




Document <b>Appendix C for the BlackBerry® Smartphone Model RDH71CW/RDQ71UW SAR Report</b>			Page <b>1(63)</b>	
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**APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION**

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Date/Time: 1/28/2011 10:26:19 AM

Test Laboratory: RIM Testing Services

**Vertical\_Holster\_Back\_GPRS850\_mid\_chan\_amb\_temp\_23.8C\_liq\_tem  
p\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 329A77DF**

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8 \text{ MHz}$ ;  $\sigma = 0.961 \text{ mho/m}$ ;  $\epsilon_r = 52.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.664 mW/g

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

Reference Value = 26.4 V/m; Power Drift = -0.359 dB

Peak SAR (extrapolated) = 0.719 W/kg

**SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.440 mW/g**

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

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

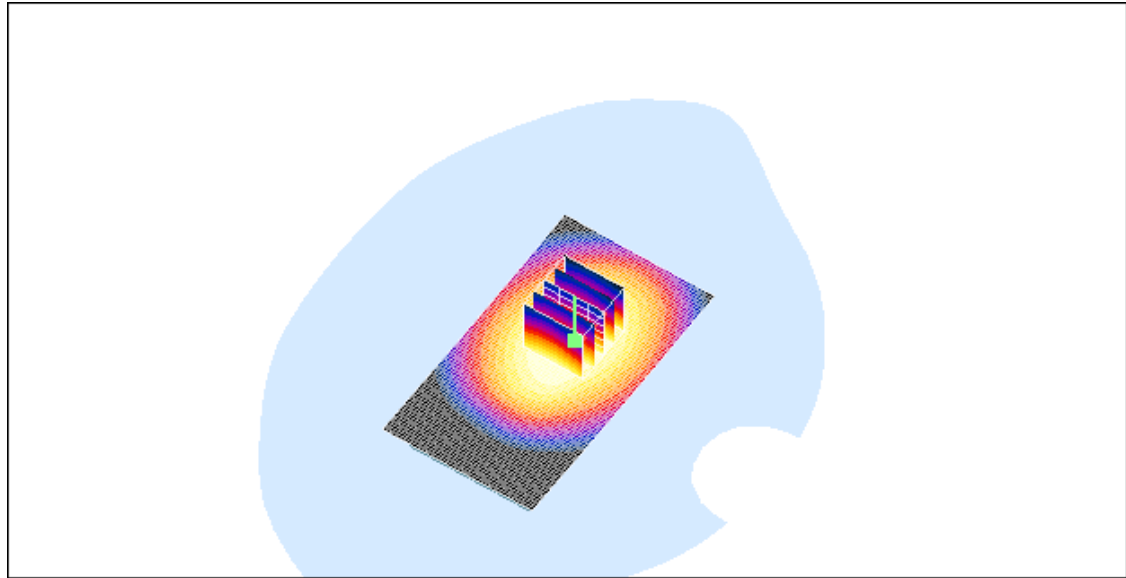
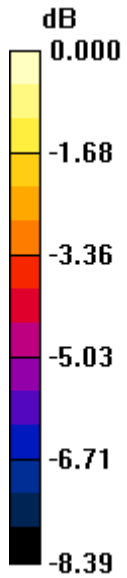
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


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**RTS-2605-1102-05B**

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0 dB = 0.626mW/g

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Date/Time: 4/21/2011 11:46:12 AM, Date/Time: 4/21/2011 11:53:22 AM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Front\_GPRS850\_mid\_chan\_amb\_temp\_23.3\_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: GPRS 850; Frequency: 836.8 MHz; Communication System  
PAR: 6.232 dB

Medium parameters used (interpolated):  $f = 836.8 \text{ MHz}$ ;  $\sigma = 0.976 \text{ mho/m}$ ;  $\epsilon_r = 53.625$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.434 mW/g


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

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

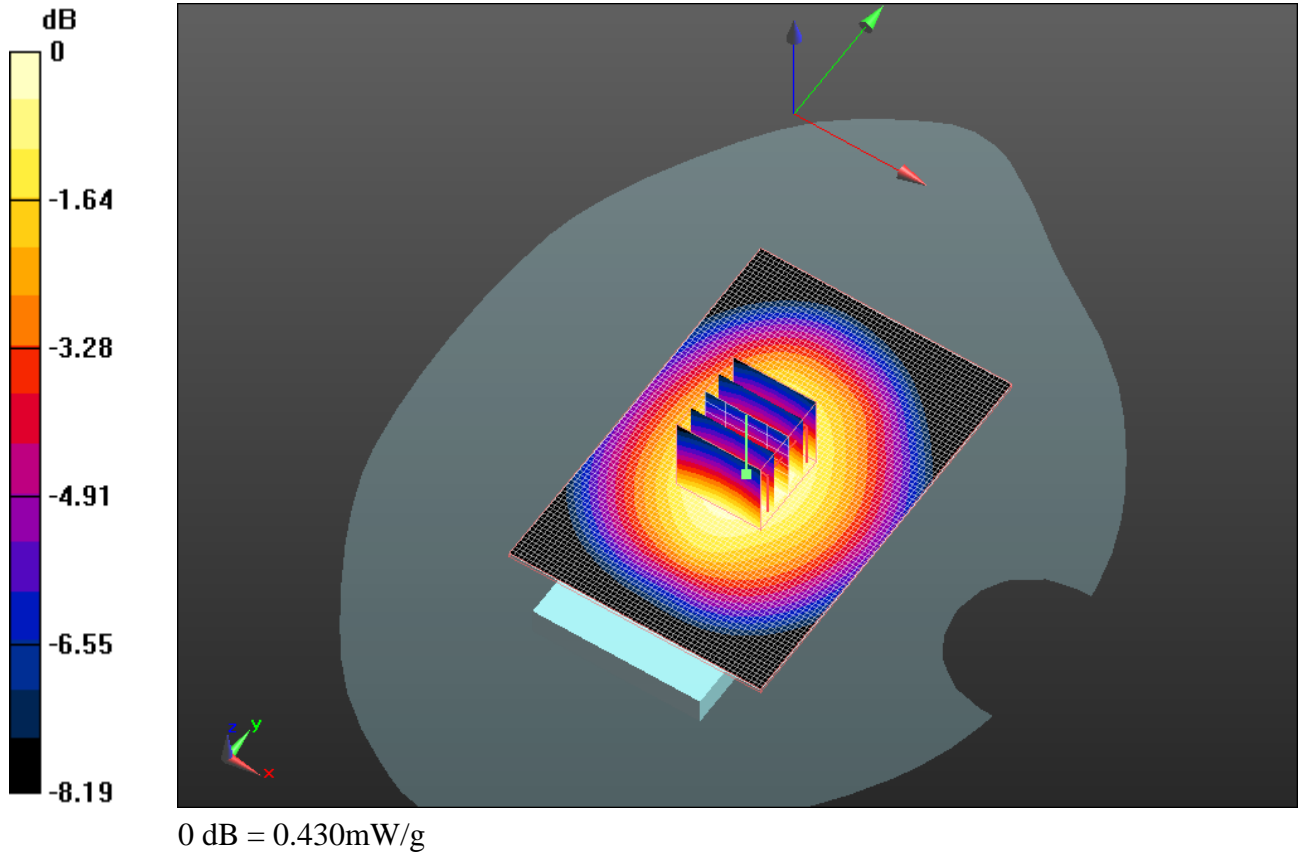
Reference Value = 20.938 V/m; Power Drift = -0.10 dB


Peak SAR (extrapolated) = 0.517 W/kg

**SAR(1 g) = 0.409 mW/g; SAR(10 g) = 0.308 mW/g**

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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 0.426 mW/g



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Date/Time: 4/21/2011 12:10:47 PM, Date/Time: 4/21/2011 12:17:59 PM

Test Laboratory: RIM Testing Services

## 25mm\_Spacer\_Back\_GPRS850\_mid\_chan\_amb\_temp\_23.3\_liq\_temp\_2 2.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: GPRS 850; Frequency: 836.8 MHz; Communication System  
PAR: 6.232 dB

Medium parameters used (interpolated):  $f = 836.8 \text{ MHz}$ ;  $\sigma = 0.976 \text{ mho/m}$ ;  $\epsilon_r = 53.625$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.364 mW/g


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

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

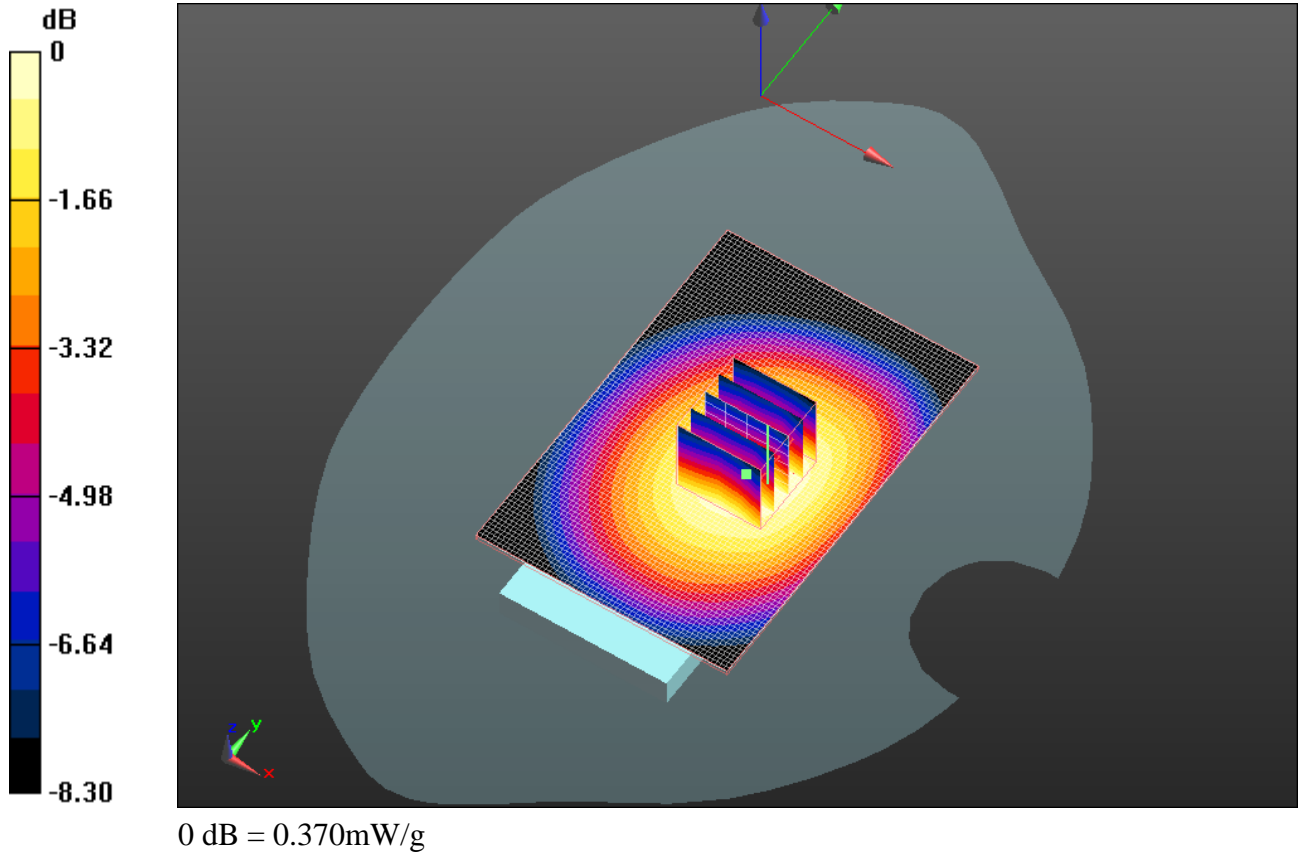
Reference Value = 19.483 V/m; Power Drift = -0.40 dB


Peak SAR (extrapolated) = 0.446 W/kg

**SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.252 mW/g**

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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 0.366 mW/g



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Date/Time: 4/21/2011 2:03:32 PM, Date/Time: 4/21/2011 2:10:37 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Headset\_Back\_GPRS850\_mid\_chan\_amb\_temp\_23.5\_liq\_temp\_22.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: GPRS 850; Frequency: 836.8 MHz; Communication System  
PAR: 6.232 dB

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.976$  mho/m;  $\epsilon_r = 53.625$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** 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) (6x6x7)/Cube 0:**


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

Reference Value = 22.018 V/m; Power Drift = -0.23 dB

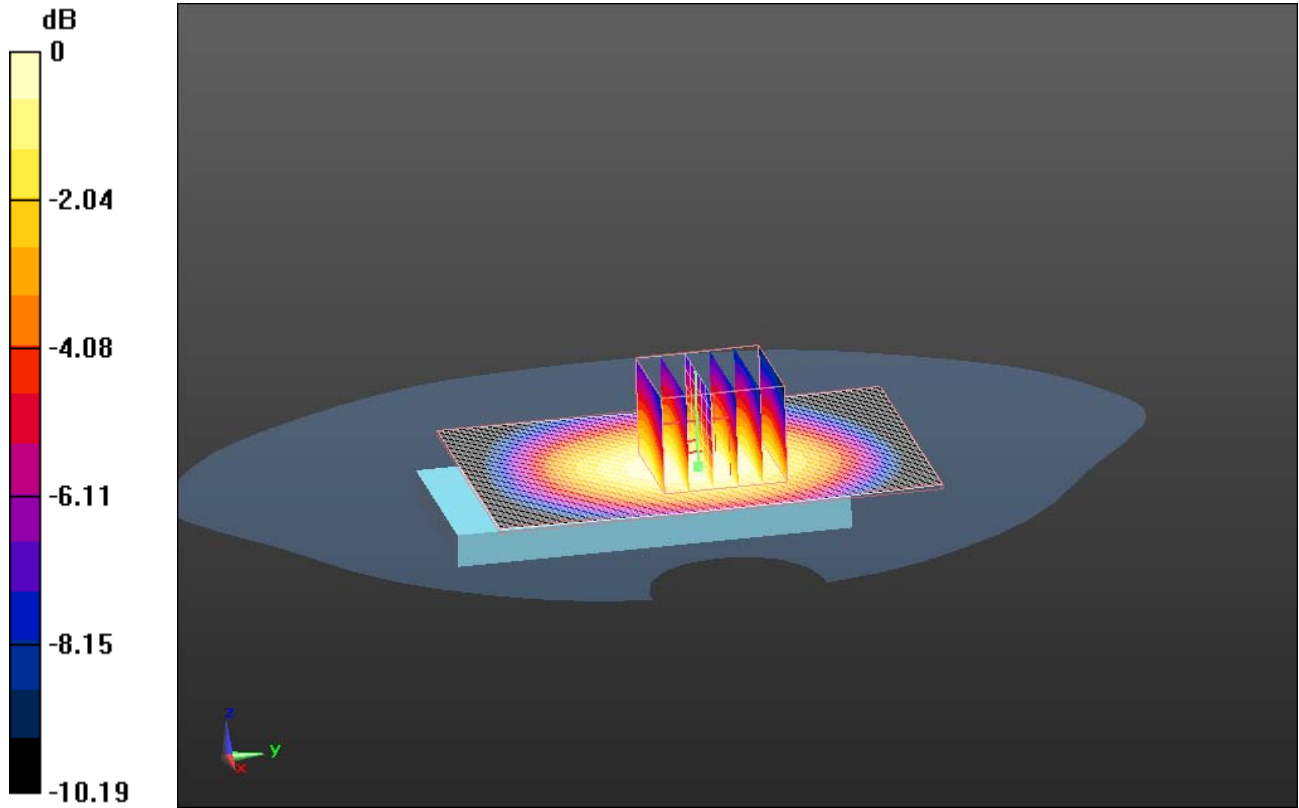
Peak SAR (extrapolated) = 0.574 W/kg

**SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.323 mW/g**




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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 0.462 mW/g



0 dB = 0.460mW/g

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Date/Time: 4/21/2011 12:33:42 PM, Date/Time: 4/21/2011 1:04:51 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_GPRS850\_3Slots\_mid\_chan\_amb\_temp\_23.3\_liq \_temp\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: GPRS 850 (3 slots); Frequency: 836.8 MHz; Communication System PAR: 4.472 dB

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.976$  mho/m;  $\epsilon_r = 53.625$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.532 mW/g


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

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

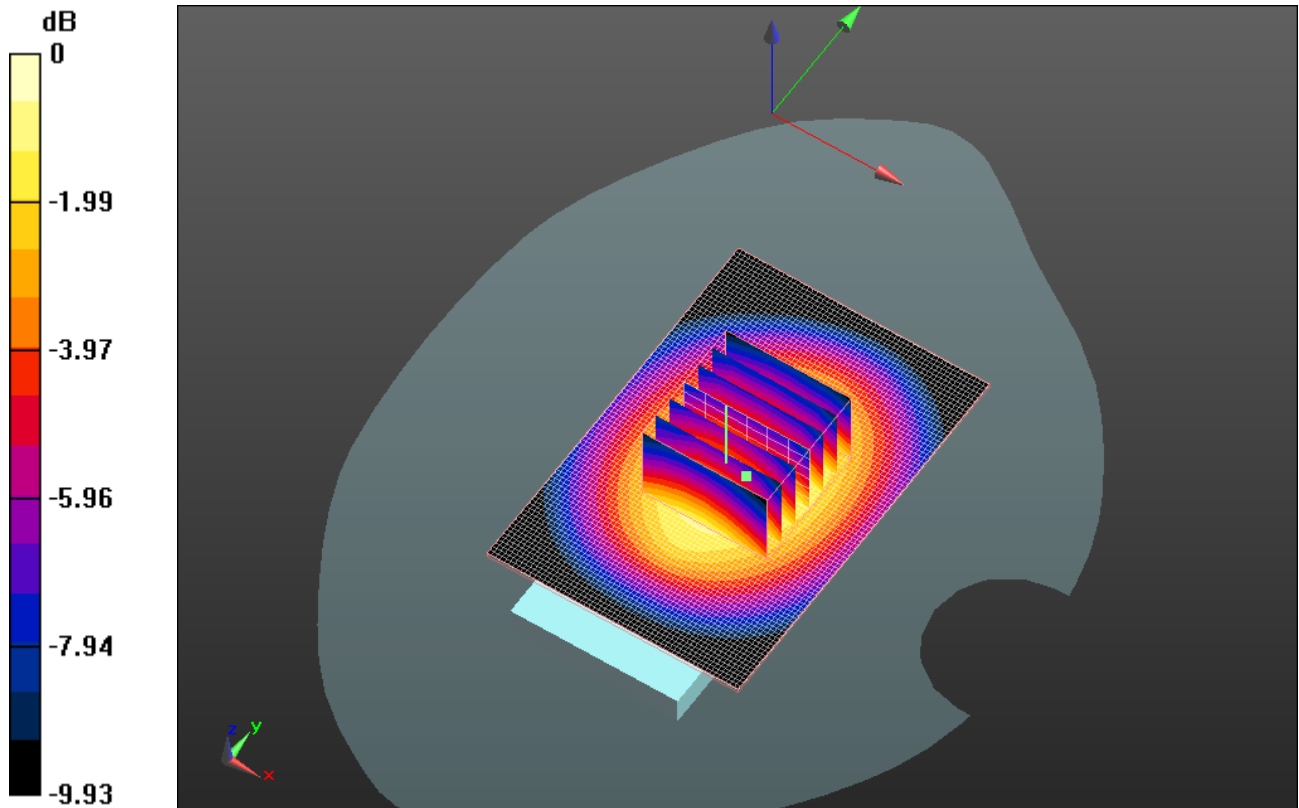
Reference Value = 23.317 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.668 W/kg


**SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.385 mW/g**

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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 0.547 mW/g



0 dB = 0.550mW/g

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Date/Time: 4/21/2011 1:19:29 PM, Date/Time: 4/21/2011 1:44:26 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_GPRS850\_4Slots\_mid\_chan\_amb\_temp\_23.3\_liq \_temp\_22.0C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: GPRS 850 (4 slots); Frequency: 836.8 MHz; Communication System PAR: 3.222 dB

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.976$  mho/m;  $\epsilon_r = 53.625$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.498 mW/g


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

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

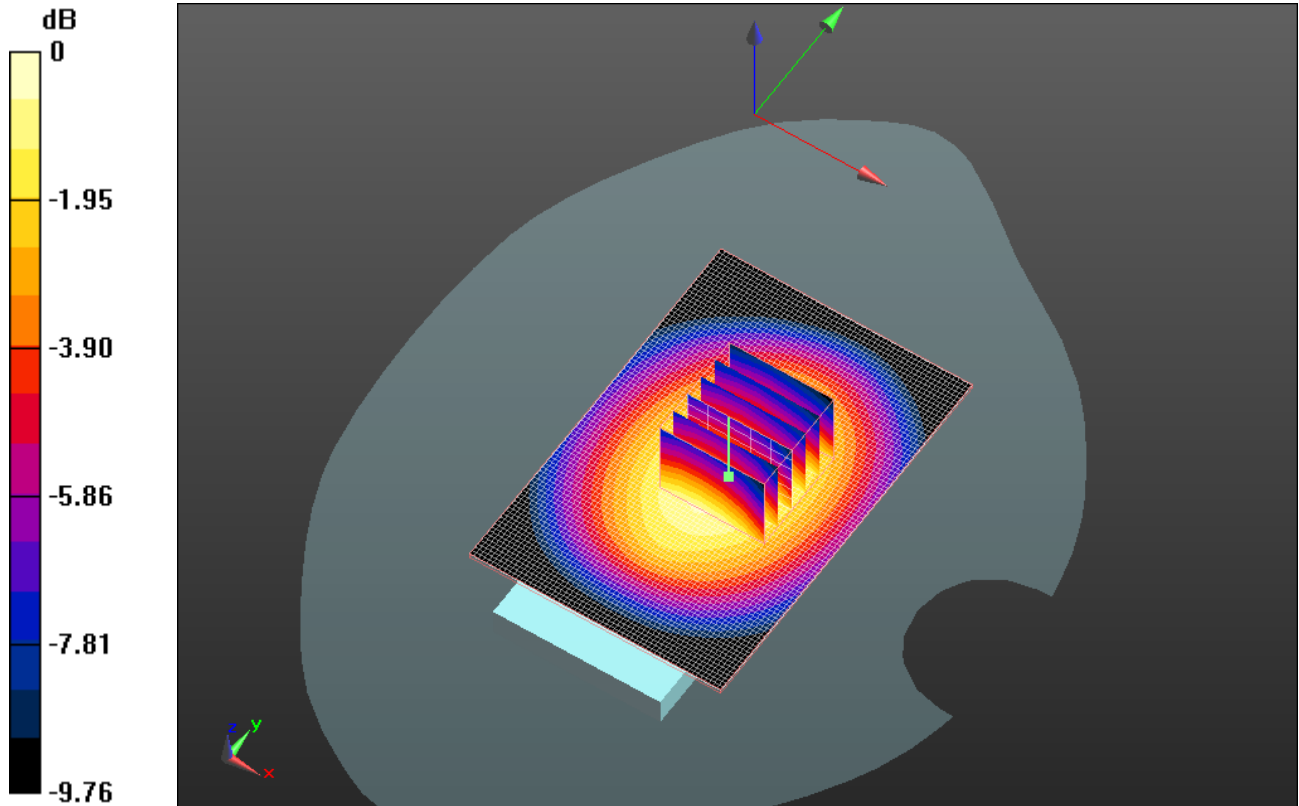
Reference Value = 22.635 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.638 W/kg


**SAR(1 g) = 0.490 mW/g; SAR(10 g) = 0.363 mW/g**

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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 0.519 mW/g



0 dB = 0.520mW/g

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Date/Time: 1/28/2011 3:18:35 PM

Test Laboratory: RIM Testing Services

**Vertical\_Holster\_Back\_CDMA800\_mid\_chan\_amb\_temp\_23.2C\_liq\_tem  
p\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 329A77DF**

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.961$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

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

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

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

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

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

Reference Value = 26.4 V/m; Power Drift = 0.162 dB

Peak SAR (extrapolated) = 0.773 W/kg

**SAR(1 g) = 0.624 mW/g; SAR(10 g) = 0.465 mW/g**

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

Maximum value of SAR (measured) = 0.658 mW/g

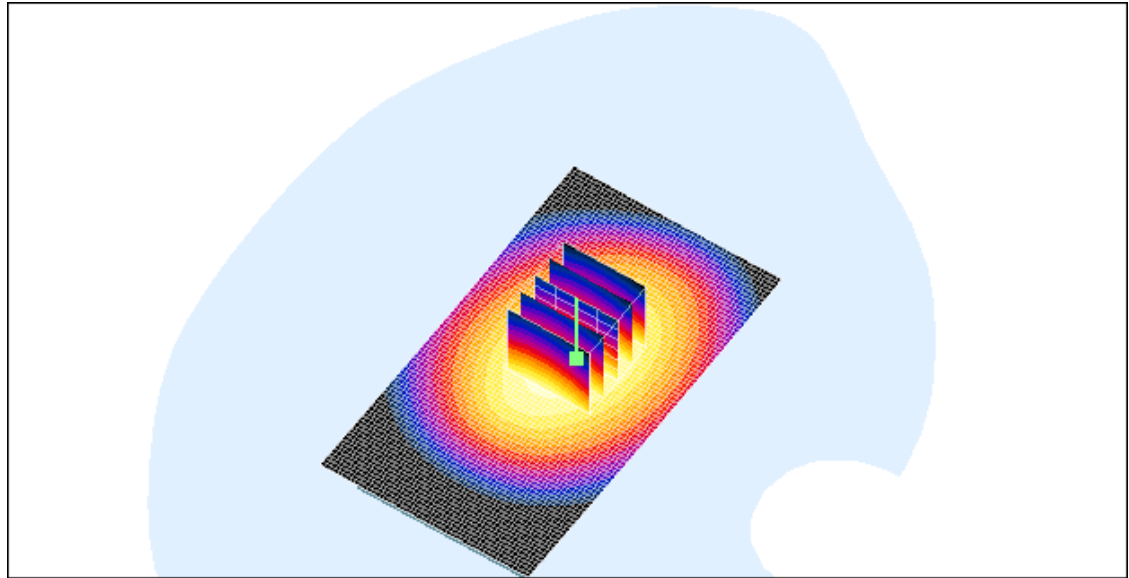
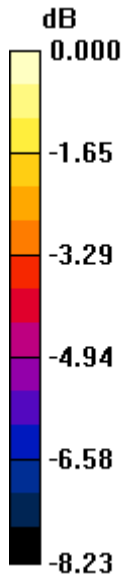
Author Data  
**Hang Wang**

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0 dB = 0.658mW/g

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Date/Time: 4/20/2011 10:23:44 PM, Date/Time: 4/20/2011 10:30:53 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Front\_CDMA800\_mid\_chan\_amb\_temp\_23.6\_liq\_temp \_22.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: CDMA 800; Frequency: 836.52 MHz; Communication System  
PAR: 0 dB

Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.976$  mho/m;  $\epsilon_r = 53.627$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.521 mW/g

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


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

Reference Value = 22.874 V/m; Power Drift = 0.06 dB

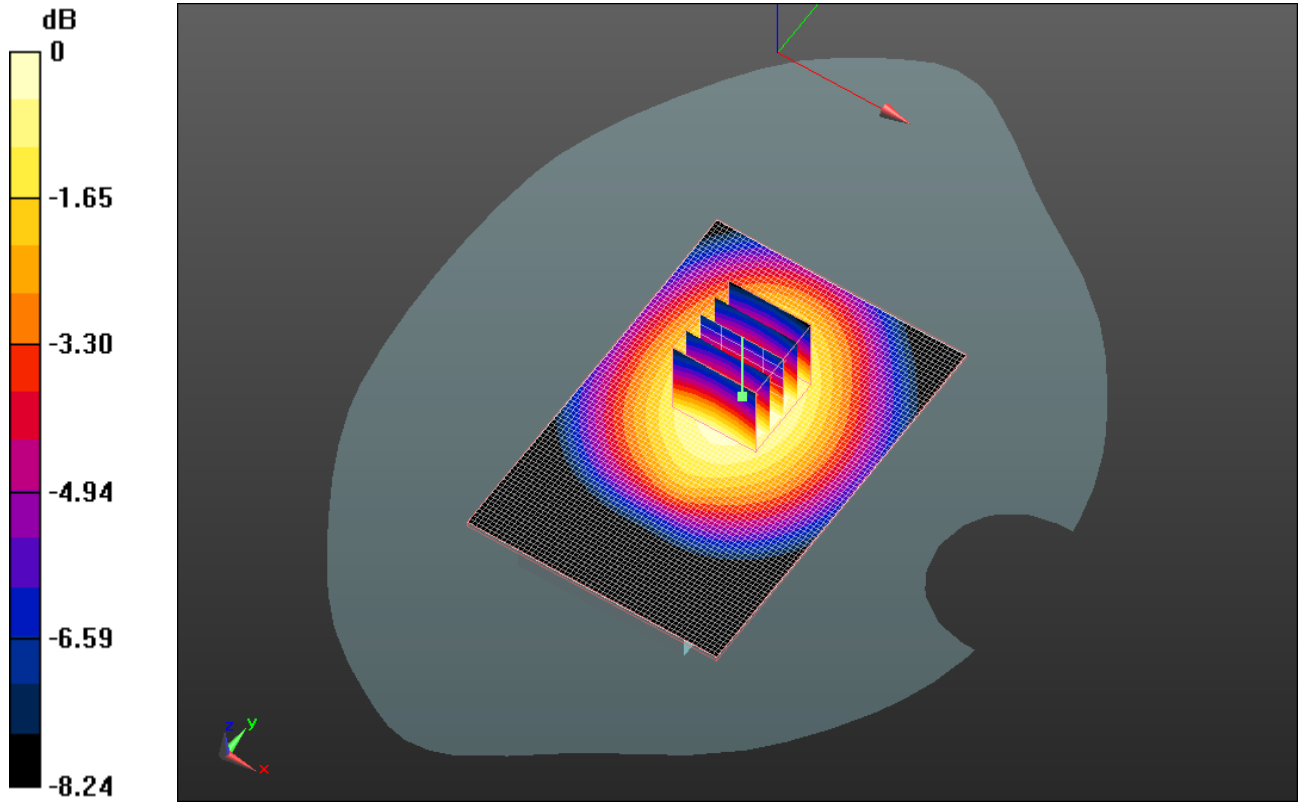
Peak SAR (extrapolated) = 0.627 W/kg

**SAR(1 g) = 0.496 mW/g; SAR(10 g) = 0.371 mW/g**




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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 0.523 mW/g



0 dB = 0.520mW/g

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Date/Time: 4/20/2011 10:39:35 PM, Date/Time: 4/20/2011 10:46:40 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_Headset\_CDMA800\_mid\_chan\_amb\_temp\_23.6\_liq\_temp\_22.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: CDMA 800; Frequency: 836.52 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.976$  mho/m;  $\epsilon_r = 53.627$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** 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

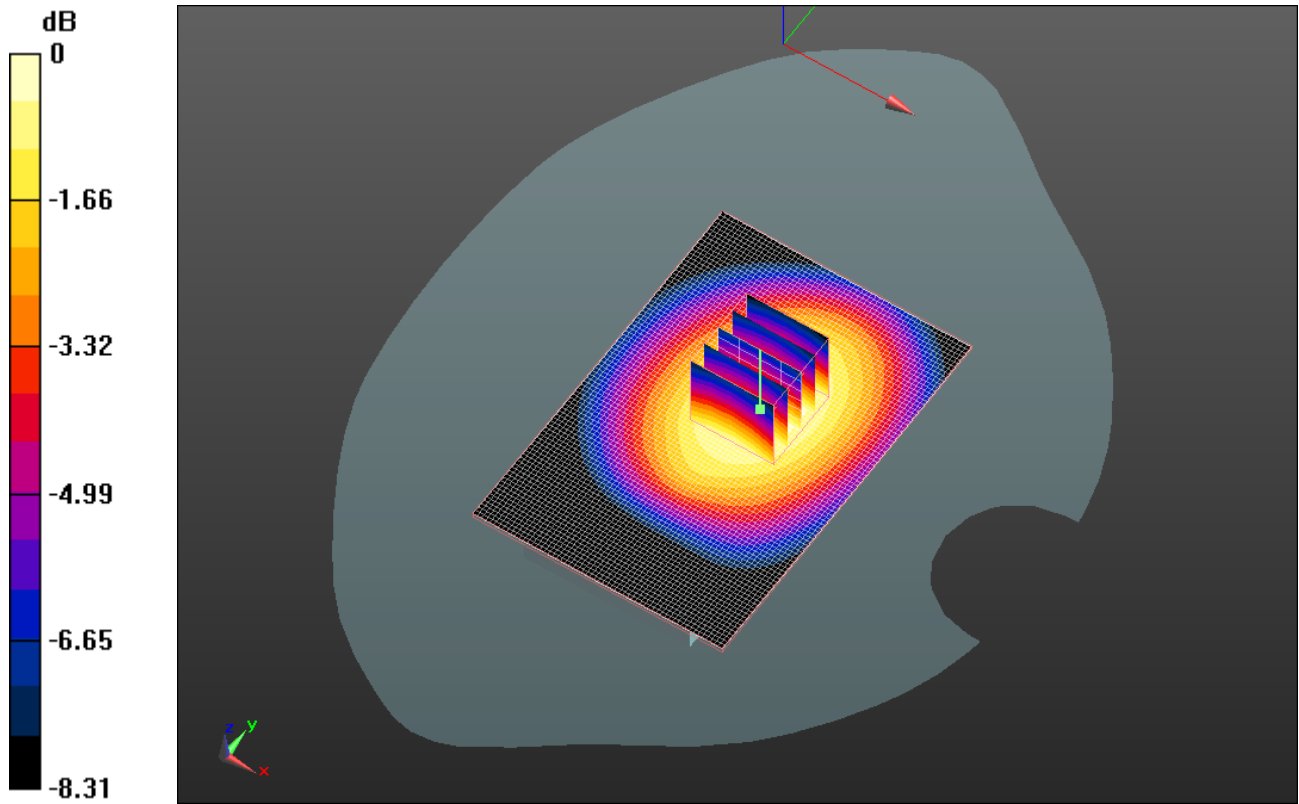
Reference Value = 21.916 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.581 W/kg


**SAR(1 g) = 0.459 mW/g; SAR(10 g) = 0.341 mW/g**

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	Author Data <b>Hang Wang</b>	Dates of Test <b>Jan 14 –June 09, 2011</b>	Test Report No <b>RTS-2605-1102-05B</b>	FCC ID: <b>L6ARDH70CW</b> <b>L6ARDQ70UW</b>

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (measured) = 0.485 mW/g



0 dB = 0.480mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model  RDH71CW/RDQ71UW SAR Report</b>			Page <b>20(63)</b>
	Author Data <b>Hang Wang</b>	Dates of Test <b>Jan 14 –June 09, 2011</b>	Test Report No <b>RTS-2605-1102-05B</b>	FCC ID: <b>L6ARDH70CW  L6ARDQ70UW</b>

Date/Time: 4/20/2011 10:55:21 PM, Date/Time: 4/20/2011 11:02:30 PM

Test Laboratory: RIM Testing Services

## 25mm\_Spacer\_CDMA800\_mid\_chan\_amb\_temp\_23.5\_liq\_temp\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: CDMA 800; Frequency: 836.52 MHz; Communication System  
PAR: 0 dB

Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.976$  mho/m;  $\epsilon_r = 53.627$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.431 mW/g

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

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

Reference Value = 20.270 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.525 W/kg

**SAR(1 g) = 0.406 mW/g; SAR(10 g) = 0.302 mW/g**

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

Maximum value of SAR (measured) = 0.429 mW/g

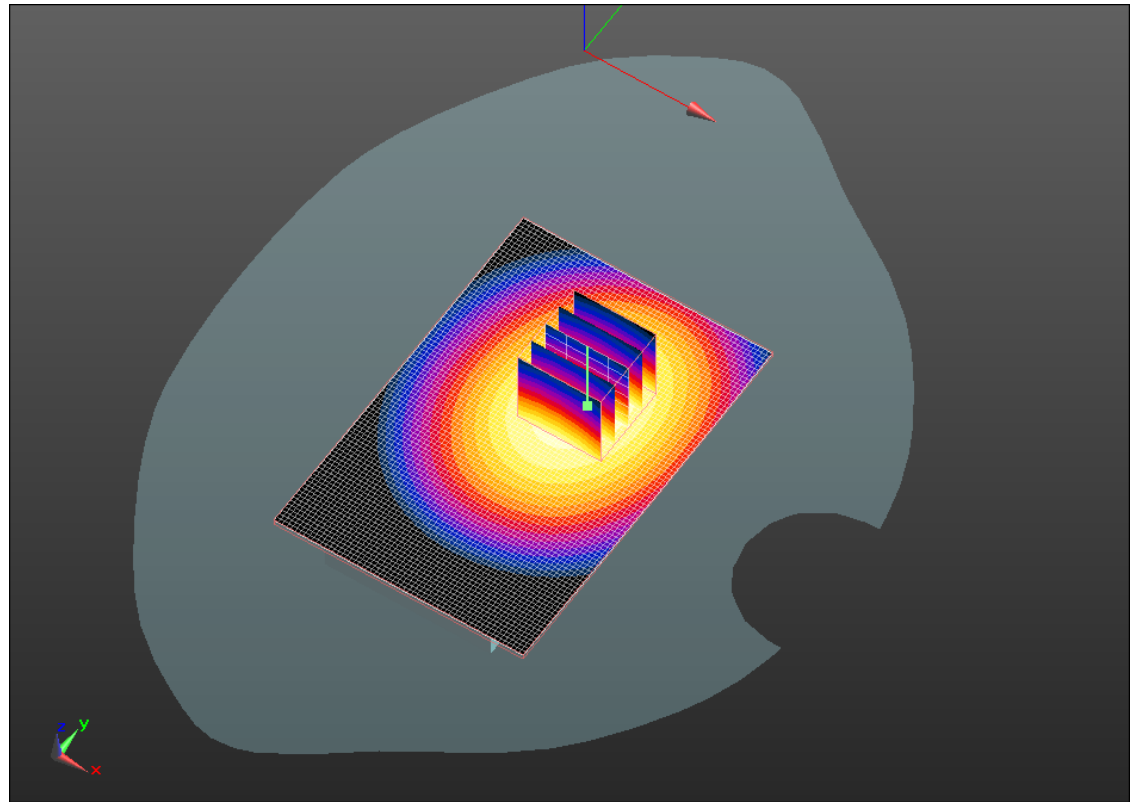
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW  
L6ARDQ70UW**

IC ID  
**2503A-RDH70CW  
2503A-RDQ70UW**



0 dB = 0.430mW/g

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	Author Data <b>Hang Wang</b>	Dates of Test <b>Jan 14 –June 09, 2011</b>	Test Report No <b>RTS-2605-1102-05B</b>	FCC ID: <b>L6ARDH70CW</b> <b>L6ARDQ70UW</b>

Date/Time: 1/20/2011 4:00:22 PM

Test Laboratory: RIM Testing Services

**Vertical\_Holster\_Back\_CDMA1900\_mid\_chan\_amb\_temp\_23.0C\_liq\_temp\_21.8C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 329A77DF**

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.59, 4.59, 4.59); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.666 mW/g

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

Reference Value = 7.01 V/m; Power Drift = 0.166 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.629 mW/g; SAR(10 g) = 0.374 mW/g**

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

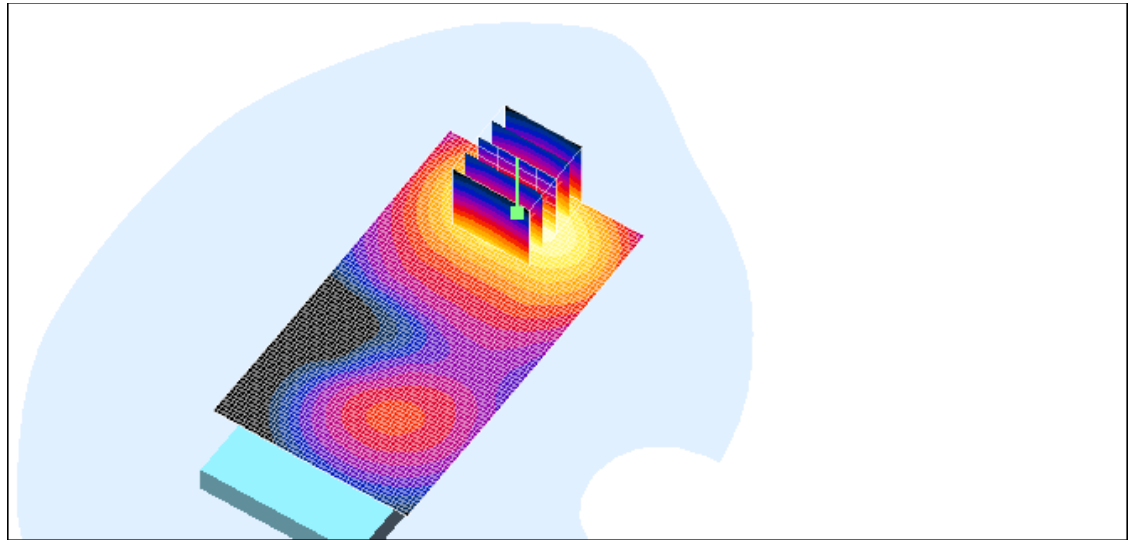
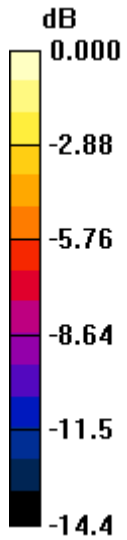
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW  
L6ARDQ70UW**

IC ID  
**2503A-RDH70CW  
2503A-RDQ70UW**



0 dB = 0.679mW/g

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Date/Time: 4/15/2011 2:27:20 PM, Date/Time: 4/15/2011 2:33:13 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Front\_CDMA1900\_mid\_chan\_amb\_temp\_23.1\_liq\_tem p\_22.7C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: CDMA 1900; Frequency: 1880 MHz; Communication System  
PAR: 0 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.466$  mho/m;  $\epsilon_r = 50.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x91x1):** Measurement grid:

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

Maximum value of SAR (interpolated) = 0.238 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 = 5.079 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.326 W/kg

**SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.144 mW/g**

Maximum value of SAR (measured) = 0.242 mW/g



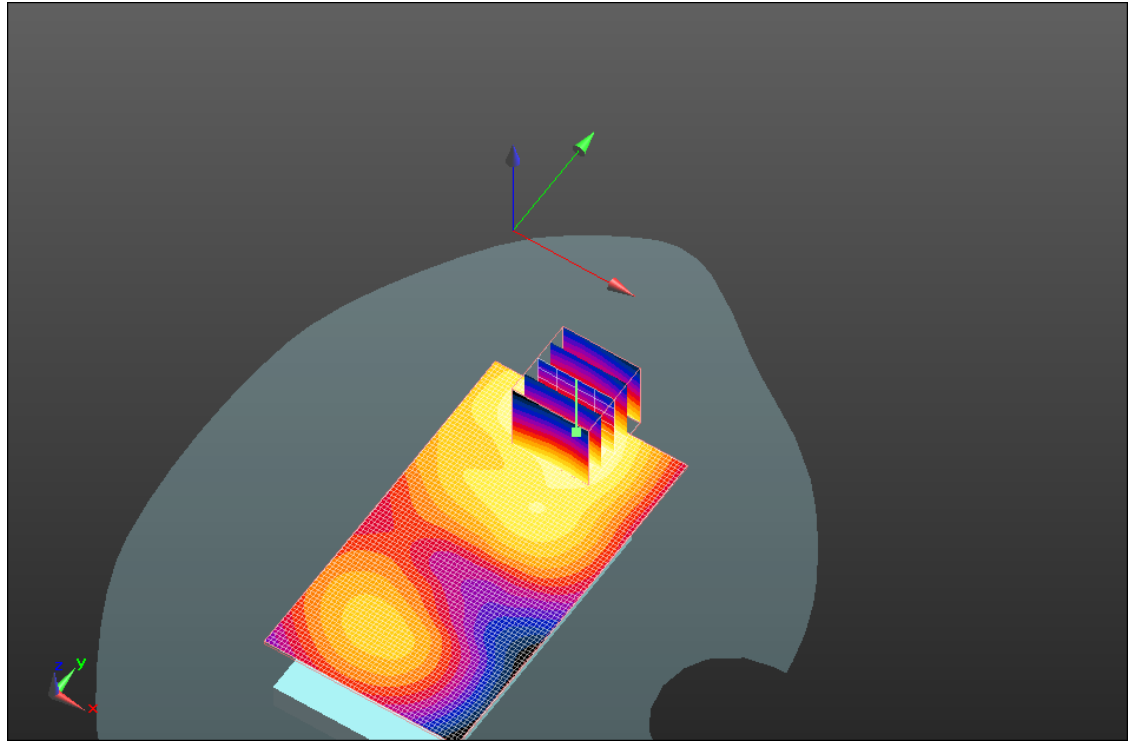
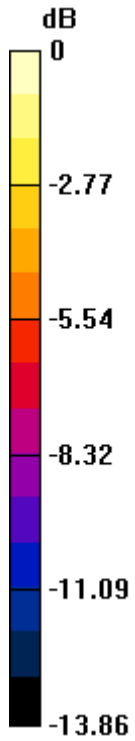
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW  
L6ARDQ70UW**

IC ID  
**2503A-RDH70CW  
2503A-RDQ70UW**



0 dB = 0.240mW/g

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	Author Data <b>Hang Wang</b>	Dates of Test <b>Jan 14 –June 09, 2011</b>	Test Report No <b>RTS-2605-1102-05B</b>	FCC ID: <b>L6ARDH70CW  L6ARDQ70UW</b>

Date/Time: 4/15/2011 2:42:42 PM, Date/Time: 4/15/2011 2:48:37 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Headset\_Back\_CDMA1900\_mid\_chan\_amb\_temp\_23. 3\_liq\_temp\_22.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: CDMA 1900; Frequency: 1880 MHz; Communication System  
PAR: 0 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.466$  mho/m;  $\epsilon_r = 50.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.732 mW/g

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

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

Reference Value = 6.460 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.020 W/kg

**SAR(1 g) = 0.665 mW/g; SAR(10 g) = 0.397 mW/g**

Maximum value of SAR (measured) = 0.733 mW/g

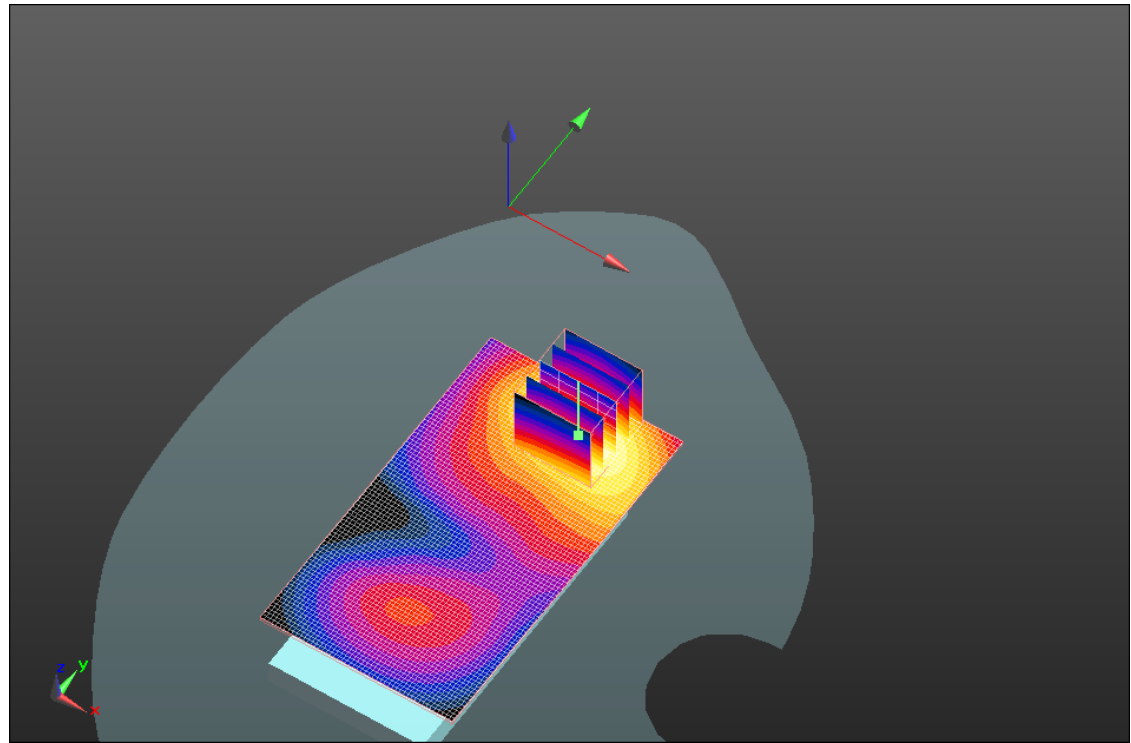
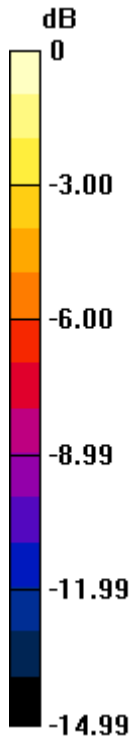
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW  
L6ARDQ70UW**

IC ID  
**2503A-RDH70CW  
2503A-RDQ70UW**



0 dB = 0.730mW/g

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Date/Time: 4/15/2011 2:59:50 PM, Date/Time: 4/15/2011 3:05:45 PM

Test Laboratory: RIM Testing Services

## 25mm\_Spacer\_Back\_CDMA1900\_mid\_chan\_amb\_temp\_23.3\_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: CDMA 1900; Frequency: 1880 MHz; Communication System  
PAR: 0 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.466$  mho/m;  $\epsilon_r = 50.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.328 mW/g

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

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

Reference Value = 4.342 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.447 W/kg

**SAR(1 g) = 0.304 mW/g; SAR(10 g) = 0.190 mW/g**

Maximum value of SAR (measured) = 0.331 mW/g

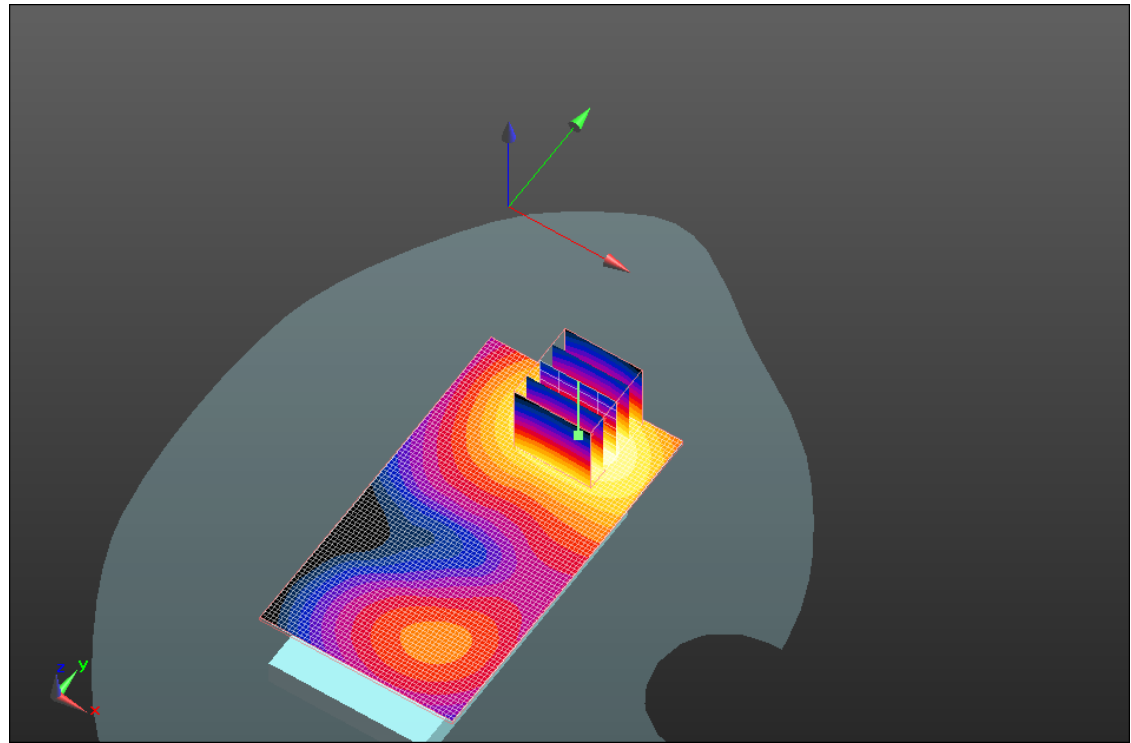
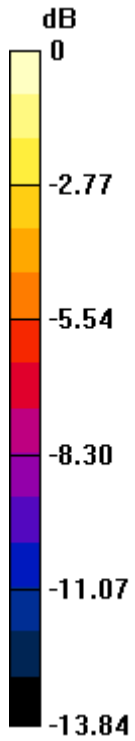
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW**  
**L6ARDQ70UW**

IC ID  
**2503A-RDH70CW**  
**2503A-RDQ70UW**



0 dB = 0.330mW/g

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Date/Time: 4/15/2011 3:18:14 PM, Date/Time: 4/15/2011 3:24:10 PM

Test Laboratory: RIM Testing Services

## **Vertical\_Holster\_back\_GPRS1900\_mid\_chan\_amb\_temp\_23.4\_liq\_temp \_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: GPRS 1900; Frequency: 1880 MHz; Communication System

PAR: 6.232 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.466$  mho/m;  $\epsilon_r = 50.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.381 mW/g

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

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

Reference Value = 4.556 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.523 W/kg

**SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.208 mW/g**

Maximum value of SAR (measured) = 0.384 mW/g

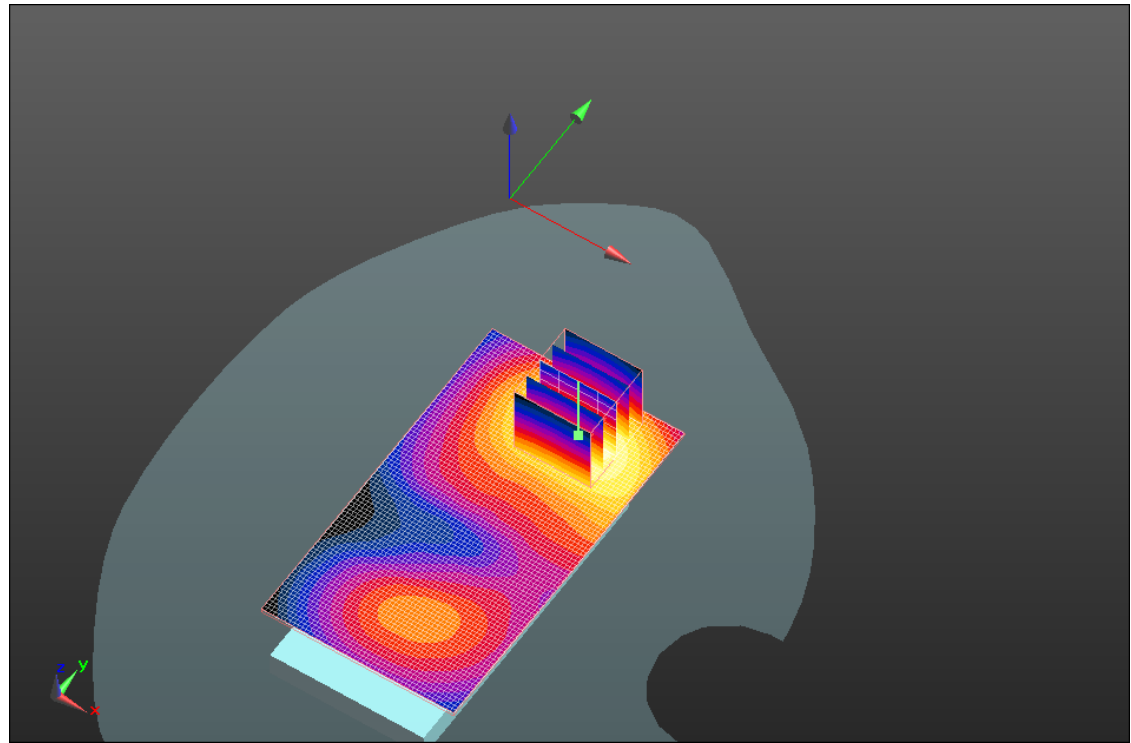
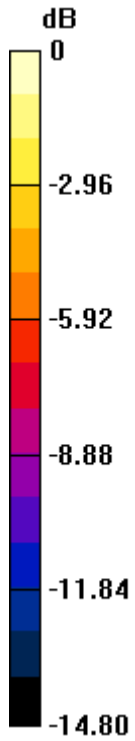
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW  
L6ARDQ70UW**

IC ID  
**2503A-RDH70CW  
2503A-RDQ70UW**



0 dB = 0.380mW/g

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Date/Time: 4/15/2011 4:04:36 PM, Date/Time: 4/15/2011 4:10:31 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Headset\_front\_GPRS1900\_mid\_chan\_amb\_temp\_23.3 \_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: GPRS 1900; Frequency: 1880 MHz; Communication System

PAR: 6.232 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.466$  mho/m;  $\epsilon_r = 50.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x91x1):** Measurement grid:

dx=15mm, dy=15mm

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

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

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

Reference Value = 3.975 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.166 W/kg

**SAR(1 g) = 0.111 mW/g; SAR(10 g) = 0.071 mW/g**

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



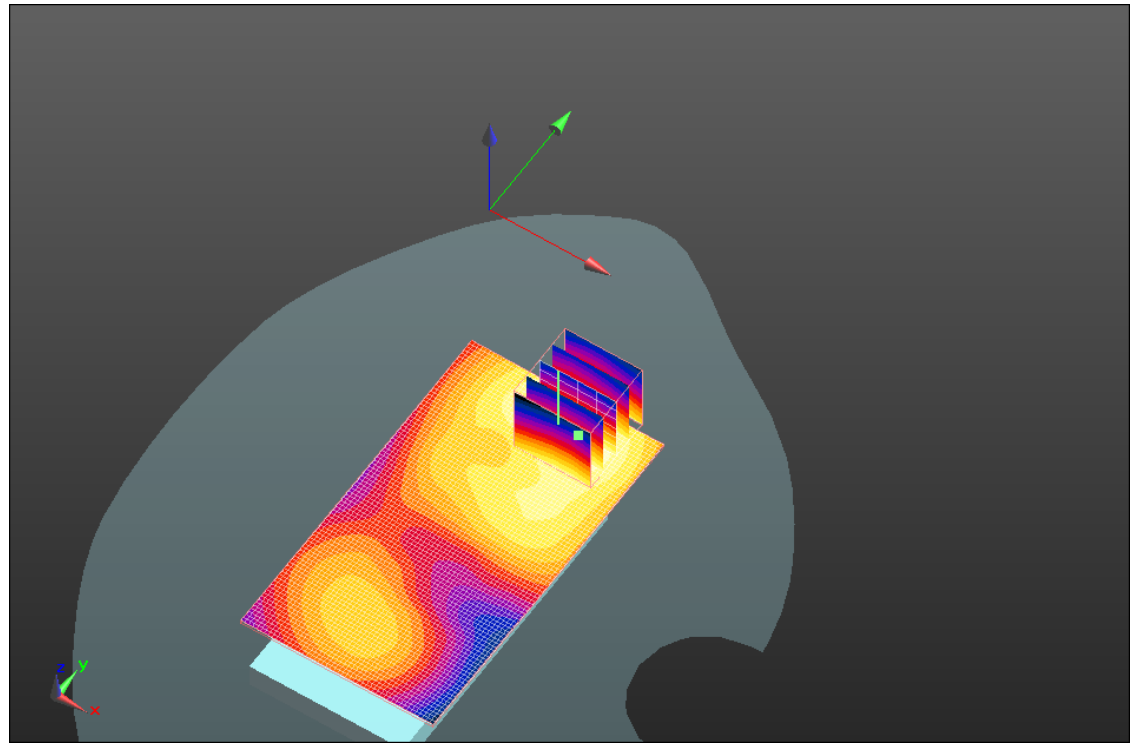
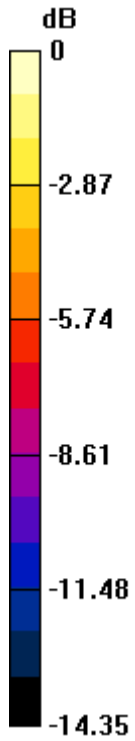
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW  
 L6ARDQ70UW**

IC ID  
**2503A-RDH70CW  
 2503A-RDQ70UW**



0 dB = 0.120mW/g

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Date/Time: 4/15/2011 3:18:14 PM, Date/Time: 4/15/2011 3:51:56 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Headset\_back\_GPRS1900\_mid\_chan\_amb\_temp\_23.3 \_liq\_temp\_22.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: GPRS 1900; Frequency: 1880 MHz; Communication System

PAR: 6.232 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.466$  mho/m;  $\epsilon_r = 50.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.381 mW/g

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

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

Reference Value = 4.481 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.531 W/kg

**SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.207 mW/g**

Maximum value of SAR (measured) = 0.384 mW/g

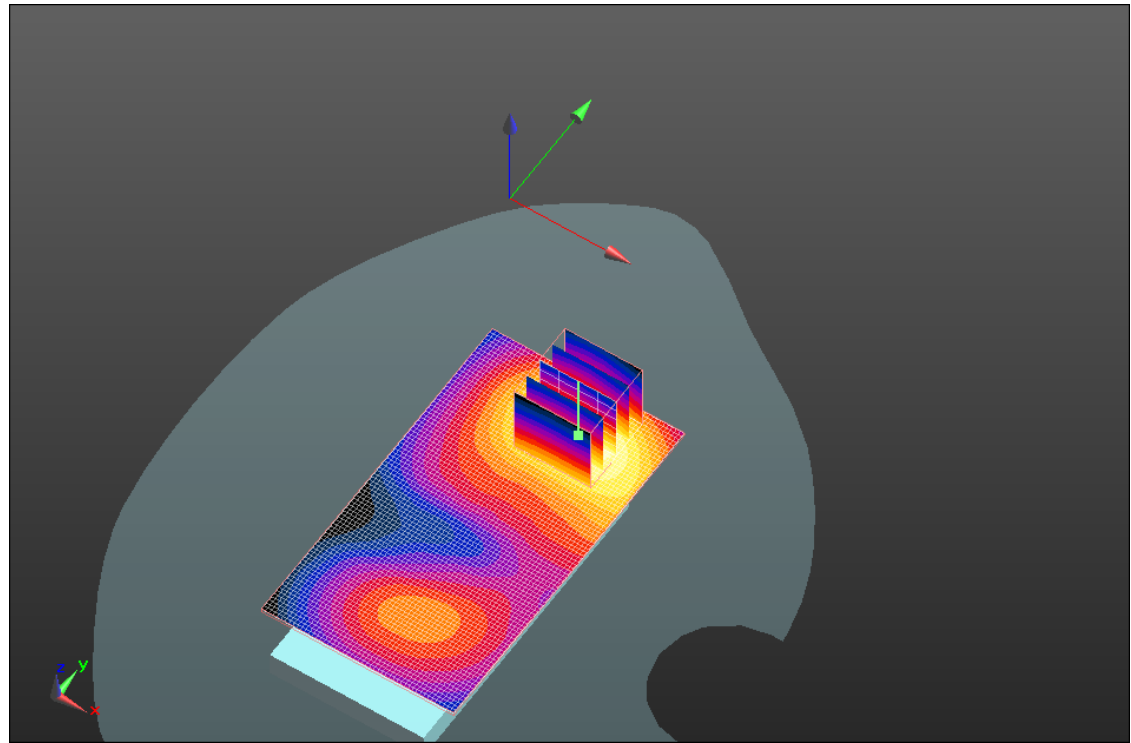
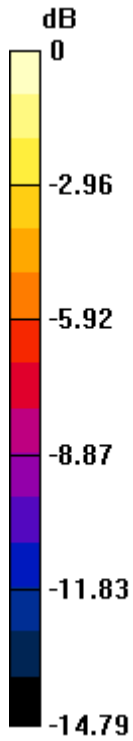
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW  
L6ARDQ70UW**

IC ID  
**2503A-RDH70CW  
2503A-RDQ70UW**



0 dB = 0.380mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model  RDH71CW/RDQ71UW SAR Report</b>			Page <b>36(63)</b>
	Author Data <b>Hang Wang</b>	Dates of Test <b>Jan 14 –June 09, 2011</b>	Test Report No <b>RTS-2605-1102-05B</b>	FCC ID: <b>L6ARDH70CW  L6ARDQ70UW</b>

Date/Time: 4/15/2011 4:40:46 PM, Date/Time: 4/15/2011 4:46:42 PM

Test Laboratory: RIM Testing Services

## 25mm\_Spacer\_Back\_GPRS1900\_mid\_chan\_amb\_temp\_23.4\_liq\_temp\_22.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: GPRS 1900; Frequency: 1880 MHz; Communication System

PAR: 6.232 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.466$  mho/m;  $\epsilon_r = 50.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.185 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (7x6x7)/Cube 0:**

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

Reference Value = 3.544 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.258 W/kg

**SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.106 mW/g**

Maximum value of SAR (measured) = 0.189 mW/g

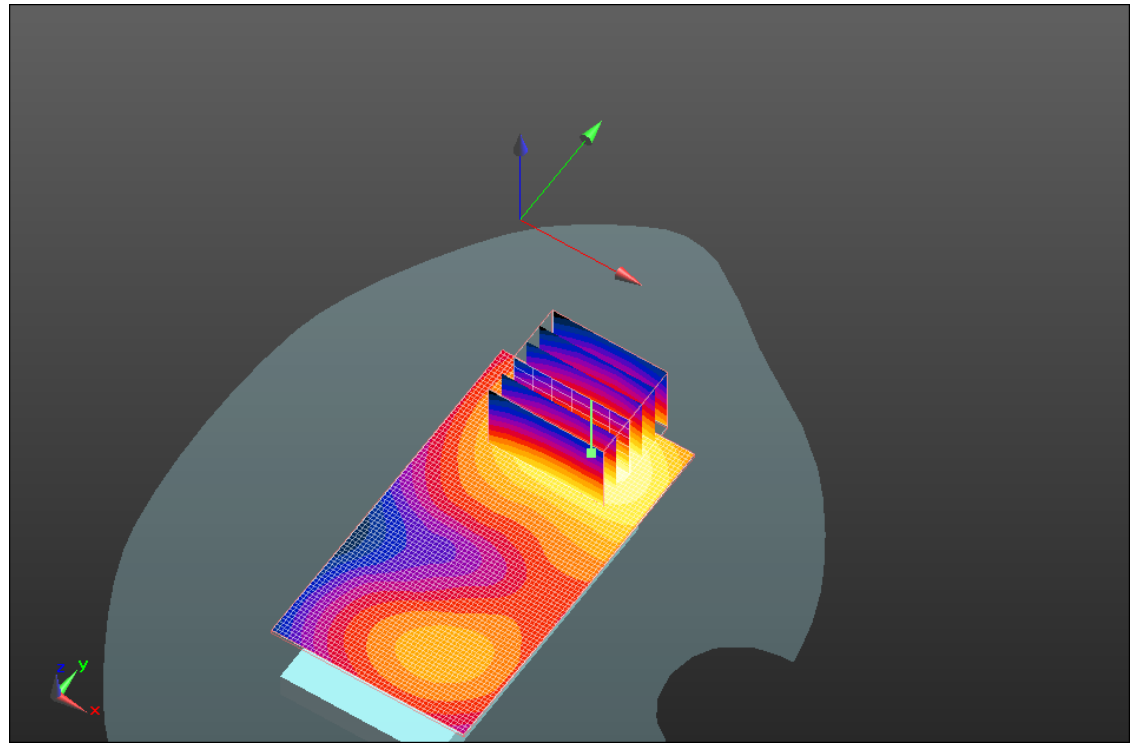
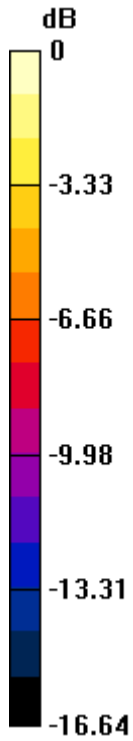
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW  
L6ARDQ70UW**

IC ID  
**2503A-RDH70CW  
2503A-RDQ70UW**



0 dB = 0.190mW/g

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Date/Time: 4/15/2011 3:18:14 PM, Date/Time: 4/15/2011 5:12:38 PM

Test Laboratory: RIM Testing Services

**Vertical\_Holster\_Headset\_back\_GPRS1900\_3\_slots\_mid\_chan\_amb\_temperatures\_liq\_temp\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: GPRS 1900 (3-slots); Frequency: 1880 MHz; Communication System PAR: 4.472 dB  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.466$  mho/m;  $\epsilon_r = 50.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x91x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.378 mW/g

**Configuration/Touch position - 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 3.628 V/m; Power Drift = -0.05 dB  
Peak SAR (extrapolated) = 0.246 W/kg  
**SAR(1 g) = 0.166 mW/g; SAR(10 g) = 0.104 mW/g**  
Maximum value of SAR (measured) = 0.180 mW/g

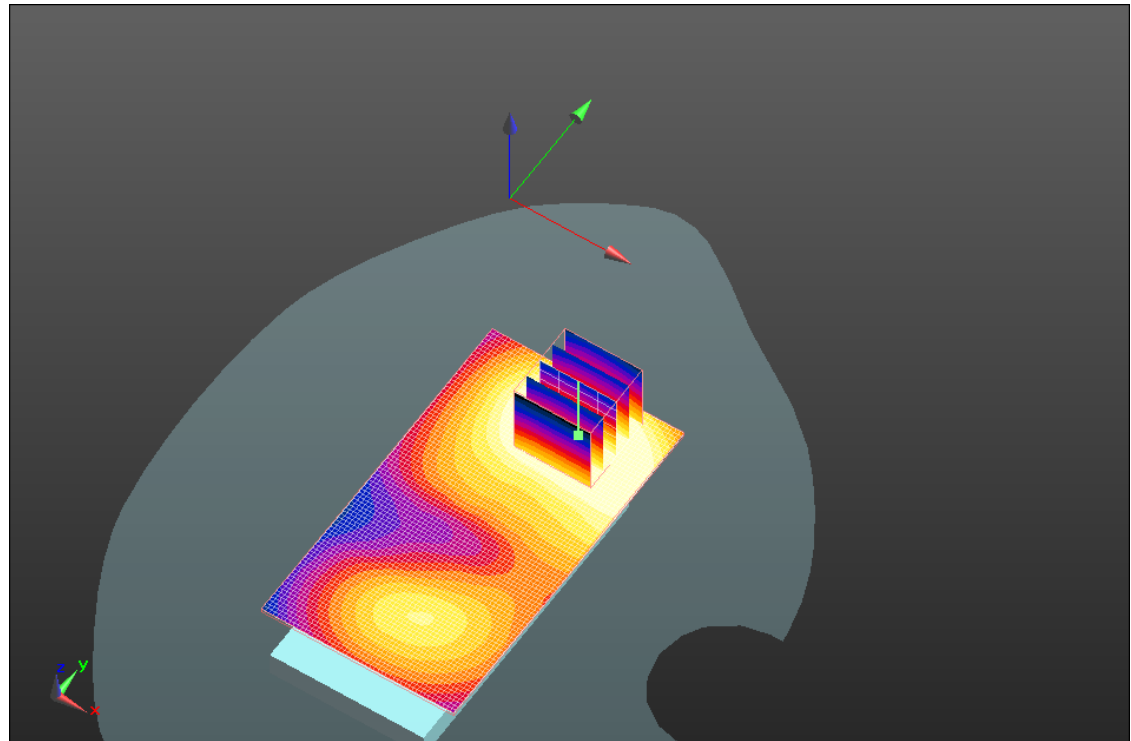
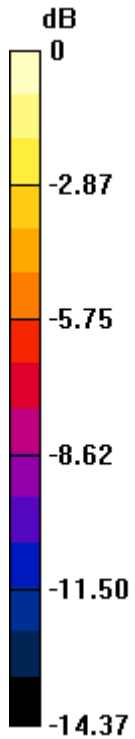
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW  
L6ARDQ70UW**

IC ID  
**2503A-RDH70CW  
2503A-RDQ70UW**



0 dB = 0.180mW/g

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Date/Time: 4/15/2011 3:18:14 PM, Date/Time: 4/15/2011 5:28:11 PM

Test Laboratory: RIM Testing Services

**Vertical\_Holster\_Headset\_back\_GPRS1900\_4\_slots\_mid\_chan\_amb\_t  
mp\_23.5\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: GPRS 1900 (4-slots); Frequency: 1880 MHz; Communication System PAR: 3.222 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.466$  mho/m;  $\epsilon_r = 50.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.376 mW/g

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

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

Reference Value = 3.627 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.253 W/kg

**SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.107 mW/g**

Maximum value of SAR (measured) = 0.186 mW/g



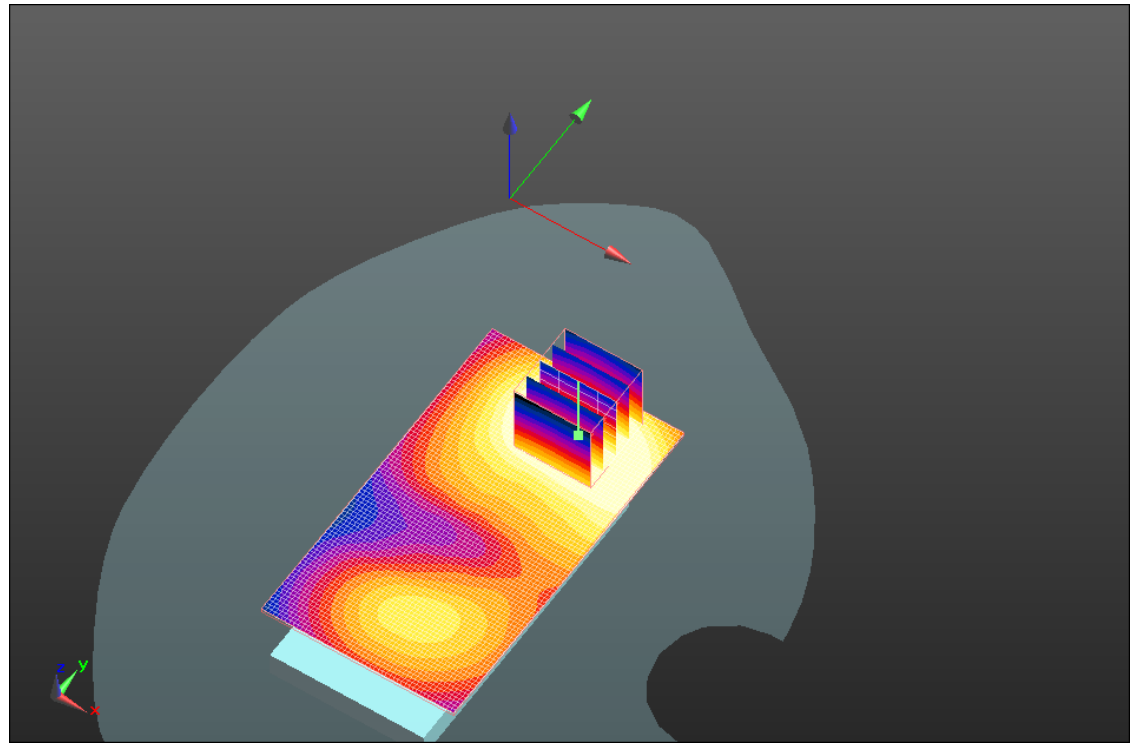
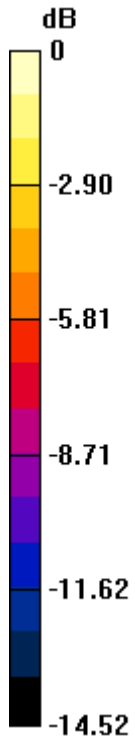
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW**  
**L6ARDQ70UW**

IC ID  
**2503A-RDH70CW**  
**2503A-RDQ70UW**



0 dB = 0.190mW/g

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Date/Time: 1/14/2011 10:24:11 PM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 329A77DF**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 2.06$  mho/m;  $\epsilon_r = 50.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.021 mW/g

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

Reference Value = 2.31 V/m; Power Drift = -0.275 dB

Peak SAR (extrapolated) = 0.034 W/kg

**SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00953 mW/g**

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

Maximum value of SAR (measured) = 0.022 mW/g

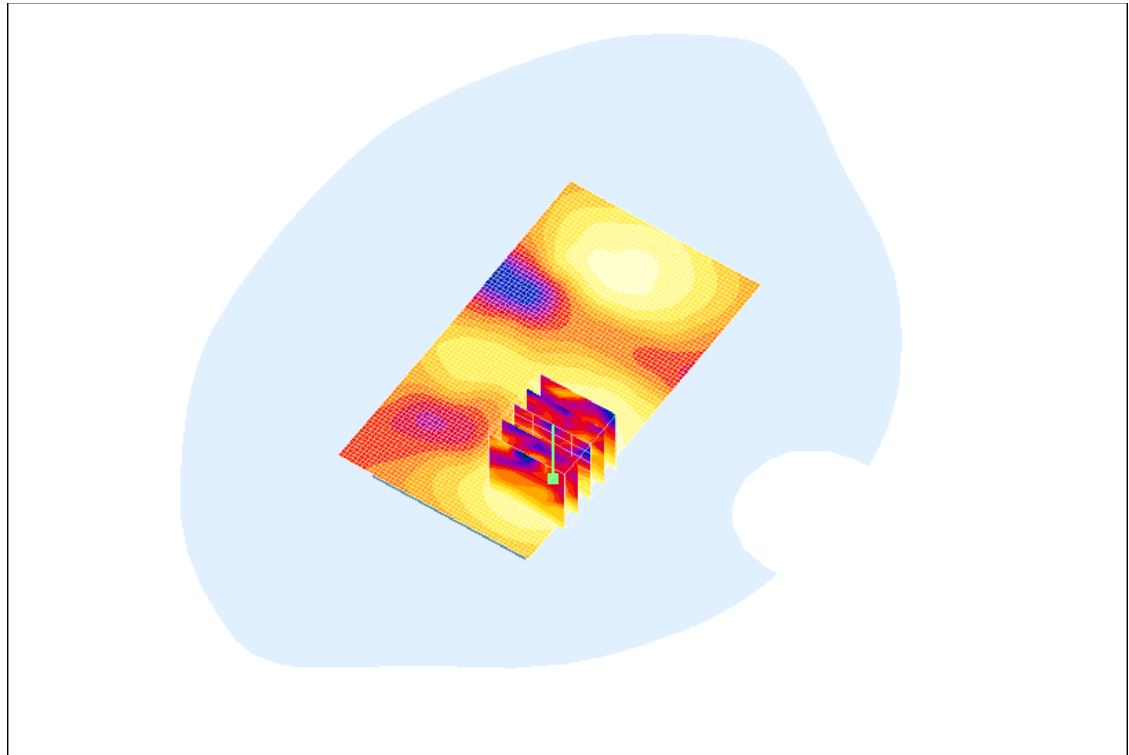
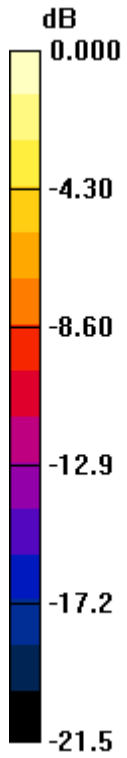
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW  
L6ARDQ70UW**

IC ID  
**2503A-RDH70CW  
2503A-RDQ70UW**



0 dB = 0.022mW/g

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Date/Time: 1/14/2011 10:39:23 PM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 329A77DF**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 2.06$  mho/m;  $\epsilon_r = 50.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.013 mW/g

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

Reference Value = 1.84 V/m; Power Drift = 0.251 dB

Peak SAR (extrapolated) = 0.031 W/kg

**SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00619 mW/g**

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

Maximum value of SAR (measured) = 0.013 mW/g

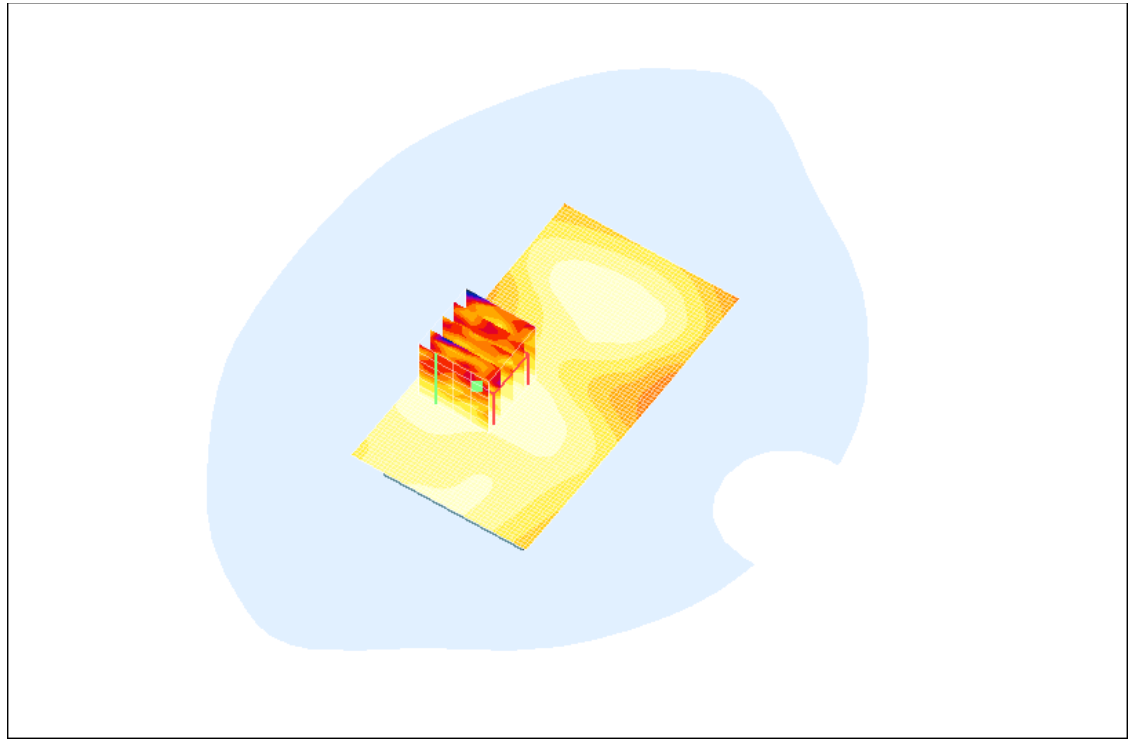
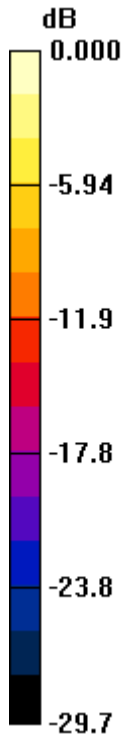
Author Data  
**Hang Wang**

Dates of Test  
**Jan 14 –June 09, 2011**


Test Report No  
**RTS-2605-1102-05B**

FCC ID:  
**L6ARDH70CW  
L6ARDQ70UW**

IC ID  
**2503A-RDH70CW  
2503A-RDQ70UW**



0 dB = 0.013mW/g

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Date/Time: 4/26/2011 11:55:50 PM, Date/Time: 4/27/2011 12:01:47 AM

Test Laboratory: RIM Testing Services

**25mm\_Spacer\_Back\_802.11b\_high\_chan\_amb\_temp\_23.4\_liq\_temp\_22  
.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 2.033$  mho/m;  $\epsilon_r = 50.084$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.084 mW/g


**Configuration/Touch position -/Zoom Scan (5x5x7) (7x6x7)/Cube 0:**

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

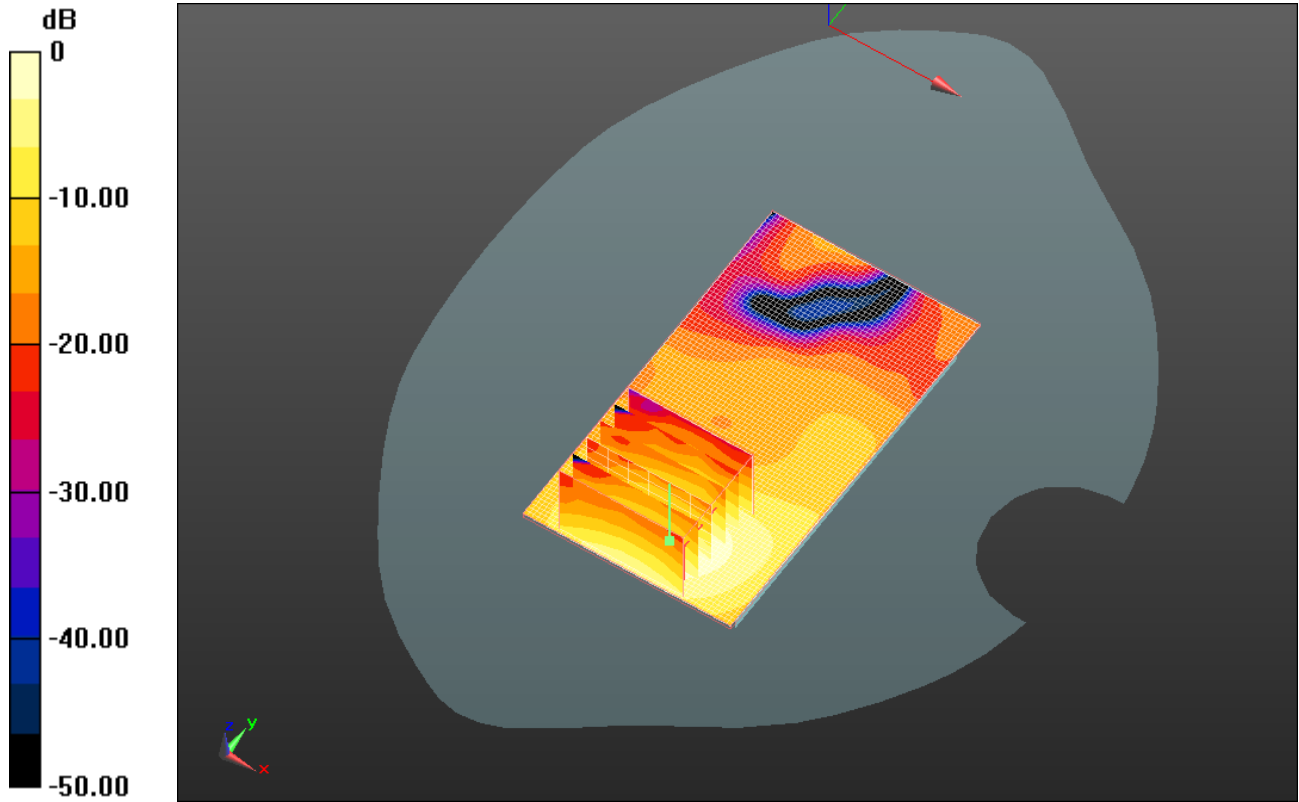
Reference Value = 1.536 V/m; Power Drift = -0.51 dB

Peak SAR (extrapolated) = 0.147 W/kg


**SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.040 mW/g**

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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 0.085 mW/g



0 dB = 0.090mW/g

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Date/Time: 4/27/2011 12:15:25 AM, Date/Time: 4/27/2011 12:21:22 AM

Test Laboratory: RIM Testing Services

**25mm\_Spacer\_Back\_Headset\_802.11b\_high\_chan\_amb\_temp\_23.4\_liq  
\_temp\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32DF5ED2**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Communication System PAR: 0 dB  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 2.033$  mho/m;  $\epsilon_r = 50.084$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm


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

Maximum value of SAR (interpolated) = 0.071 mW/g

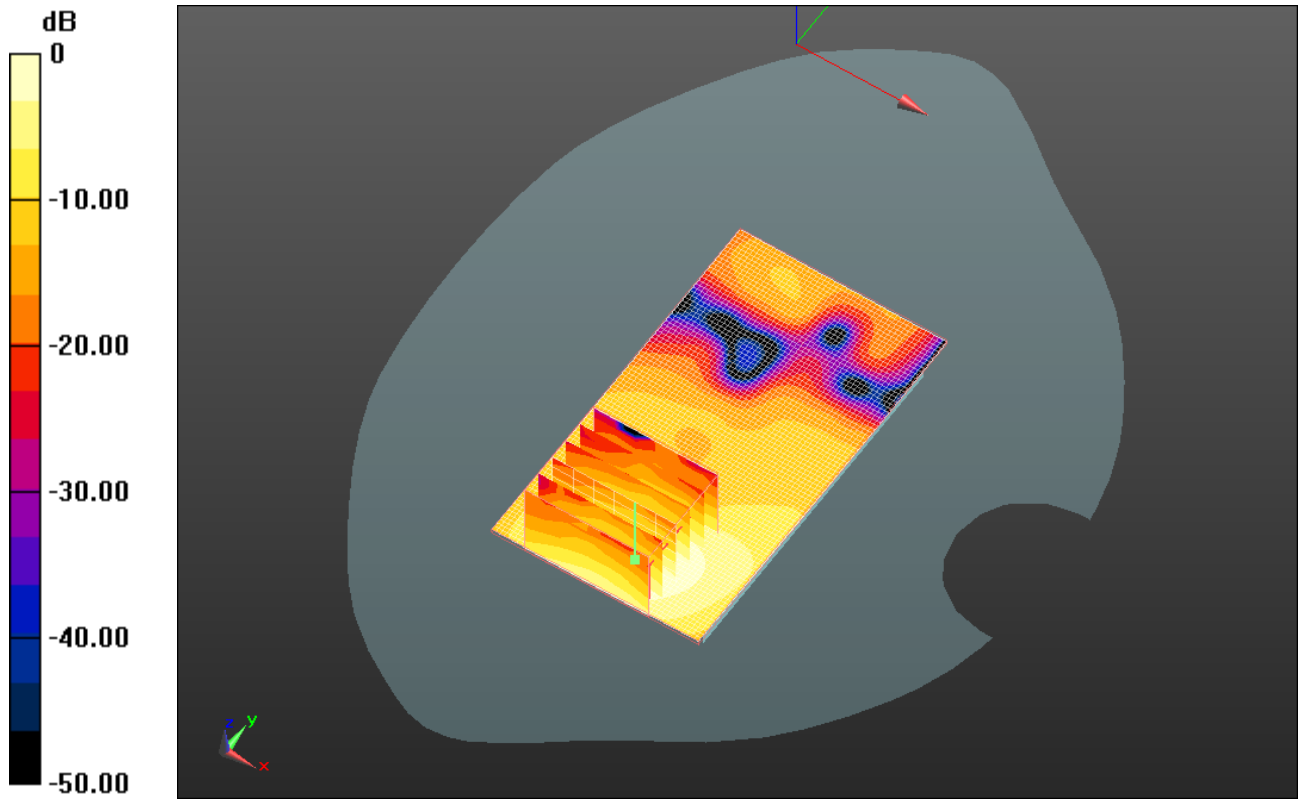
**Configuration/Touch position -/Zoom Scan (5x5x7) (7x6x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 1.388 V/m; Power Drift = 2.04 dB  
Peak SAR (extrapolated) = 0.121 W/kg  
**SAR(1 g) = 0.064 mW/g; SAR(10 g) = 0.034 mW/g**



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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 0.070 mW/g




0 dB = 0.070mW/g



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# RDQ71UW

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Date/Time: 4/1/2011 11:42:19 AM, Date/Time: 4/1/2011 11:47:42 AM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_UMTS\_band\_IV\_low\_chan\_amb\_temp\_23.1\_liq\_t emp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26FF048A**

Communication System: WCDMA FDD IV; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1712.4

MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.436$  mho/m;  $\epsilon_r = 53.414$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 1.709 mW/g


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

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

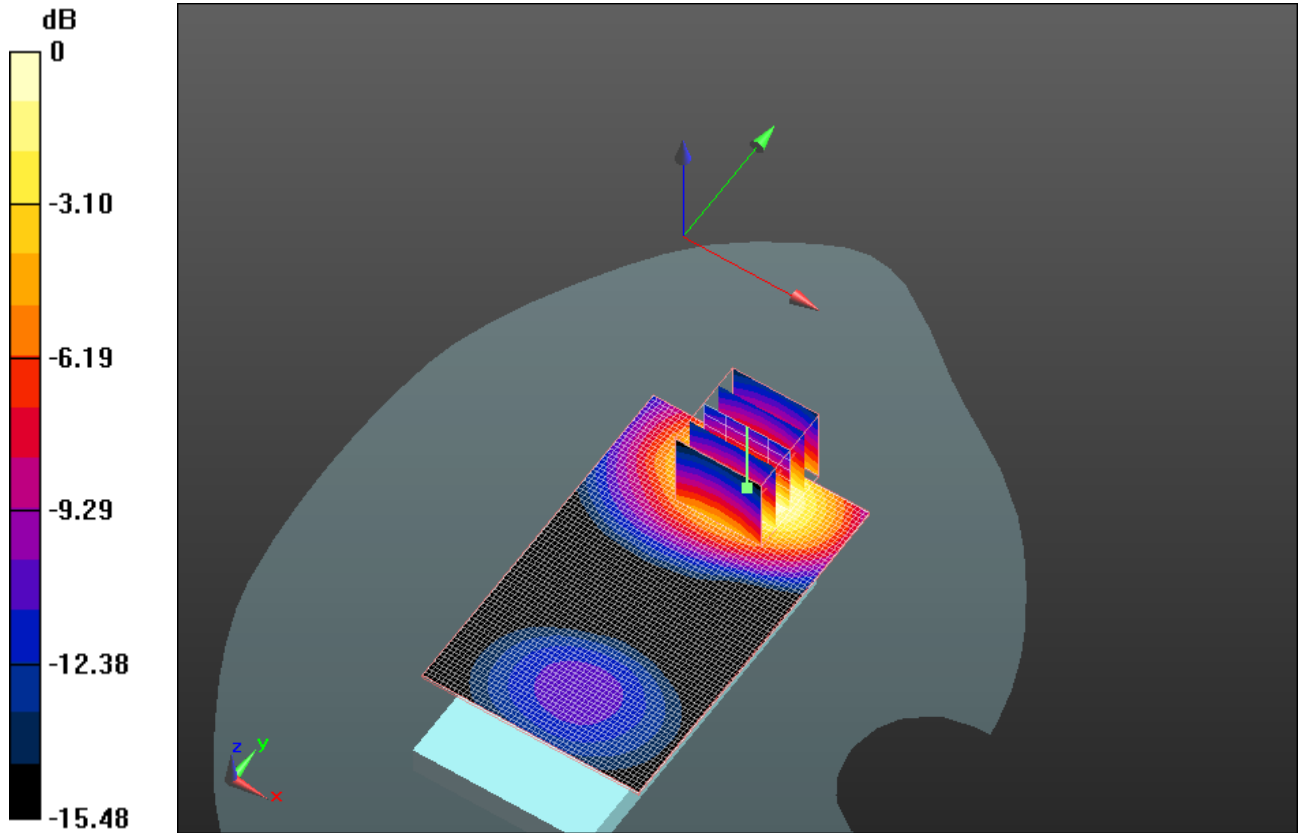
Reference Value = 4.778 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 2.236 W/kg


**SAR(1 g) = 1.46 mW/g; SAR(10 g) = 0.847 mW/g**

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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 1.607 mW/g



0 dB = 1.610mW/g

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Date/Time: 4/1/2011 12:13:06 PM, Date/Time: 4/1/2011 12:18:28 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_UMTS\_band\_IV\_mid\_chan\_amb\_temp\_22.9\_liq\_t emp\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26FF048A**

Communication System: WCDMA FDD IV; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1732.6

MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.438$  mho/m;  $\epsilon_r = 53.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 1.323 mW/g


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

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

Reference Value = 4.273 V/m; Power Drift = 0.18 dB

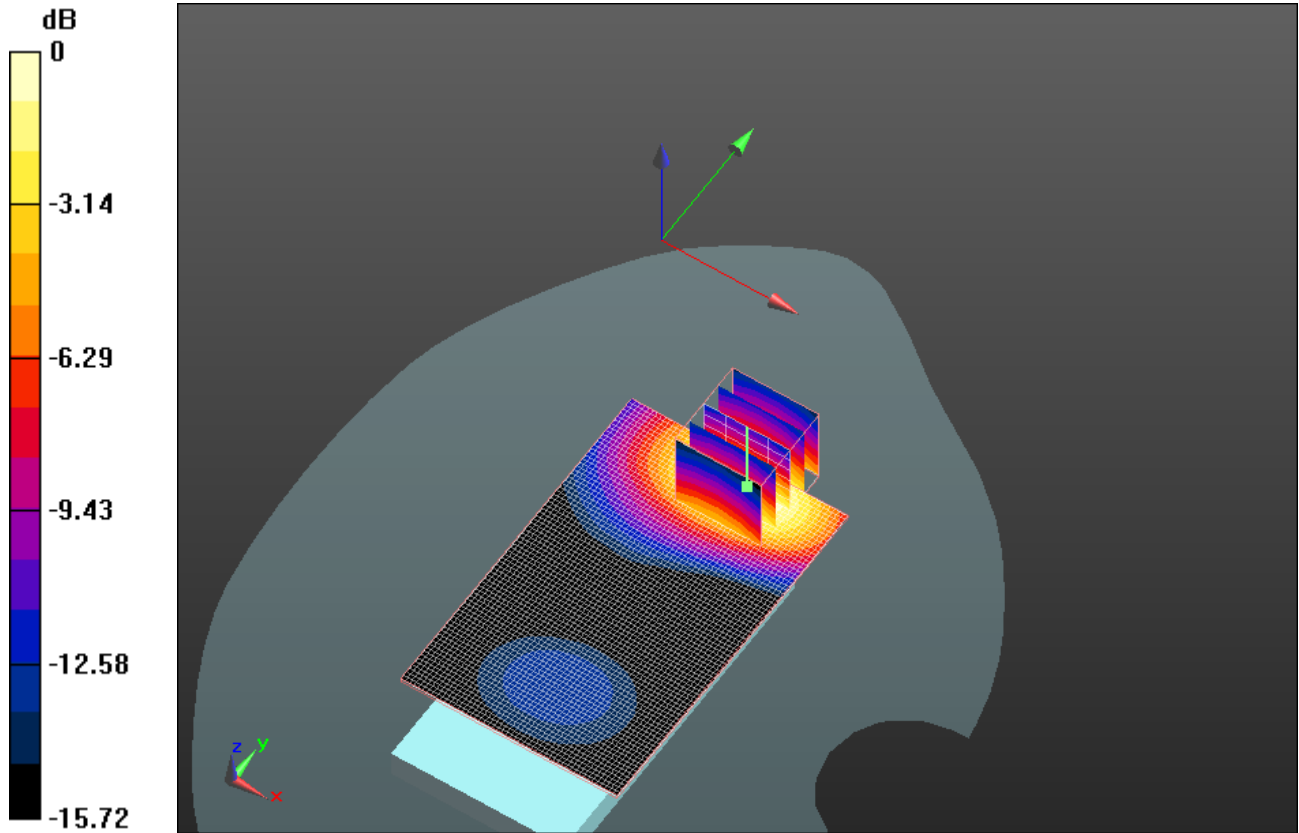
Peak SAR (extrapolated) = 1.713 W/kg

**SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.649 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.244 mW/g



0 dB = 1.240mW/g

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Date/Time: 4/1/2011 11:27:20 AM, Date/Time: 4/1/2011 11:32:43 AM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_UMTS\_band\_IV\_high\_chan\_amb\_temp\_24.0\_liq\_ temp\_22.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26FF048A**

Communication System: WCDMA FDD IV; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1752.6

MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated):  $f = 1752.6$  MHz;  $\sigma = 1.487$  mho/m;  $\epsilon_r = 53.157$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 1.617 mW/g


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

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

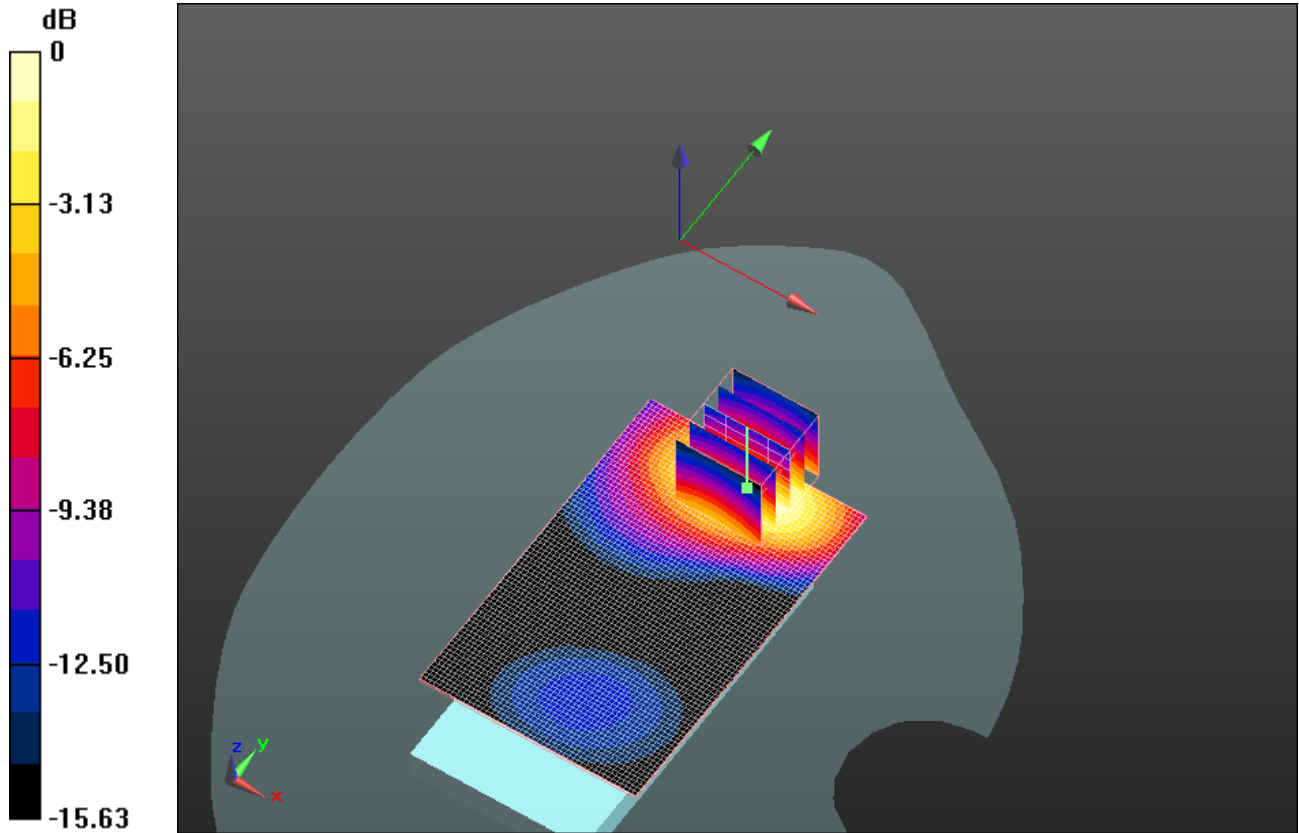
Reference Value = 4.605 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.131 W/kg

**SAR(1 g) = 1.37 mW/g; SAR(10 g) = 0.794 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 1.513 mW/g



0 dB = 1.510mW/g



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Date/Time: 4/14/2011 6:40:13 PM, Date/Time: 4/14/2011 6:46:09 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Front\_UMTS\_band\_IV\_mid\_chan\_amb\_temp\_23.6C\_liq \_temp\_22.5

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26FF048A**

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

Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.351$  mho/m;  $\epsilon_r = 52.572$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.334 mW/g


**Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

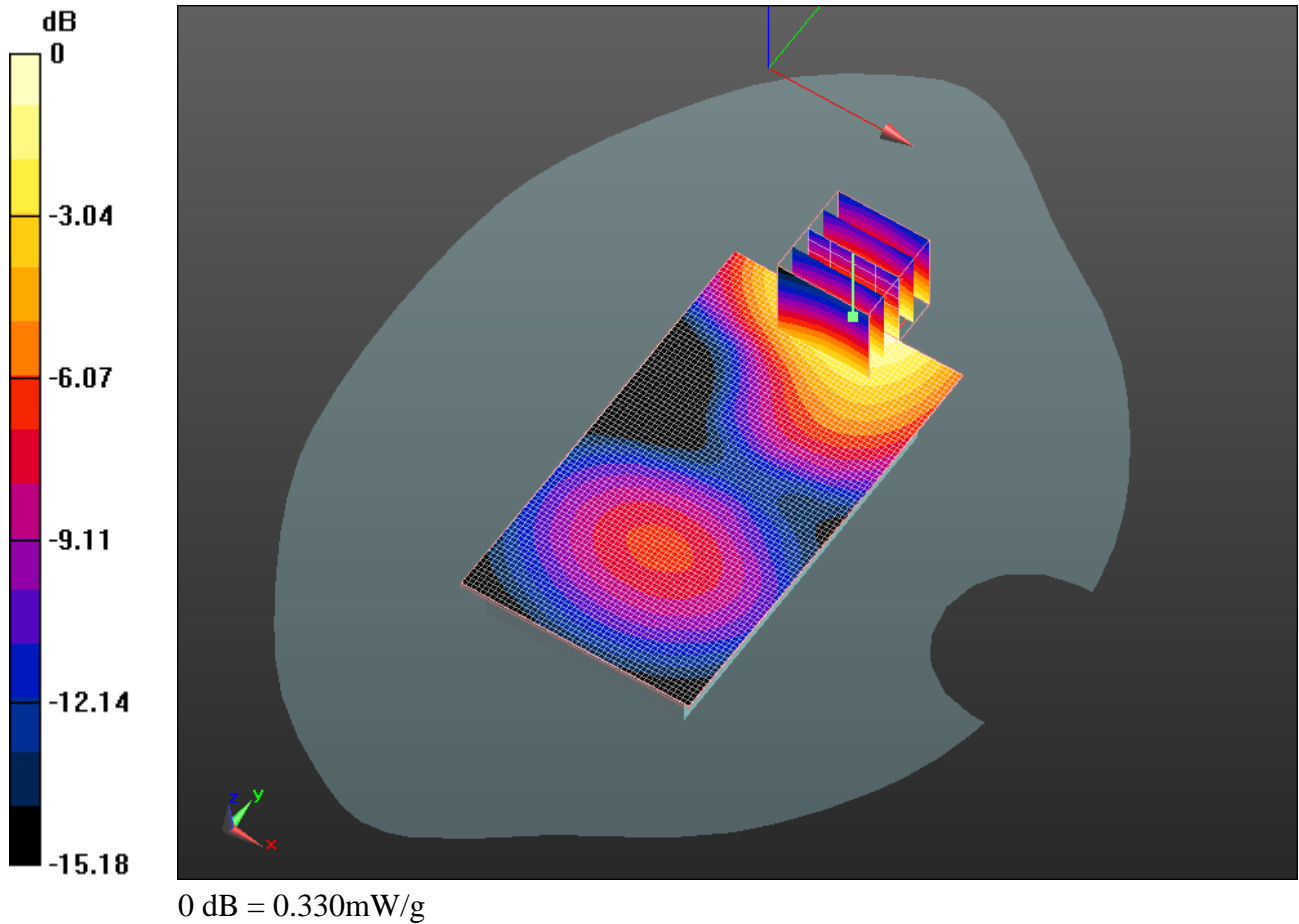
Reference Value = 4.075 V/m; Power Drift = 0.14 dB


Peak SAR (extrapolated) = 0.452 W/kg

**SAR(1 g) = 0.306 mW/g; SAR(10 g) = 0.192 mW/g**

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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 0.334 mW/g



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Date/Time: 4/14/2011 6:54:10 PM, Date/Time: 4/14/2011 7:00:07 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_Headset\_UMTS\_band\_IV\_low\_chan\_amb\_temp\_23.5C\_liq\_temp\_22.3

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26FF048A**

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

Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.356$  mho/m;  $\epsilon_r = 52.79$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 1.516 mW/g


**Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

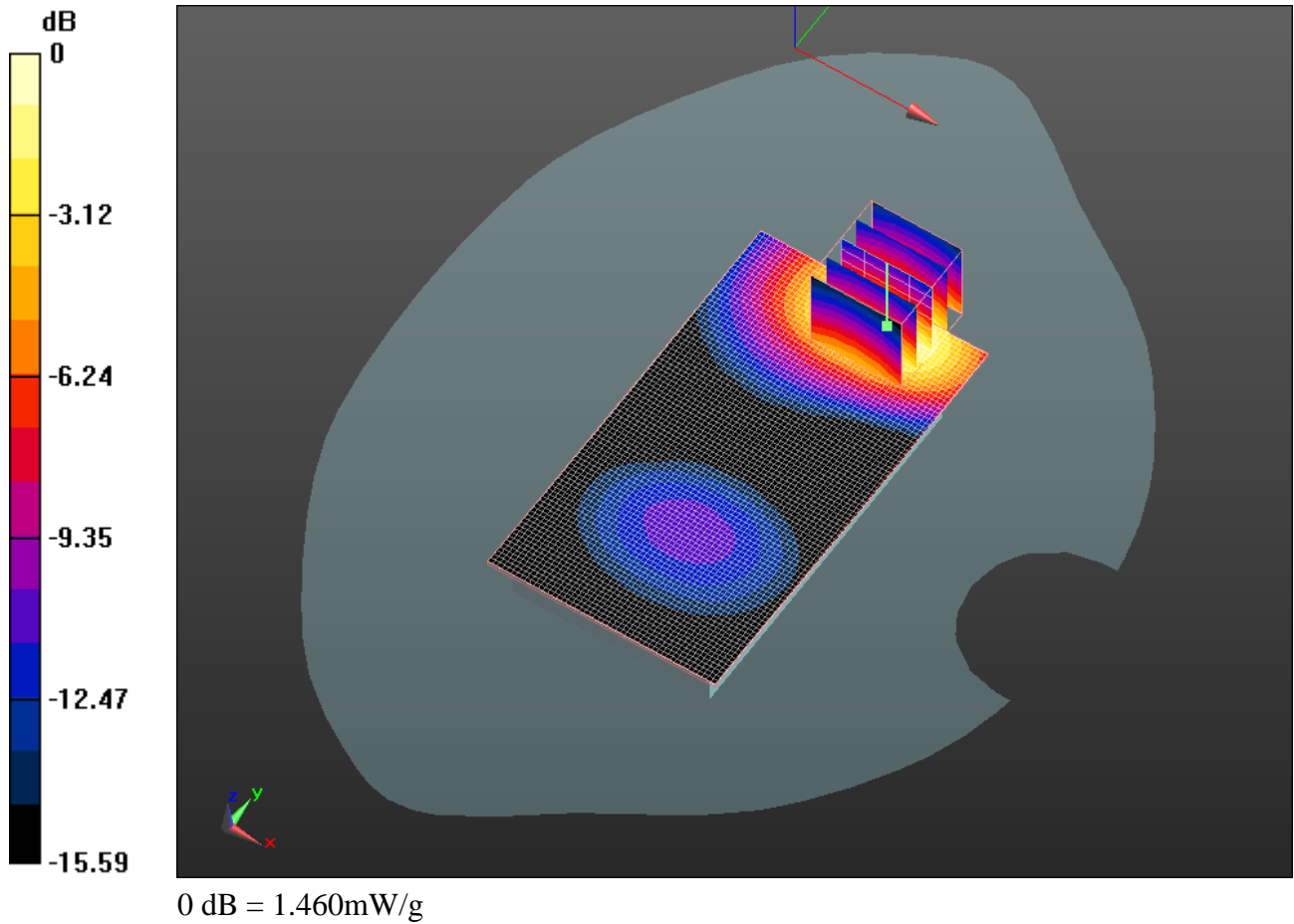
Reference Value = 4.300 V/m; Power Drift = 0.42 dB


Peak SAR (extrapolated) = 2.043 W/kg

**SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.772 mW/g**

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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 1.465 mW/g



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Date/Time: 4/14/2011 6:25:41 PM, Date/Time: 4/14/2011 6:31:36 PM

Test Laboratory: RIM Testing Services

**25mm\_Spacer\_Back\_UMTS\_band\_IV\_mid\_chan\_amb\_temp\_23.6C\_liq\_  
temp\_22.4**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26FF048A**

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

Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.351$  mho/m;  $\epsilon_r = 52.572$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
  - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.556 mW/g


**Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

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

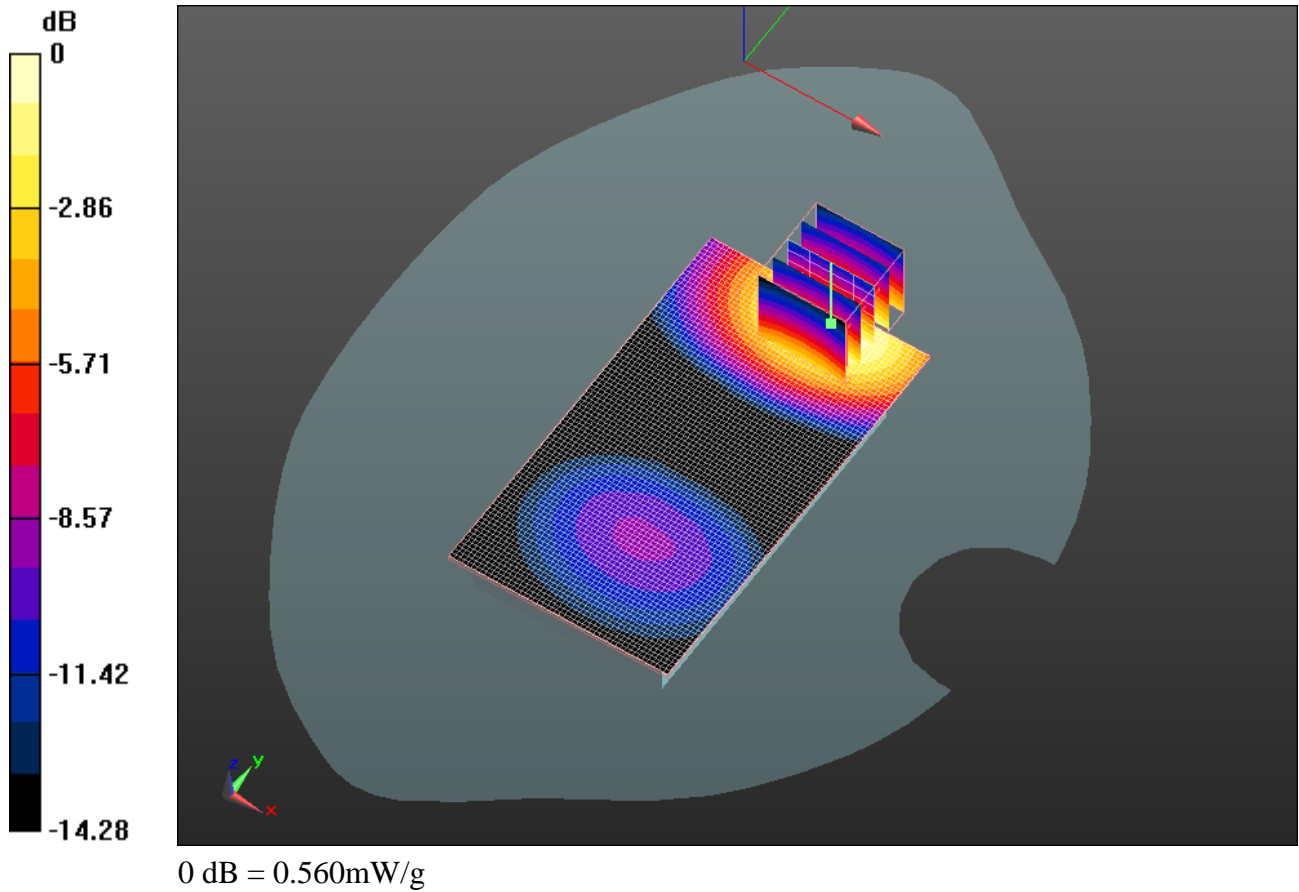
Reference Value = 2.961 V/m; Power Drift = 0.96 dB

Peak SAR (extrapolated) = 0.765 W/kg

**SAR(1 g) = 0.514 mW/g; SAR(10 g) = 0.316 mW/g**

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Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 0.564 mW/g



Author Data <b>Hang Wang</b>
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Dates of Test <b>Jan 14 –June 09, 2011</b>
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Test Report No <b>RTS-2605-1102-05B</b>
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FCC ID: <b>L6ARDH70CW L6ARDQ70UW</b>
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IC ID <b>2503A-RDH70CW 2503A-RDQ70UW</b>
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**Z axis plot for the worst case body configuration:**

