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

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<b>Andrew Becker</b>	<b>September 27 – October 26, 2011</b>	<b>RTS-5955-1110-23</b>	<b>L6AREQ70UW</b>	<b>2503A-REQ70UW</b>

Date/Time: 10/6/2011 12:57:37 AM, Date/Time: 10/6/2011 1:03:15 AM

Test Laboratory: RIM Testing Services

## RightHandSide\_EDGE850\_mid\_chan\_amb\_temp\_23.5\_liq\_temp\_23.2C

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.874$  mho/m;  $\epsilon_r = 41.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.471 mW/g

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

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

Reference Value = 7.598 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.612 W/kg

**SAR(1 g) = 0.425 mW/g; SAR(10 g) = 0.290 mW/g**

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

Maximum value of SAR (measured) = 0.489 mW/g

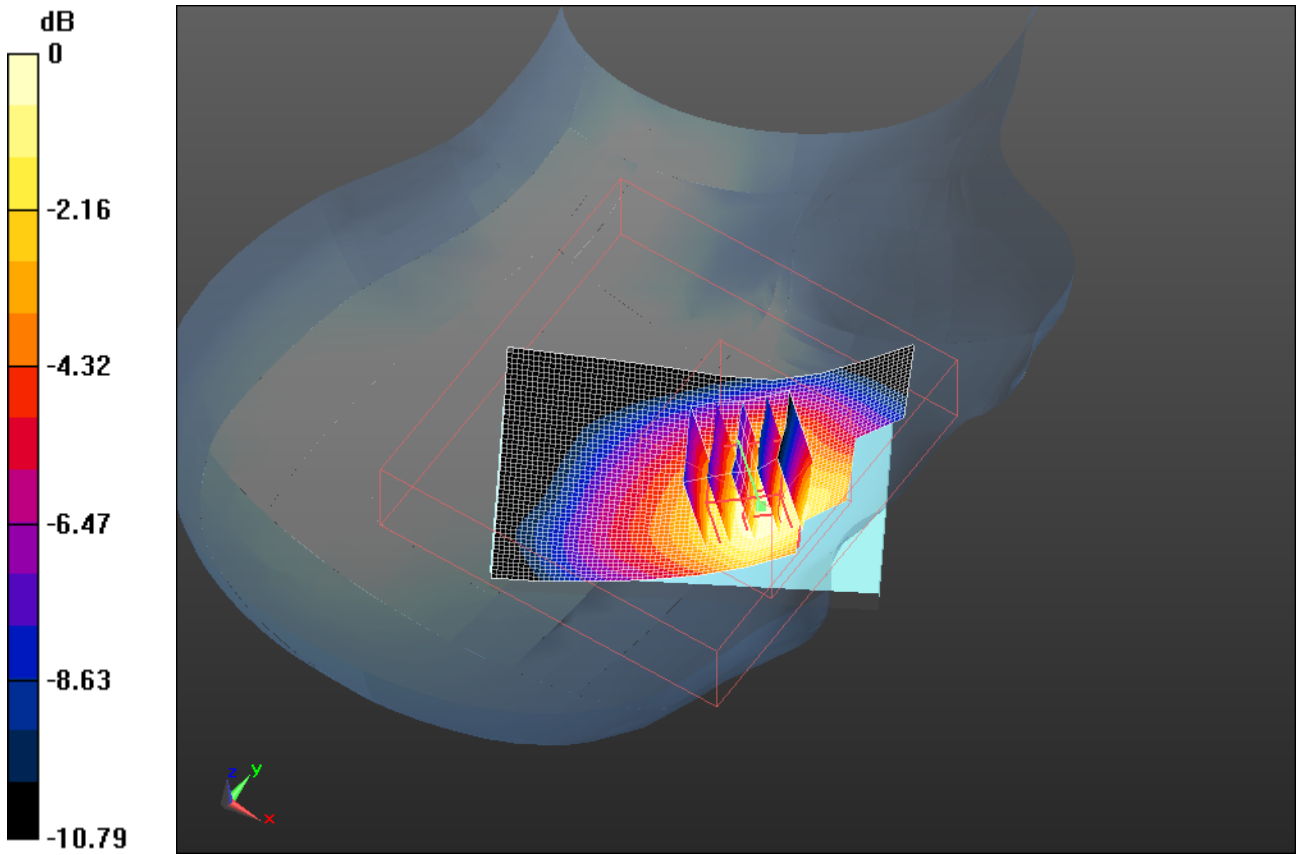
Author Data  
**Andrew Becker**

Dates of Test  
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0 dB = 0.490mW/g

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Date/Time: 10/6/2011 1:15:42 AM, Date/Time: 10/6/2011 1:20:52 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_Tilt\_EDGE850\_mid\_chan\_amb\_temp\_23.5\_liq\_temp\_23  
.2C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.874$  mho/m;  $\epsilon_r = 41.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.267 mW/g

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

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

Reference Value = 13.542 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.306 W/kg

**SAR(1 g) = 0.240 mW/g; SAR(10 g) = 0.184 mW/g**

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

Maximum value of SAR (measured) = 0.266 mW/g

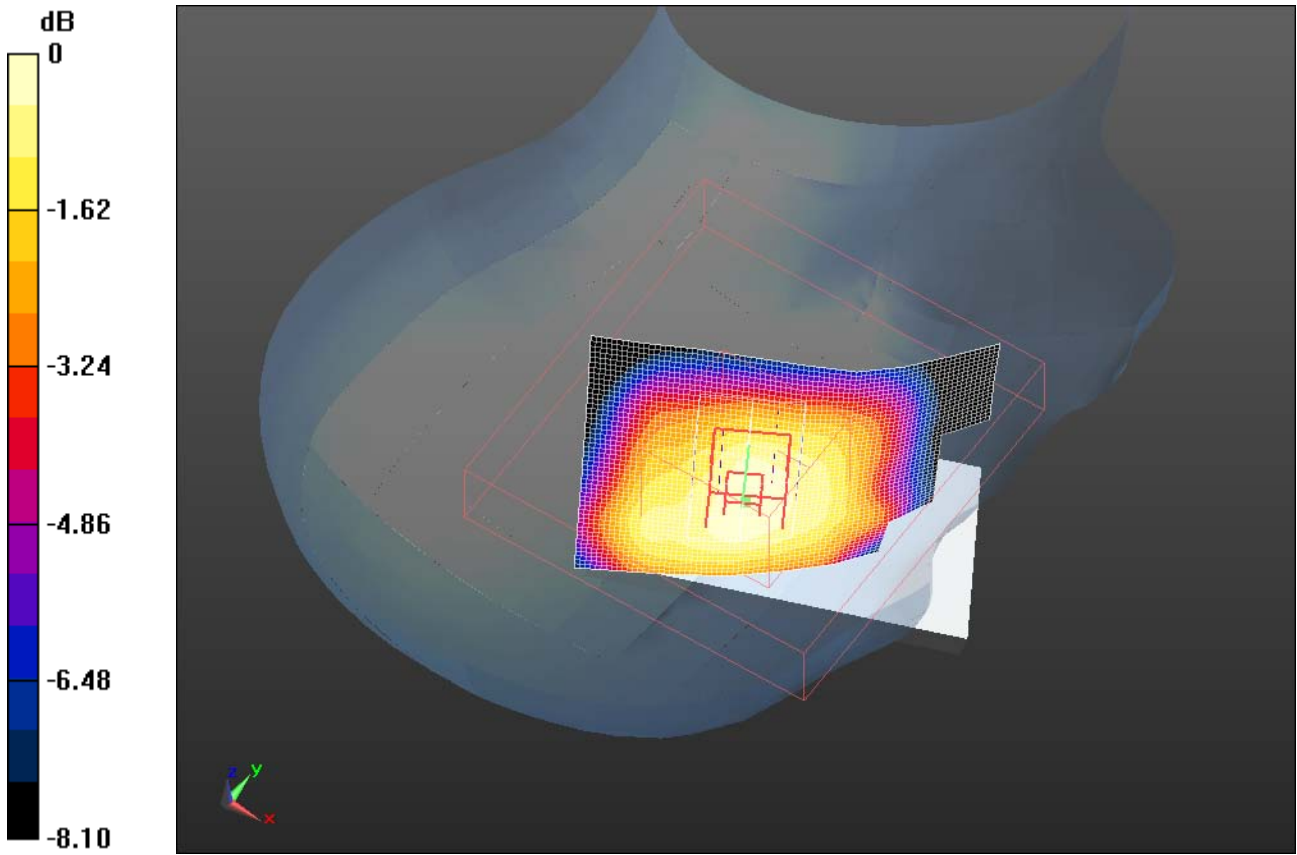
Author Data  
**Andrew Becker**

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0 dB = 0.270mW/g

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Date/Time: 10/5/2011 11:47:53 PM, Date/Time: 10/5/2011 11:52:56 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE850\_mid\_chan\_amb\_temp\_23.5\_liq\_temp\_23.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.874$  mho/m;  $\epsilon_r = 41.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.573 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x6x7)/Cube 0:**

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

Reference Value = 7.610 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.759 W/kg

**SAR(1 g) = 0.479 mW/g; SAR(10 g) = 0.300 mW/g**

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

Maximum value of SAR (measured) = 0.565 mW/g

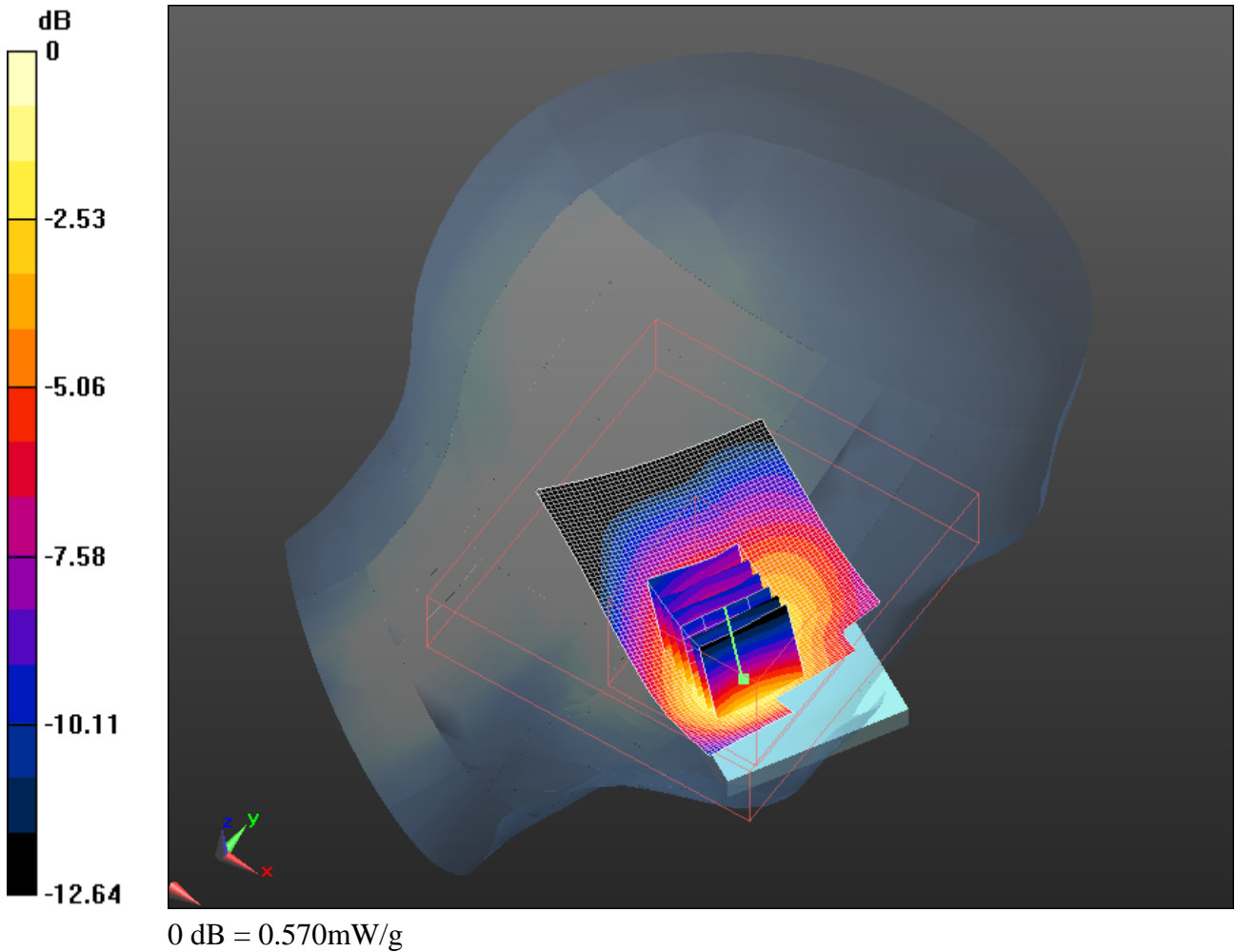
Author Data  
**Andrew Becker**


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Date/Time: 10/6/2011 12:06:56 AM, Date/Time: 10/6/2011 12:24:49 AM

Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_EDGE850\_mid\_chan\_amb\_temp\_23.5\_liq\_temp\_23.2**

**C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.874$  mho/m;  $\epsilon_r = 41.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.278 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (7x9x7)/Cube 0:**

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

Reference Value = 13.249 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.436 W/kg

**SAR(1 g) = 0.255 mW/g; SAR(10 g) = 0.192 mW/g**

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

Maximum value of SAR (measured) = 0.282 mW/g



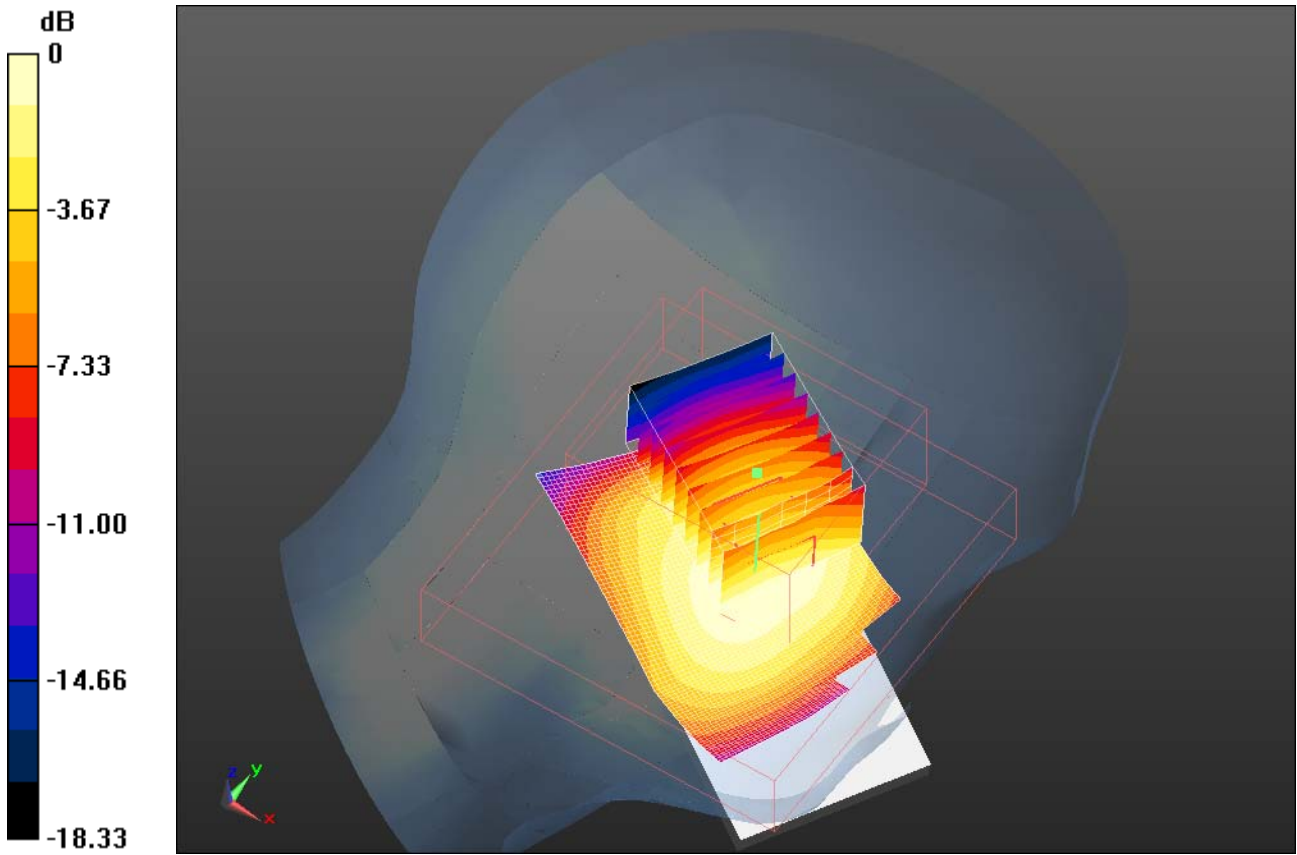
Author Data  
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0 dB = 0.280mW/g

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Date/Time: 10/6/2011 9:14:25 AM, Date/Time: 10/6/2011 9:19:25 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_GSM850\_mid\_chan\_amb\_temp\_23.5\_liq\_temp\_22.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: GSM 850; Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.874$  mho/m;  $\epsilon_r = 41.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.490 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x6x7)/Cube 0:**

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

Reference Value = 7.816 V/m; Power Drift = -0.33 dB

Peak SAR (extrapolated) = 0.608 W/kg

**SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.247 mW/g**

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

Maximum value of SAR (measured) = 0.456 mW/g

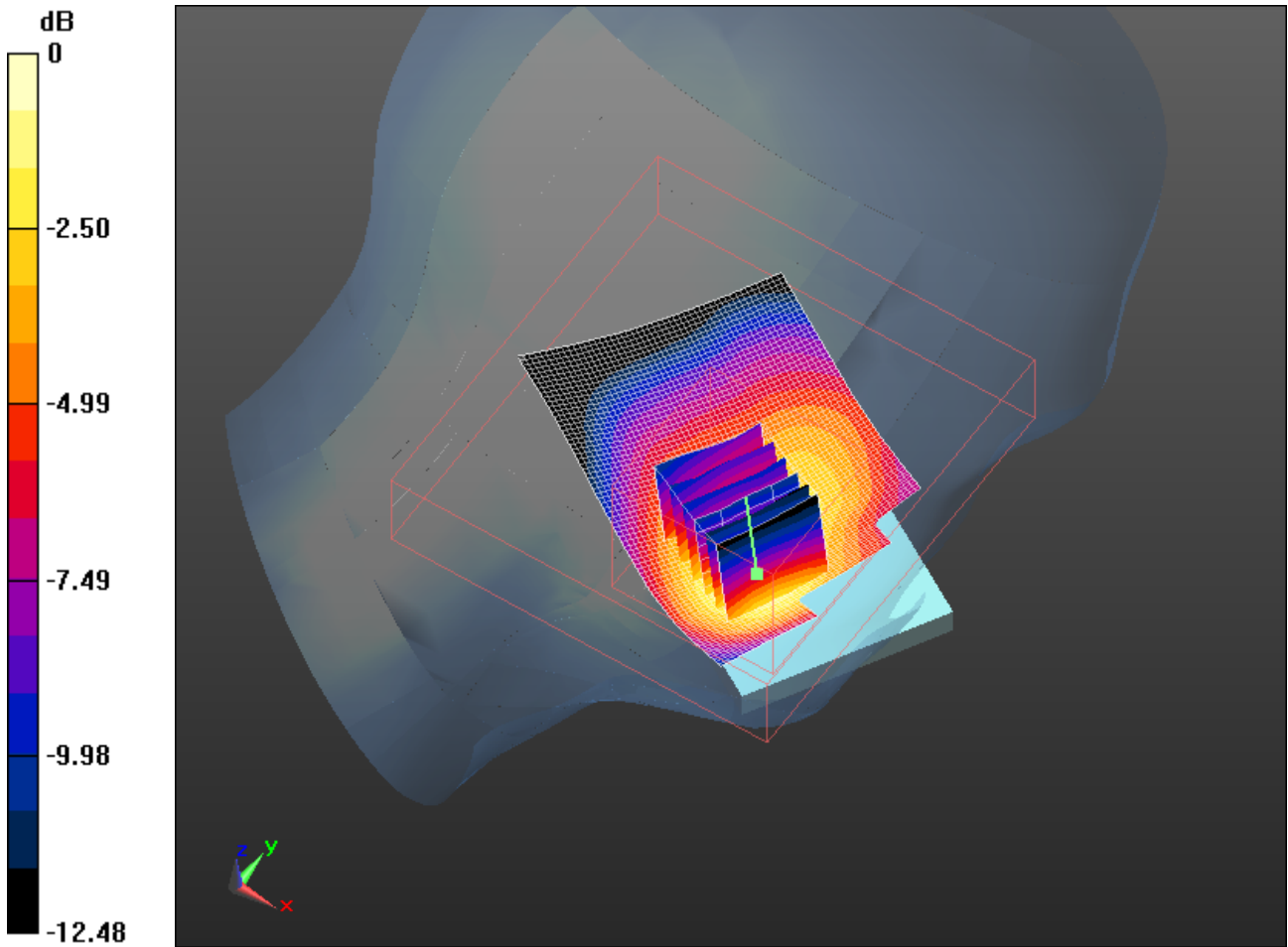
Author Data  
**Andrew Becker**

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0 dB = 0.460mW/g

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Date/Time: 10/6/2011 9:42:13 AM, Date/Time: 10/6/2011 9:55:52 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE850\_3\_slots\_mid\_chan\_amb\_temp\_23.1\_liq\_temp\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: EDGE 850 (3 slots); Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.874$  mho/m;  $\epsilon_r = 41.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.604 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x6x7)/Cube 0:**

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

Reference Value = 9.003 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.818 W/kg

**SAR(1 g) = 0.528 mW/g; SAR(10 g) = 0.337 mW/g**

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

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

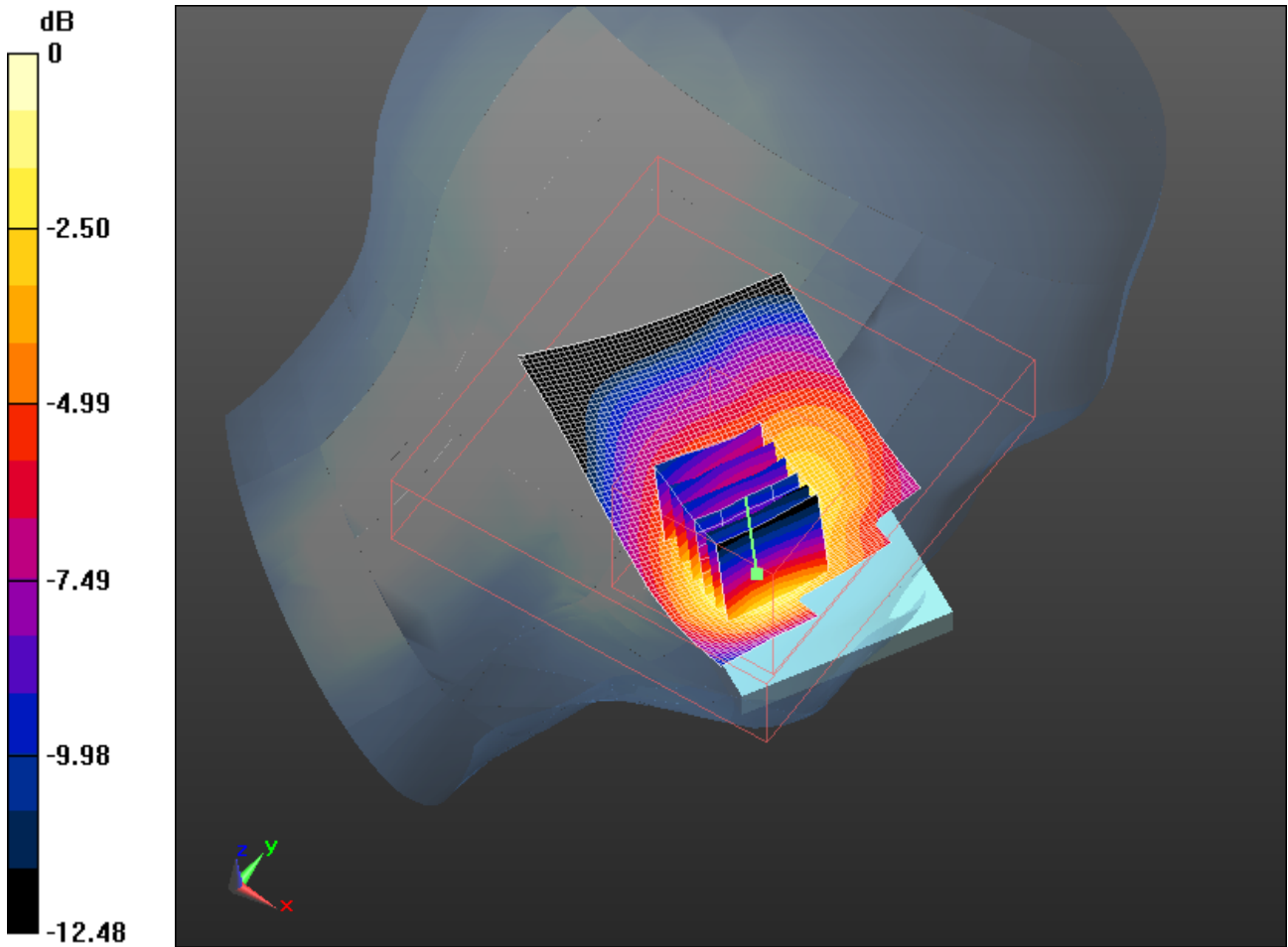
Author Data  
**Andrew Becker**

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0 dB = 0.630mW/g

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Date/Time: 10/6/2011 10:06:14 AM, Date/Time: 10/6/2011 10:12:50 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE850\_4\_slots\_mid\_chan\_amb\_temp\_23.3\_liq\_temp\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: EDGE 850 (4 slots); Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.874$  mho/m;  $\epsilon_r = 41.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.516 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x6x7)/Cube 0:**

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

Reference Value = 8.118 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.708 W/kg

**SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.293 mW/g**

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

Maximum value of SAR (measured) = 0.542 mW/g

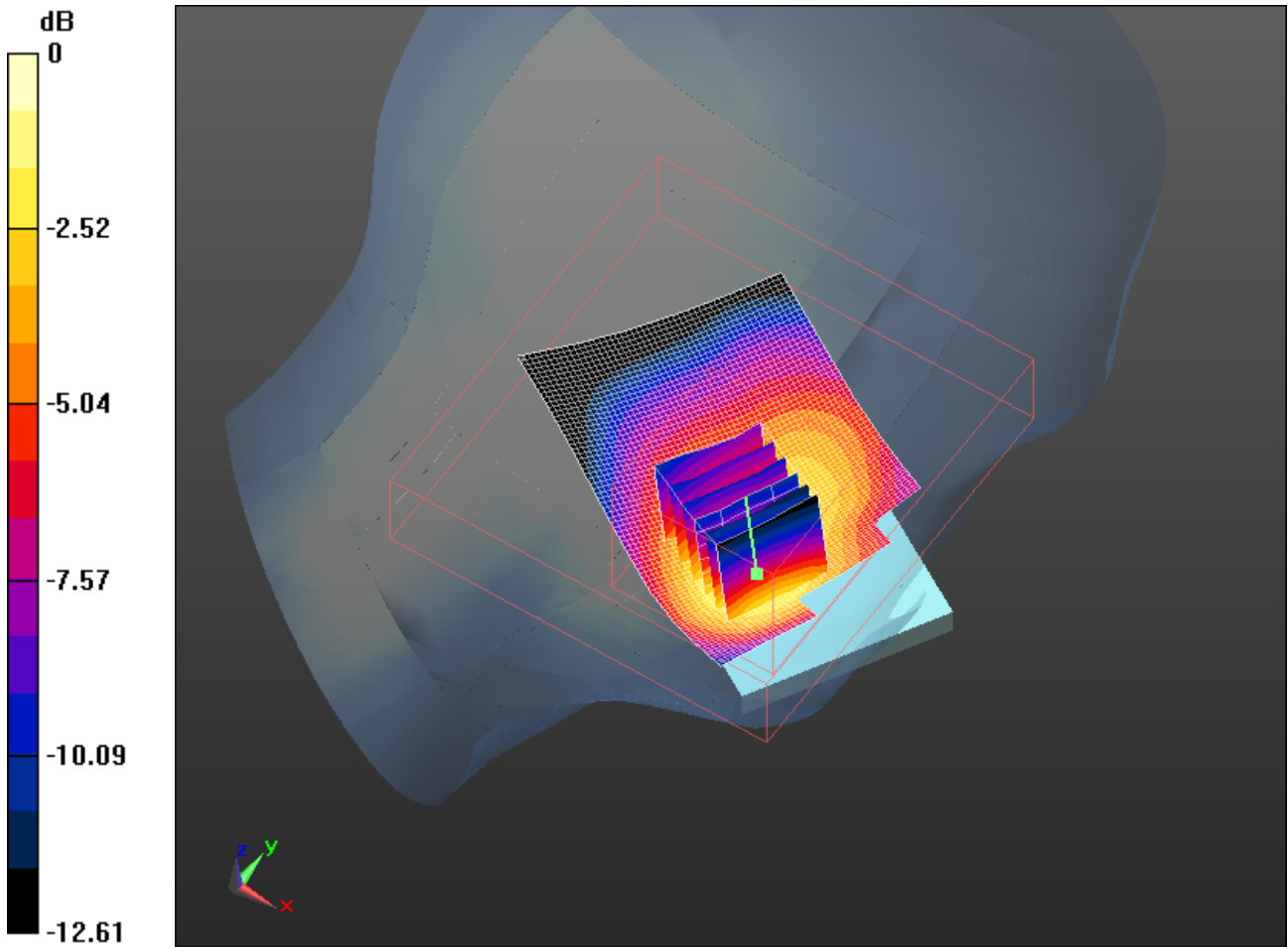
Author Data  
**Andrew Becker**

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0 dB = 0.540mW/g

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Date/Time: 10/5/2011 6:10:19 PM, Date/Time: 10/5/2011 6:15:25 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_22.5\_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.873$  mho/m;  $\epsilon_r = 41.543$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.421 mW/g

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

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

Reference Value = 6.206 V/m; Power Drift = 0.27 dB

Peak SAR (extrapolated) = 0.585 W/kg

**SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.260 mW/g**

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

Maximum value of SAR (measured) = 0.466 mW/g



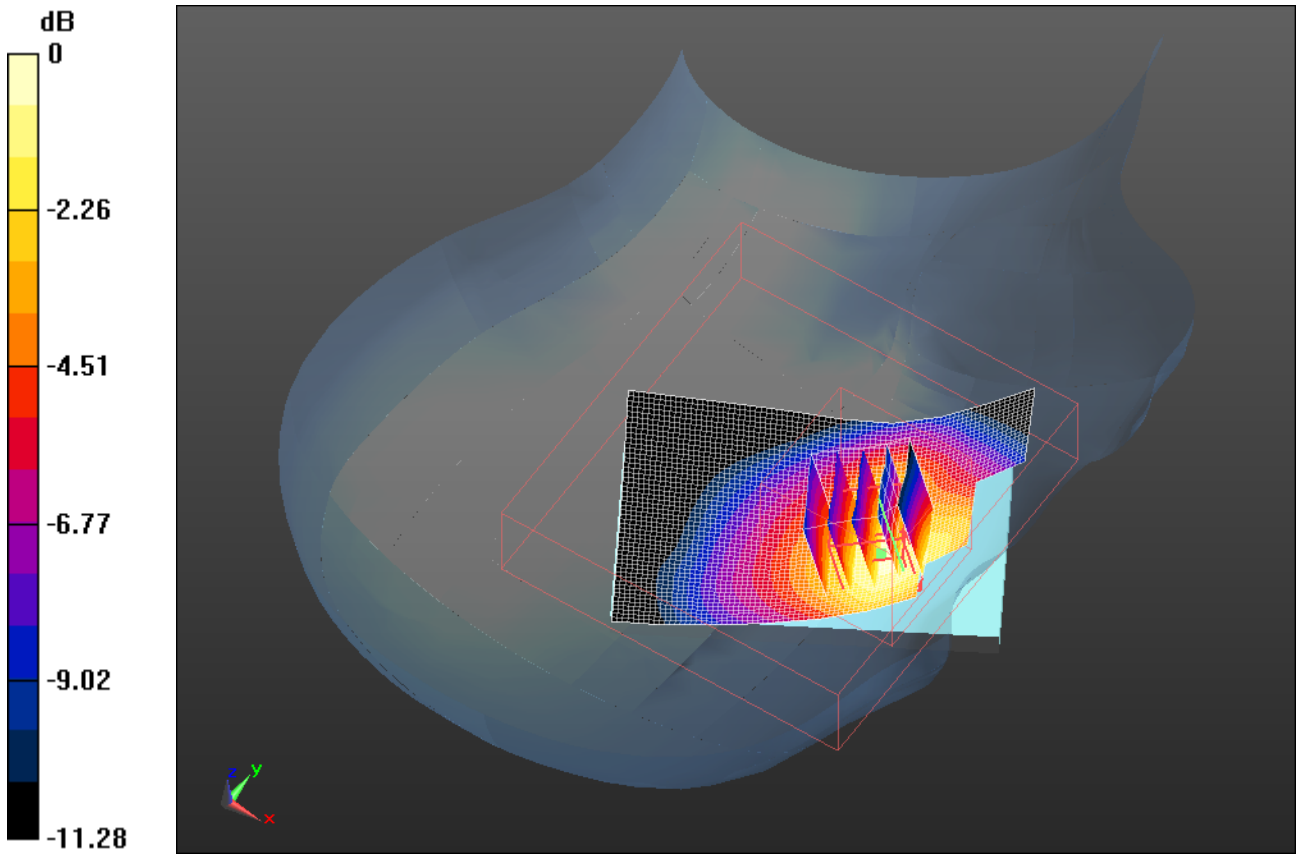
Author Data  
**Andrew Becker**

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0 dB = 0.470mW/g

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Date/Time: 10/5/2011 6:28:51 PM, Date/Time: 10/5/2011 6:33:57 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_Tilt\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_22.7\_liq\_tem  
p\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.873$  mho/m;  $\epsilon_r = 41.543$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.199 mW/g

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

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

Reference Value = 11.437 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.224 W/kg

**SAR(1 g) = 0.176 mW/g; SAR(10 g) = 0.136 mW/g**

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

Maximum value of SAR (measured) = 0.193 mW/g

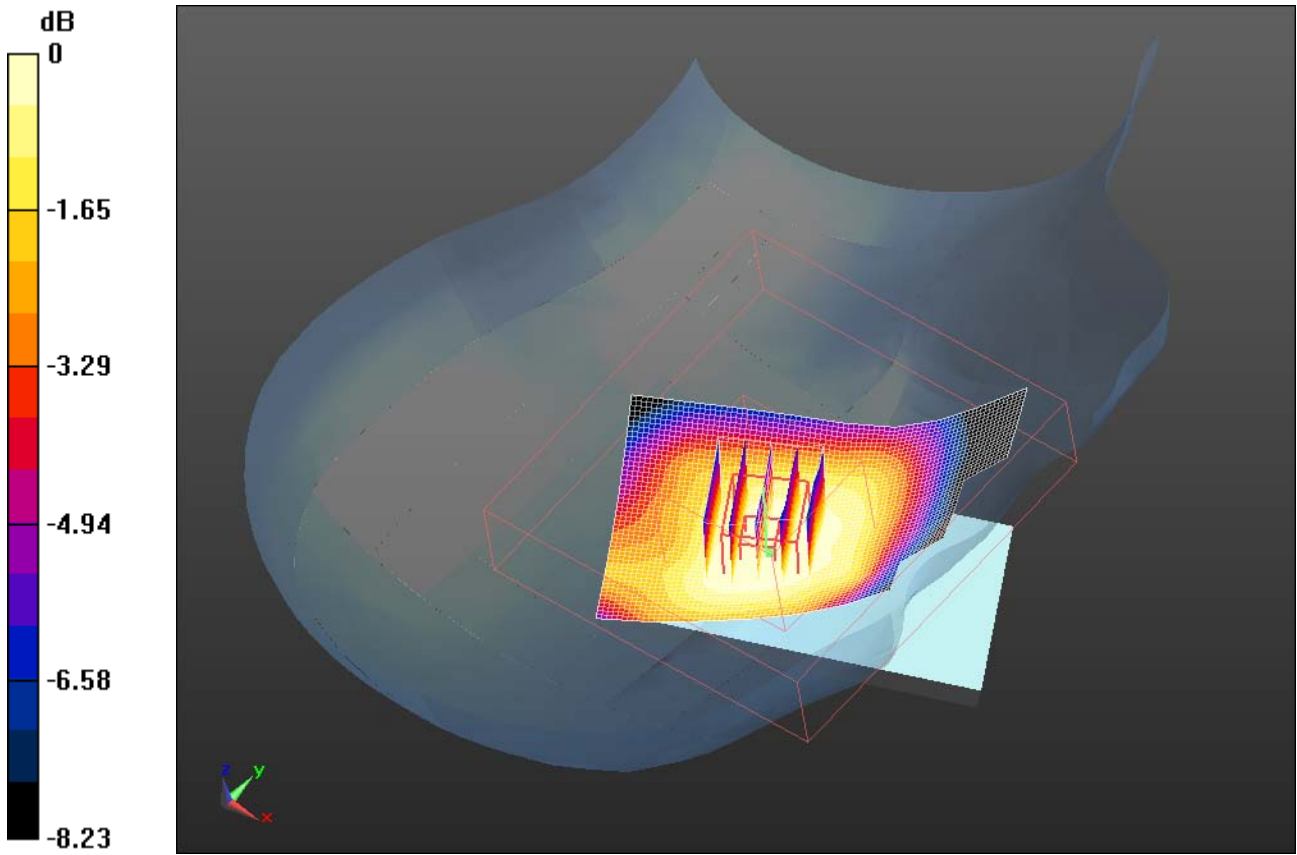
Author Data  
**Andrew Becker**

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0 dB = 0.190mW/g

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Date/Time: 10/5/2011 5:14:00 PM, Date/Time: 10/5/2011 5:19:01 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_22.8\_liq\_temp\_22.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.873$  mho/m;  $\epsilon_r = 41.543$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.490 mW/g

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

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

Reference Value = 6.710 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.684 W/kg

**SAR(1 g) = 0.420 mW/g; SAR(10 g) = 0.262 mW/g**

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

Maximum value of SAR (measured) = 0.506 mW/g

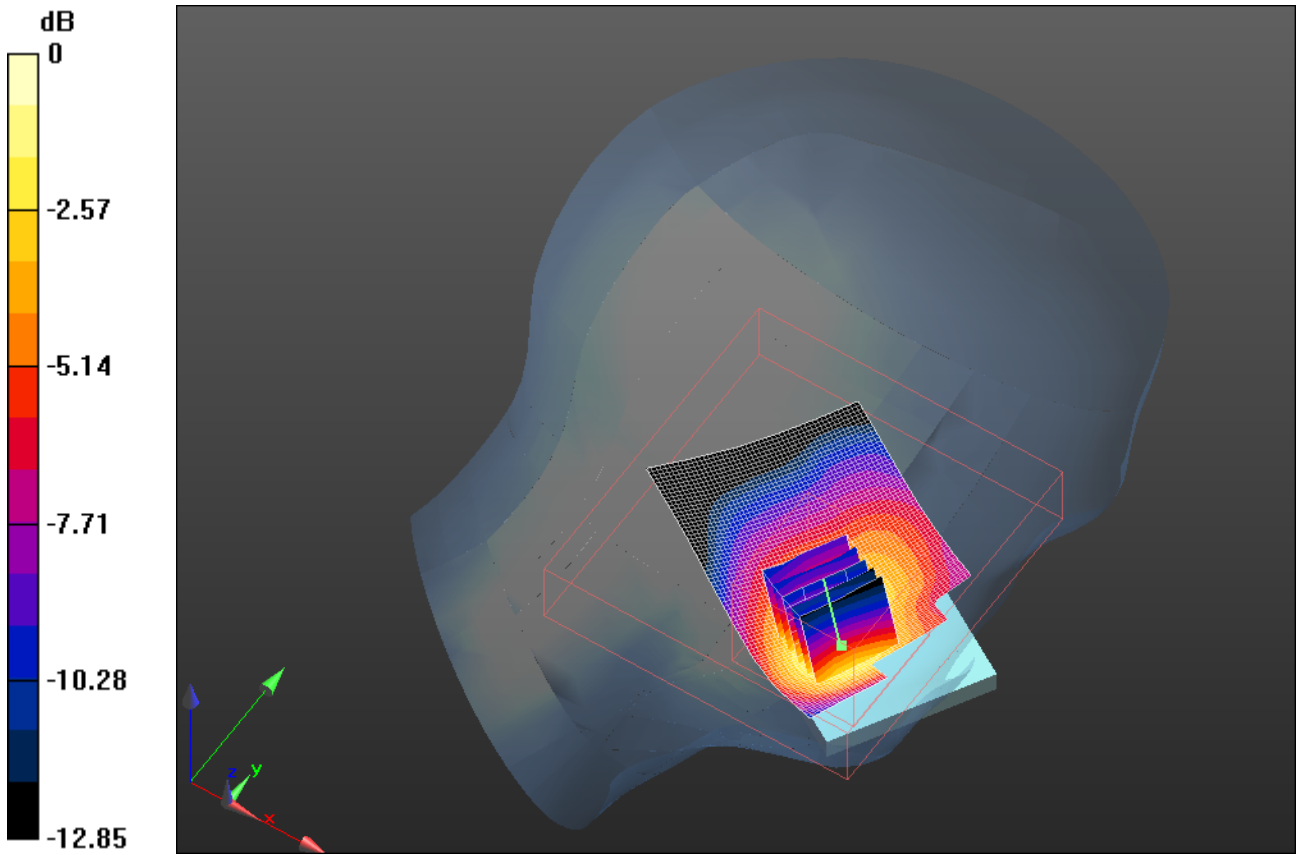
Author Data  
**Andrew Becker**

Dates of Test  
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**L6AREQ70UW**

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0 dB = 0.510mW/g

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Date/Time: 10/5/2011 5:34:38 PM, Date/Time: 10/5/2011 5:39:38 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_Tilt\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_22.8\_liq\_temp \_22.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.873$  mho/m;  $\epsilon_r = 41.543$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.210 mW/g

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

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

Reference Value = 11.547 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.246 W/kg

**SAR(1 g) = 0.190 mW/g; SAR(10 g) = 0.145 mW/g**

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

Maximum value of SAR (measured) = 0.210 mW/g

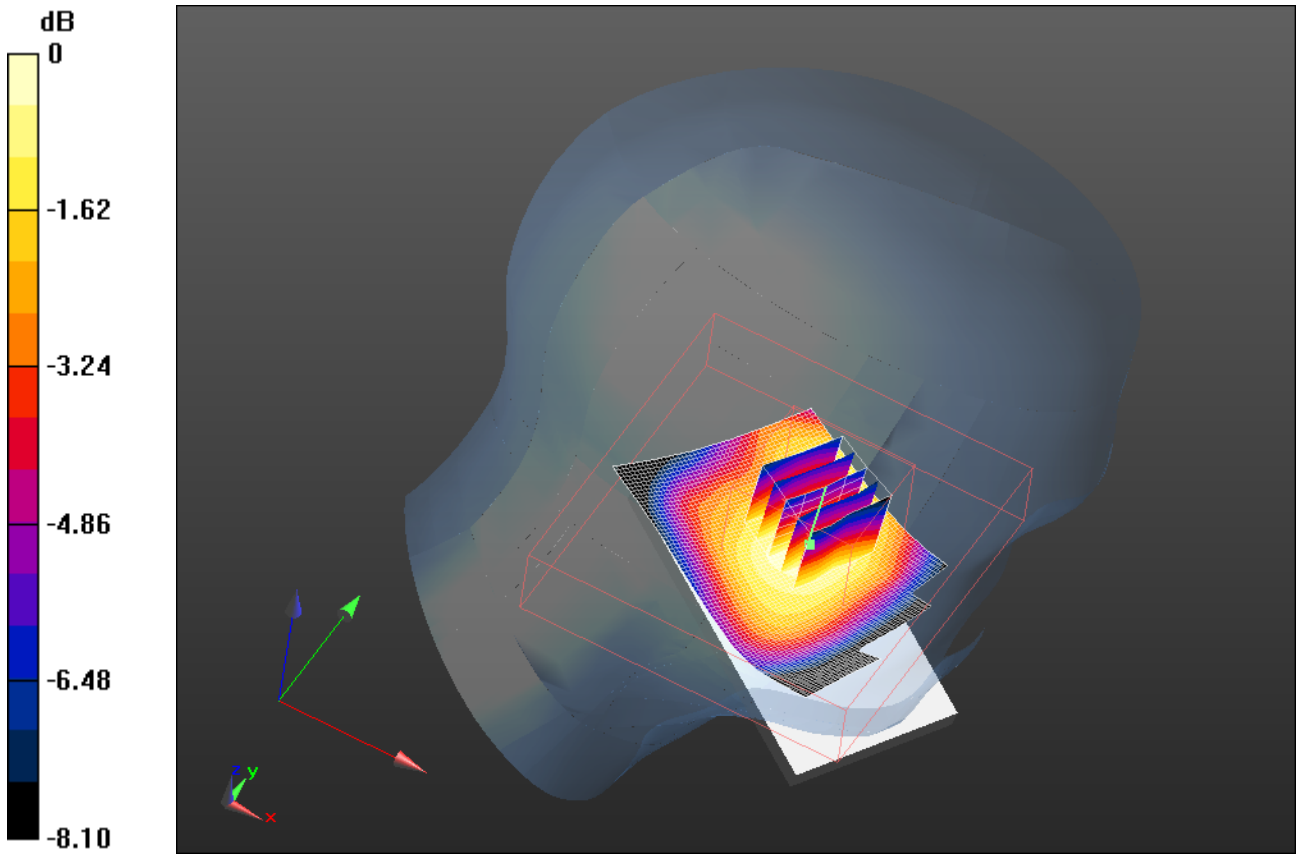
Author Data  
**Andrew Becker**

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Test Report No  
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**L6AREQ70UW**

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0 dB = 0.210mW/g

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Date/Time: 10/4/2011 7:01:12 PM, Date/Time: 10/4/2011 7:06:19 PM, Date/Time: 10/4/2011 7:18:53 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_EDGE1900\_mid\_chan\_amb\_temp\_22.3\_liq\_temp\_22.0**

**C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: EDGE 1900; Frequency: 1880 MHz  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.367$  mho/m;  $\epsilon_r = 38.179$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.688 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**

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

Reference Value = 8.750 V/m; Power Drift = 0.25 dB

Peak SAR (extrapolated) = 0.896 W/kg

**SAR(1 g) = 0.554 mW/g; SAR(10 g) = 0.337 mW/g**

Maximum value of SAR (measured) = 0.659 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0:**

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

Reference Value = 8.750 V/m; Power Drift = 0.46 dB

Peak SAR (extrapolated) = 0.884 W/kg

**SAR(1 g) = 0.566 mW/g; SAR(10 g) = 0.350 mW/g**



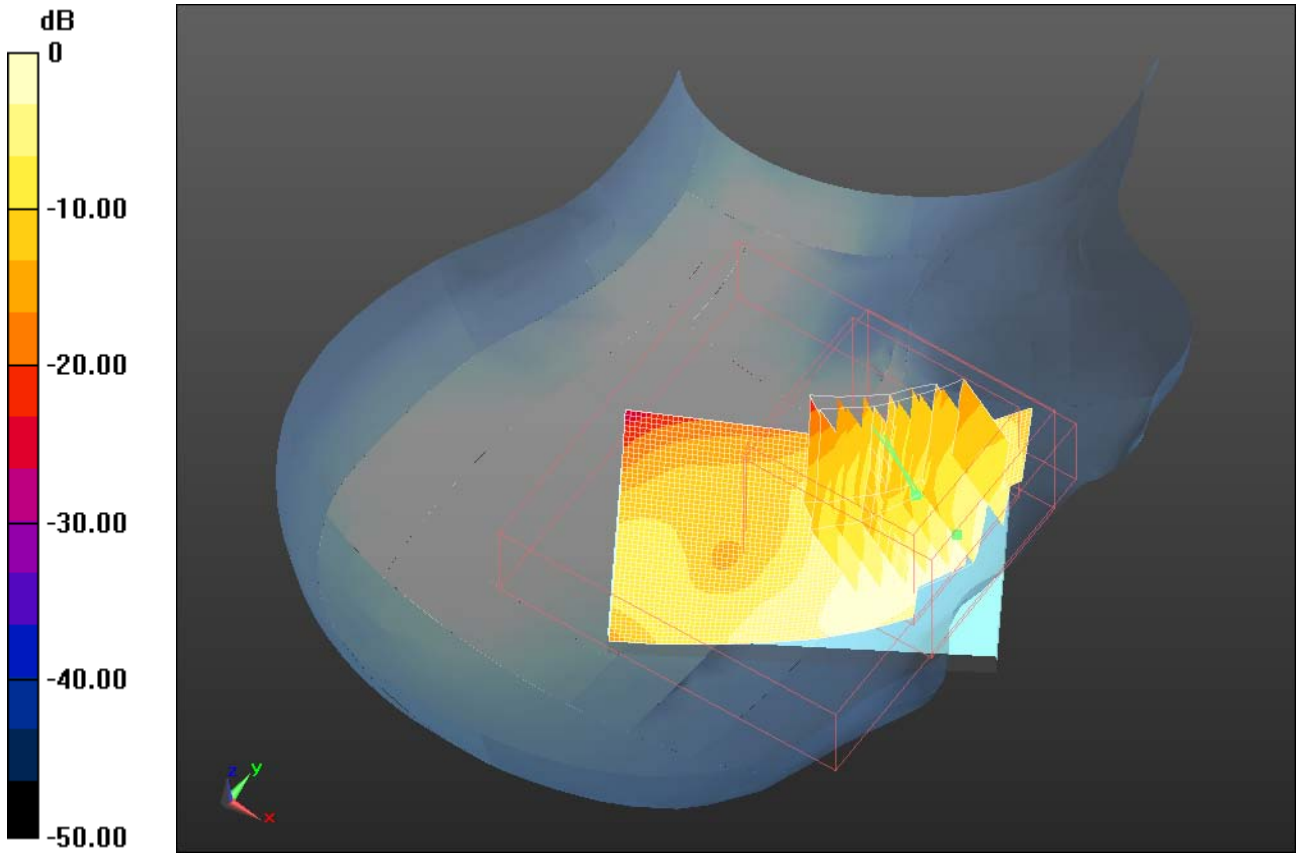
Author Data  
**Andrew Becker**

Dates of Test  
**September 27 – October 26, 2011**


Test Report No  
**RTS-5955-1110-23**

FCC ID:  
**L6AREQ70UW**

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0 dB = 0.660mW/g

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Date/Time: 10/4/2011 7:39:54 PM, Date/Time: 10/4/2011 7:45:01 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_Tilt\_EDGE1900\_mid\_chan\_amb\_temp\_23.0\_liq\_temp\_2 2.7C

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: EDGE 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.367$  mho/m;  $\epsilon_r = 38.179$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.172 mW/g

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

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

Reference Value = 9.791 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.253 W/kg

**SAR(1 g) = 0.146 mW/g; SAR(10 g) = 0.078 mW/g**

Maximum value of SAR (measured) = 0.180 mW/g

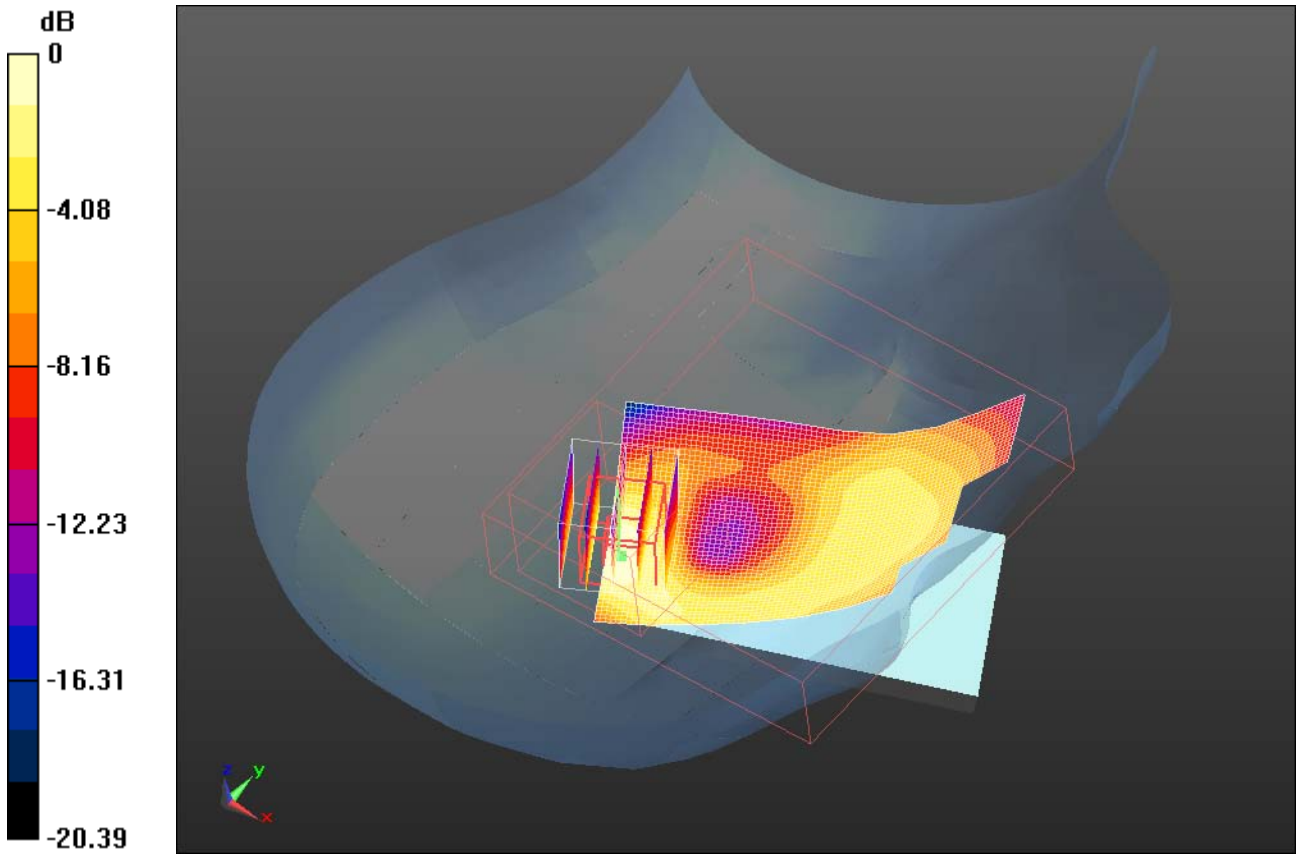
Author Data  
**Andrew Becker**

Dates of Test  
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0 dB = 0.180mW/g

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Date/Time: 10/4/2011 8:16:50 PM, Date/Time: 10/4/2011 8:21:53 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_GSM1900\_mid\_chan\_amb\_temp\_23.4\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: GSM 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.367$  mho/m;  $\epsilon_r = 38.179$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.518 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**

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

Reference Value = 7.952 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.667 W/kg

**SAR(1 g) = 0.422 mW/g; SAR(10 g) = 0.255 mW/g**

Maximum value of SAR (measured) = 0.497 mW/g

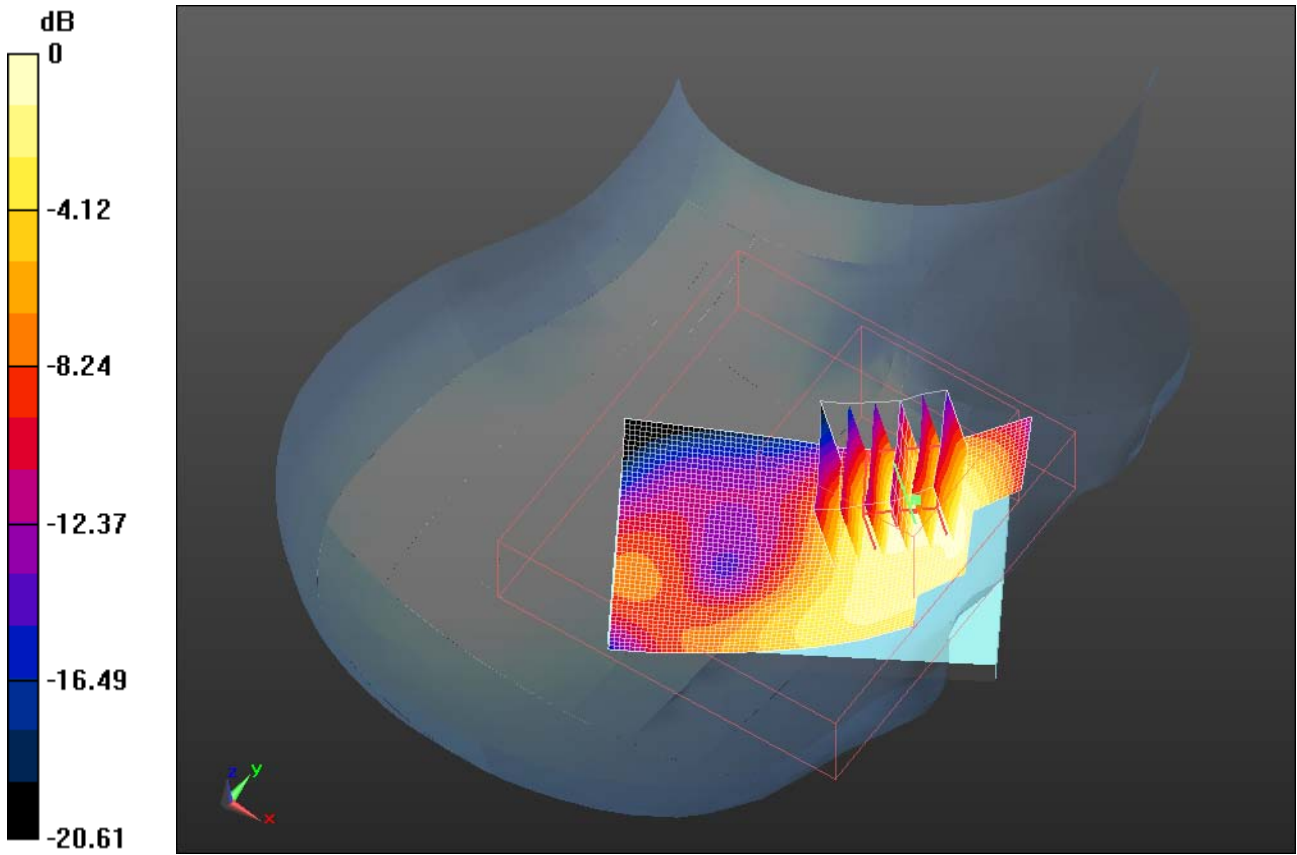
Author Data  
**Andrew Becker**

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0 dB = 0.500mW/g

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Date/Time: 10/4/2011 8:53:46 PM, Date/Time: 10/4/2011 9:05:32 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_EDGE1900\_3\_Slots\_mid\_chan\_amb\_temp\_23.4\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: EDGE 1900(3 slots); Frequency: 1880 MHz  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.367$  mho/m;  $\epsilon_r = 38.179$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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  
Maximum value of SAR (interpolated) = 0.570 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 7.715 V/m; Power Drift = 0.58 dB  
Peak SAR (extrapolated) = 0.734 W/kg  
**SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.274 mW/g**  
Maximum value of SAR (measured) = 0.544 mW/g

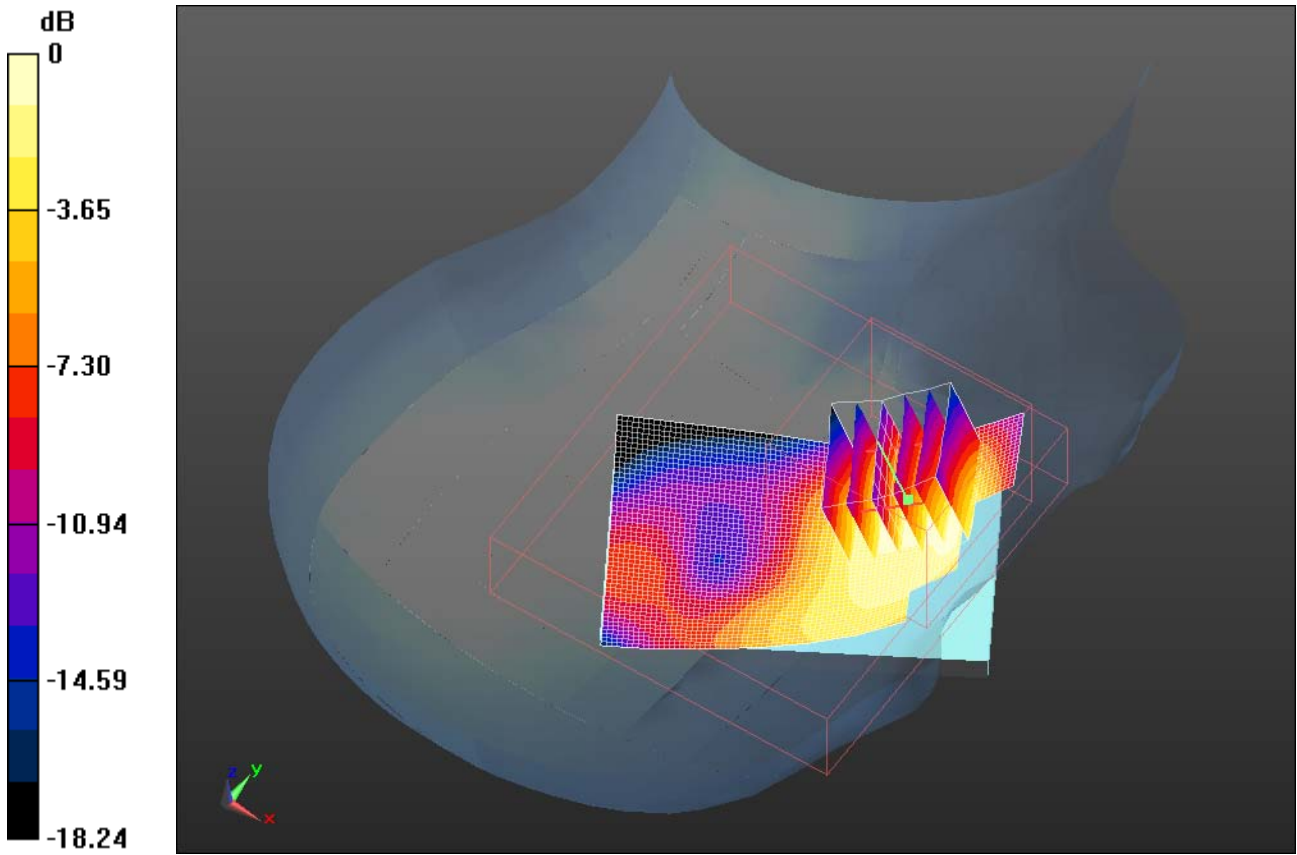
Author Data  
**Andrew Becker**

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0 dB = 0.540mW/g

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Date/Time: 10/4/2011 9:18:11 PM, Date/Time: 10/4/2011 9:37:37 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_EDGE1900\_4\_Slots\_mid\_chan\_amb\_temp\_23.7\_liq\_temp\_22.3C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: EDGE 1900(4 slots); Frequency: 1880 MHz  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.367$  mho/m;  $\epsilon_r = 38.179$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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  
Maximum value of SAR (interpolated) = 0.630 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 8.640 V/m; Power Drift = 0.16 dB  
Peak SAR (extrapolated) = 0.814 W/kg  
**SAR(1 g) = 0.518 mW/g; SAR(10 g) = 0.318 mW/g**  
Maximum value of SAR (measured) = 0.622 mW/g



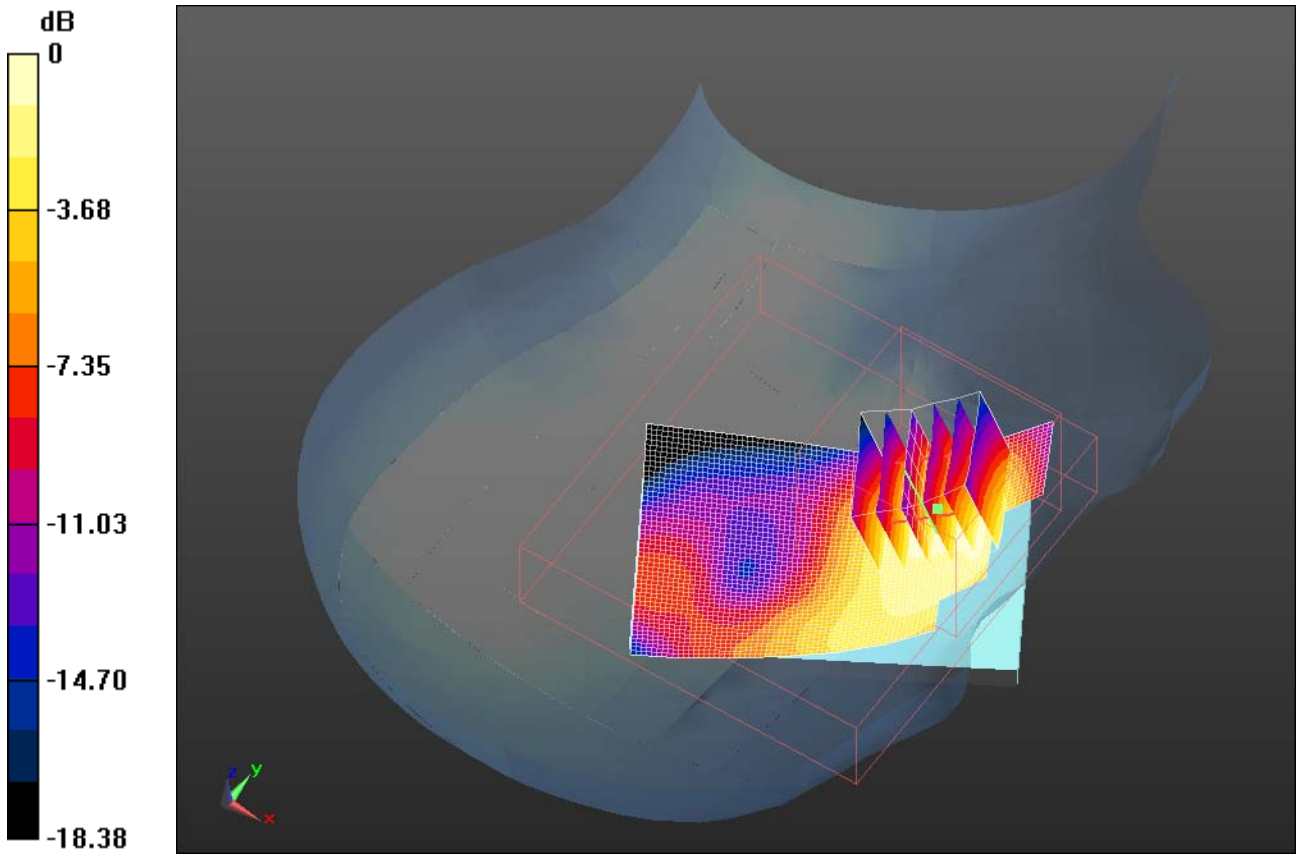
Author Data  
**Andrew Becker**

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0 dB = 0.620mW/g

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Date/Time: 10/4/2011 5:58:52 PM, Date/Time: 10/4/2011 6:03:54 PM, Date/Time:  
10/4/2011 6:16:10 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE1900\_mid\_chan\_amb\_temp\_22.6\_liq\_temp\_21.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: EDGE 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.367$  mho/m;  $\epsilon_r = 38.179$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

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

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

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

Reference Value = 9.646 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.898 W/kg

**SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.335 mW/g**

Maximum value of SAR (measured) = 0.673 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:**

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

Reference Value = 9.646 V/m; Power Drift = 0.37 dB

Peak SAR (extrapolated) = 0.684 W/kg

**SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.278 mW/g**

Maximum value of SAR (measured) = 0.533 mW/g

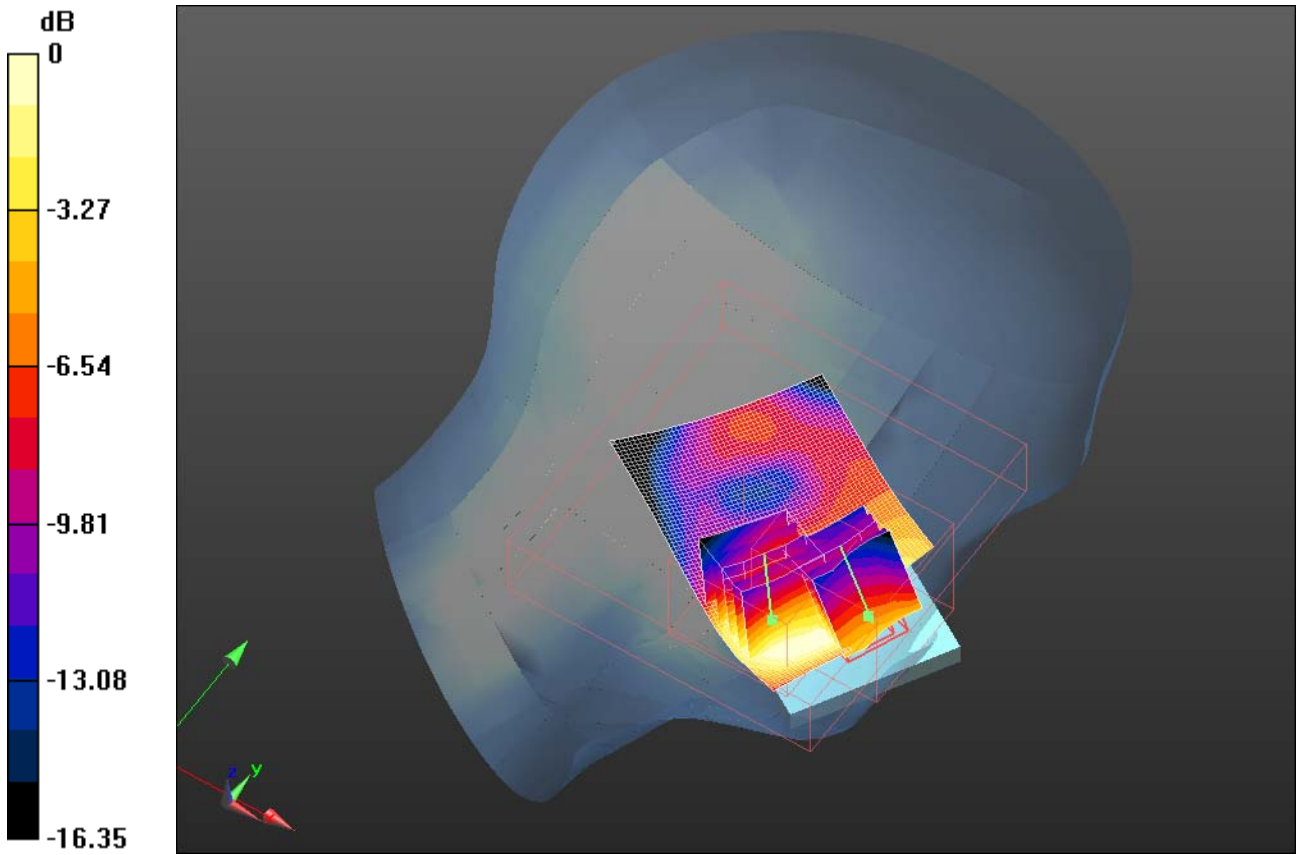
Author Data  
**Andrew Becker**

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0 dB = 0.530mW/g

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Date/Time: 10/4/2011 6:29:05 PM, Date/Time: 10/4/2011 6:34:04 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_EDGE1900\_mid\_chan\_amb\_temp\_23.5\_liq\_temp\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: EDGE 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.367$  mho/m;  $\epsilon_r = 38.179$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.218 mW/g

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

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

Reference Value = 12.186 V/m; Power Drift = -0.37 dB

Peak SAR (extrapolated) = 0.276 W/kg

**SAR(1 g) = 0.162 mW/g; SAR(10 g) = 0.087 mW/g**

Maximum value of SAR (measured) = 0.199 mW/g

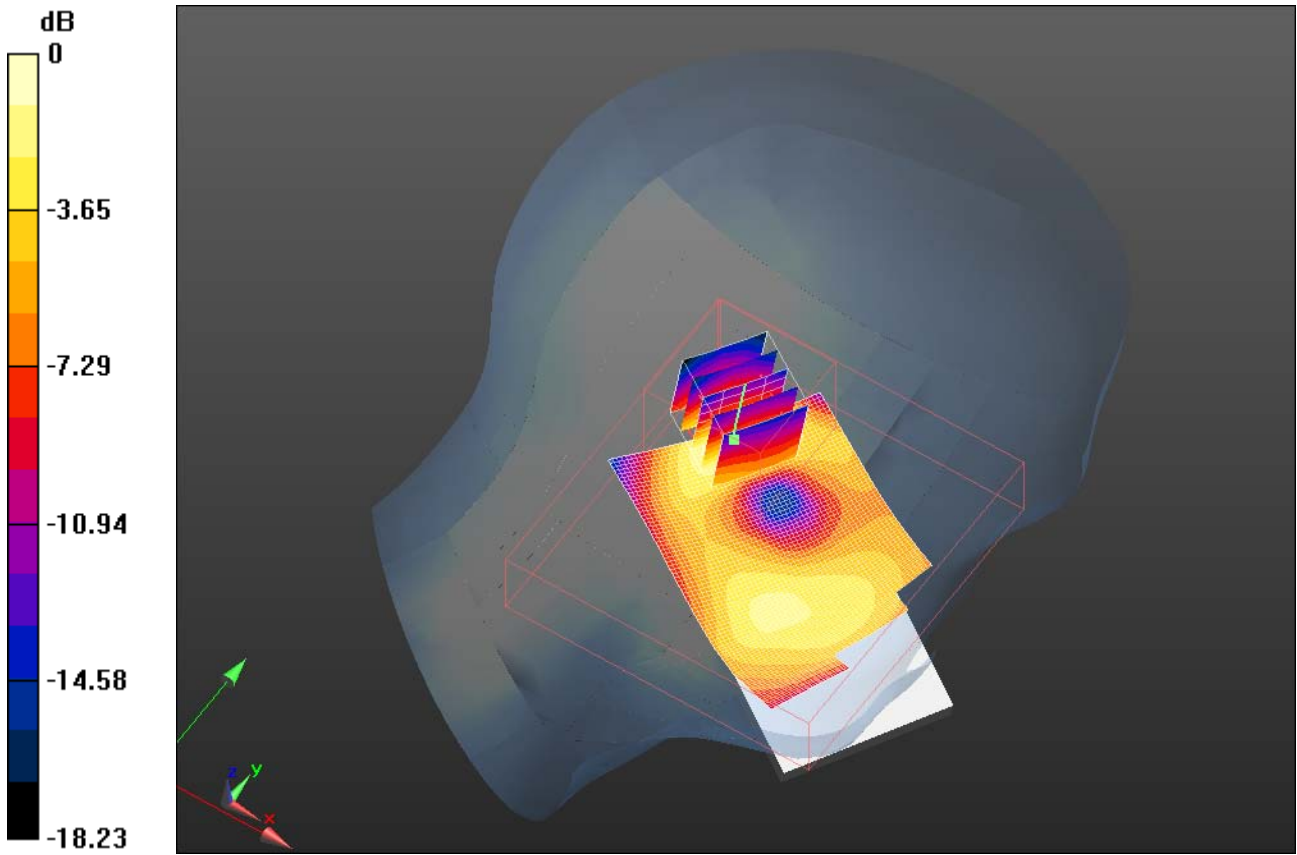
Author Data  
**Andrew Becker**

Dates of Test  
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0 dB = 0.200mW/g

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Date/Time: 10/17/2011 5:12:50 PM, Date/Time: 10/17/2011 5:17:59 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_EDGE1900\_mid\_chan\_amb\_temp\_23.9\_liq\_temp\_22.2**

**C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2868B77A**

Communication System: EDGE 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.364$  mho/m;  $\epsilon_r = 38.159$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.694 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**

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

Reference Value = 10.241 V/m; Power Drift = 0.23 dB

Peak SAR (extrapolated) = 0.935 W/kg

**SAR(1 g) = 0.573 mW/g; SAR(10 g) = 0.334 mW/g**

Maximum value of SAR (measured) = 0.679 mW/g

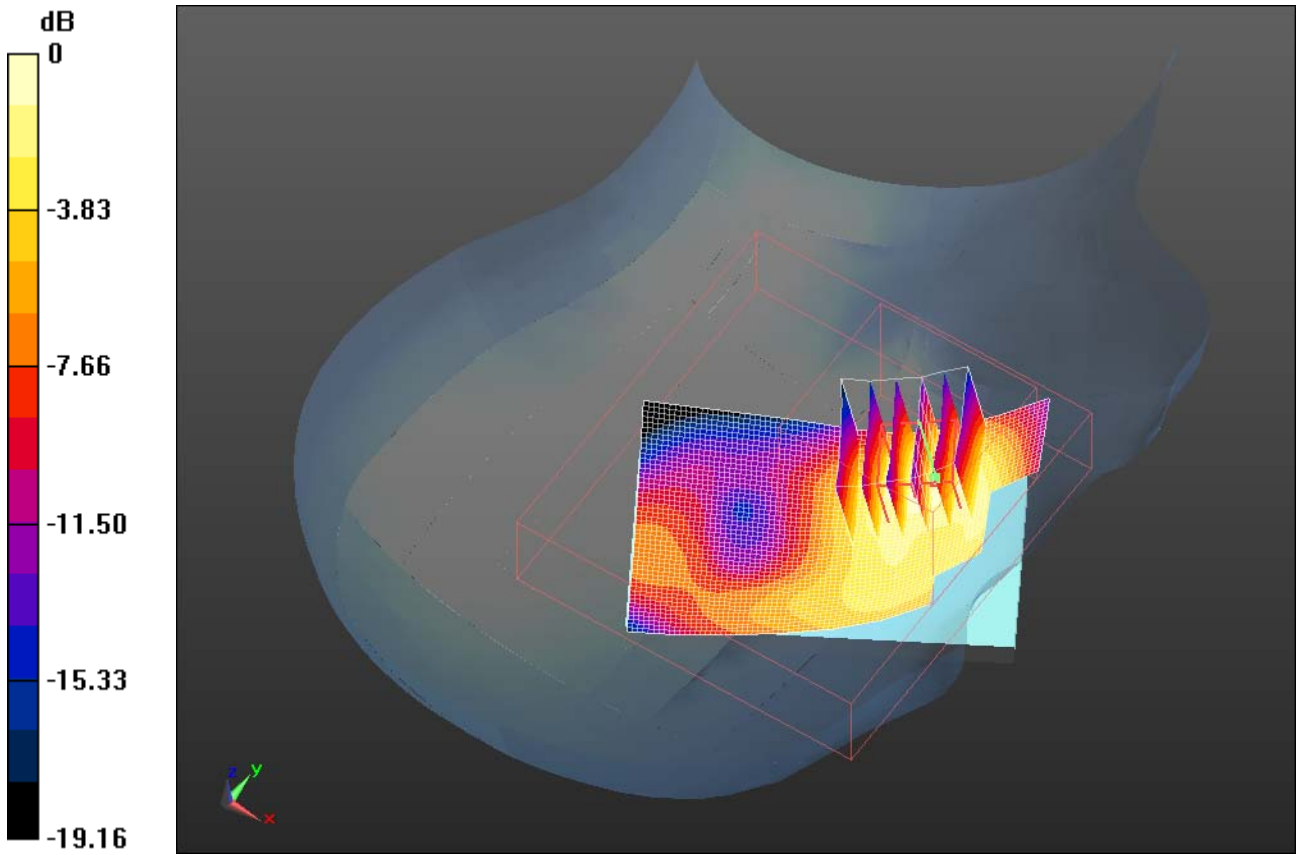
Author Data  
**Andrew Becker**

Dates of Test  
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Test Report No  
**RTS-5955-1110-23**

FCC ID:  
**L6AREQ70UW**

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0 dB = 0.680mW/g

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Date/Time: 10/26/2011 12:56:09 AM, Date/Time: 10/26/2011 1:01:13 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_UMTS\_band\_II\_mid\_chan\_amb\_temp\_22.7\_liq\_temp\_2**

**2.2C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2868B77A**

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.389$  mho/m;  $\epsilon_r = 38.316$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.830 mW/g

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

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

Reference Value = 11.520 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.133 W/kg

**SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.405 mW/g**

Maximum value of SAR (measured) = 0.826 mW/g



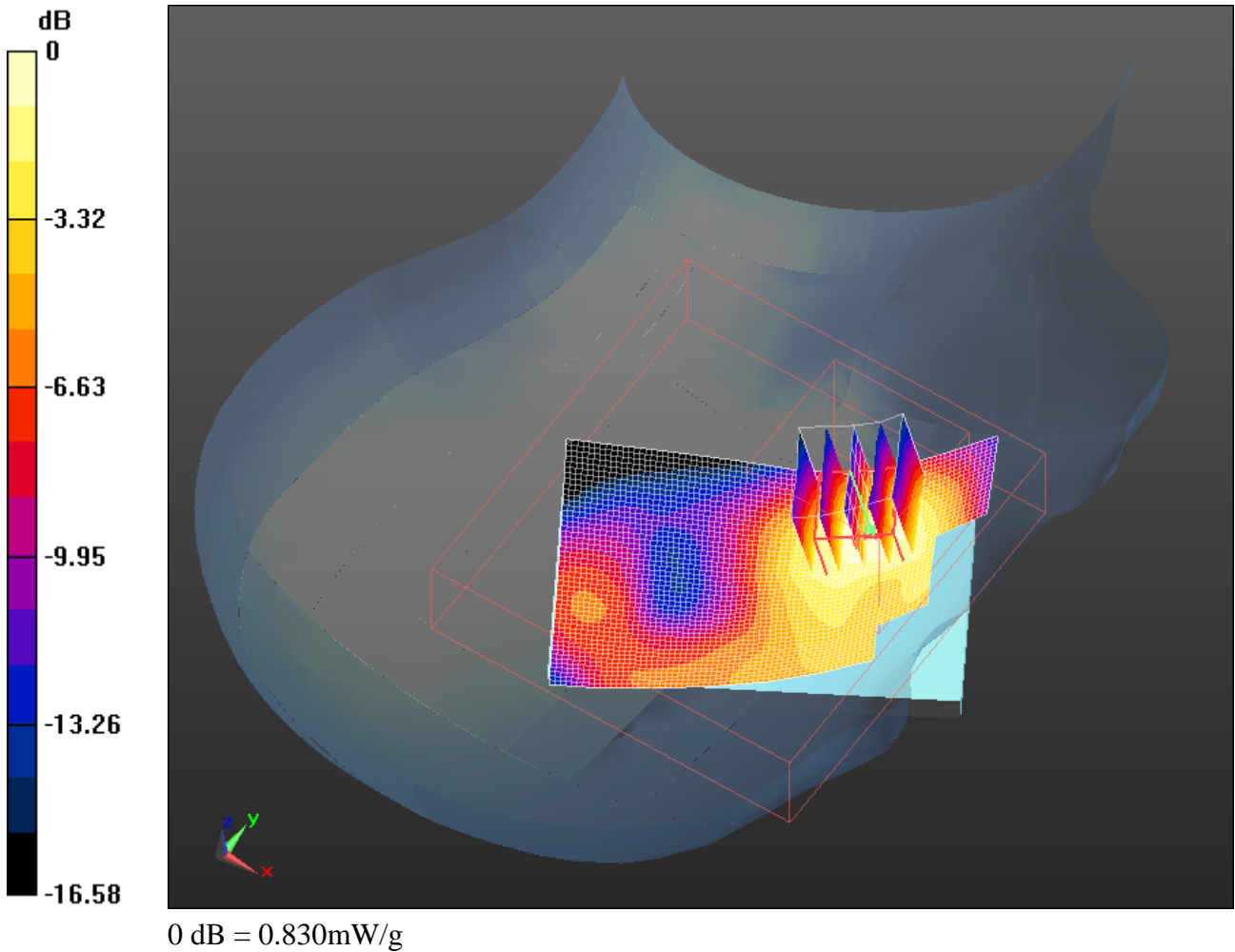
Author Data  
**Andrew Becker**


Dates of Test  
**September 27 – October 26, 2011**

Test Report No  
**RTS-5955-1110-23**

FCC ID:  
**L6AREQ70UW**

IC ID  
**2503A-REQ70UW**



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Date/Time: 10/26/2011 1:16:59 AM, Date/Time: 10/26/2011 1:22:07 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_UMTS\_Tilt\_\_band\_II\_mid\_chan\_amb\_temp\_22.9\_liq\_temp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2868B77A**

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.389$  mho/m;  $\epsilon_r = 38.316$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.289 mW/g

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

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

Reference Value = 12.348 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.395 W/kg

**SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.122 mW/g**

Maximum value of SAR (measured) = 0.287 mW/g

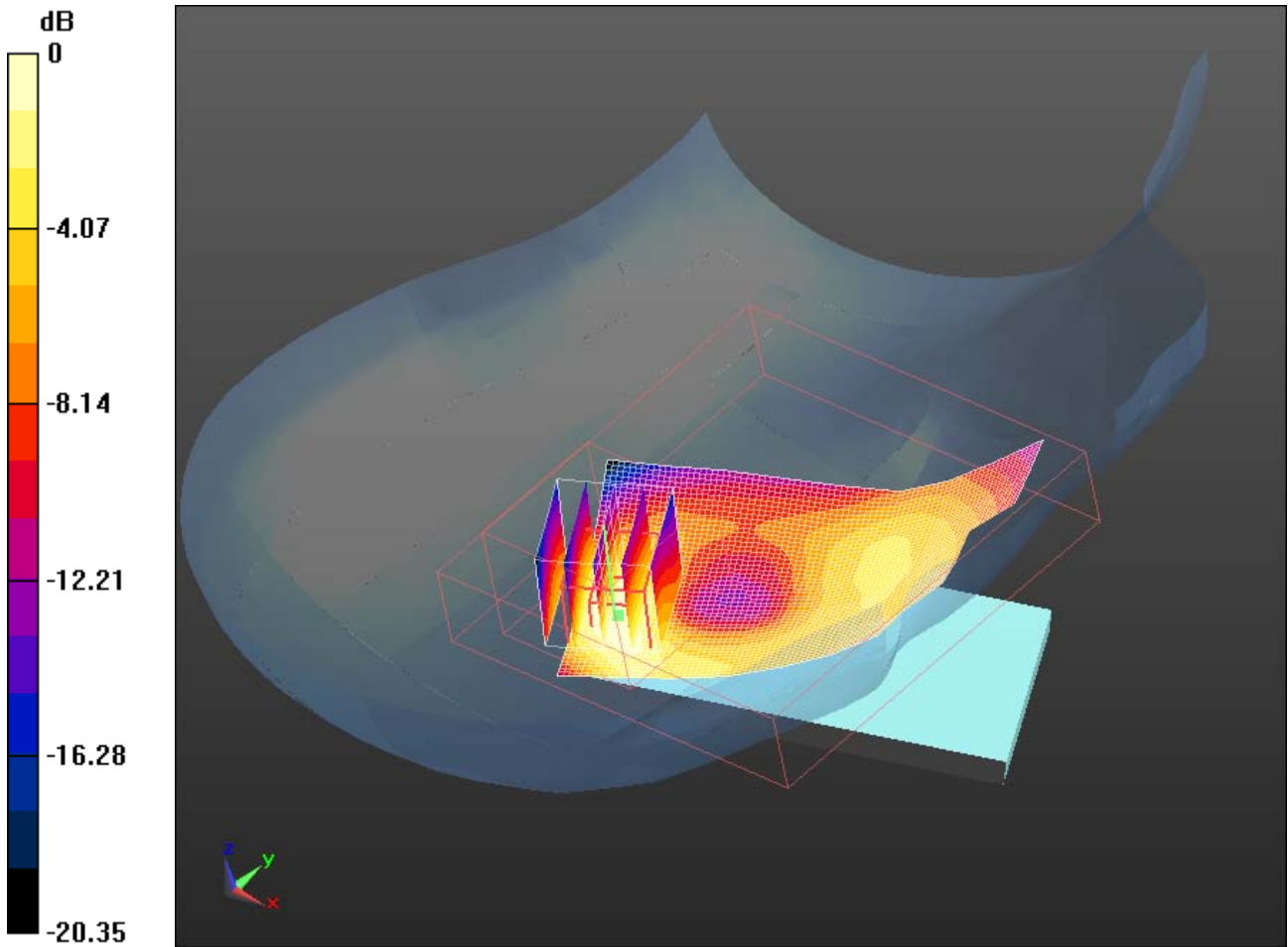
Author Data  
**Andrew Becker**

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0 dB = 0.290mW/g

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Date/Time: 10/26/2011 1:36:55 AM, Date/Time: 10/26/2011 1:41:54 AM, Date/Time:  
10/26/2011 1:50:55 AM

Test Laboratory: RIM Testing Services

**LeftHandSide\_UMTS\_band\_II\_mid\_chan\_amb\_temp\_23.2\_liq\_temp\_22.7C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2868B77A**

Communication System: WCDMA FDD II; Frequency: 1880 MHz  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.389$  mho/m;  $\epsilon_r = 38.316$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)


DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

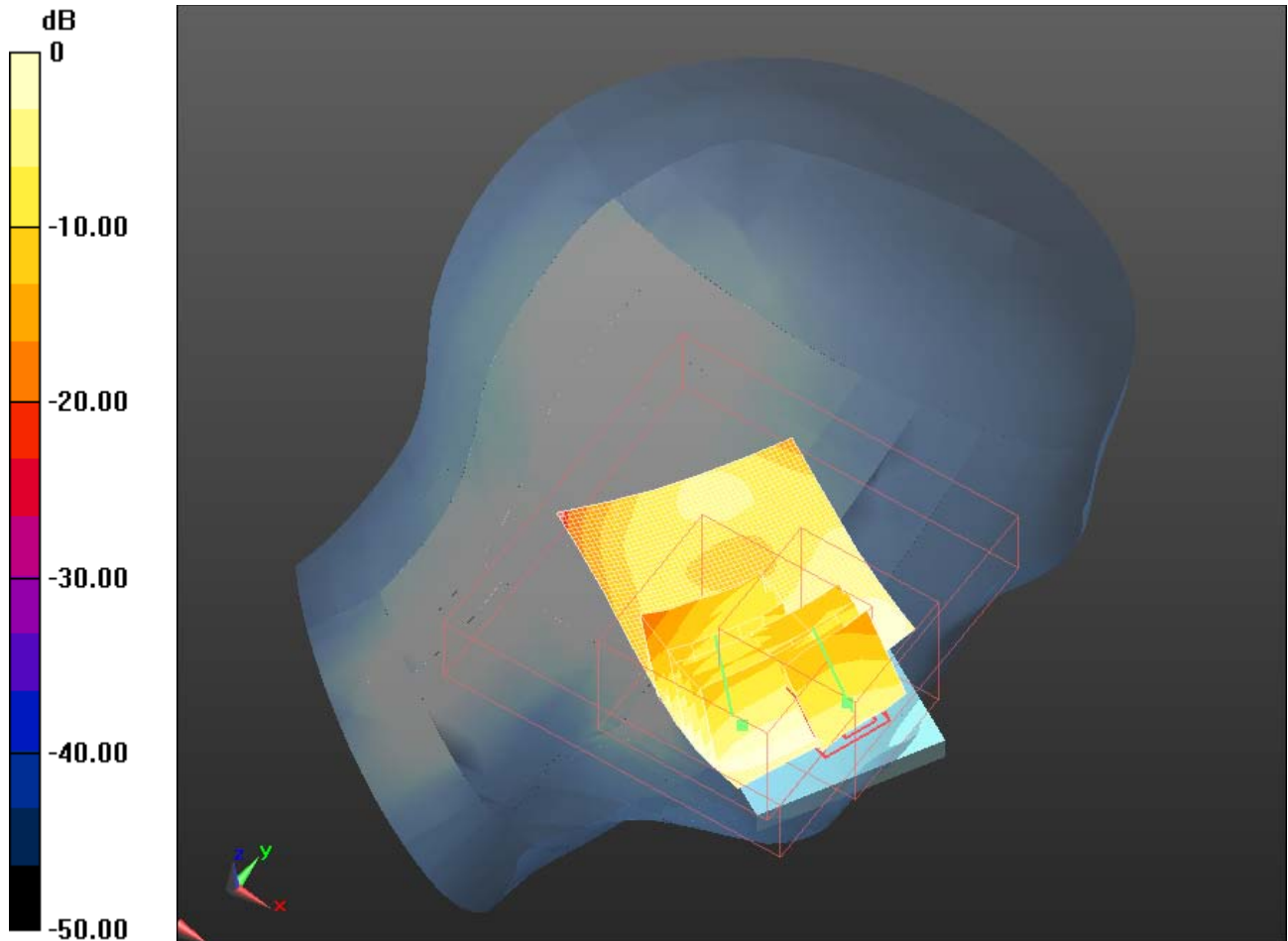
**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.810 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 11.129 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 1.106 W/kg  
**SAR(1 g) = 0.684 mW/g; SAR(10 g) = 0.405 mW/g**  
Maximum value of SAR (measured) = 0.817 mW/g


**Configuration/Touch position -/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 11.129 V/m; Power Drift = 0.18 dB  
Peak SAR (extrapolated) = 0.726 W/kg  
**SAR(1 g) = 0.473 mW/g; SAR(10 g) = 0.285 mW/g**

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Maximum value of SAR (measured) = 0.564 mW/g



0 dB = 0.560mW/g

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Date/Time: 10/26/2011 12:24:02 AM, Date/Time: 10/26/2011 12:29:09 AM

Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_UMTS\_band\_II\_mid\_chan\_amb\_temp\_23.4\_liq\_temp\_22.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2868B77A**

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.389$  mho/m;  $\epsilon_r = 38.316$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.274 mW/g

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

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

Reference Value = 13.240 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.362 W/kg

**SAR(1 g) = 0.210 mW/g; SAR(10 g) = 0.111 mW/g**

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

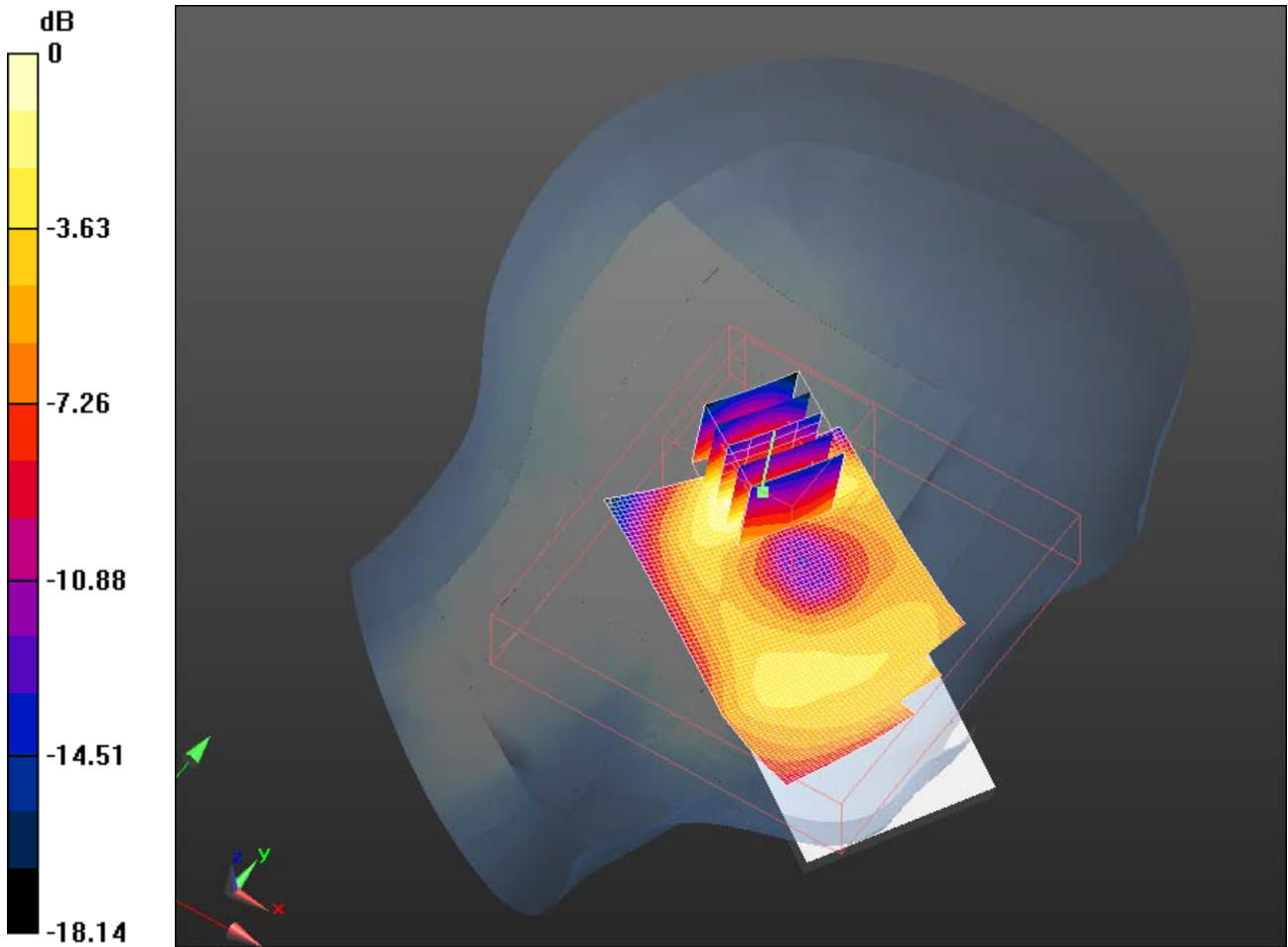
Author Data  
**Andrew Becker**

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0 dB = 0.260mW/g

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Date/Time: 10/11/2011 9:55:41 PM, Date/Time: 10/11/2011 10:00:49 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_802.11b\_low\_chan\_amb\_temp\_23.5\_liq\_temp\_23.0C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: 802.11 b (2450); Frequency: 2412 MHz

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.836$  mho/m;  $\epsilon_r = 39.639$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.017 mW/g

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

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

Reference Value = 1.190 V/m; Power Drift = 3.25 dB

Peak SAR (extrapolated) = 0.031 W/kg

**SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00513 mW/g**

Maximum value of SAR (measured) = 0.018 mW/g



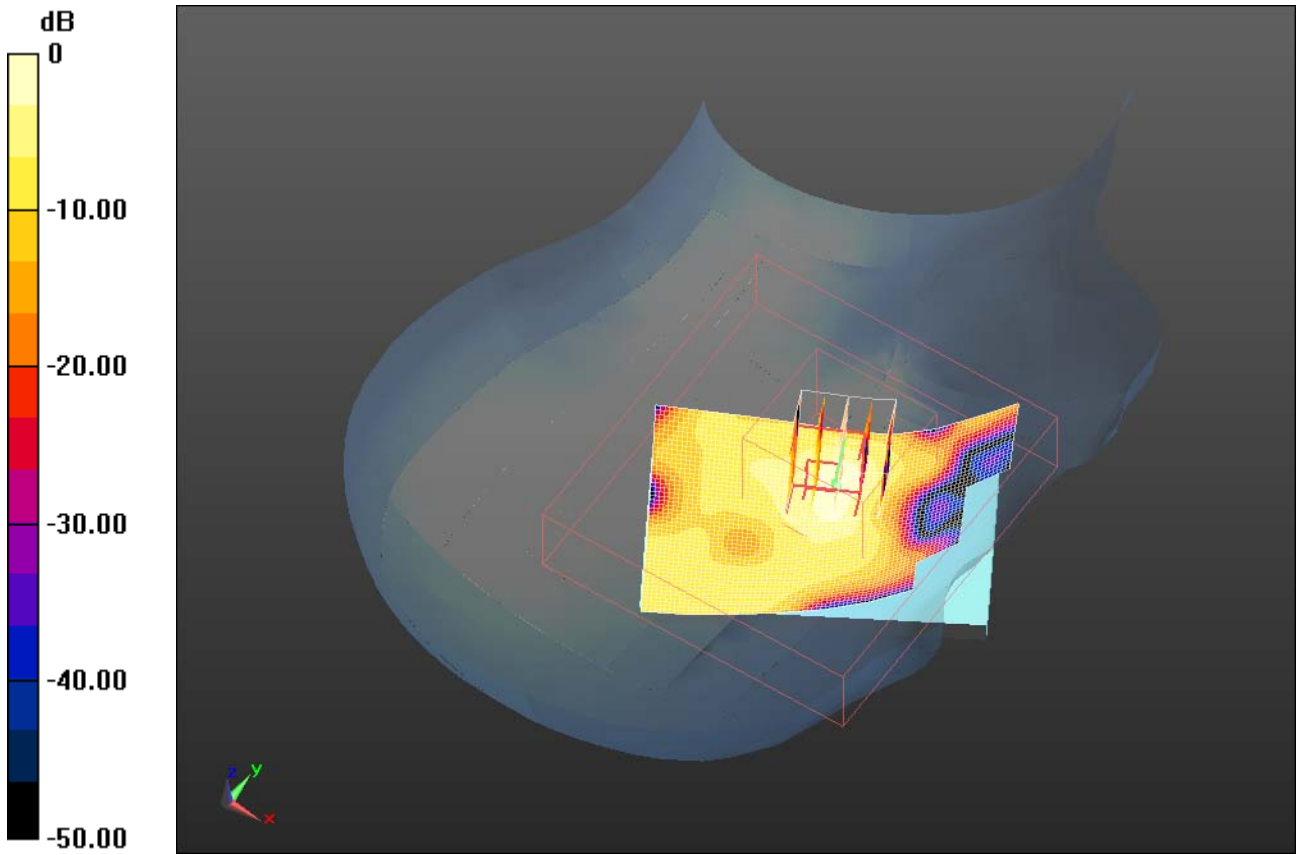
Author Data  
**Andrew Becker**

Dates of Test  
**September 27 – October 26, 2011**


Test Report No  
**RTS-5955-1110-23**

FCC ID:  
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0 dB = 0.020mW/g

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Date/Time: 10/11/2011 10:13:12 PM, Date/Time: 10/11/2011 10:18:22 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_802.11b\_mid\_chan\_amb\_temp\_23.3\_liq\_temp\_22.8C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: 802.11 b (2450); Frequency: 2437 MHz

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.869$  mho/m;  $\epsilon_r = 39.537$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.035 mW/g

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

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

Reference Value = 1.713 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.078 W/kg

**SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.011 mW/g**

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

Maximum value of SAR (measured) = 0.029 mW/g

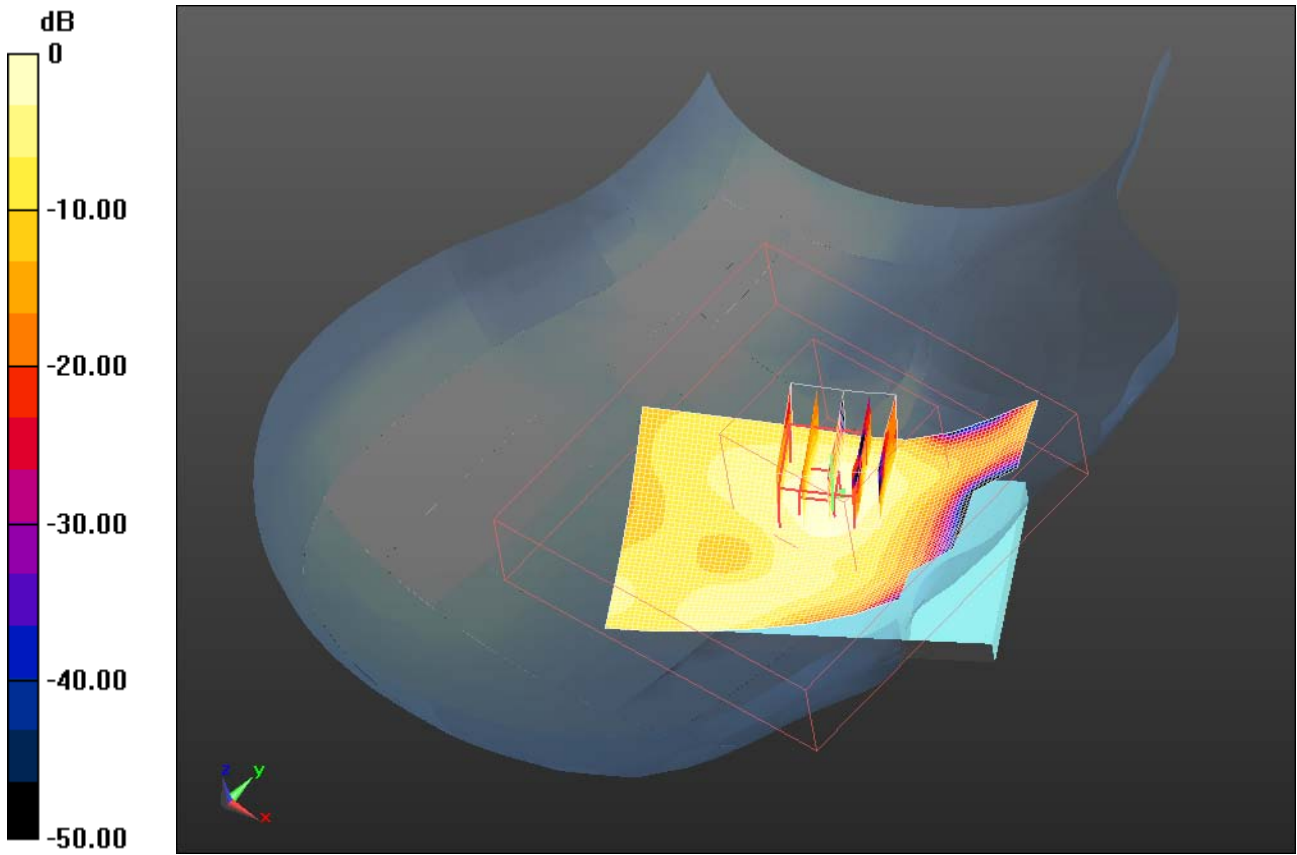
Author Data  
**Andrew Becker**

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FCC ID:  
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0 dB = 0.030mW/g

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Date/Time: 10/11/2011 10:32:36 PM, Date/Time: 10/11/2011 10:37:45 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_802.11b\_high\_chan\_amb\_temp\_23.5\_liq\_temp\_23.0C

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.902$  mho/m;  $\epsilon_r = 39.434$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.046 mW/g

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

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

Reference Value = 1.455 V/m; Power Drift = 1.70 dB

Peak SAR (extrapolated) = 0.075 W/kg

**SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.014 mW/g**

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

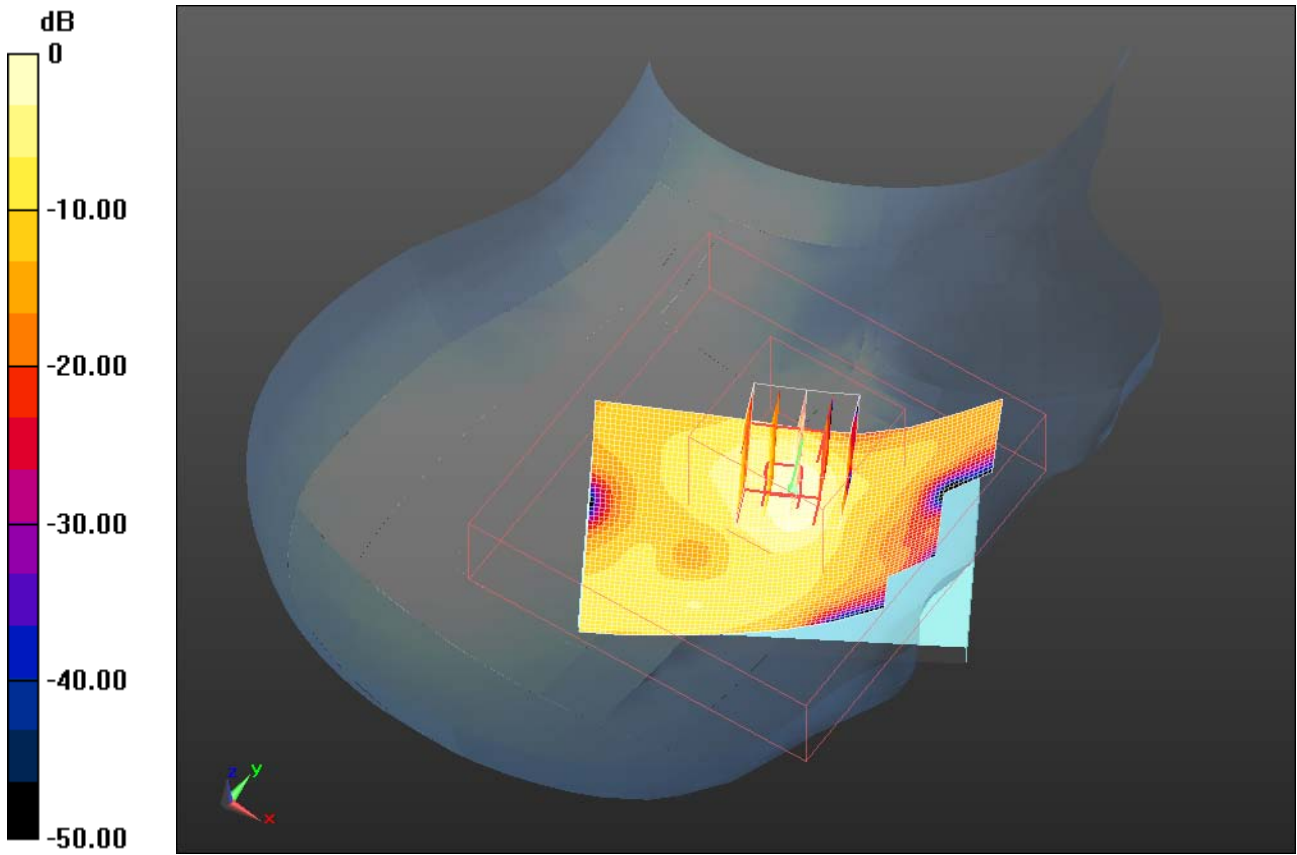
Author Data  
**Andrew Becker**

Dates of Test  
**September 27 – October 26, 2011**


Test Report No  
**RTS-5955-1110-23**

FCC ID:  
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0 dB = 0.050mW/g

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Date/Time: 10/11/2011 10:48:16 PM, Date/Time: 10/11/2011 10:53:28 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_Tilt\_802.11b\_high\_chan\_amb\_temp\_23.3\_liq\_temp\_22.8C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: 802.11 b (2450); Frequency: 2462 MHz  
Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.902$  mho/m;  $\epsilon_r = 39.434$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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  
Maximum value of SAR (interpolated) = 0.00821 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 0.973 V/m; Power Drift = 3.26 dB  
Peak SAR (extrapolated) = 0.015 W/kg  
**SAR(1 g) = 0.00858 mW/g; SAR(10 g) = 0.00435 mW/g**  
Maximum value of SAR (measured) = 0.011 mW/g

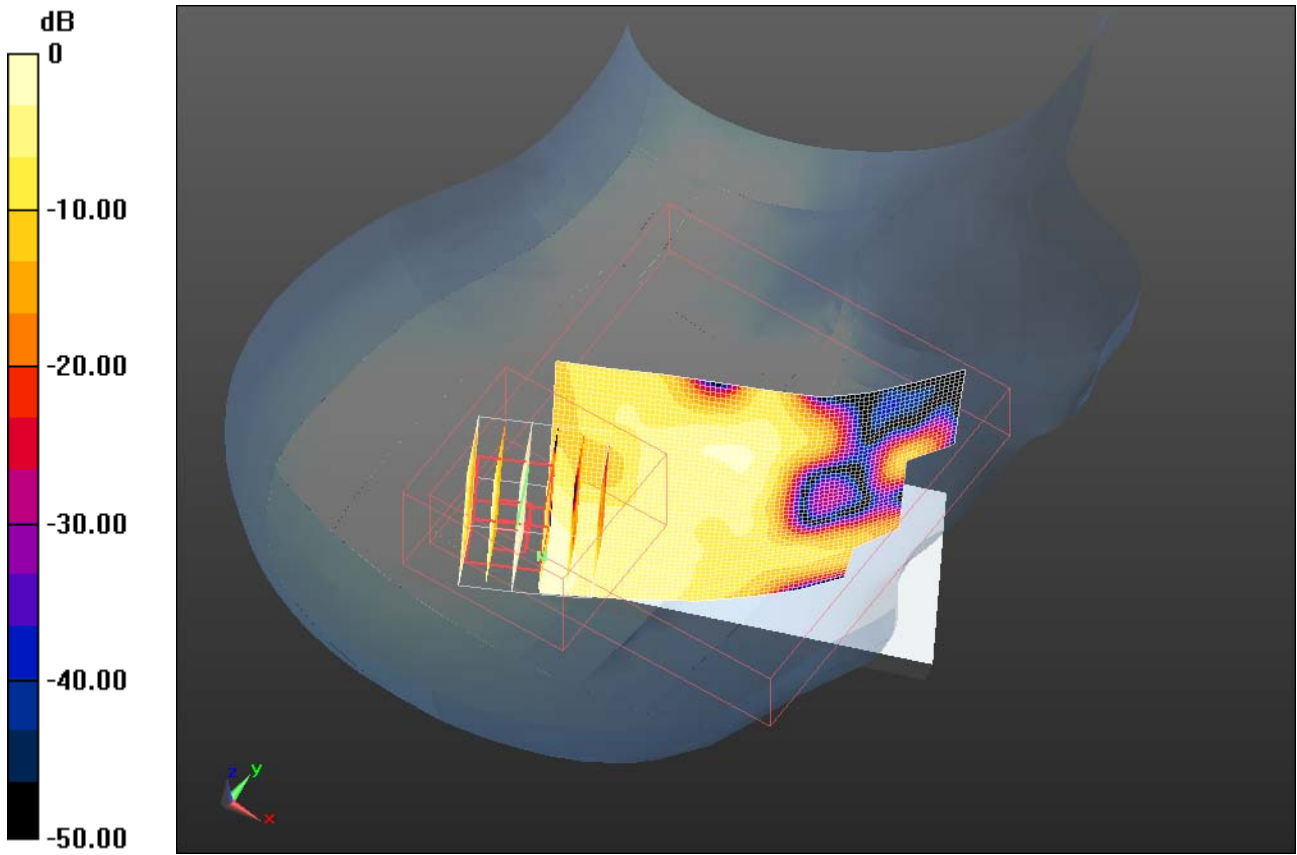
Author Data  
**Andrew Becker**

Dates of Test  
**September 27 – October 26, 2011**


Test Report No  
**RTS-5955-1110-23**

FCC ID:  
**L6AREQ70UW**

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0 dB = 0.010mW/g

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Date/Time: 10/11/2011 8:08:27 PM, Date/Time: 10/11/2011 8:13:27 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_802.11b\_low\_chan\_amb\_temp\_23.3\_liq\_temp\_22.8C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11 b (2450); Frequency: 2412 MHz

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.836$  mho/m;  $\epsilon_r = 39.639$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.029 mW/g

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

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

Reference Value = 1.482 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.041 W/kg

**SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.010 mW/g**

Maximum value of SAR (measured) = 0.025 mW/g



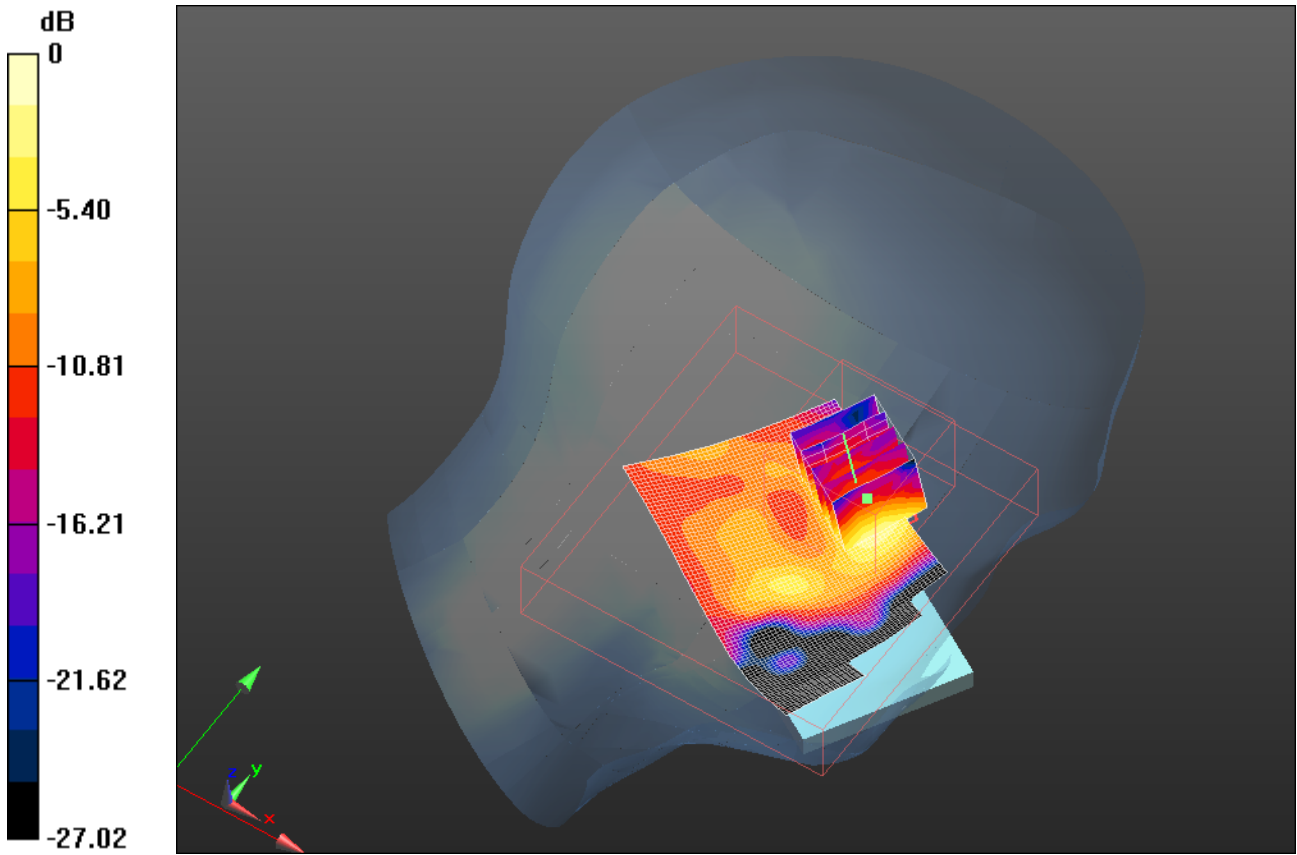
Author Data  
**Andrew Becker**

Dates of Test  
**September 27 – October 26, 2011**


Test Report No  
**RTS-5955-1110-23**

FCC ID:  
**L6AREQ70UW**

IC ID  
**2503A-REQ70UW**



0 dB = 0.030mW/g

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Date/Time: 10/11/2011 8:27:35 PM, Date/Time: 10/11/2011 8:32:35 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_802.11b\_mid\_chan\_amb\_temp\_23.5\_liq\_temp\_23.0C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11 b (2450); Frequency: 2437 MHz

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.869$  mho/m;  $\epsilon_r = 39.537$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.040 mW/g

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

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

Reference Value = 1.219 V/m; Power Drift = 2.64 dB

Peak SAR (extrapolated) = 0.053 W/kg

**SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.014 mW/g**

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

Maximum value of SAR (measured) = 0.034 mW/g

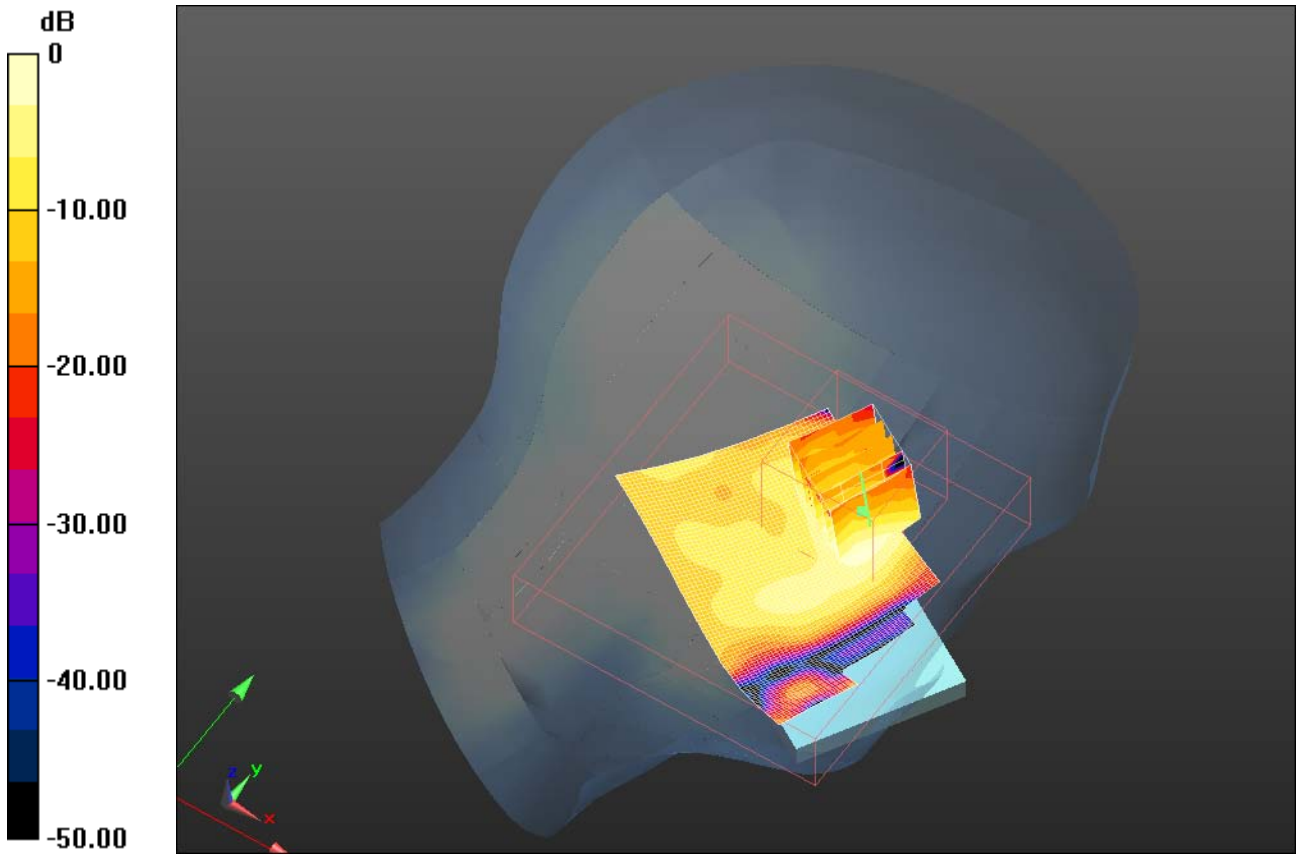
Author Data  
**Andrew Becker**

Dates of Test  
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Test Report No  
**RTS-5955-1110-23**

FCC ID:  
**L6AREQ70UW**

IC ID  
**2503A-REQ70UW**



0 dB = 0.030mW/g

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Date/Time: 10/11/2011 8:52:58 PM, Date/Time: 10/11/2011 8:57:59 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_802.11b\_high\_chan\_amb\_temp\_23.8\_liq\_temp\_23.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.902$  mho/m;  $\epsilon_r = 39.434$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.086 mW/g

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

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

Reference Value = 1.476 V/m; Power Drift = 1.48 dB

Peak SAR (extrapolated) = 0.125 W/kg

**SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.032 mW/g**

Maximum value of SAR (measured) = 0.081 mW/g

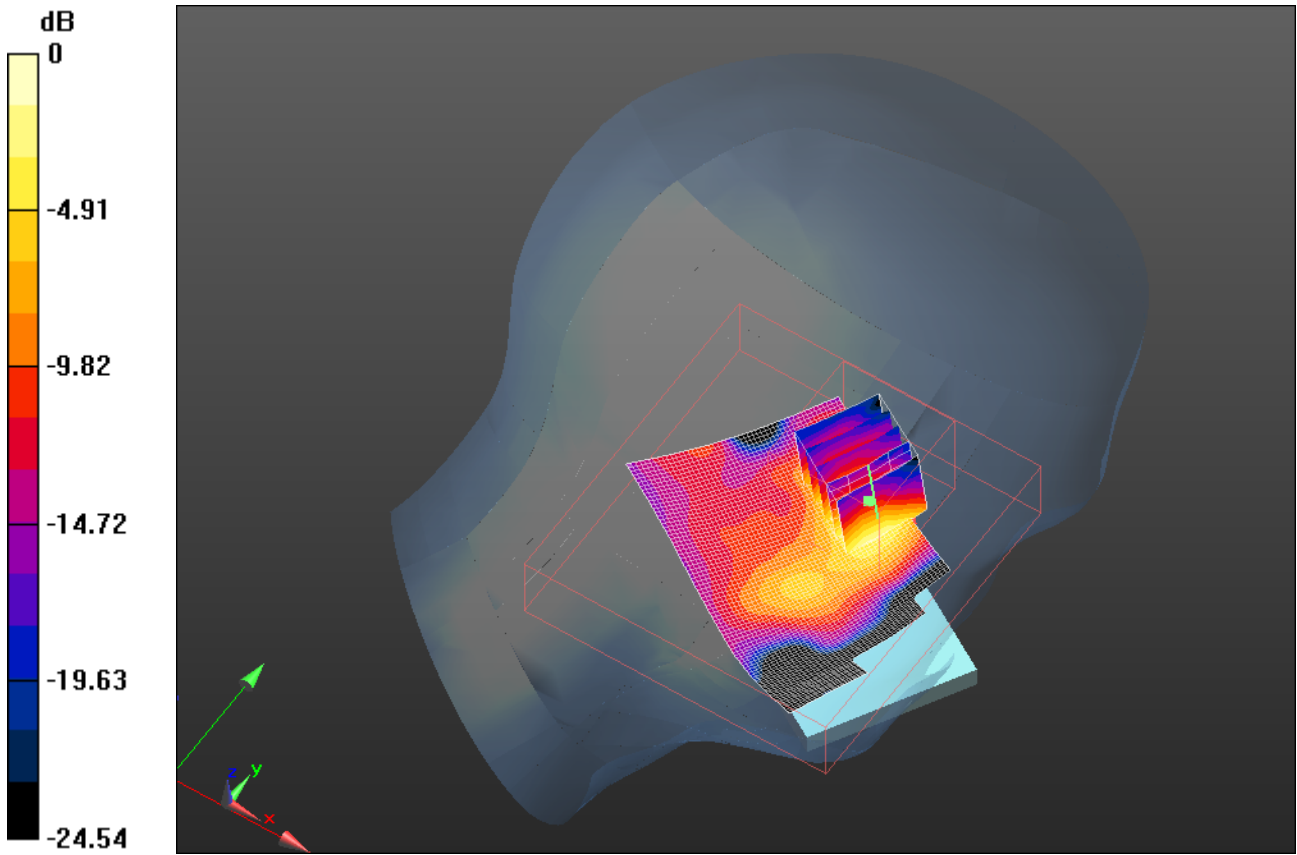
Author Data  
**Andrew Becker**

Dates of Test  
**September 27 – October 26, 2011**


Test Report No  
**RTS-5955-1110-23**

FCC ID:  
**L6AREQ70UW**

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0 dB = 0.080mW/g

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Date/Time: 10/11/2011 9:31:17 PM, Date/Time: 10/11/2011 9:36:26 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_802.11b\_high\_chan\_amb\_temp\_23.3\_liq\_temp\_22.8**

**C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.902$  mho/m;  $\epsilon_r = 39.434$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x81x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.015 mW/g

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

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

Reference Value = 1.279 V/m; Power Drift = 1.83 dB

Peak SAR (extrapolated) = 0.025 W/kg

**SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00553 mW/g**

Maximum value of SAR (measured) = 0.015 mW/g

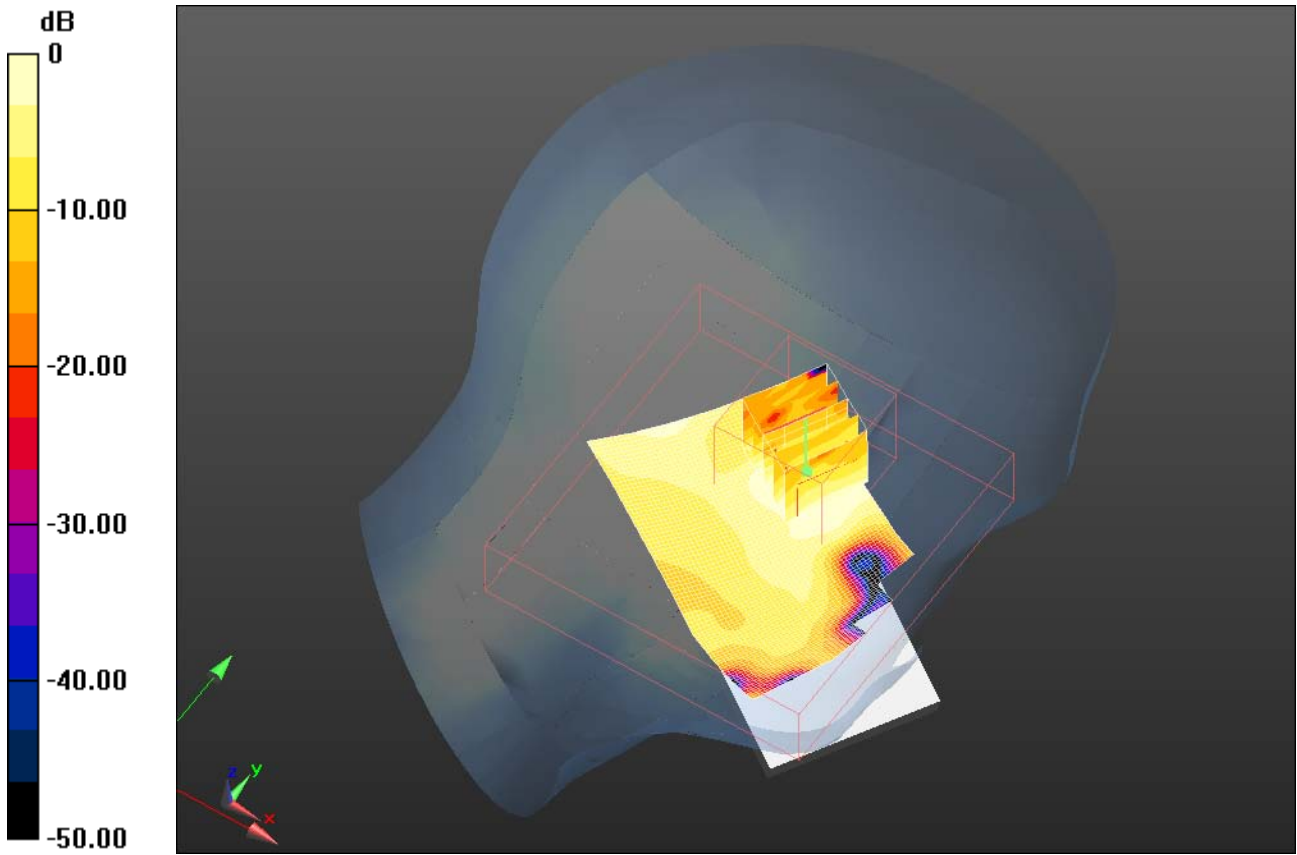
Author Data  
**Andrew Becker**

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**September 27 – October 26, 2011**


Test Report No  
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FCC ID:  
**L6AREQ70UW**

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0 dB = 0.010mW/g

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Date/Time: 10/12/2011 6:09:50 PM, Date/Time: 10/12/2011 6:14:55 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_Bluetooth\_mid\_chan\_amb\_temp\_23.8\_liq\_temp\_22.7C

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 28403322**

Communication System: Bluetooth; Frequency: 2441 MHz

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.874$  mho/m;  $\epsilon_r = 39.523$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.00382 mW/g

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

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

Reference Value = 1.189 V/m; Power Drift = -1.25 dB

Peak SAR (extrapolated) = 0.00375 W/kg

**SAR(1 g) = 0.00112 mW/g; SAR(10 g) = 0.000374 mW/g**

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

Maximum value of SAR (measured) = 0.00159 mW/g



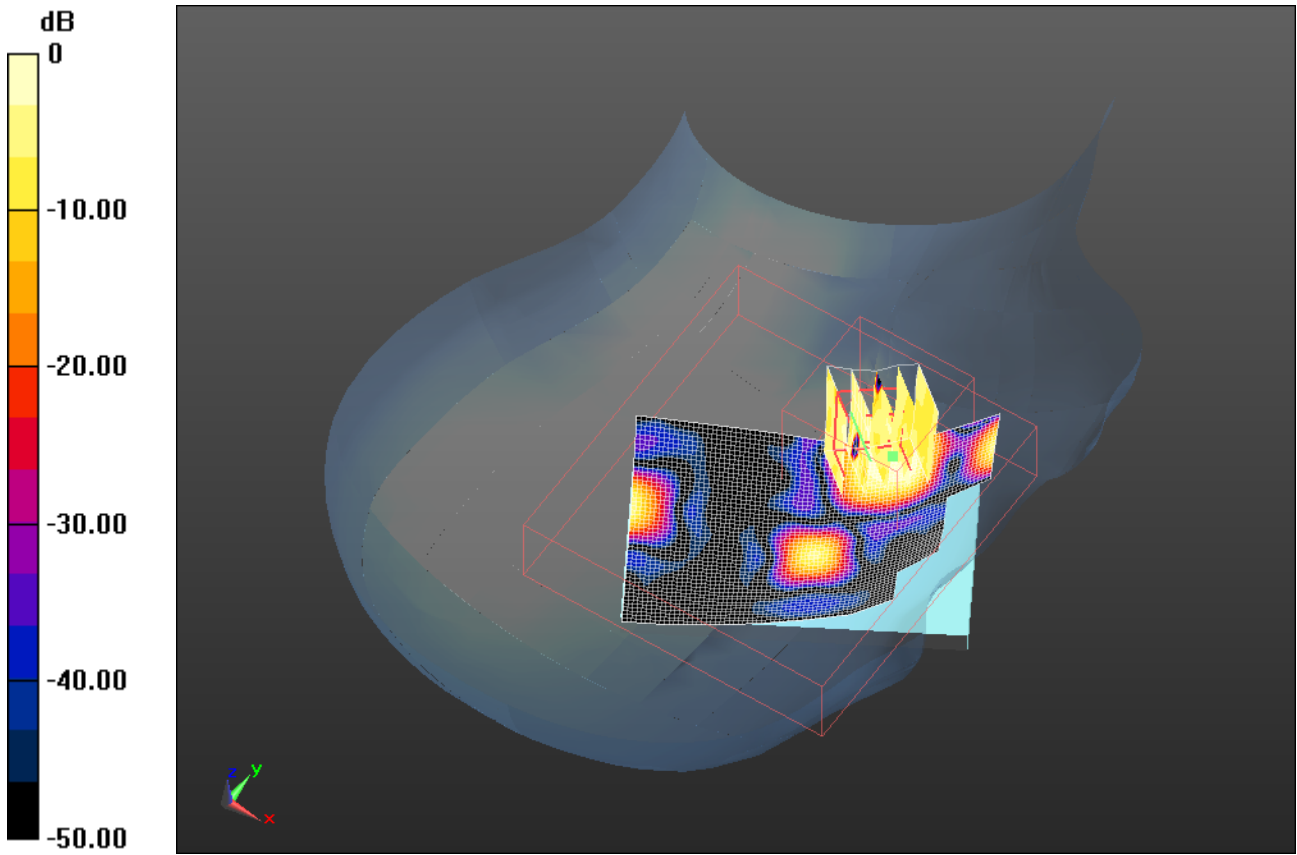
Author Data  
**Andrew Becker**

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**September 27 – October 26, 2011**


Test Report No  
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0 dB = 0.0016mW/g

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Date/Time: 10/12/2011 6:45:23 PM, Date/Time: 10/12/2011 6:50:22 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_Bluetooth\_mid\_chan\_amb\_temp\_23.8\_liq\_temp\_22.7C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: Bluetooth; Frequency: 2441 MHz

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.874$  mho/m;  $\epsilon_r = 39.523$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.0012 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x7x7)/Cube 0:**

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

Reference Value = 0.878 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.00191 W/kg

**SAR(1 g) = 0.000526 mW/g; SAR(10 g) = 0.000162 mW/g**

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

Maximum value of SAR (measured) = 0.00109 mW/g

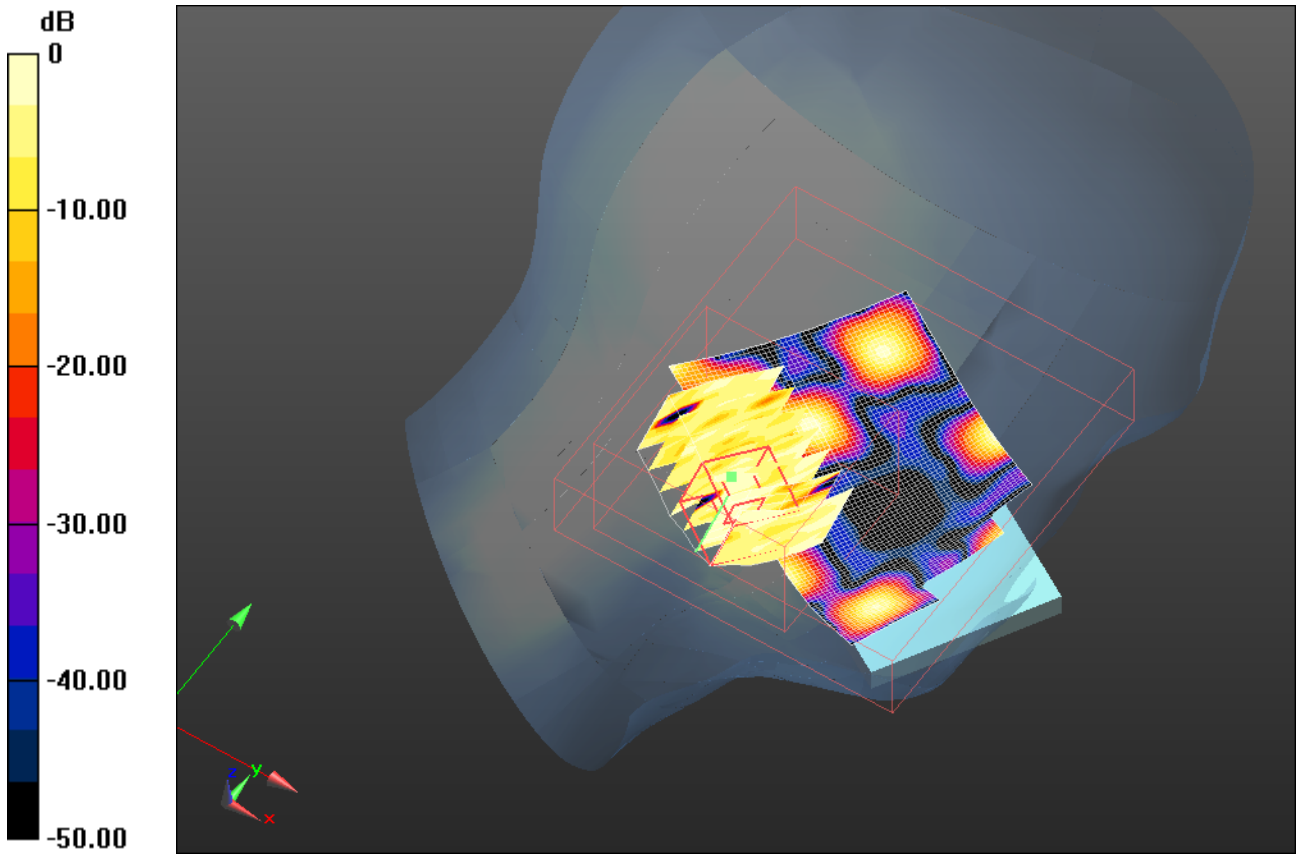
Author Data  
**Andrew Becker**

Dates of Test  
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Test Report No  
**RTS-5955-1110-23**

FCC ID:  
**L6AREQ70UW**

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0 dB = 0.0011mW/g

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Date/Time: 9/27/2011 11:59:34 PM, Date/Time: 9/28/2011 12:10:55 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_802.11a\_low\_band\_chan\_36\_amb\_temp\_22.3\_liq\_temp\_20.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11a ; Frequency: 5180 MHz  
Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.921$  mho/m;  $\epsilon_r = 35.206$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.5, 4.5, 4.5); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (81x121x1):** Measurement grid:  
dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.042 mW/g

**Configuration/Touch position -/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), Graded, dist=2mm (10x10x5)/Cube 0:** Measurement grid:  
dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 1.551 V/m; Power Drift = 4.25 dB  
Peak SAR (extrapolated) = 0.072 W/kg  
**SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.014 mW/g**  
Maximum value of SAR (measured) = 0.028 mW/g

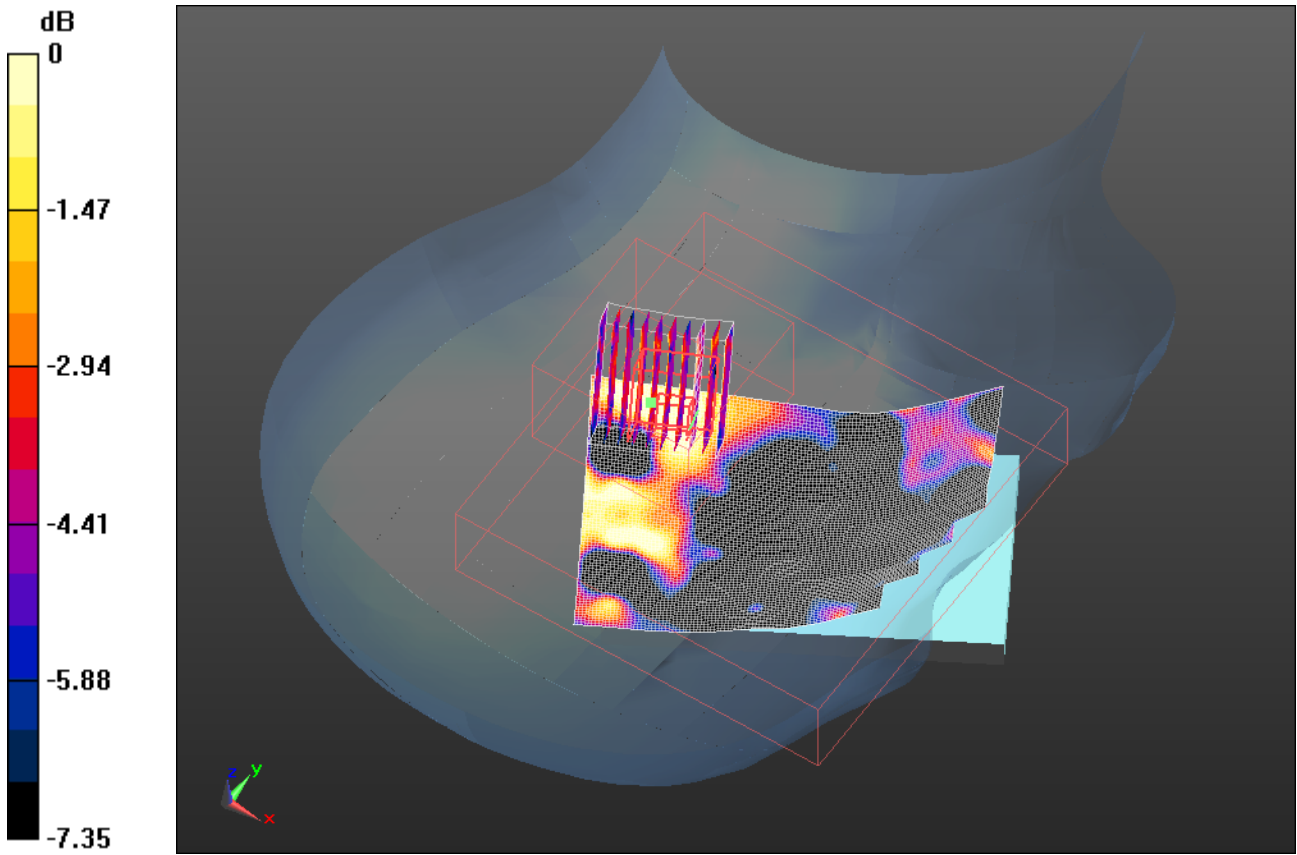
Author Data  
**Andrew Becker**

Dates of Test  
**September 27 – October 26, 2011**


Test Report No  
**RTS-5955-1110-23**

FCC ID:  
**L6AREQ70UW**

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0 dB = 0.030mW/g

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Date/Time: 9/28/2011 12:50:29 AM, Date/Time: 9/28/2011 1:01:31 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_802.11a\_low\_band\_chan\_52\_amb\_temp\_23.5\_liq\_temp\_21.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11a ; Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.033$  mho/m;  $\epsilon_r = 35.058$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.5, 4.5, 4.5); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (81x121x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (interpolated) = 0.037 mW/g

**Configuration/Touch position -/Zoom Scan -Ext(24x24x20), Step**

**(4x4x2.5mm) ,Graded, dist=2mm (10x15x5)/Cube 0:** Measurement grid:

$dx=4$ mm,  $dy=4$ mm,  $dz=2.5$ mm

Reference Value = 2.914 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.067 W/kg

**SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.016 mW/g**

Maximum value of SAR (measured) = 0.042 mW/g

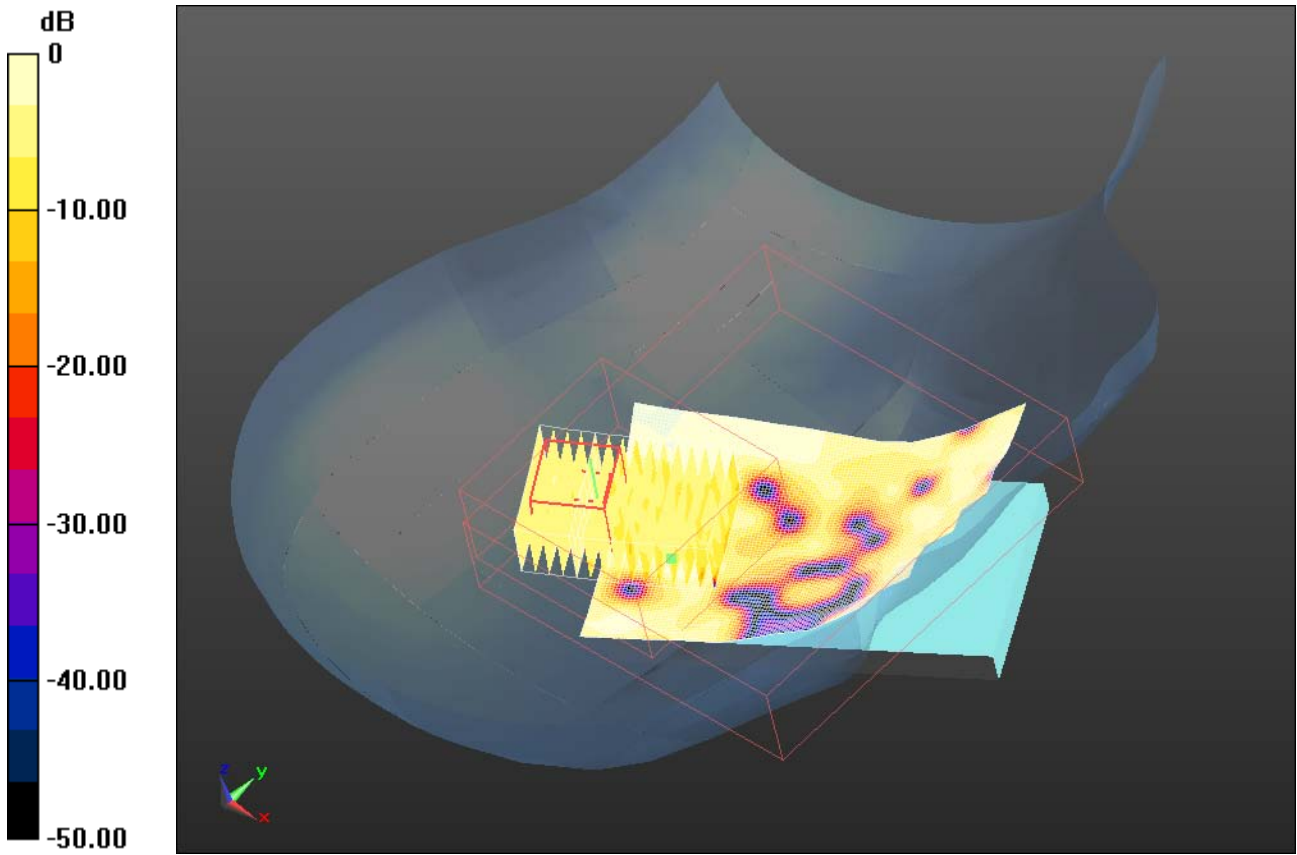
Author Data  
**Andrew Becker**

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0 dB = 0.040mW/g

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Date/Time: 9/28/2011 10:33:52 AM, Date/Time: 9/28/2011 10:44:51 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_802.11a\_low\_band\_ungraded\_chan\_52\_amb\_temp\_23.  
1\_liq\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11a ; Frequency: 5260 MHz  
Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.033$  mho/m;  $\epsilon_r = 35.058$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.5, 4.5, 4.5); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (81x121x1):** Measurement grid:  
dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.048 mW/g

**Configuration/Touch position -/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm) ,Graded, dist=2mm (8x8x9)/Cube 0:** Measurement grid:  
dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 3.721 V/m; Power Drift = -0.29 dB  
Peak SAR (extrapolated) = 0.084 W/kg  
**SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.019 mW/g**  
Maximum value of SAR (measured) = 0.046 mW/g



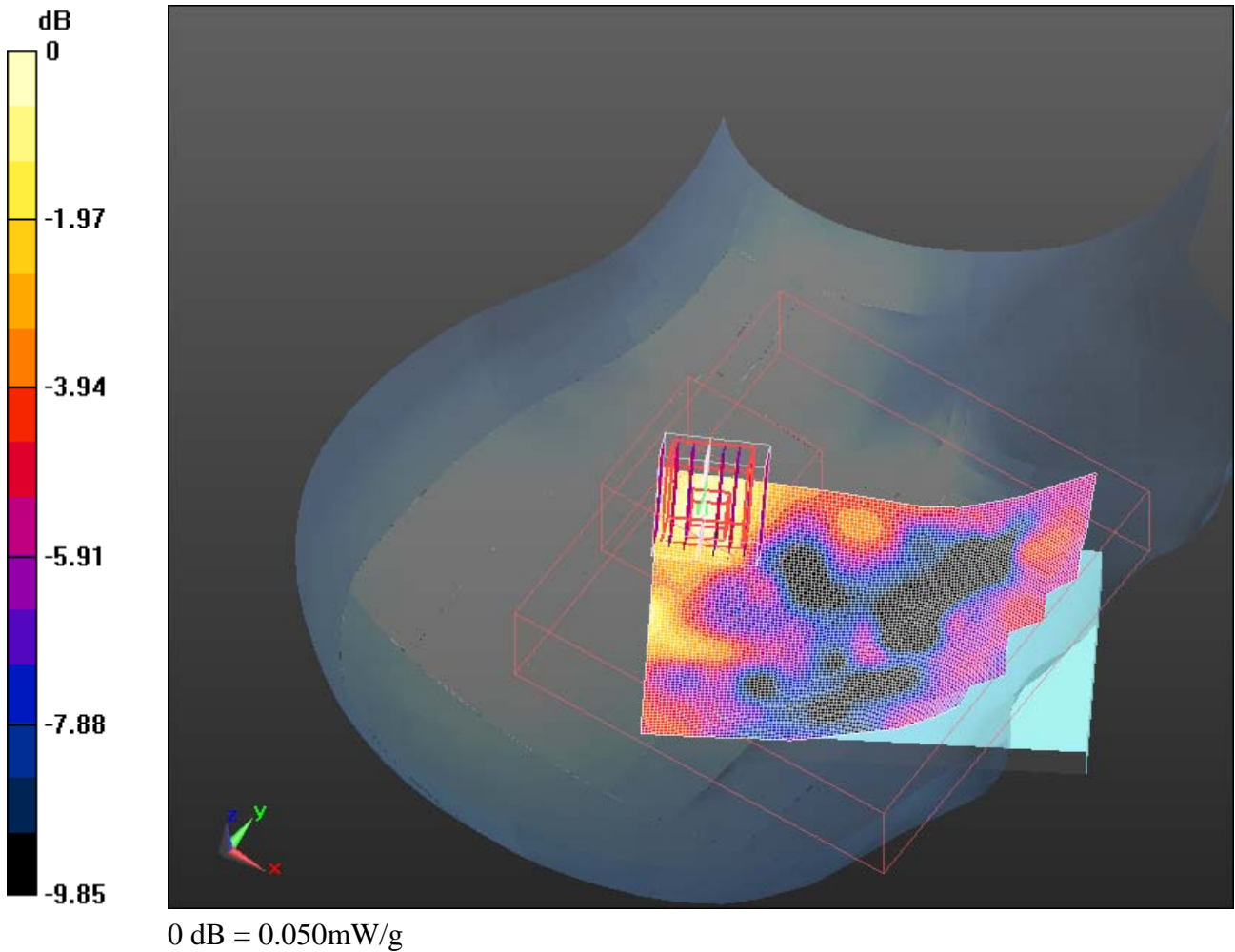
Author Data  
**Andrew Becker**


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Date/Time: 9/28/2011 1:52:18 AM, Date/Time: 9/28/2011 2:03:19 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_802.11a\_upper\_band\_l\_chan\_104\_amb\_temp\_23.3\_liq\_temp\_21.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11a ; Frequency: 5520 MHz  
Medium parameters used:  $f = 5520$  MHz;  $\sigma = 5.161$  mho/m;  $\epsilon_r = 33.668$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.25, 4.25, 4.25); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (81x121x1):** Measurement grid:  
dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.037 mW/g

**Configuration/Touch position -/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm) ,Graded, dist=2mm (10x10x5)/Cube 0:** Measurement grid:  
dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 2.916 V/m; Power Drift = 0.17 dB  
Peak SAR (extrapolated) = 0.132 W/kg  
**SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.013 mW/g**  
Maximum value of SAR (measured) = 0.024 mW/g

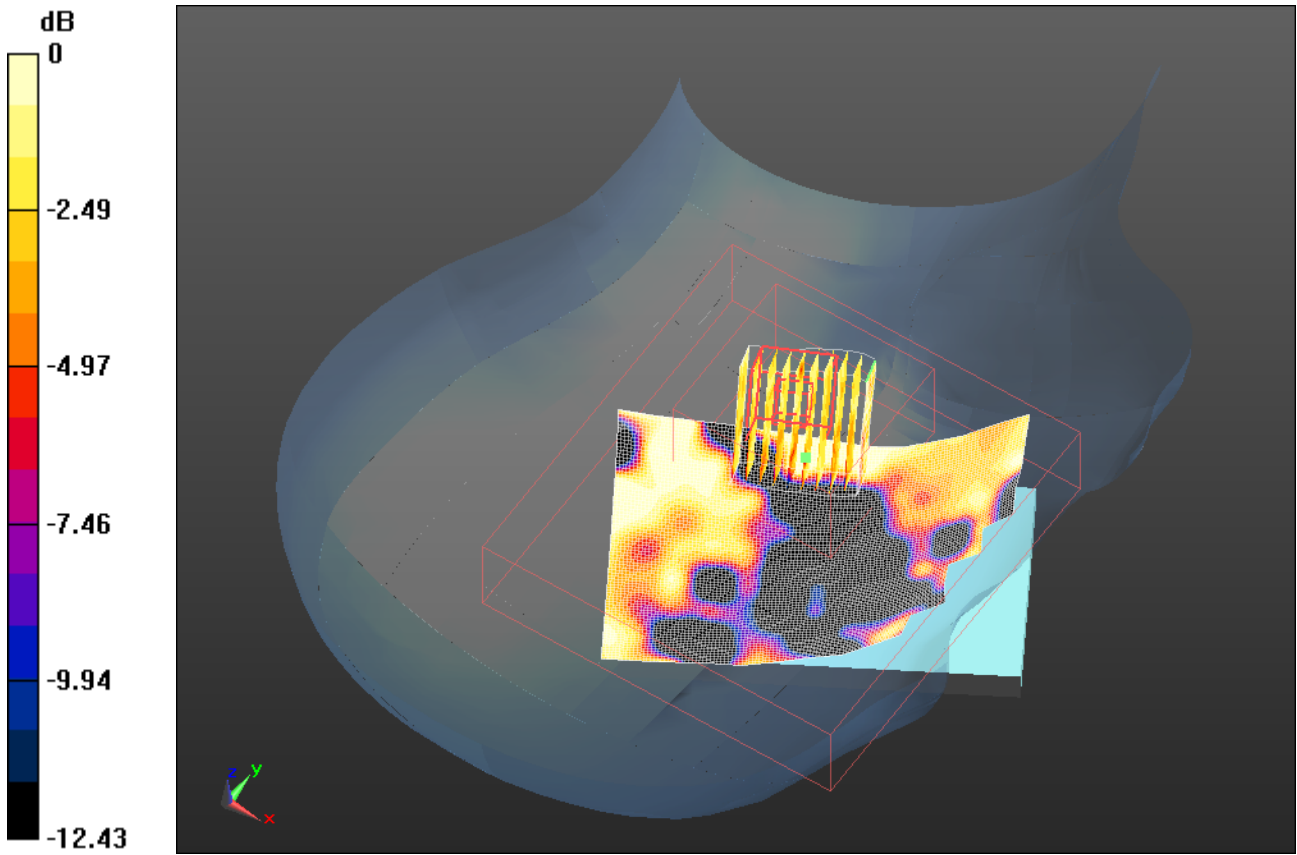
Author Data  
**Andrew Becker**

Dates of Test  
**September 27 – October 26, 2011**


Test Report No  
**RTS-5955-1110-23**

FCC ID:  
**L6AREQ70UW**

IC ID  
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0 dB = 0.020mW/g

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Date/Time: 9/28/2011 2:44:49 AM, Date/Time: 9/28/2011 2:56:23 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_802.11a\_upper\_band\_II\_chan\_149\_amb\_temp\_23.3\_liq  
\_temp\_21.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11a ; Frequency: 5745 MHz  
Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.466$  mho/m;  $\epsilon_r = 34.033$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.98, 3.98, 3.98); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (81x121x1):** Measurement grid:  
dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.024 mW/g

**Configuration/Touch position -/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm) ,Graded, dist=2mm (11x11x5)/Cube 0:** Measurement grid:  
dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 2.032 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.093 W/kg  
**SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.015 mW/g**  
Maximum value of SAR (measured) = 0.025 mW/g

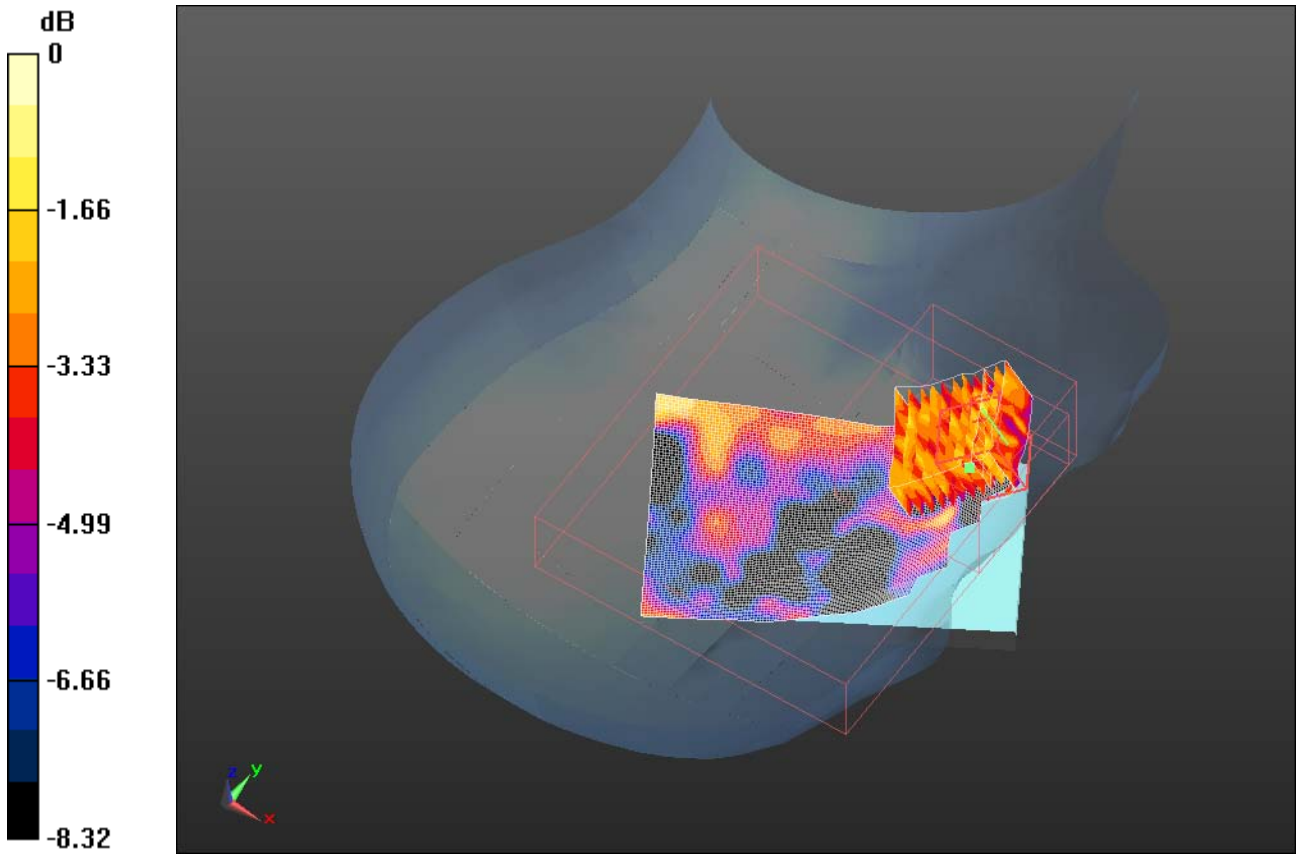
Author Data  
**Andrew Becker**

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**September 27 – October 26, 2011**


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**RTS-5955-1110-23**

FCC ID:  
**L6AREQ70UW**

IC ID  
**2503A-REQ70UW**



0 dB = 0.030mW/g

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Date/Time: 9/28/2011 11:21:28 AM, Date/Time: 9/28/2011 11:32:26 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_Tilted\_802.11a\_low\_band\_chan\_52\_amb\_temp\_23.8\_liq  
\_temp\_21.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11a ; Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.033$  mho/m;  $\epsilon_r = 35.058$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.5, 4.5, 4.5); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (81x121x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (interpolated) = 0.039 mW/g

**Configuration/Touch position -/Zoom Scan -Ext(24x24x20), Step**

**(4x4x2.5mm) ,Graded, dist=2mm (8x8x9)/Cube 0:** Measurement grid:

$dx=4$ mm,  $dy=4$ mm,  $dz=2.5$ mm

Reference Value = 2.769 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.116 W/kg

**SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.017 mW/g**

Maximum value of SAR (measured) = 0.038 mW/g

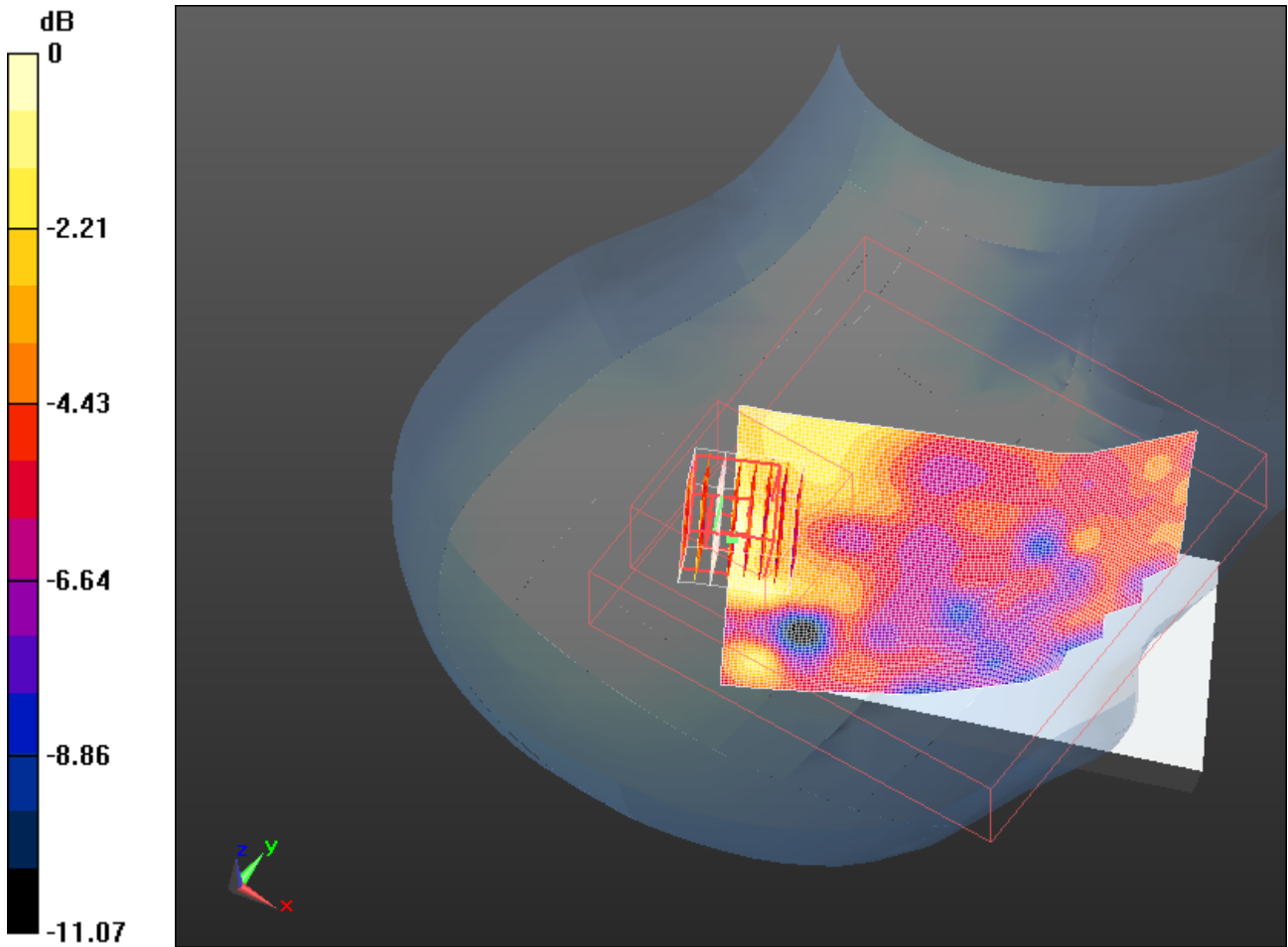
Author Data  
**Andrew Becker**

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0 dB = 0.040mW/g

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Date/Time: 9/28/2011 12:23:00 PM, Date/Time: 9/28/2011 12:35:15 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_802.11a\_low\_band\_chan\_52\_amb\_temp\_23.7\_liq\_temp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11a ; Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.033$  mho/m;  $\epsilon_r = 35.058$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.5, 4.5, 4.5); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position - 2/Area Scan (91x131x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (interpolated) = 0.104 mW/g

**Configuration/Touch position - 2/Zoom Scan (4x4x2.5), Graded,**

**(9x9x5)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2.5$ mm

Reference Value = 2.562 V/m; Power Drift = -0.37 dB

Peak SAR (extrapolated) = 0.199 W/kg

**SAR(1 g) = 0.051 mW/g; SAR(10 g) = 0.026 mW/g**

Maximum value of SAR (measured) = 0.095 mW/g



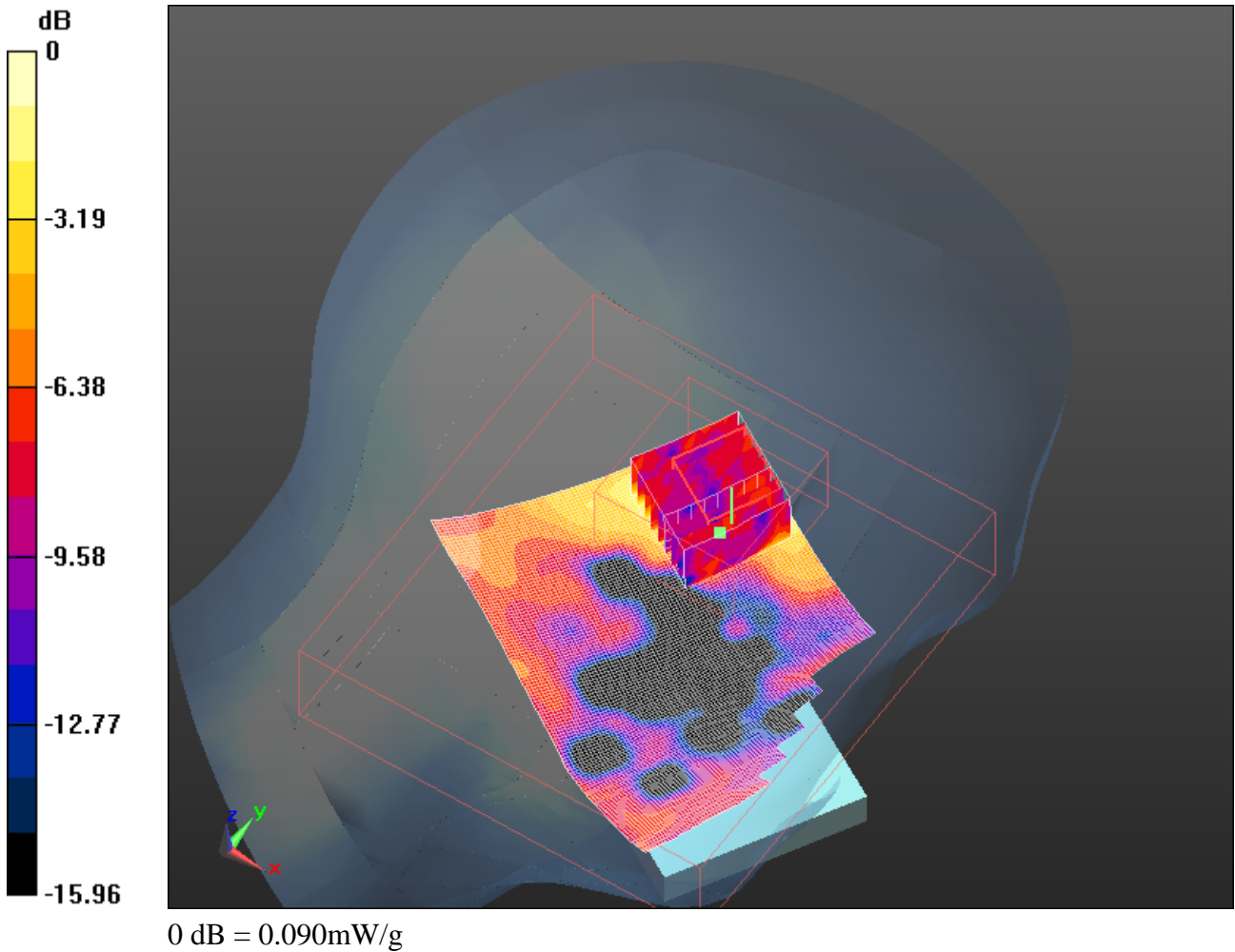
Author Data  
**Andrew Becker**


Dates of Test  
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Date/Time: 9/28/2011 2:21:05 PM, Date/Time: 9/28/2011 2:33:20 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_802.11a\_low\_band\_ungraded\_chan\_52\_amb\_temp\_22.7  
\_liq\_temp\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11a ; Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.033$  mho/m;  $\epsilon_r = 35.058$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.5, 4.5, 4.5); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position - 2/Area Scan (91x131x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

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

**Configuration/Touch position - 2/Zoom Scan (4x4x2.5), Ungraded,**

**(9x9x9)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2.5$ mm

Reference Value = 2.444 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.154 W/kg

**SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.025 mW/g**

Maximum value of SAR (measured) = 0.073 mW/g

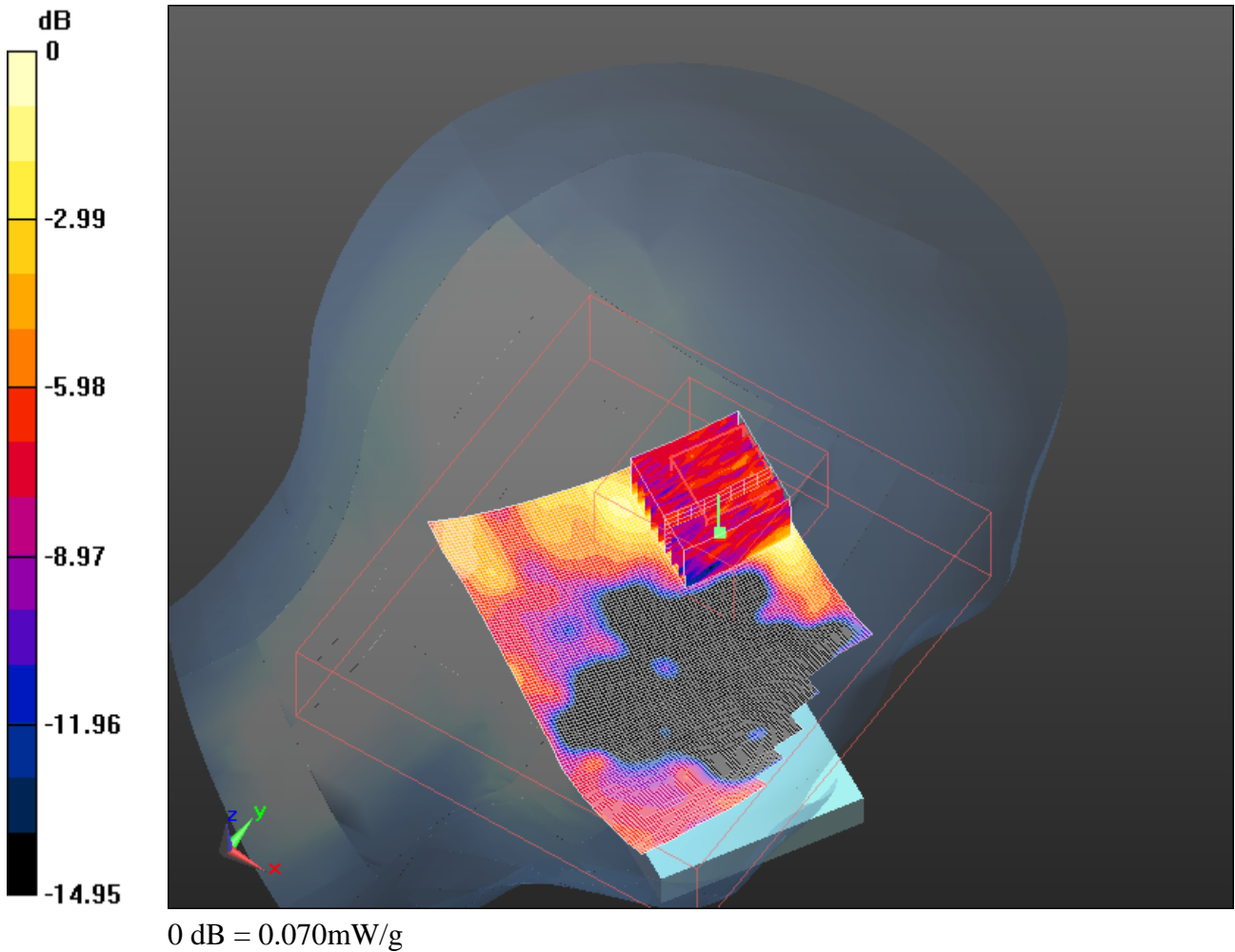
Author Data  
**Andrew Becker**


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Date/Time: 9/28/2011 1:10:38 PM, Date/Time: 9/28/2011 1:23:23 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilted\_802.11a\_low\_band\_chan\_52\_amb\_temp\_23.1\_liq\_temp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322**

Communication System: 802.11a ; Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.033$  mho/m;  $\epsilon_r = 35.058$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.5, 4.5, 4.5); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position - 2/Area Scan (91x131x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (interpolated) = 0.062 mW/g

**Configuration/Touch position - 2/Zoom Scan (4x4x2.5), Graded,**

**(11x11x5)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2.5$ mm

Reference Value = 2.413 V/m; Power Drift = 1.05 dB

Peak SAR (extrapolated) = 0.168 W/kg

**SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.022 mW/g**

Maximum value of SAR (measured) = 0.067 mW/g

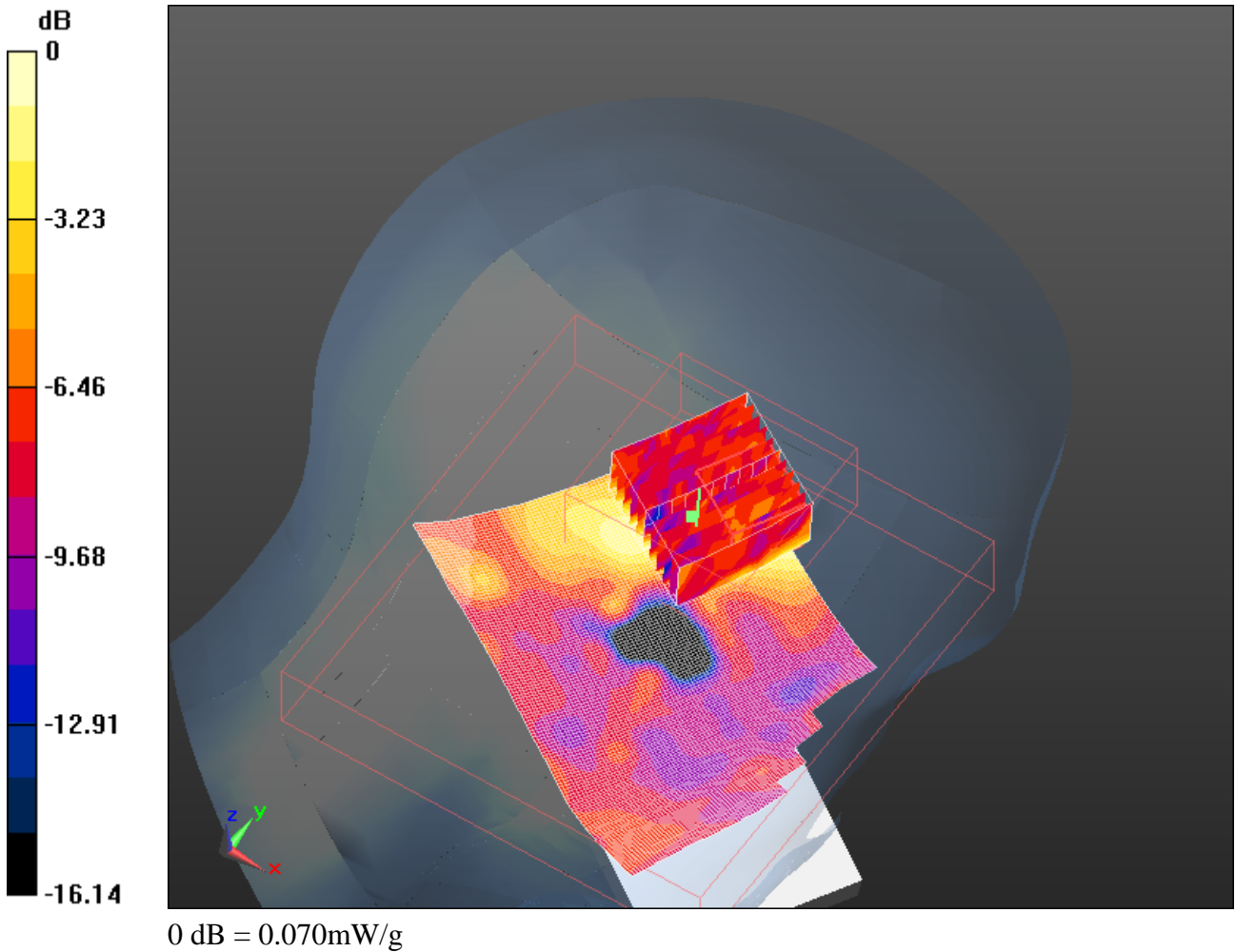
Author Data  
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**√Z axis plot for the worst case head configuration**

