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	Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>

**APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION**

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Date/Time: 6/23/2010 1:10:45 AM

Test Laboratory: RIM Testing Services

## RightHandSide\_EDGE850\_low\_chan\_amb\_temp\_23.1\_liq\_temp\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 850 (2slots); Frequency: 824.2 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.842 \text{ mho/m}$ ;  $\epsilon_r = 41.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

DASY4 Configuration:

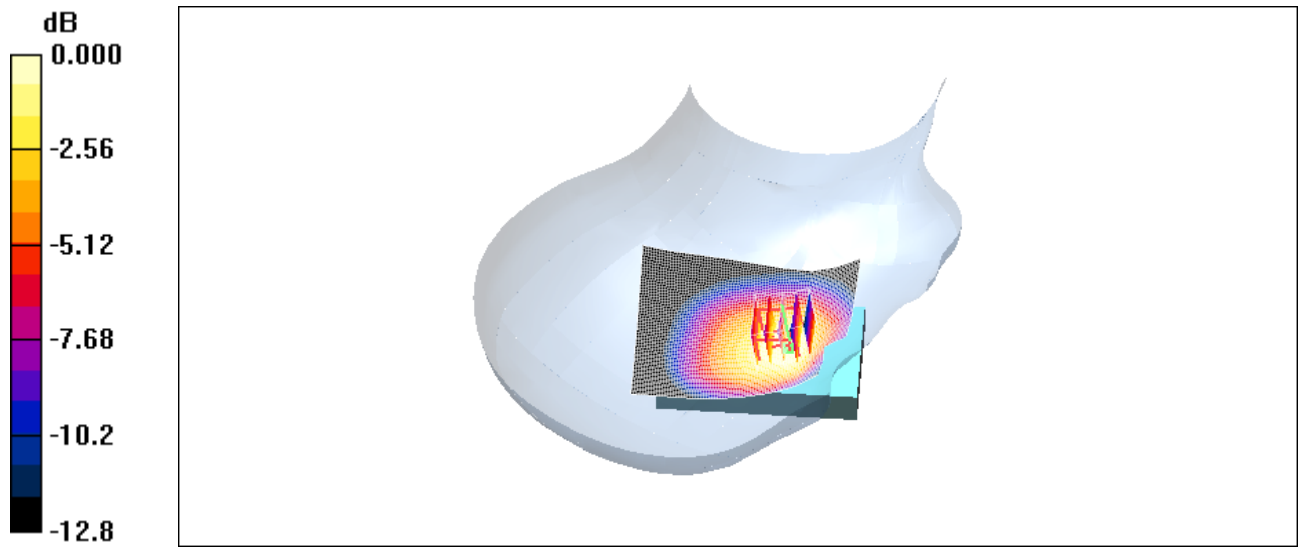
- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.988 mW/g


**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
 $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 10.3 V/m; Power Drift = 0.029 dB  
Peak SAR (extrapolated) = 1.16 W/kg  
**SAR(1 g) = 0.898 mW/g; SAR(10 g) = 0.642 mW/g**

Maximum value of SAR (measured) = 0.937 mW/g

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0 dB = 0.937mW/g

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Date/Time: 6/23/2010 12:53:34 AM

Test Laboratory: RIM Testing Services

## RightHandSide\_EDGE850\_mid\_chan\_amb\_temp\_23.3\_liq\_temp\_22.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.861$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.06 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 10.6 V/m; Power Drift = 0.083 dB

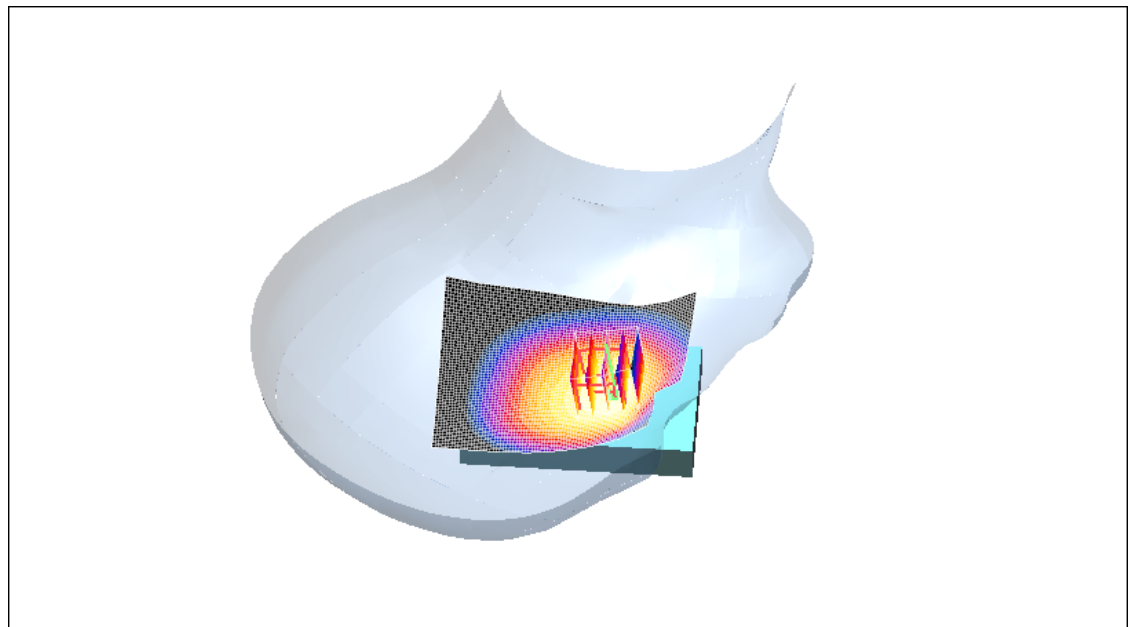
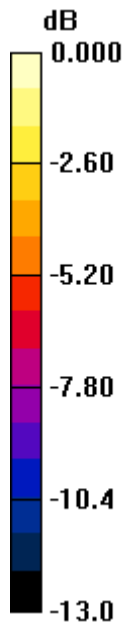
Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.968 mW/g; SAR(10 g) = 0.691 mW/g**


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

Maximum value of SAR (measured) = 1.00 mW/g

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0 dB = 1.00mW/g

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Date/Time: 6/23/2010 1:28:50 AM

Test Laboratory: RIM Testing Services

## RightHandSide\_EDGE850\_high\_chan\_amb\_temp\_23.0\_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.886$  mho/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.21 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 11.1 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.786 mW/g**

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

Maximum value of SAR (measured) = 1.15 mW/g

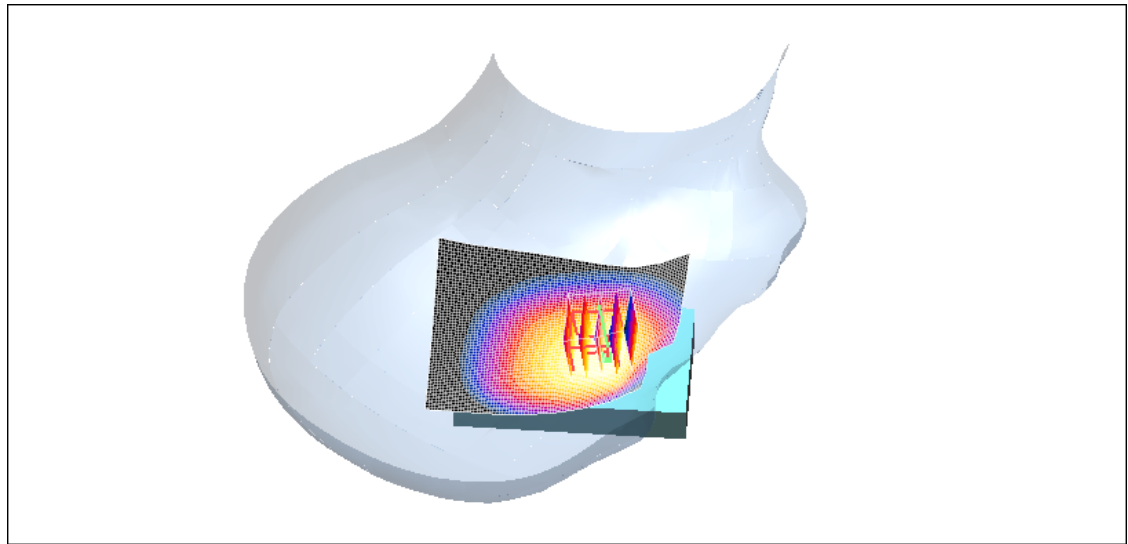
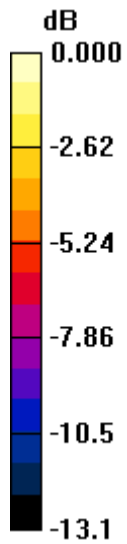
Author Data  
**Andrew Becker**

Dates of Test  
**June 10– June 24 & July 15, 2010**


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0 dB = 1.15mW/g

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Date/Time: 6/23/2010 10:00:25 AM

Test Laboratory: RIM Testing Services

## RightHandSide\_Tilt\_EDGE850\_high\_chan\_amb\_temp\_22.9\_liq\_temp\_2 2.0C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.886$  mho/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.608 mW/g

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

Reference Value = 15.9 V/m; Power Drift = 0.105 dB

Peak SAR (extrapolated) = 0.725 W/kg

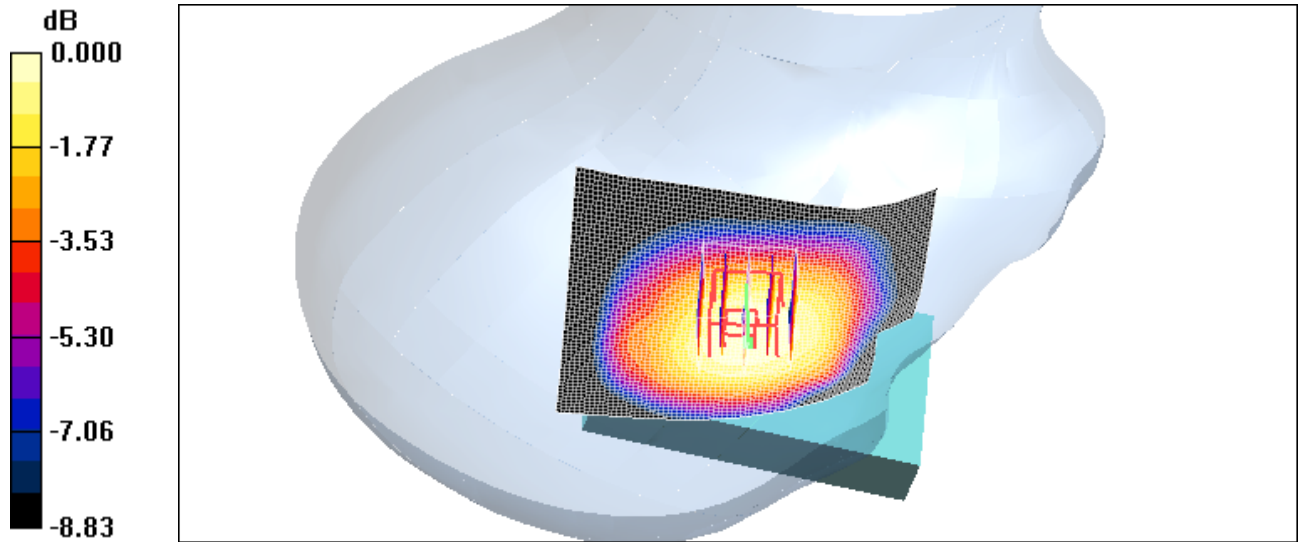
**SAR(1 g) = 0.583 mW/g; SAR(10 g) = 0.440 mW/g**

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


Maximum value of SAR (measured) = 0.610 mW/g



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0 dB = 0.610mW/g

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Date/Time: 6/23/2010 9:42:25 AM

Test Laboratory: RIM Testing Services

## RightHandSide\_GSM850\_high\_chan\_amb\_temp\_23.3\_liq\_temp\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.886$  mho/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section  
Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.980 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 9.52 V/m; Power Drift = 0.048 dB

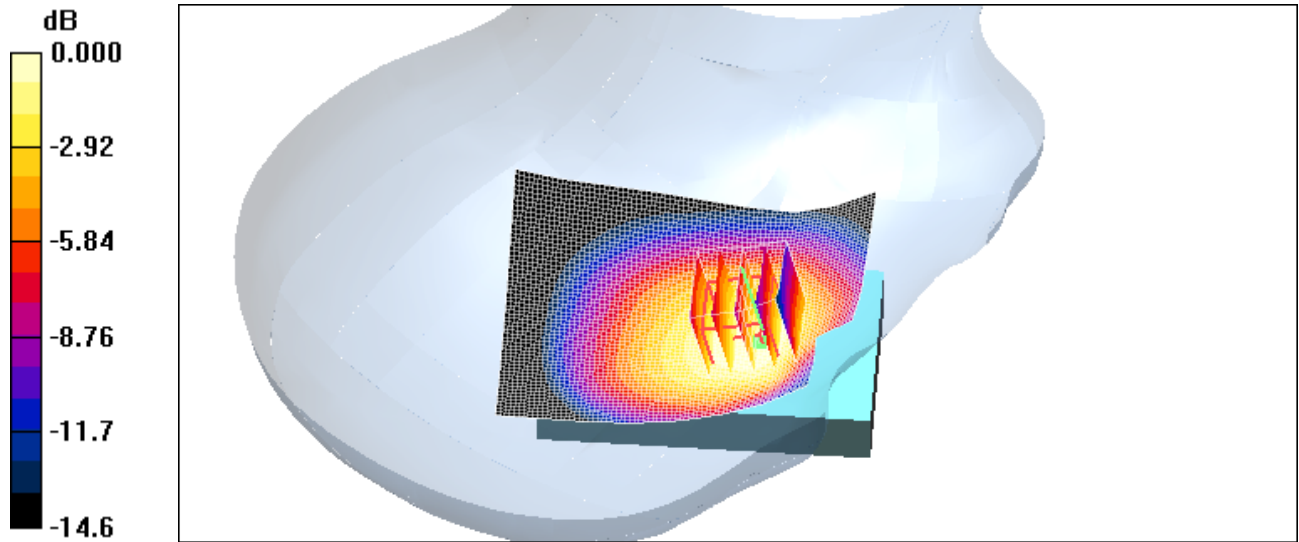
Peak SAR (extrapolated) = 1.15 W/kg

**SAR(1 g) = 0.887 mW/g; SAR(10 g) = 0.633 mW/g**


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

Maximum value of SAR (measured) = 0.927 mW/g

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0 dB = 0.927mW/g

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Date/Time: 6/23/2010 10:31:39 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE850\_low\_chan\_amb\_temp\_22.6\_liq\_temp\_21.8C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 850 (2slots); Frequency: 824.2 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.842 \text{ mho/m}$ ;  $\epsilon_r = 41.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section  
Measurement Standard: DASY4 (High Precision Assessment)

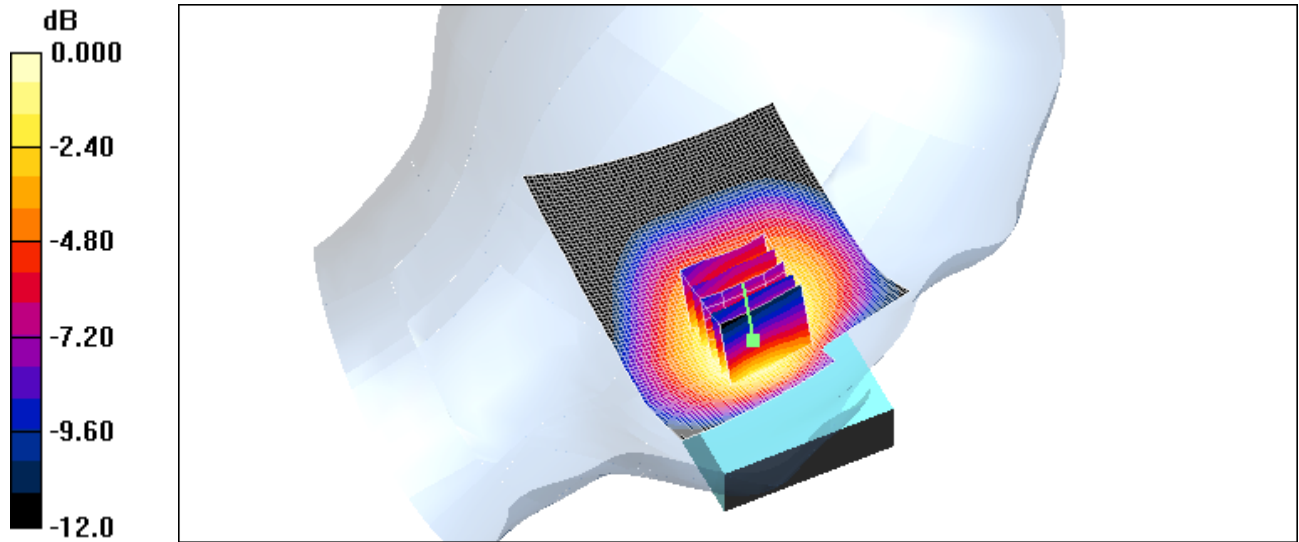
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (61x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.899 mW/g

**Touch position -/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 = 0.141 dB  
Peak SAR (extrapolated) = 1.16 W/kg  
**SAR(1 g) = 0.833 mW/g; SAR(10 g) = 0.584 mW/g**  
Maximum value of SAR (measured) = 0.884 mW/g

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0 dB = 0.884mW/g

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Date/Time: 6/23/2010 10:50:53 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE850\_mid\_chan\_amb\_temp\_22.8\_liq\_temp\_22.0C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.861$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.936 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 8.08 V/m; Power Drift = 0.053 dB

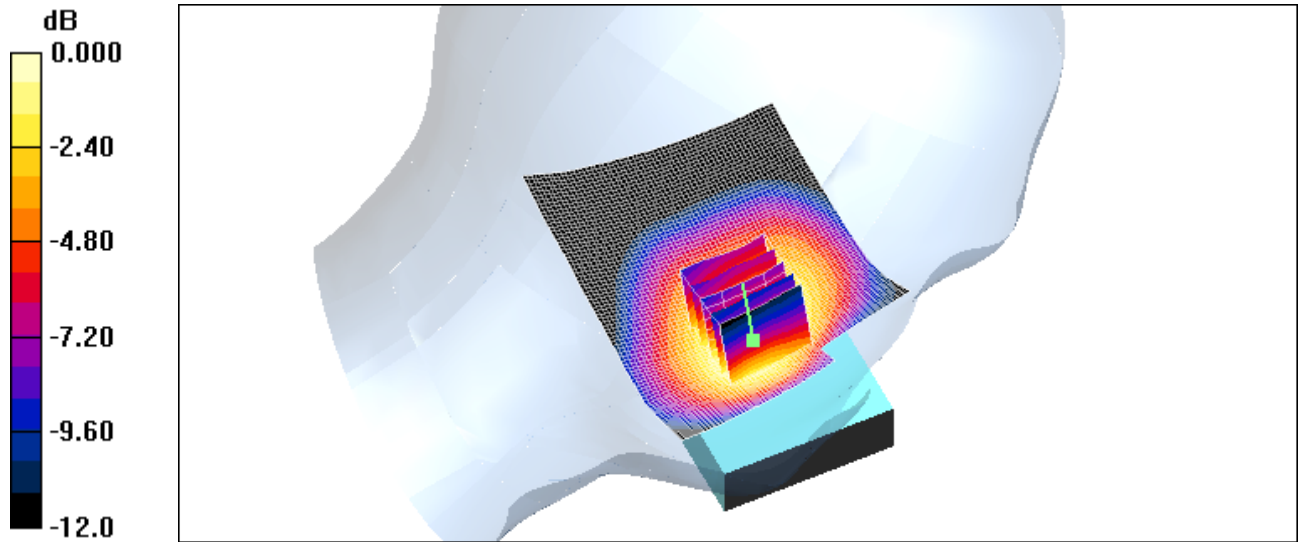
Peak SAR (extrapolated) = 1.26 W/kg

**SAR(1 g) = 0.880 mW/g; SAR(10 g) = 0.617 mW/g**


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

Maximum value of SAR (measured) = 0.933 mW/g

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0 dB = 0.933mW/g

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Date/Time: 6/23/2010 11:07:34 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE850\_high\_chan\_amb\_temp\_23.0\_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.886$  mho/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.07 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 8.88 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.708 mW/g**

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

Maximum value of SAR (measured) = 1.08 mW/g



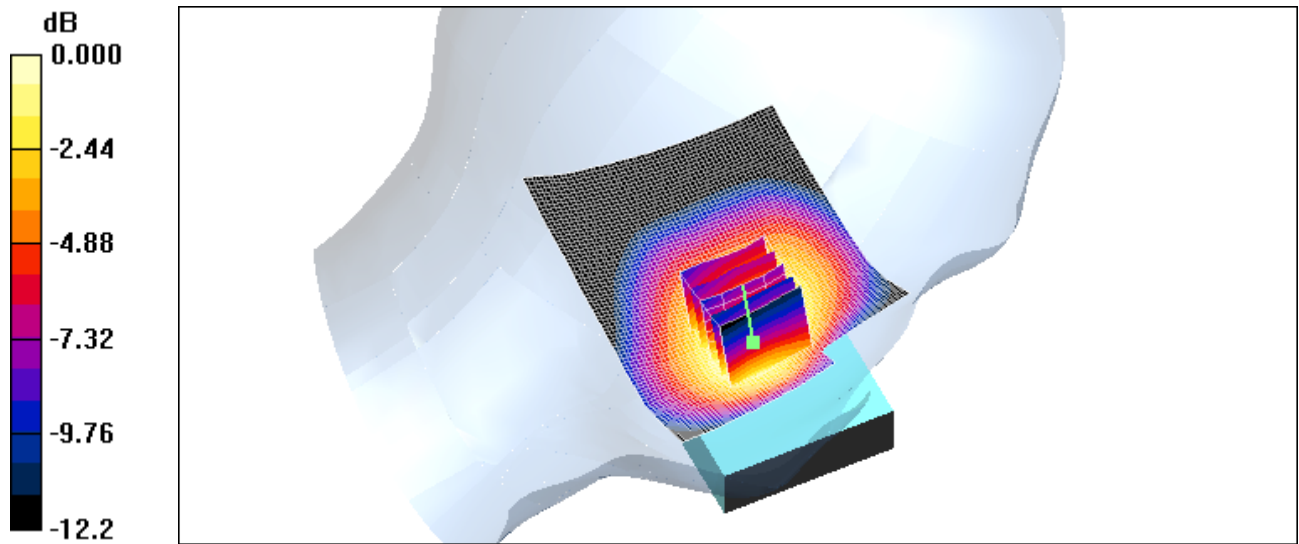
Author Data  
**Andrew Becker**

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**June 10– June 24 & July 15, 2010**


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0 dB = 1.08mW/g

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Date/Time: 6/23/2010 11:46:32 AM

Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_EDGE850\_high\_chan\_amb\_temp\_23.5\_liq\_temp\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.886$  mho/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.674 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 14.6 V/m; Power Drift = 0.107 dB

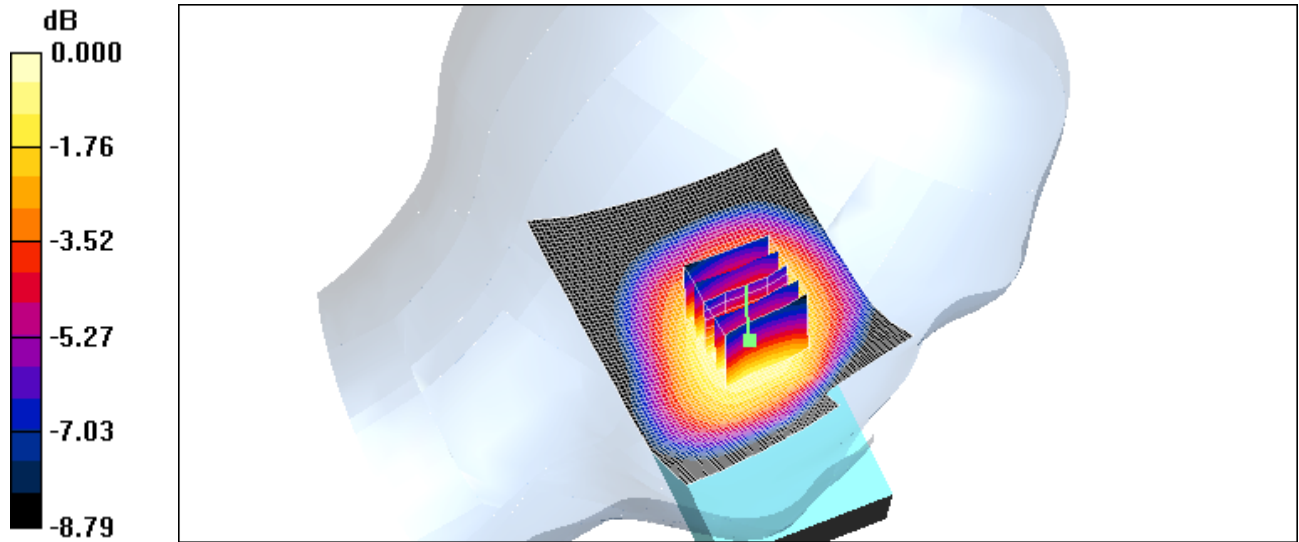
Peak SAR (extrapolated) = 0.780 W/kg

**SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.479 mW/g**


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

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

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0 dB = 0.668mW/g

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<b>Andrew Becker</b>	<b>June 10– June 24 &amp; July 15, 2010</b>	<b>RTS-1689-1007-38</b>	<b>L6ARC70UW</b>	<b>2503A-RCN70UW</b>

Date/Time: 6/15/2010 4:44:32 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_UMTS\_band\_IV\_low\_chan\_amb\_temp\_22.9\_liq\_temp\_2 1.9C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.28$  mho/m;  $\epsilon_r = 41.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.860 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 11.3 V/m; Power Drift = -0.060 dB

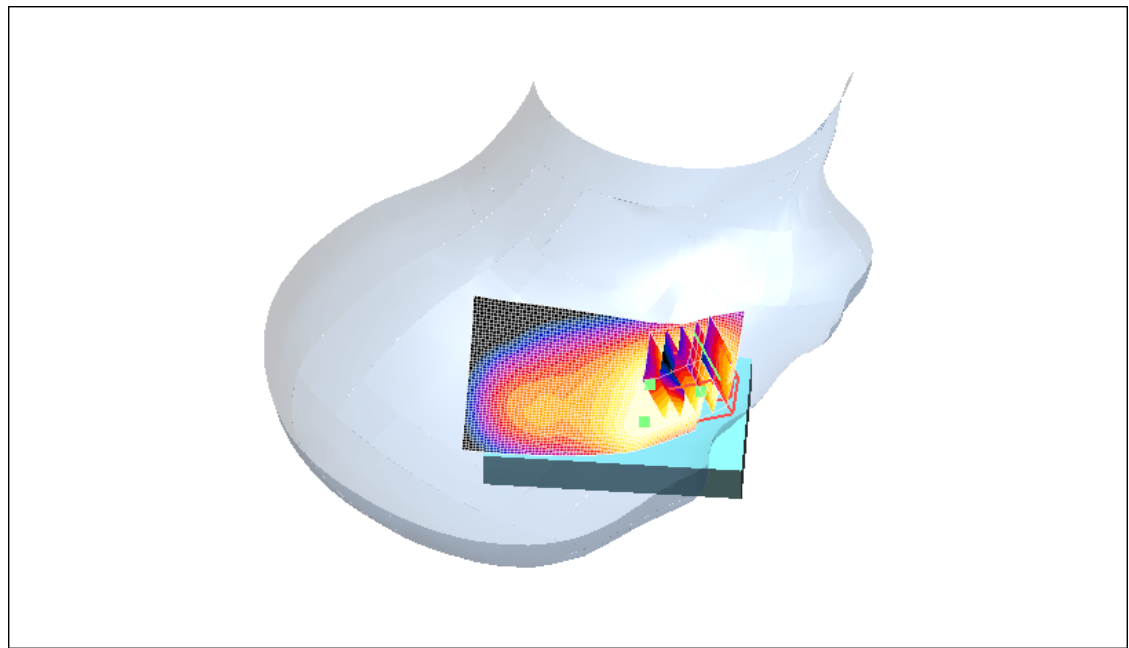
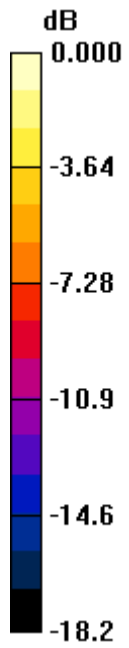
Peak SAR (extrapolated) = 1.23 W/kg

**SAR(1 g) = 0.709 mW/g; SAR(10 g) = 0.350 mW/g**


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

Maximum value of SAR (measured) = 0.794 mW/g

Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>	IC ID <b>2503A-RCN70UW</b>
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0 dB = 0.794mW/g

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<b>Andrew Becker</b>	<b>June 10– June 24 &amp; July 15, 2010</b>	<b>RTS-1689-1007-38</b>	<b>L6ARCN70UW</b>	<b>2503A-RCN70UW</b>

Date/Time: 6/15/2010 4:59:01 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_UMTS\_band\_IV\_mid\_chan\_amb\_temp\_23.1\_liq\_temp\_2 2.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.3$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.948 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 11.9 V/m; Power Drift = 0.010 dB

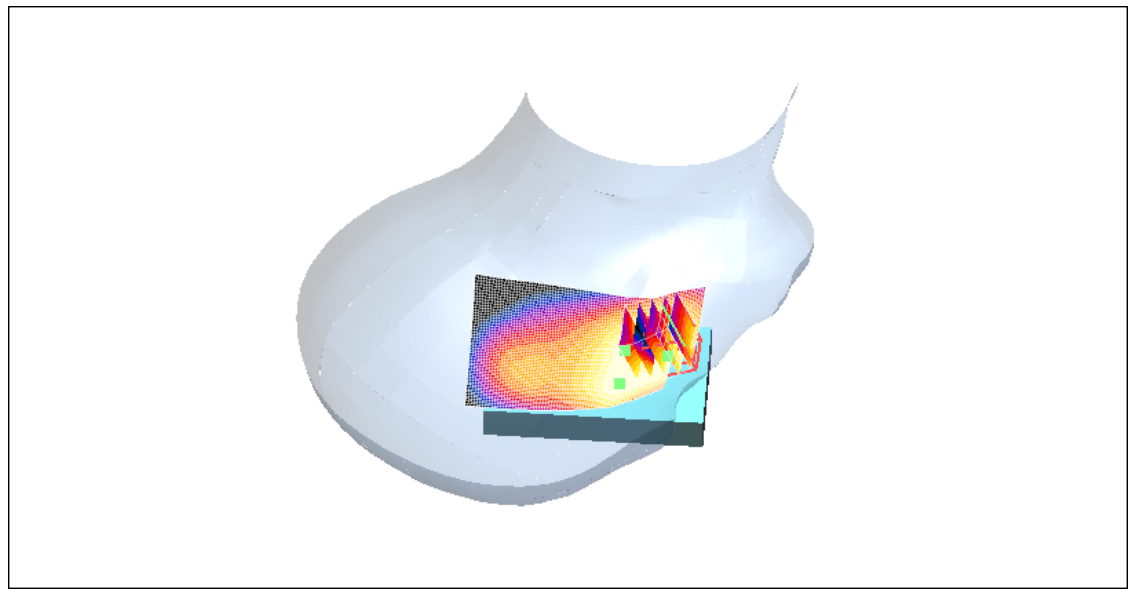
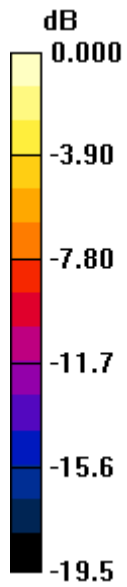
Peak SAR (extrapolated) = 1.39 W/kg

**SAR(1 g) = 0.802 mW/g; SAR(10 g) = 0.389 mW/g**


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

Maximum value of SAR (measured) = 0.903 mW/g

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0 dB = 0.903mW/g

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<b>Andrew Becker</b>	<b>June 10– June 24 &amp; July 15, 2010</b>	<b>RTS-1689-1007-38</b>	<b>L6ARCN70UW</b>	<b>2503A-RCN70UW</b>

Date/Time: 6/15/2010 5:12:28 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_UMTS\_band\_IV\_high\_chan\_amb\_temp\_23.2\_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1752.6$  MHz;  $\sigma = 1.31$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.946 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 12.3 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 1.23 W/kg

**SAR(1 g) = 0.881 mW/g; SAR(10 g) = 0.556 mW/g**

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

Maximum value of SAR (measured) = 0.932 mW/g



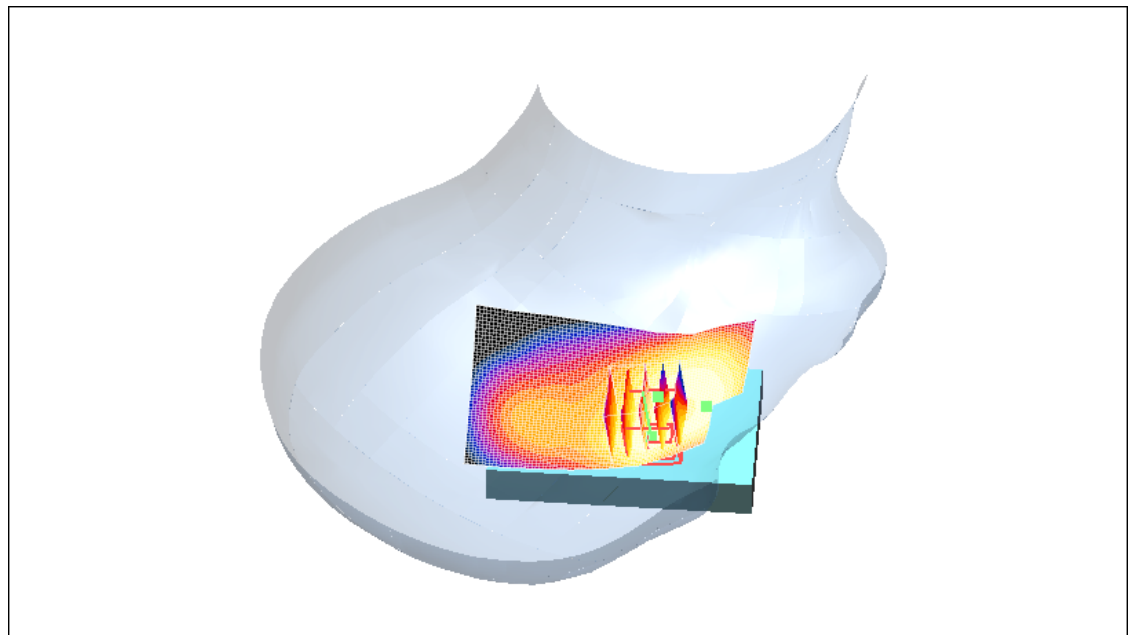
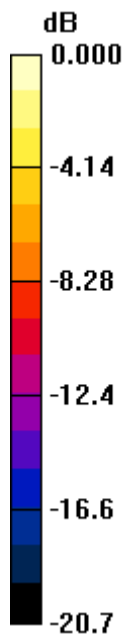
Author Data  
**Andrew Becker**

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**RTS-1689-1007-38**

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0 dB = 0.932mW/g

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Date/Time: 6/15/2010 5:31:27 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_Tilt\_UMTS\_band\_IV\_high\_chan\_amb\_temp\_23.1\_liq\_tem mp\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1752.6$  MHz;  $\sigma = 1.31$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.386 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 16.1 V/m; Power Drift = 0.028 dB

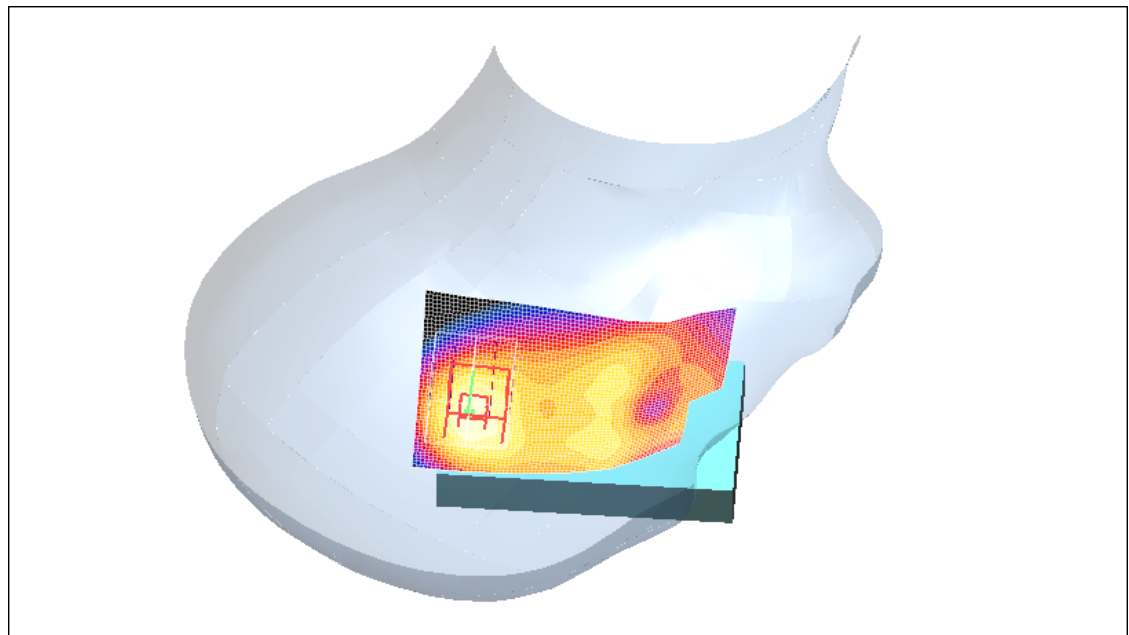
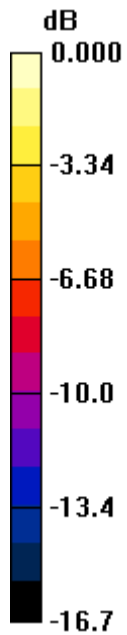
Peak SAR (extrapolated) = 0.514 W/kg

**SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.203 mW/g**


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

Maximum value of SAR (measured) = 0.378 mW/g

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0 dB = 0.378mW/g

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Date/Time: 6/15/2010 2:56:39 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_UMTS\_band\_IV\_low\_chan\_amb\_temp\_22.5\_liq\_temp\_21.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.28$  mho/m;  $\epsilon_r = 41.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

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

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 10.1 V/m; Power Drift = 0.043 dB

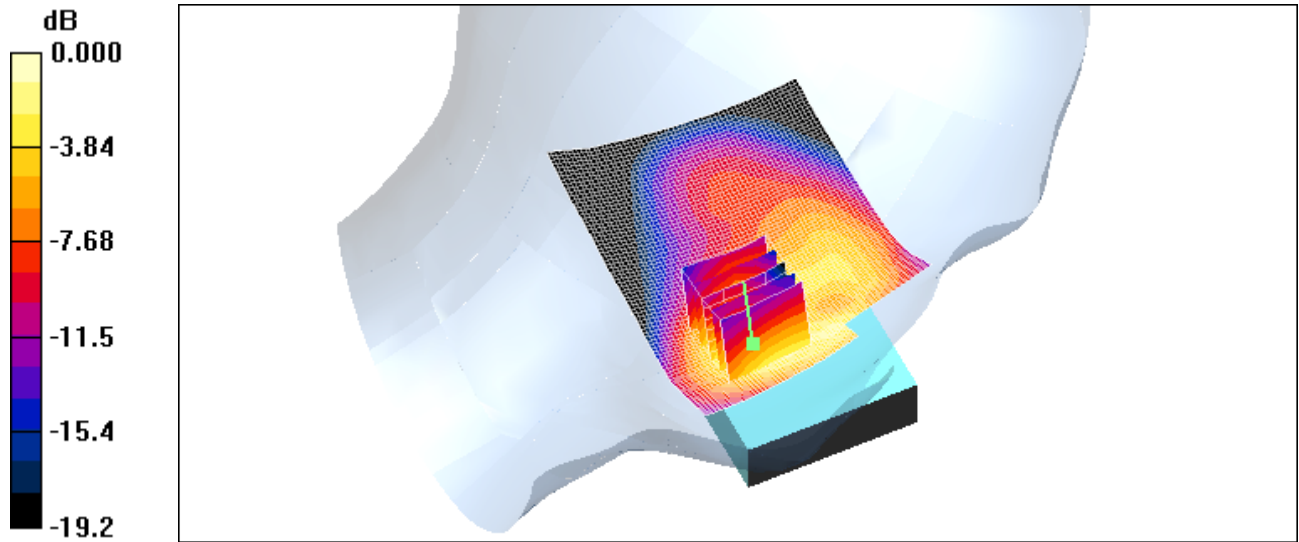
Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.950 mW/g; SAR(10 g) = 0.548 mW/g**


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

Maximum value of SAR (measured) = 1.03 mW/g

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0 dB = 1.03mW/g

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Date/Time: 6/15/2010 3:15:10 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_UMTS\_band\_IV\_mid\_chan\_amb\_temp\_22.9\_liq\_temp\_21 .5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.3$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.23 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 11.2 V/m; Power Drift = 0.001 dB

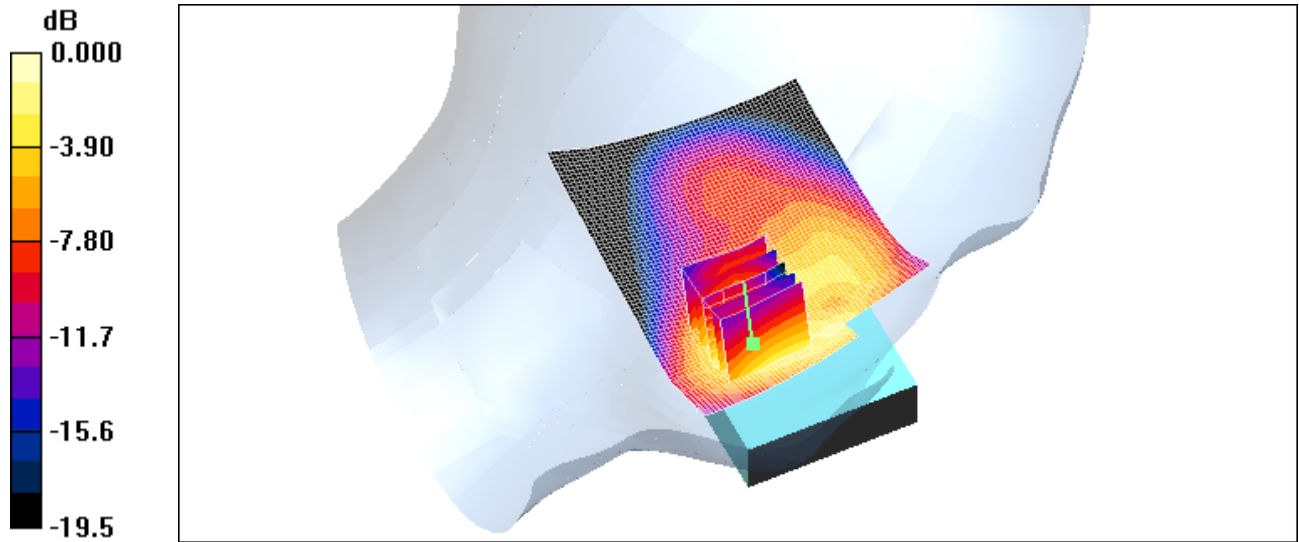
Peak SAR (extrapolated) = 1.73 W/kg

**SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.651 mW/g**


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

Maximum value of SAR (measured) = 1.23 mW/g

Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>	IC ID <b>2503A-RCN70UW</b>
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0 dB = 1.23mW/g

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Date/Time: 6/15/2010 3:29:41 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_UMTS\_band\_IV\_high\_chan\_amb\_temp\_22.9\_liq\_temp\_2 1.7C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1752.6$  MHz;  $\sigma = 1.31$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.30 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 12.0 V/m; Power Drift = 0.081 dB

Peak SAR (extrapolated) = 1.80 W/kg

**SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.688 mW/g**

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

Maximum value of SAR (measured) = 1.31 mW/g



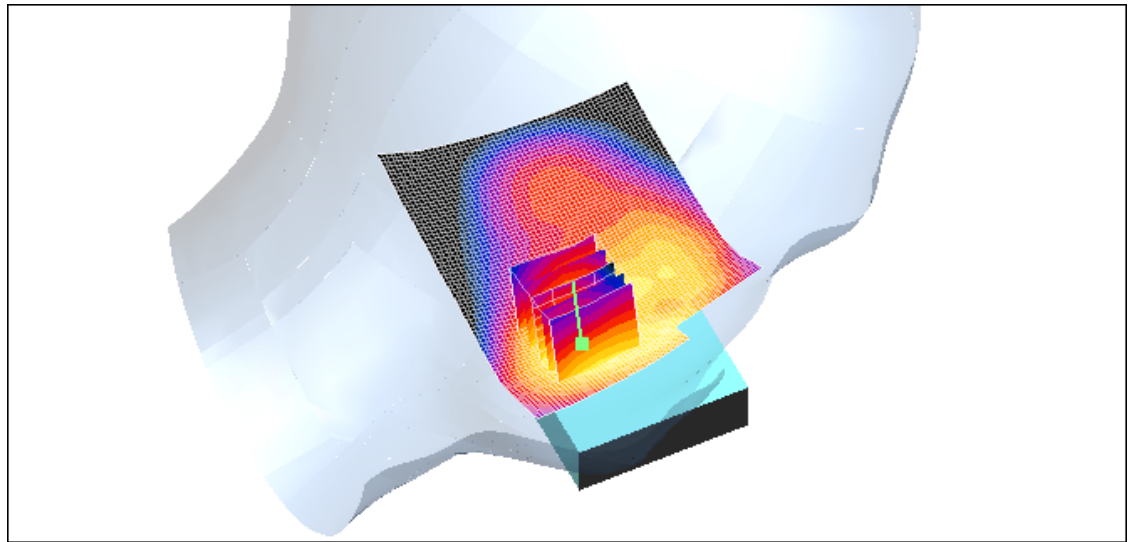
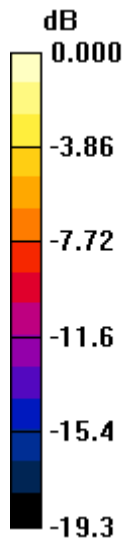
Author Data  
**Andrew Becker**

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0 dB = 1.31mW/g

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<b>Andrew Becker</b>	<b>June 10– June 24 &amp; July 15, 2010</b>	<b>RTS-1689-1007-38</b>	<b>L6ARC70UW</b>	<b>2503A-RCN70UW</b>

Date/Time: 6/15/2010 3:46:12 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_UMTS\_band\_IV\_high\_chan\_amb\_temp\_22.8\_liq\_tem  
p\_21.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1752.6$  MHz;  $\sigma = 1.31$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.375 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 16.6 V/m; Power Drift = 0.011 dB

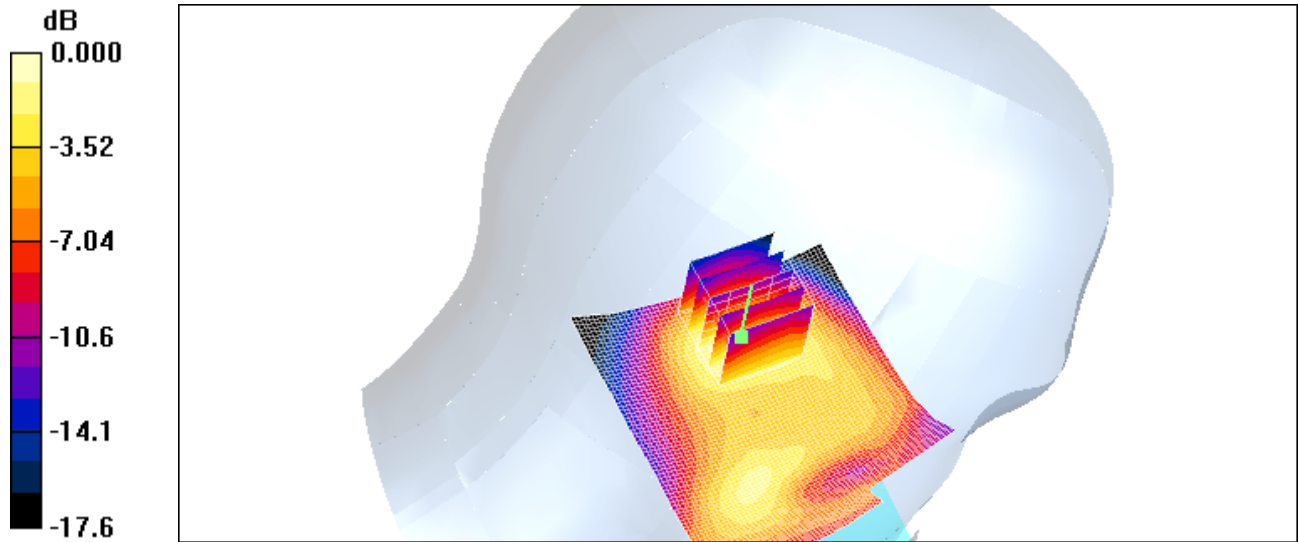
Peak SAR (extrapolated) = 0.502 W/kg

**SAR(1 g) = 0.331 mW/g; SAR(10 g) = 0.196 mW/g**


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

Maximum value of SAR (measured) = 0.368 mW/g

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0 dB = 0.368mW/g

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Date/Time: 7/15/2010 8:01:19 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_UMTS\_band**

**IV\_high\_chan\_amb\_temp\_22.8\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 228EB762**

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1752.6 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 40.8$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.47 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 11.9 V/m; Power Drift = -0.054 dB

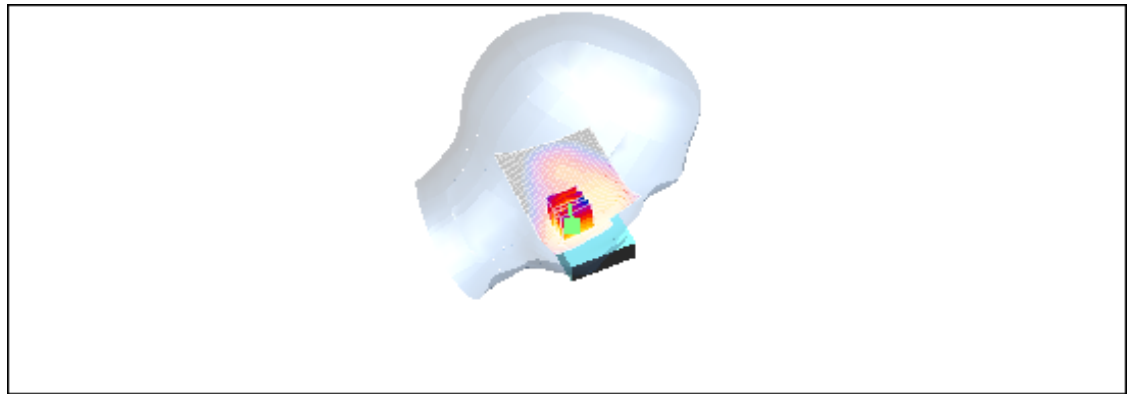
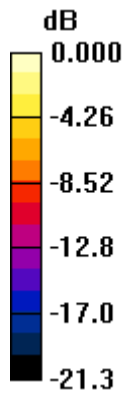
Peak SAR (extrapolated) = 1.99 W/kg

**SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.773 mW/g**


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

Maximum value of SAR (measured) = 1.47 mW/g

Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>	IC ID <b>2503A-RCN70UW</b>
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0 dB = 1.47mW/g

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Date/Time: 7/15/2010 8:30:55 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_UMTS\_band\_IV\_high\_chan\_amb\_temp\_22.8\_liq\_temp\_22.0C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 228EB762**

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1752.6$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.993 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 12.5 V/m; Power Drift = -0.073 dB

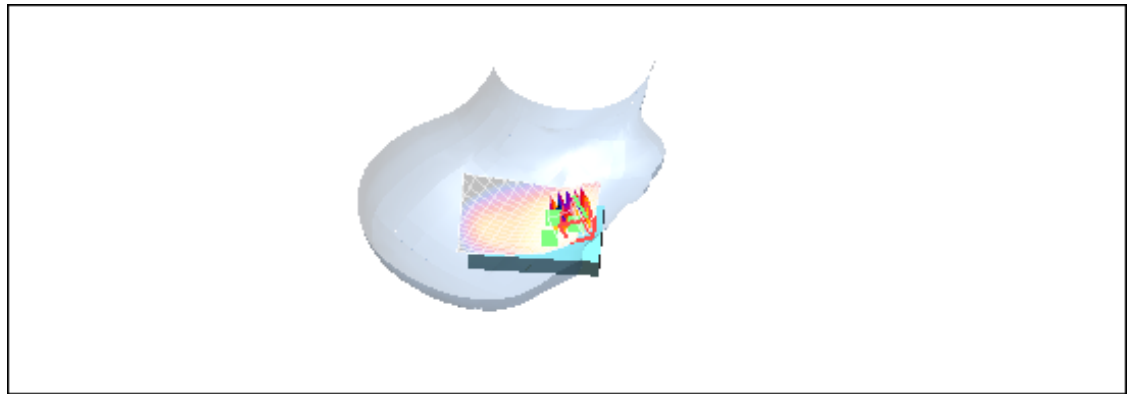
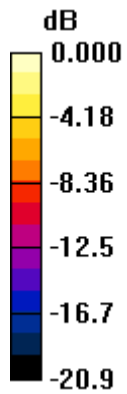
Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 0.849 mW/g; SAR(10 g) = 0.424 mW/g**


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

Maximum value of SAR (measured) = 1.03 mW/g

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0 dB = 1.03mW/g

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<b>Andrew Becker</b>	<b>June 10– June 24 &amp; July 15, 2010</b>	<b>RTS-1689-1007-38</b>	<b>L6ARCN70UW</b>	<b>2503A-RCN70UW</b>

Date/Time: 6/15/2010 11:11:55 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_EDGE1900\_mid\_chan\_amb\_temp\_23.0\_liq\_temp\_22.0**  
**C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.36 \text{ mho/m}$ ;  $\epsilon_r = 39.6$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

DASY4 Configuration:

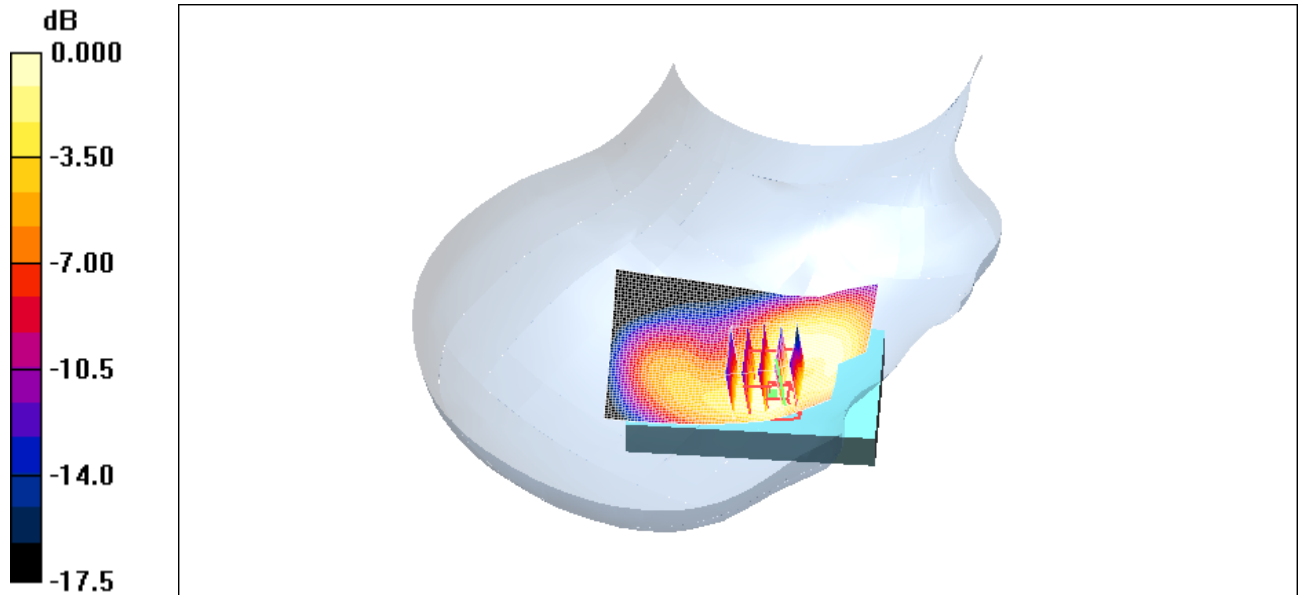
- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.530 mW/g


**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
 $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 10.5 V/m; Power Drift = -0.154 dB  
Peak SAR (extrapolated) = 0.711 W/kg  
**SAR(1 g) = 0.473 mW/g; SAR(10 g) = 0.291 mW/g**  
Maximum value of SAR (measured) = 0.509 mW/g



Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>	IC ID <b>2503A-RCN70UW</b>
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0 dB = 0.509mW/g

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Date/Time: 6/15/2010 11:29:53 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_Tilt\_EDGE1900\_mid\_chan\_amb\_temp\_22.8\_liq\_temp\_2 1.8C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

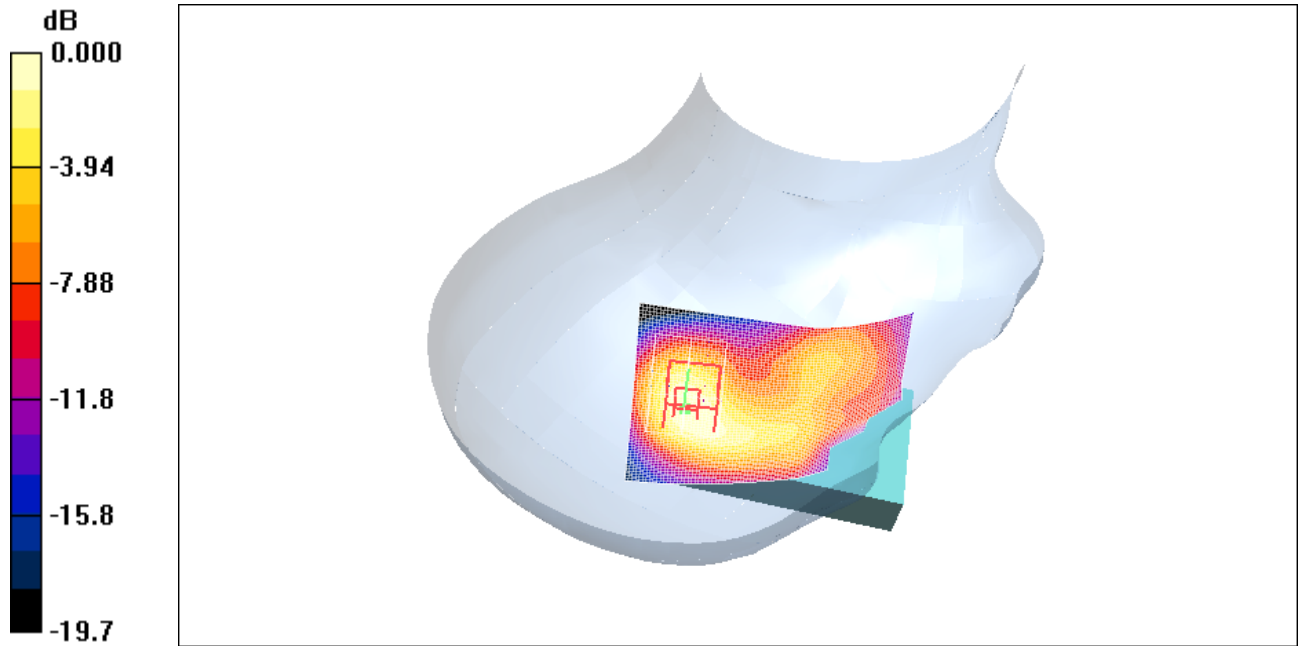
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.303 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 14.0 V/m; Power Drift = 0.000 dB  
Peak SAR (extrapolated) = 0.431 W/kg  
**SAR(1 g) = 0.274 mW/g; SAR(10 g) = 0.161 mW/g**  
Maximum value of SAR (measured) = 0.306 mW/g

Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>	IC ID <b>2503A-RCN70UW</b>
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0 dB = 0.306mW/g

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Date/Time: 6/16/2010 12:22:17 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE1900\_low\_chan\_amb\_temp\_23.2\_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.28$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.00 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 11.1 V/m; Power Drift = 0.073 dB

Peak SAR (extrapolated) = 1.40 W/kg

**SAR(1 g) = 0.888 mW/g; SAR(10 g) = 0.512 mW/g**

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

Maximum value of SAR (measured) = 0.971 mW/g

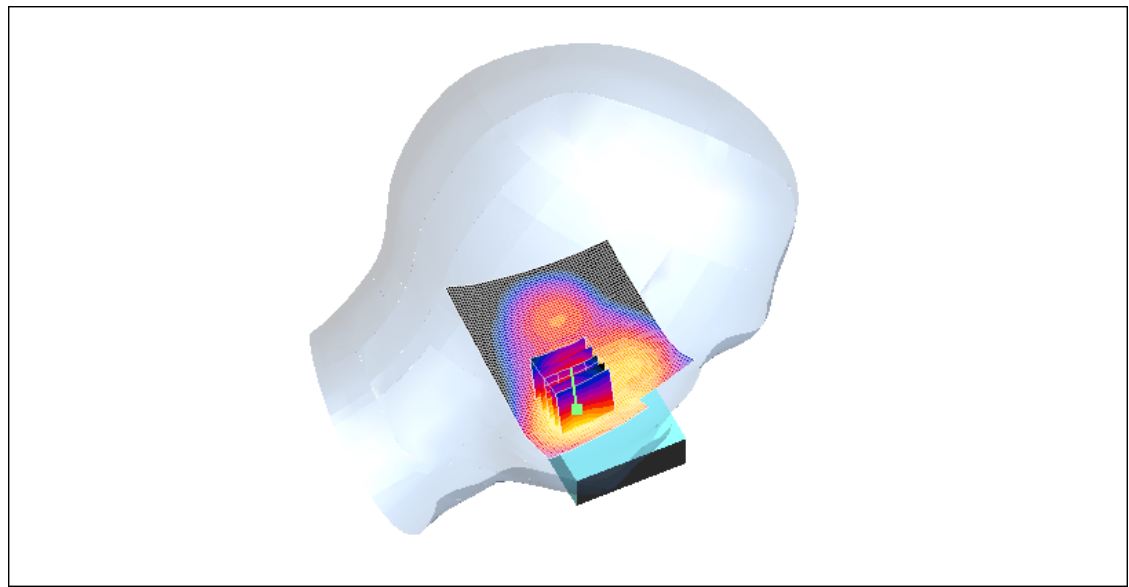
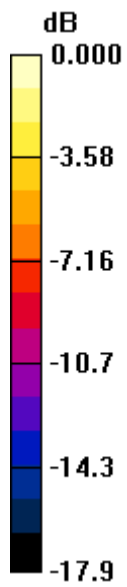
Author Data  
**Andrew Becker**

Dates of Test  
**June 10– June 24 & July 15, 2010**


Test Report No  
**RTS-1689-1007-38**

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**L6ARCN70UW**

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0 dB = 0.971mW/g

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Date/Time: 6/15/2010 11:46:59 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE1900\_mid\_chan\_amb\_temp\_22.6\_liq\_temp\_21.6C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

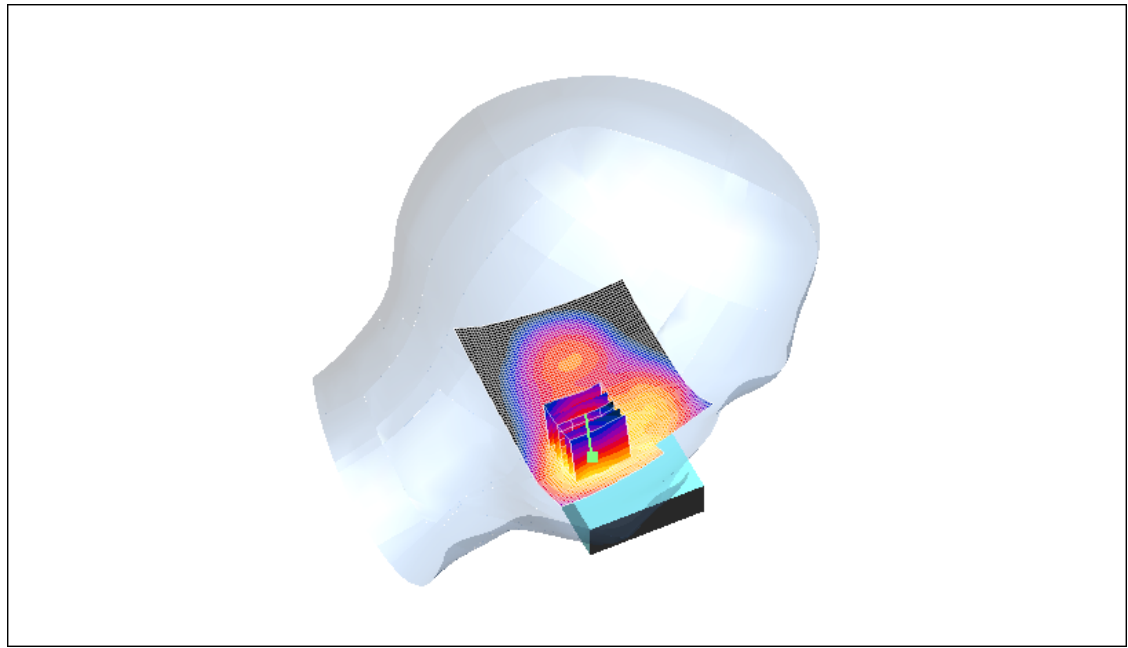
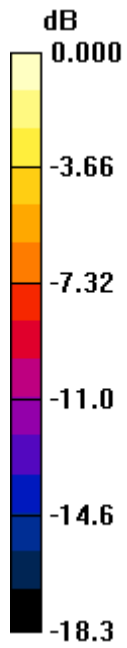
Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.36 \text{ mho/m}$ ;  $\epsilon_r = 39.6$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

DASY4 Configuration:


- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.947 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
 $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 10.7 V/m; Power Drift = -0.079 dB  
Peak SAR (extrapolated) = 1.35 W/kg  
**SAR(1 g) = 0.846 mW/g; SAR(10 g) = 0.474 mW/g**  
Maximum value of SAR (measured) = 0.926 mW/g



0 dB = 0.926mW/g

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Date/Time: 6/16/2010 12:40:09 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE1900\_high\_chan\_amb\_temp\_22.8\_liq\_temp\_21.8C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 40.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

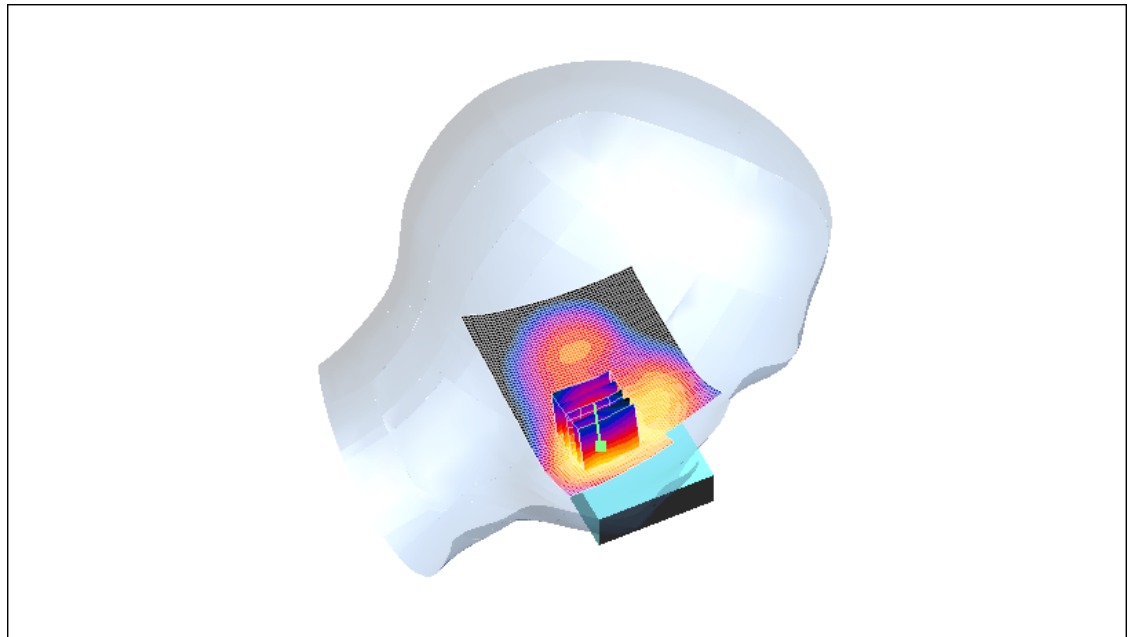
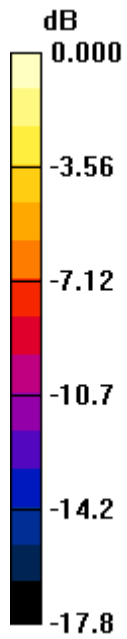
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.823 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 9.83 V/m; Power Drift = 0.073 dB  
Peak SAR (extrapolated) = 1.18 W/kg  
**SAR(1 g) = 0.730 mW/g; SAR(10 g) = 0.410 mW/g**  
Maximum value of SAR (measured) = 0.800 mW/g





0 dB = 0.800mW/g

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Date/Time: 6/16/2010 1:00:00 AM

Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_EDGE1900\_low\_chan\_amb\_temp\_22.5\_liq\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: EDGE 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.28$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.307 mW/g

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

Reference Value = 15.5 V/m; Power Drift = -0.043 dB

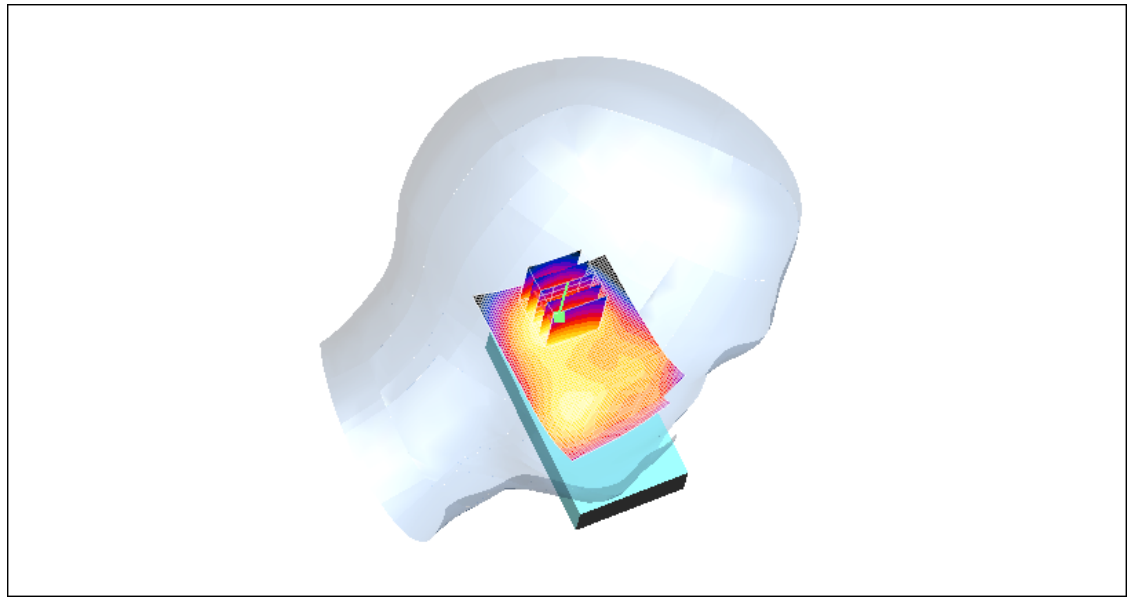
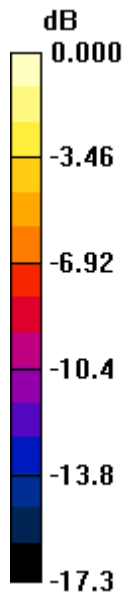
Peak SAR (extrapolated) = 0.438 W/kg

**SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.164 mW/g**


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

Maximum value of SAR (measured) = 0.315 mW/g

Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>	IC ID <b>2503A-RCN70UW</b>
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0 dB = 0.315mW/g

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Date/Time: 6/16/2010 1:20:20 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_GSM1900\_low\_chan\_amb\_temp\_22.4\_liq\_temp\_21.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.28$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.854 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 9.70 V/m; Power Drift = 0.101 dB

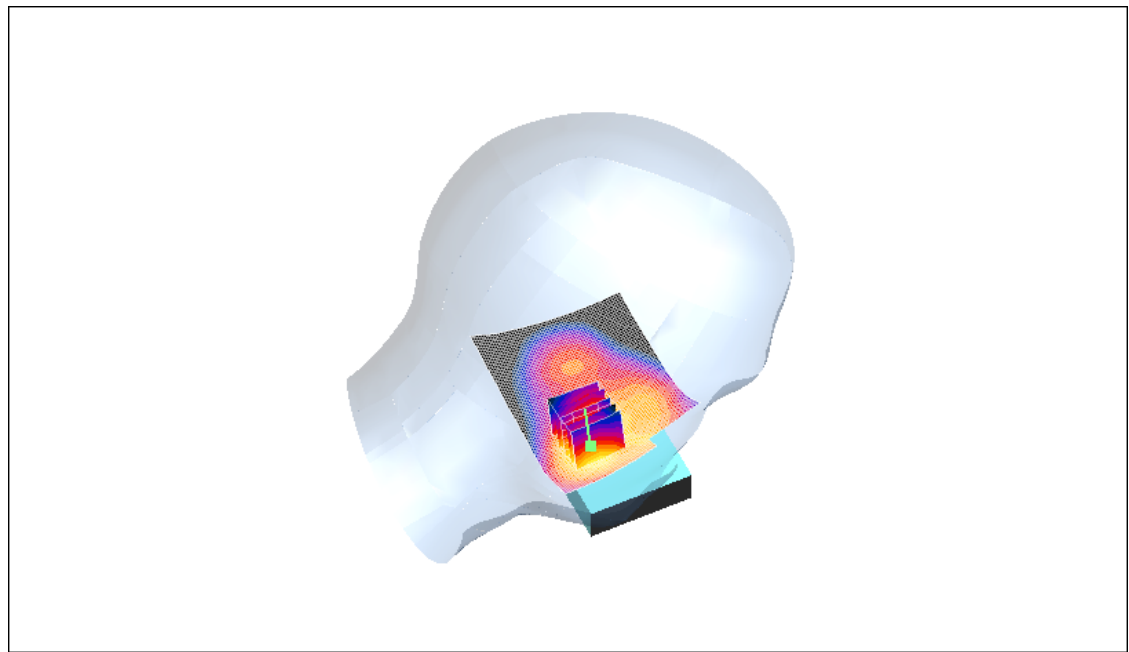
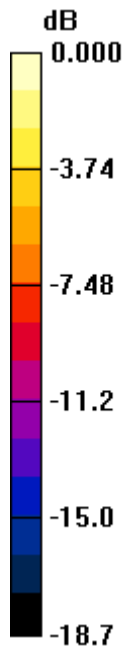
Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.761 mW/g; SAR(10 g) = 0.440 mW/g**


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

Maximum value of SAR (measured) = 0.825 mW/g

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0 dB = 0.825mW/g

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Date/Time: 6/17/2010 12:47:32 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_802.11b\_low\_chan\_amb\_temp\_22.6\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.76$  mho/m;  $\epsilon_r = 39.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.096 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 7.47 V/m; Power Drift = -0.096 dB

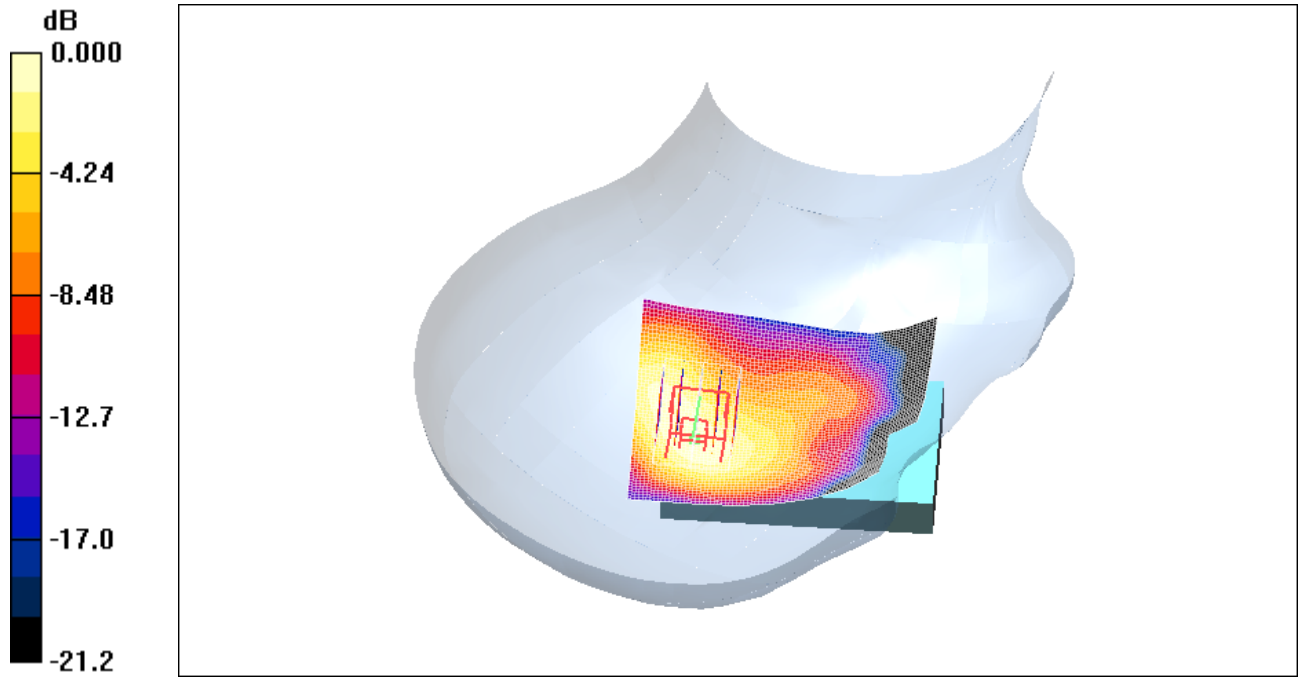
Peak SAR (extrapolated) = 0.155 W/kg

**SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.049 mW/g**


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

Maximum value of SAR (measured) = 0.097 mW/g

Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>	IC ID <b>2503A-RCN70UW</b>
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0 dB = 0.097mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>

Date/Time: 6/17/2010 1:08:07 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_802.11b\_mid\_chan\_amb\_temp\_22.4\_liq\_temp\_21.8C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.9$  mho/m;  $\epsilon_r = 40.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.105 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 7.50 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.177 W/kg

**SAR(1 g) = 0.100 mW/g; SAR(10 g) = 0.055 mW/g**

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

Maximum value of SAR (measured) = 0.106 mW/g



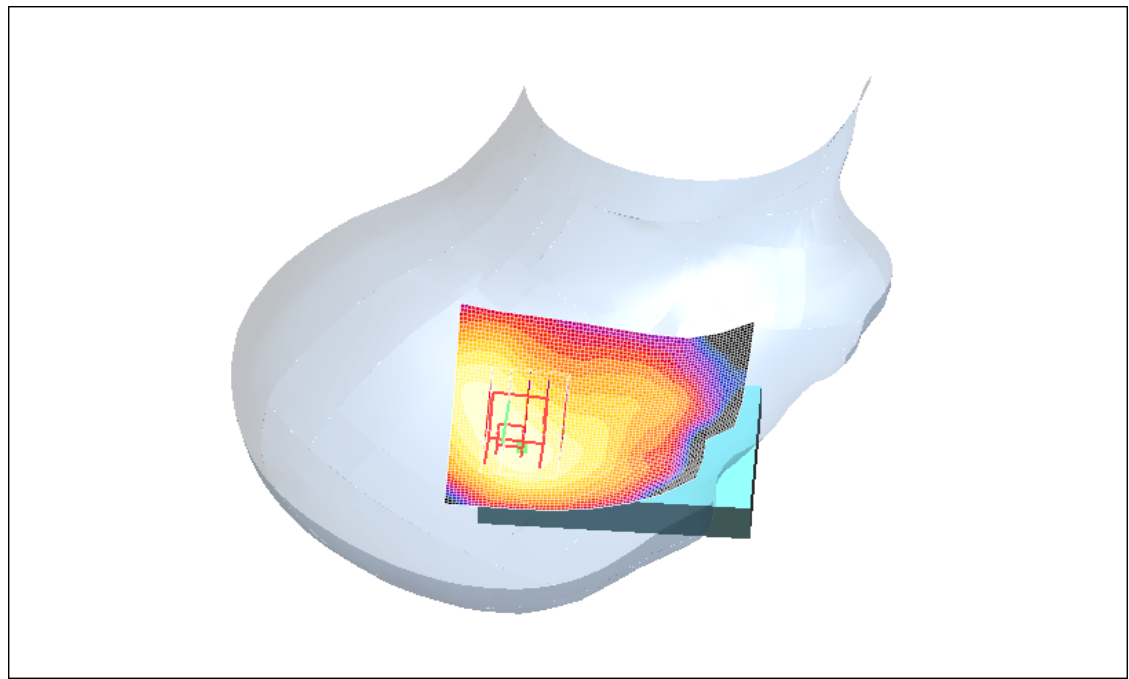
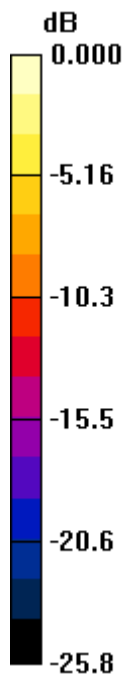
Author Data  
**Andrew Becker**

Dates of Test  
**June 10– June 24 & July 15, 2010**


Test Report No  
**RTS-1689-1007-38**

FCC ID:  
**L6ARC70UW**

IC ID  
**2503A-RCN70UW**



0 dB = 0.106mW/g

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Date/Time: 6/17/2010 1:24:14 AM

Test Laboratory: RIM Testing Services

## RightHandSide\_802.11b\_high\_chan\_amb\_temp\_22.7\_liq\_temp\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.77$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.111 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 7.83 V/m; Power Drift = 0.067 dB

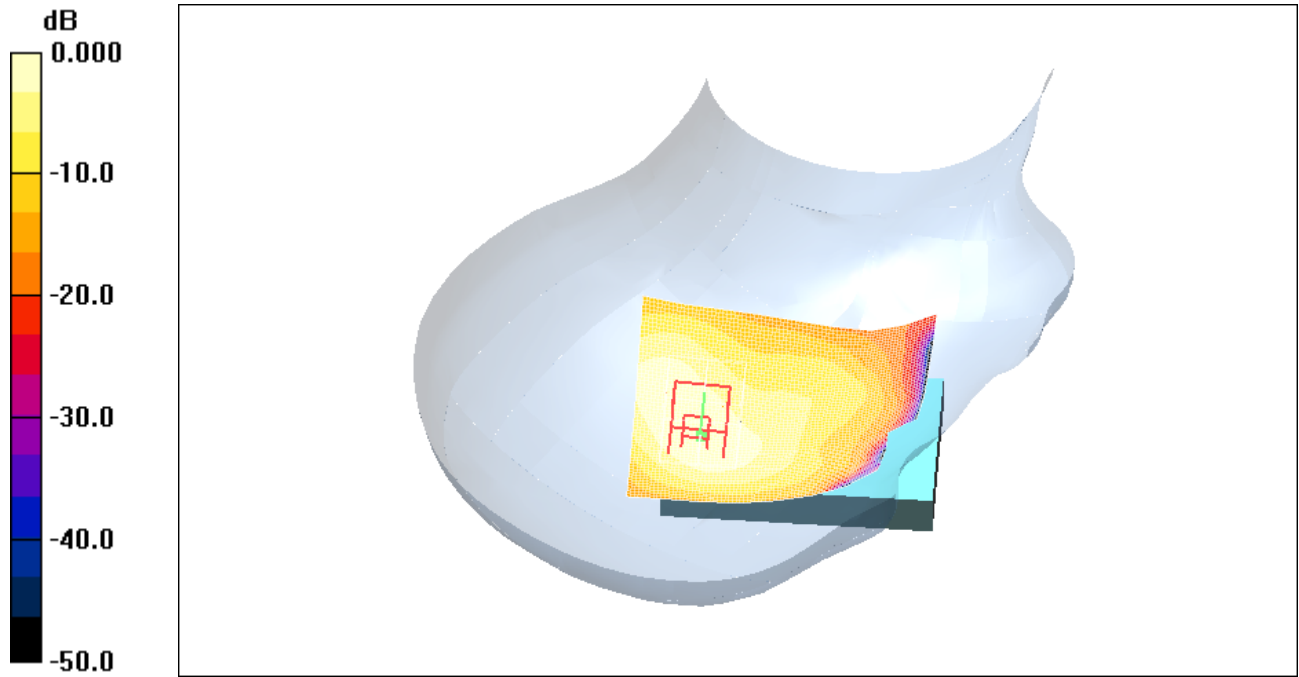
Peak SAR (extrapolated) = 0.177 W/kg

**SAR(1 g) = 0.100 mW/g; SAR(10 g) = 0.055 mW/g**


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

Maximum value of SAR (measured) = 0.108 mW/g

Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>	IC ID <b>2503A-RCN70UW</b>
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0 dB = 0.108mW/g

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Date/Time: 6/17/2010 1:42:57 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_Tilt\_802.11b\_high\_chan\_amb\_temp\_23.3\_liq\_temp\_22.7C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.77$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.117 mW/g

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

Reference Value = 7.88 V/m; Power Drift = -0.019 dB

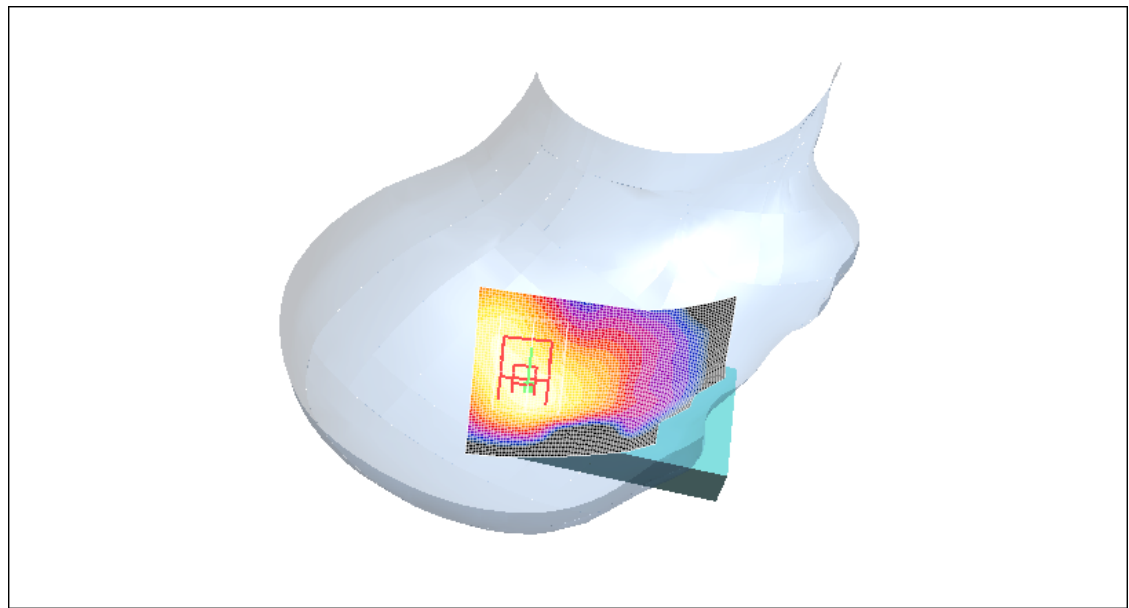
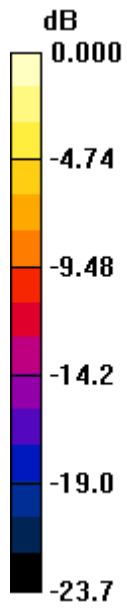
Peak SAR (extrapolated) = 0.197 W/kg

**SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.059 mW/g**


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

Maximum value of SAR (measured) = 0.120 mW/g

Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>	IC ID <b>2503A-RCN70UW</b>
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0 dB = 0.120mW/g

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Date/Time: 6/17/2010 2:20:49 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_802.11b\_high\_chan\_amb\_temp\_22.9\_liq\_temp\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.77$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.140 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 6.23 V/m; Power Drift = 0.215 dB

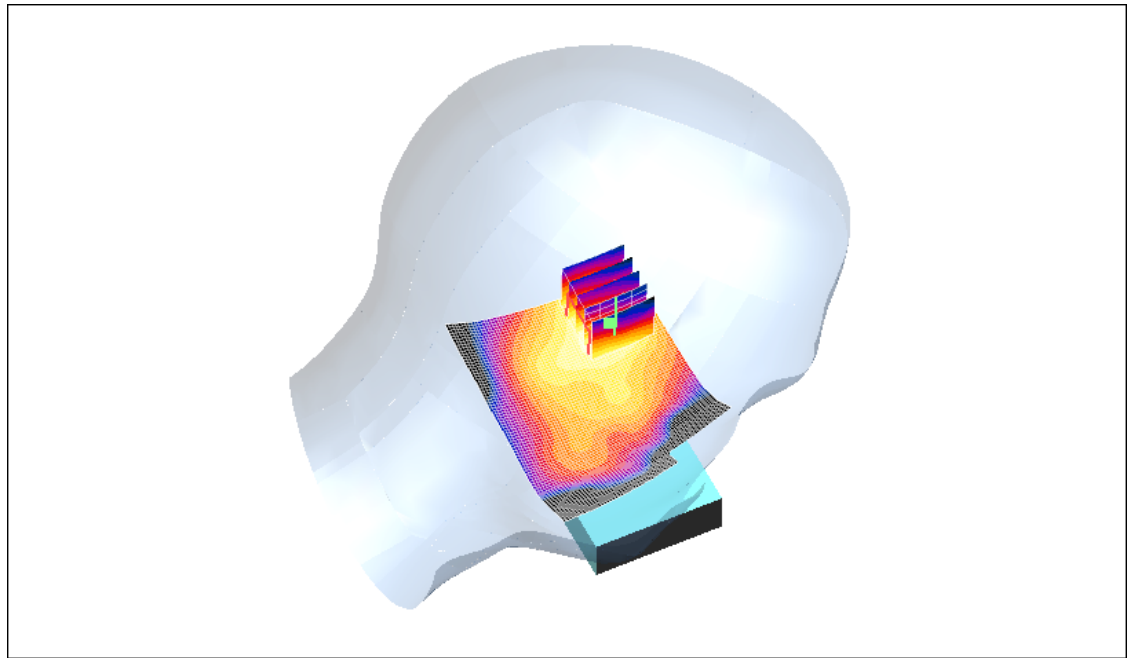
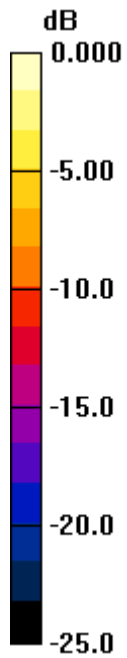
Peak SAR (extrapolated) = 0.298 W/kg

**SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.068 mW/g**


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

Maximum value of SAR (measured) = 0.140 mW/g

Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>	IC ID <b>2503A-RCN70UW</b>
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0 dB = 0.140mW/g

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Date/Time: 6/17/2010 2:01:17 AM

Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_802.11b\_high\_chan\_amb\_temp\_22.6\_liq\_temp\_22.0**

**C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DC9FE**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.77$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.140 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 6.79 V/m; Power Drift = 0.116 dB

Peak SAR (extrapolated) = 0.289 W/kg

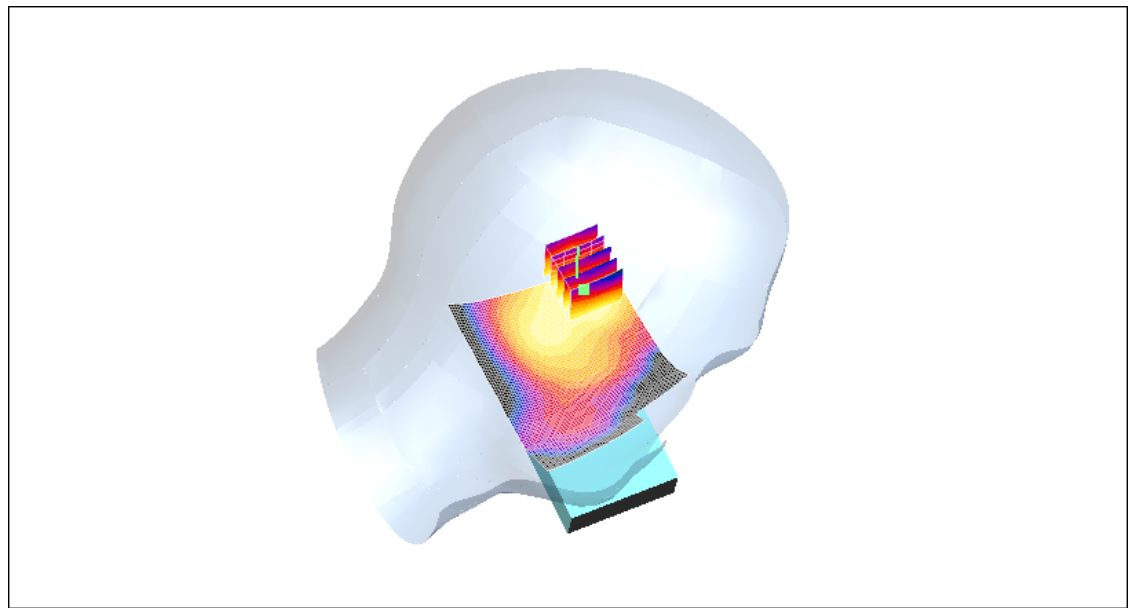
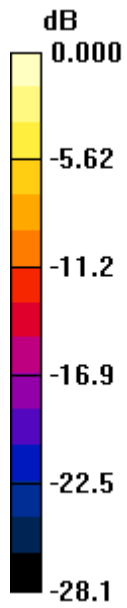
**SAR(1 g) = 0.127 mW/g; SAR(10 g) = 0.065 mW/g**

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

Maximum value of SAR (measured) = 0.130 mW/g



Author Data <b>Andrew Becker</b>	Dates of Test <b>June 10– June 24 &amp; July 15, 2010</b>	Test Report No <b>RTS-1689-1007-38</b>	FCC ID: <b>L6ARCN70UW</b>	IC ID <b>2503A-RCN70UW</b>
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0 dB = 0.130mW/g

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

