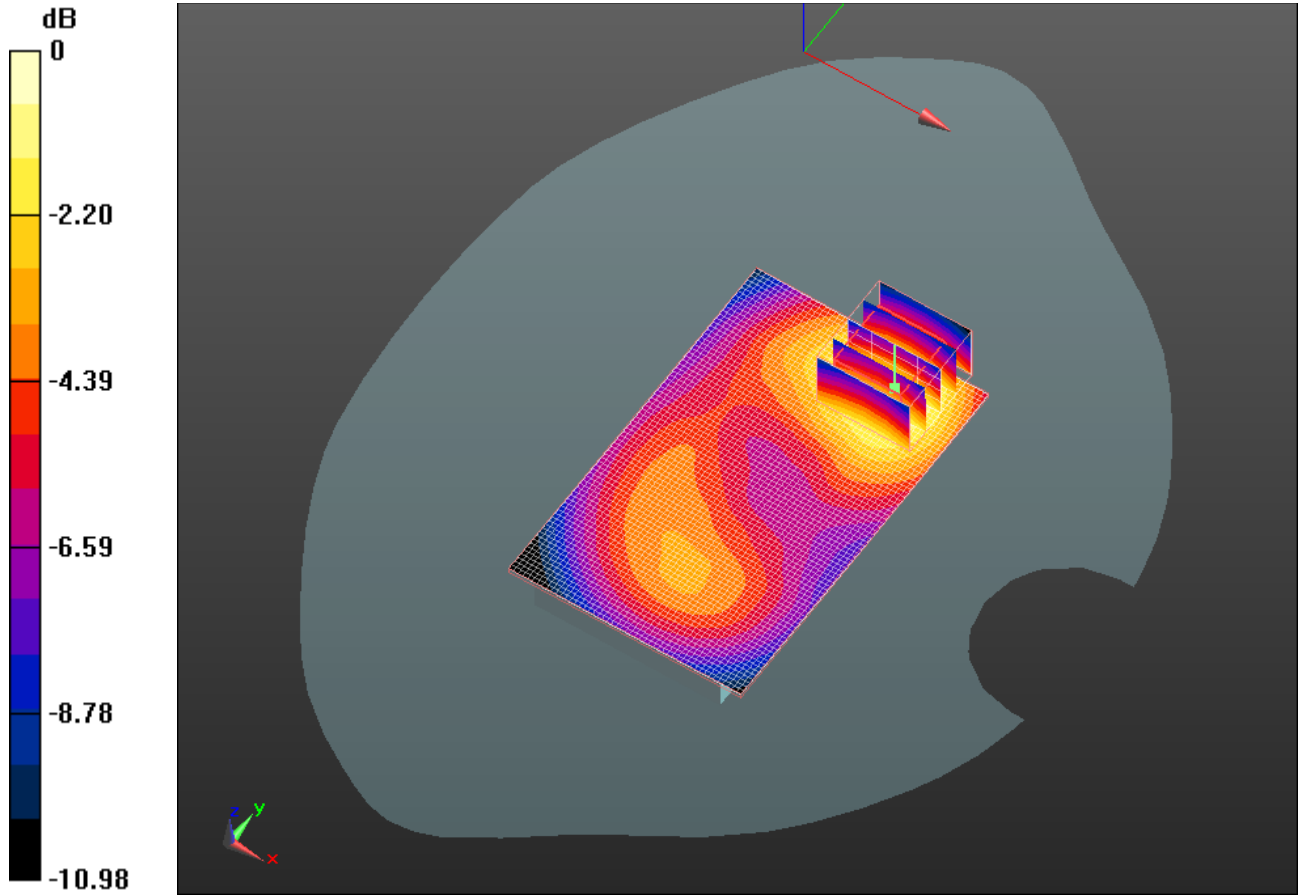
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**


Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.580mW/g

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Date/Time: 6/30/2011 9:53:46 PM, Date/Time: 6/30/2011 9:59:05 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_UMTS\_band\_IV\_mid\_chan\_amb\_temp\_23.3\_liq\_t emp\_22.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27B245BB**

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV; Frequency: 1732.6 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.485$  mho/m;  $\epsilon_r = 53.887$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.627 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:**

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

Reference Value = 9.324 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.845 W/kg

**SAR(1 g) = 0.574 mW/g; SAR(10 g) = 0.357 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.626 mW/g

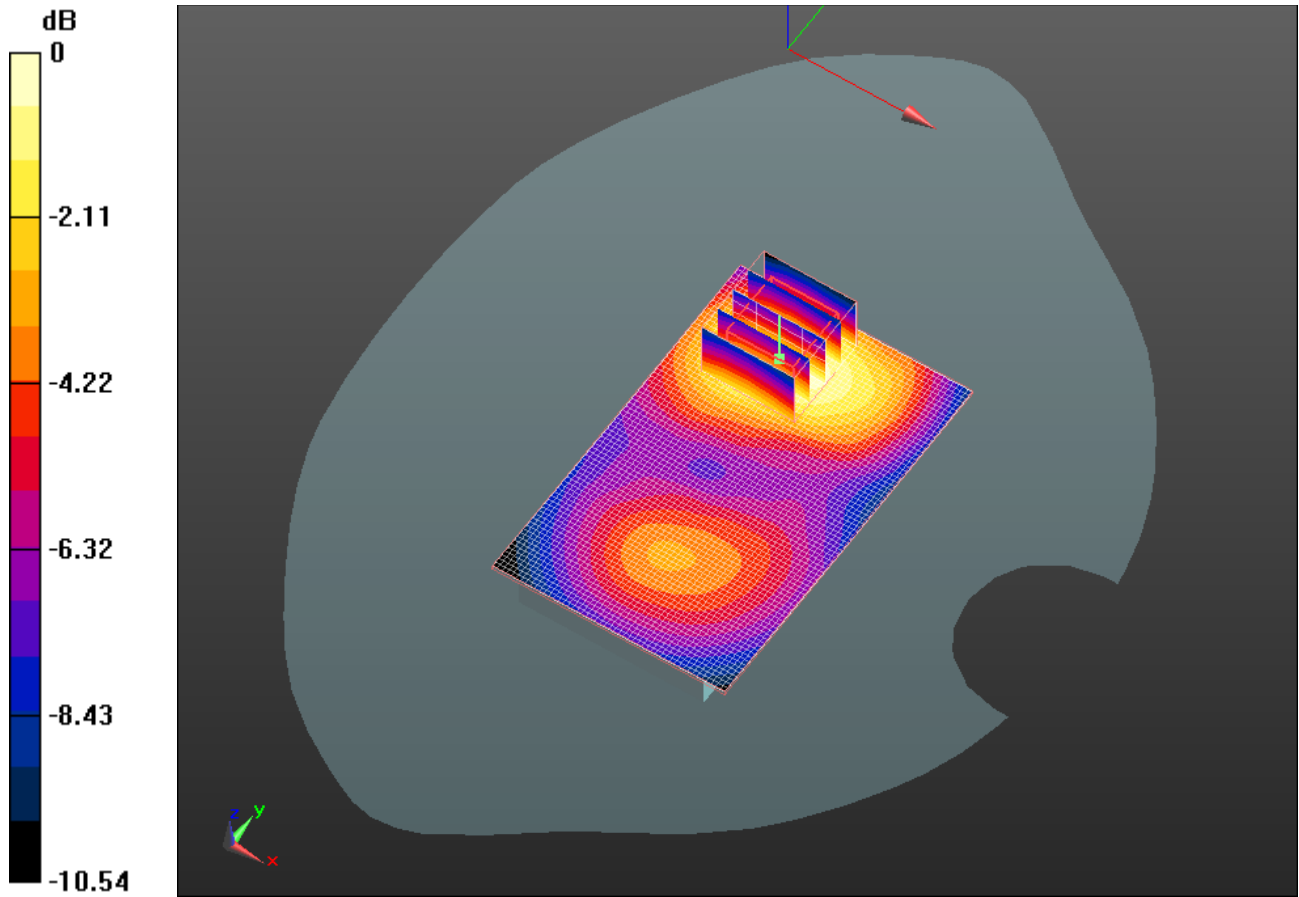
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**

Test Report No  
**RTS-3640-1102-04B**


FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.630mW/g



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Date/Time: 6/30/2011 9:30:22 PM, Date/Time: 6/30/2011 9:35:41 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_HS\_UMTS\_band\_IV\_mid\_chan\_amb\_temp\_23.4\_li  
q\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27B245BB**

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV; Frequency: 1732.6 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.485$  mho/m;  $\epsilon_r = 53.887$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.777 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:**

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

Reference Value = 13.029 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.078 W/kg

**SAR(1 g) = 0.695 mW/g; SAR(10 g) = 0.417 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.757 mW/g

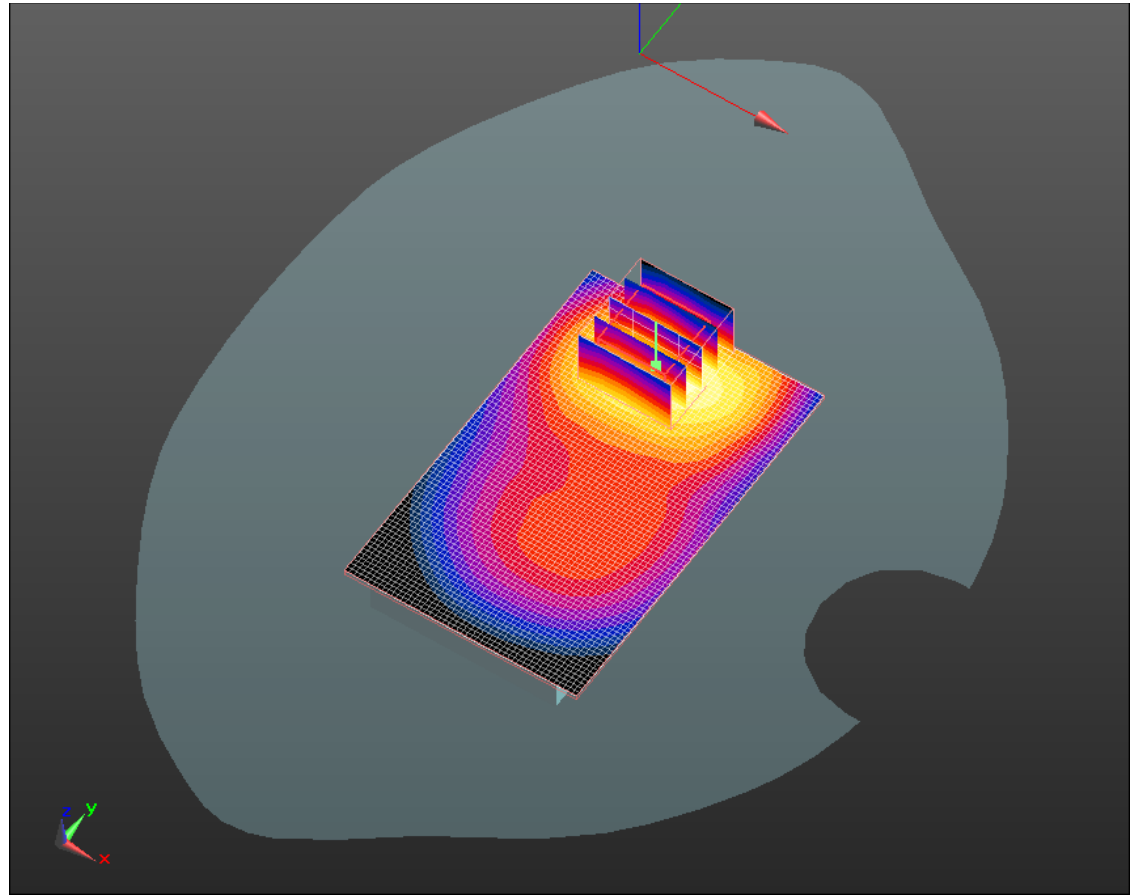
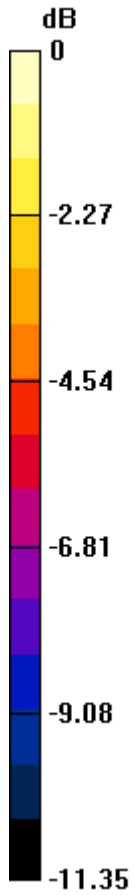
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**

Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**



0 dB = 0.760mW/g

Author Data  
**Andrew Becker**

Dates of Test  
**Jan 11 – July 04, 2011**

Test Report No  
**RTS-3640-1102-04B**

FCC ID:  
**L6ARDM70UW**  
**L6AREN70UW**

IC ID  
**2503A-RDM70UW**  
**2503A-REN70UW**

**Z axis plot for the worst case body configuration:**

