

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>1(64)</b>          |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

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

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/29/2010 10:10:24 AM

Test Laboratory: RIM Testing Services

**Vertical\_Holster\_Back\_GPRS850\_mid\_chan\_amb\_temp\_23.0C\_liq\_tem  
p\_21.7C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8 \text{ MHz}$ ;  $\sigma = 0.956 \text{ mho/m}$ ;  $\epsilon_r = 53.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.686 mW/g

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

Reference Value = 27.0 V/m; Power Drift = -0.071 dB

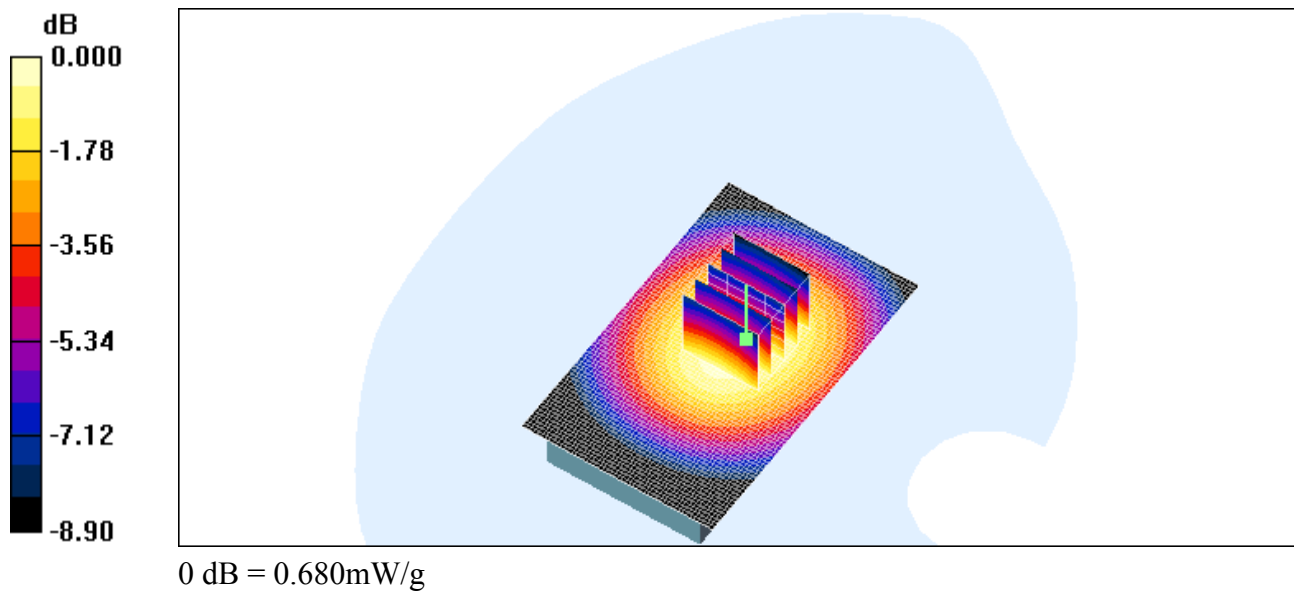
Peak SAR (extrapolated) = 0.827 W/kg

**SAR(1 g) = 0.644 mW/g; SAR(10 g) = 0.471 mW/g**

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

Maximum value of SAR (measured) = 0.680 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/29/2010 10:24:20 AM

Test Laboratory: RIM Testing Services

**Horizontal\_Holster\_Back\_GPRS850\_mid\_chan\_amb\_temp\_23.1C\_liq\_temper\_21.8C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8 \text{ MHz}$ ;  $\sigma = 0.956 \text{ mho/m}$ ;  $\epsilon_r = 53.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.693 mW/g

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

Reference Value = 24.7 V/m; Power Drift = -0.030 dB

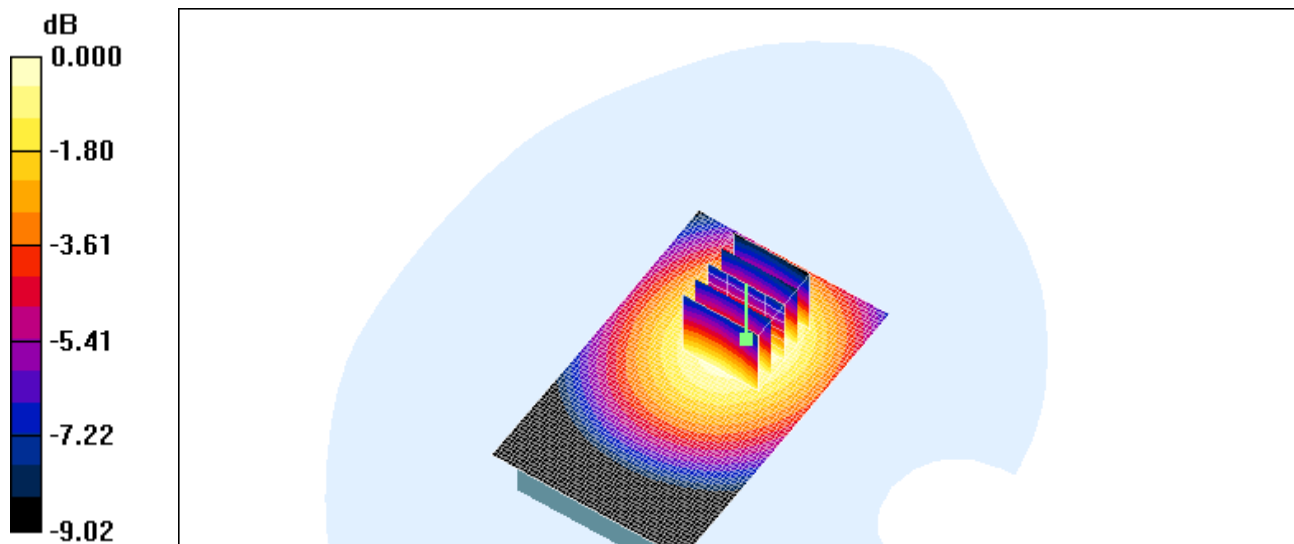
Peak SAR (extrapolated) = 0.831 W/kg

**SAR(1 g) = 0.650 mW/g; SAR(10 g) = 0.475 mW/g**

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

Maximum value of SAR (measured) = 0.682 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.682mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/29/2010 10:40:16 AM

Test Laboratory: RIM Testing Services

**Horizontal\_Holster\_Front\_GPRS850\_mid\_chan\_amb\_temp\_23.2C\_liq\_temper\_21.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8 \text{ MHz}$ ;  $\sigma = 0.956 \text{ mho/m}$ ;  $\epsilon_r = 53.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.494 mW/g

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

Reference Value = 20.7 V/m; Power Drift = -0.051 dB

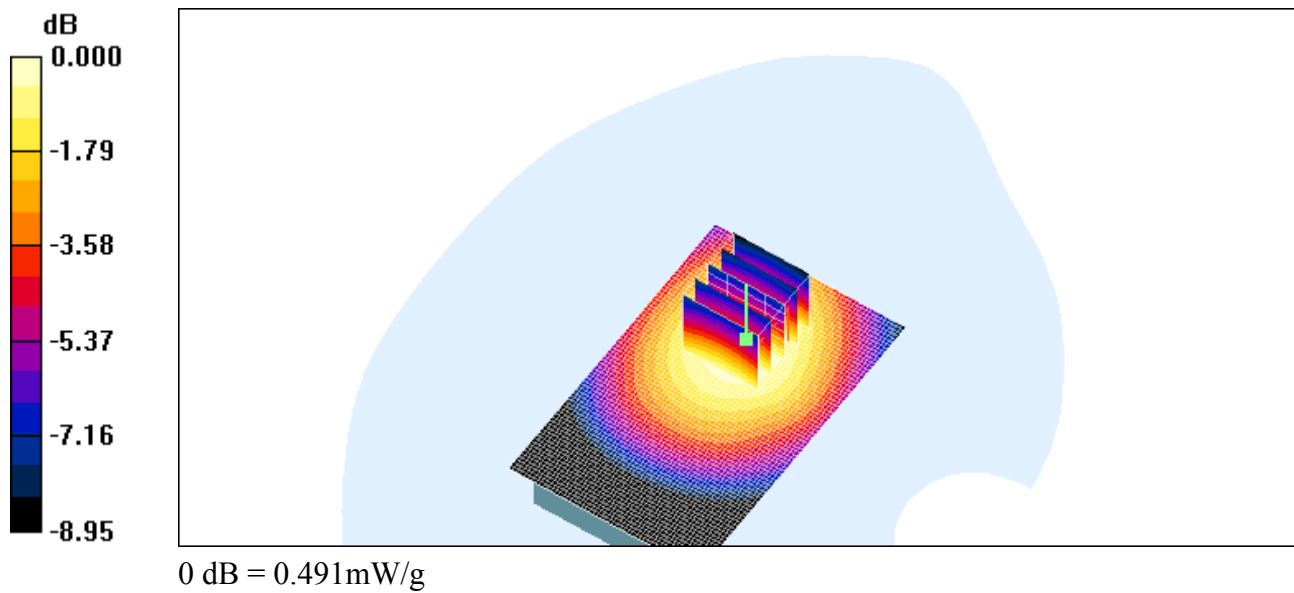
Peak SAR (extrapolated) = 0.602 W/kg

**SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.342 mW/g**

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

Maximum value of SAR (measured) = 0.491 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/29/2010 10:58:10 AM

Test Laboratory: RIM Testing Services

**Horizontal\_Holster\_Back\_HS#2\_GPRS850\_mid\_chan\_amb\_temp\_23.2  
C\_liq\_temp\_21.7C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8 \text{ MHz}$ ;  $\sigma = 0.956 \text{ mho/m}$ ;  $\epsilon_r = 53.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.538 mW/g

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

Reference Value = 23.8 V/m; Power Drift = -0.072 dB

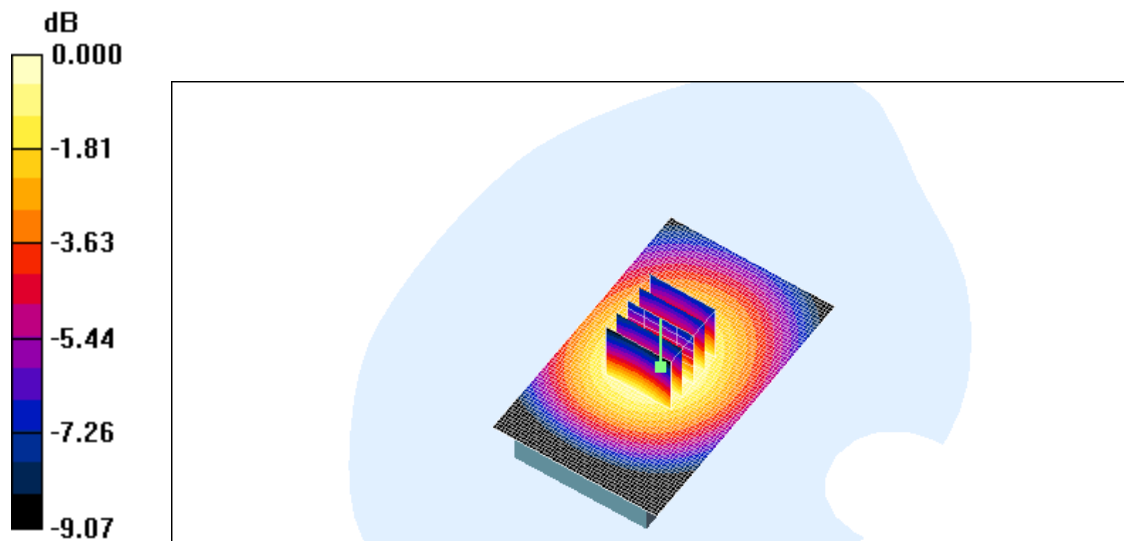
Peak SAR (extrapolated) = 0.651 W/kg

**SAR(1 g) = 0.503 mW/g; SAR(10 g) = 0.367 mW/g**

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

Maximum value of SAR (measured) = 0.531 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.531mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/29/2010 11:16:59 AM

Test Laboratory: RIM Testing Services

**25mm\_Spacer\_Back\_GPRS850\_mid\_chan\_amb\_temp\_23.2C\_liq\_temp\_21.7C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8 \text{ MHz}$ ;  $\sigma = 0.956 \text{ mho/m}$ ;  $\epsilon_r = 53.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.468 mW/g

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

Reference Value = 21.9 V/m; Power Drift = 0.019 dB

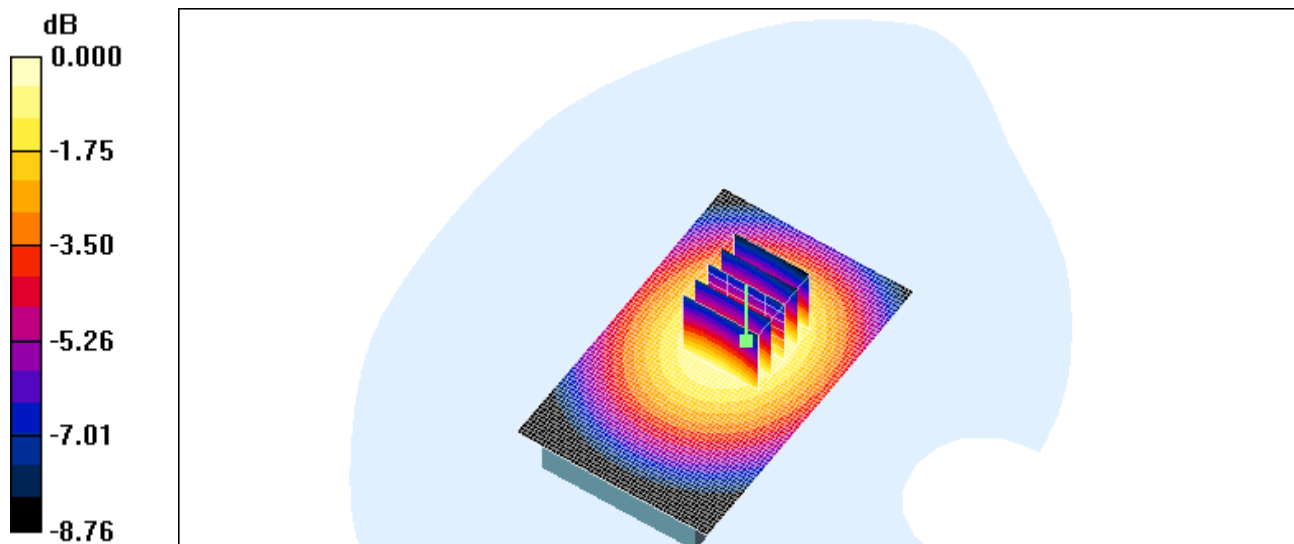
Peak SAR (extrapolated) = 0.574 W/kg

**SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.324 mW/g**

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

Maximum value of SAR (measured) = 0.469 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.469mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/22/2010 1:08:43 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back UMTS Band V low\\_chan\\_amb\\_temp\\_23.4C\\_liq\\_temp\\_22.8C\\_da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

**Program Name: Compliance Testing: (Body worn)**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.957 \text{ mho/m}$ ;  $\epsilon_r = 55.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) =  $0.690 \text{ mW/g}$

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

Reference Value =  $25.8 \text{ V/m}$ ; Power Drift =  $-0.044 \text{ dB}$

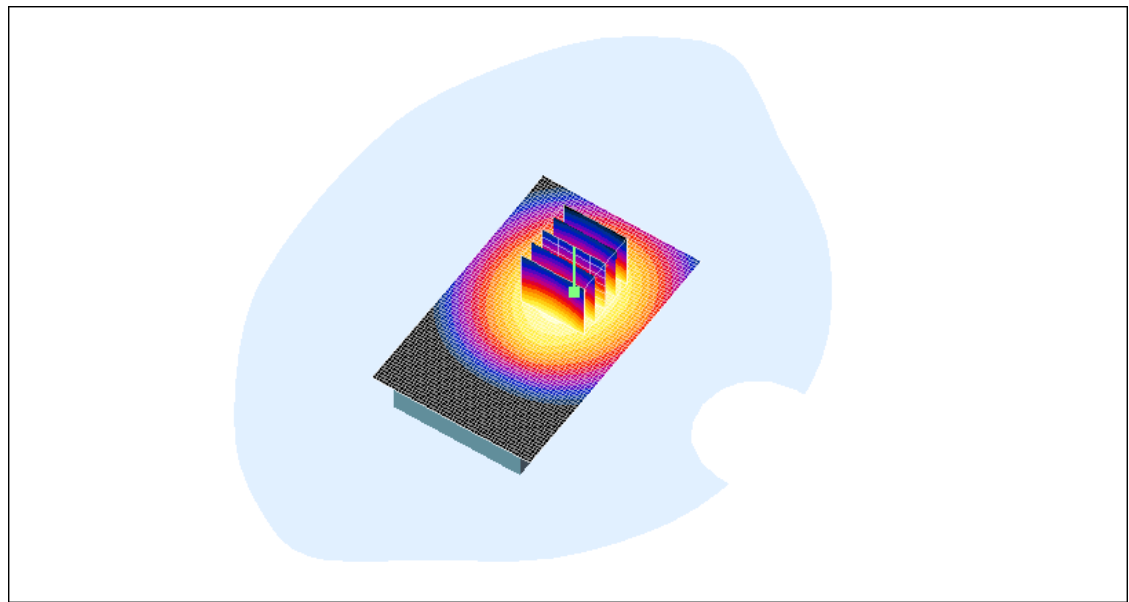
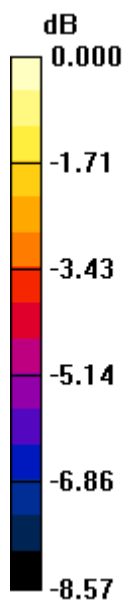
Peak SAR (extrapolated) =  $0.833 \text{ W/kg}$

**SAR(1 g) =  $0.650 \text{ mW/g}$ ; SAR(10 g) =  $0.478 \text{ mW/g}$**

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

Maximum value of SAR (measured) =  $0.687 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.687mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/22/2010 1:26:22 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back UMTS Band V mid chan amb temp 23.9C liq temp 22.9C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

**Program Name: Compliance Testing: (Body worn)**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.956 \text{ mho/m}$ ;  $\epsilon_r = 55.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) =  $0.650 \text{ mW/g}$

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

Reference Value =  $25.1 \text{ V/m}$ ; Power Drift =  $-0.002 \text{ dB}$

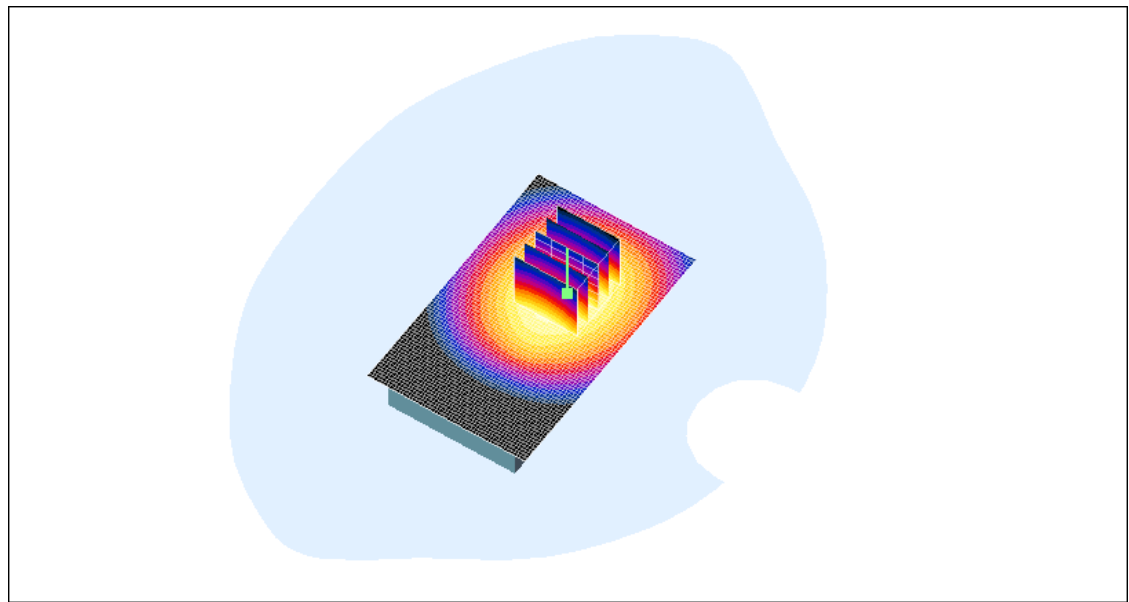
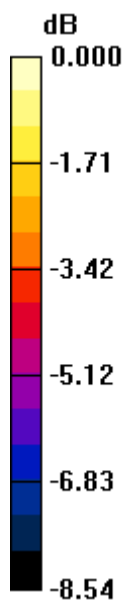
Peak SAR (extrapolated) =  $0.785 \text{ W/kg}$

**SAR(1 g) =  $0.611 \text{ mW/g}$ ; SAR(10 g) =  $0.449 \text{ mW/g}$**

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

Maximum value of SAR (measured) =  $0.648 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.648mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/22/2010 1:39:39 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back UMTS Band V high chan amb temp 23.9C liq temp 22.9C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

**Program Name: Compliance Testing: (Body worn)**

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 846.6 \text{ MHz}$ ;  $\sigma = 0.965 \text{ mho/m}$ ;  $\epsilon_r = 54.7$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) =  $0.611 \text{ mW/g}$

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

Reference Value =  $24.4 \text{ V/m}$ ; Power Drift =  $0.003 \text{ dB}$

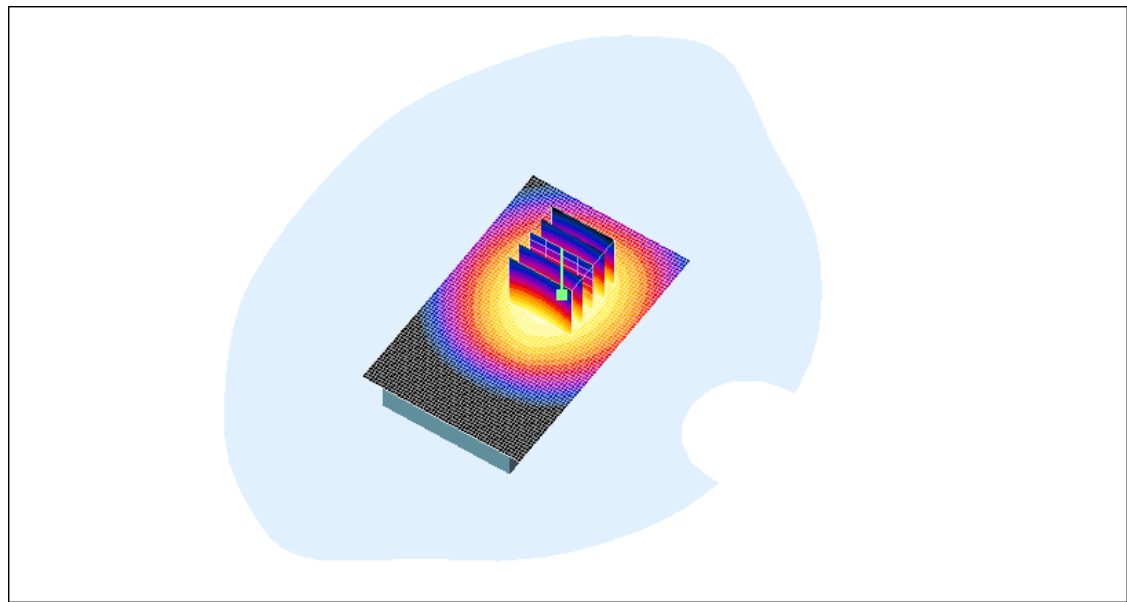
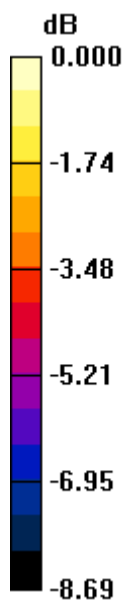
Peak SAR (extrapolated) =  $0.741 \text{ W/kg}$

**SAR(1 g) =  $0.577 \text{ mW/g}$ ; SAR(10 g) =  $0.423 \text{ mW/g}$**

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

Maximum value of SAR (measured) =  $0.610 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>17(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.610mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>18(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/22/2010 5:53:26 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back UMTS Band V low chan amb temp 23.5C liq temp 22.0 C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

**Program Name: Compliance Testing: (Body worn)**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.957 \text{ mho/m}$ ;  $\epsilon_r = 55.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.766 mW/g

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

Reference Value = 8.06 V/m; Power Drift = -0.094 dB

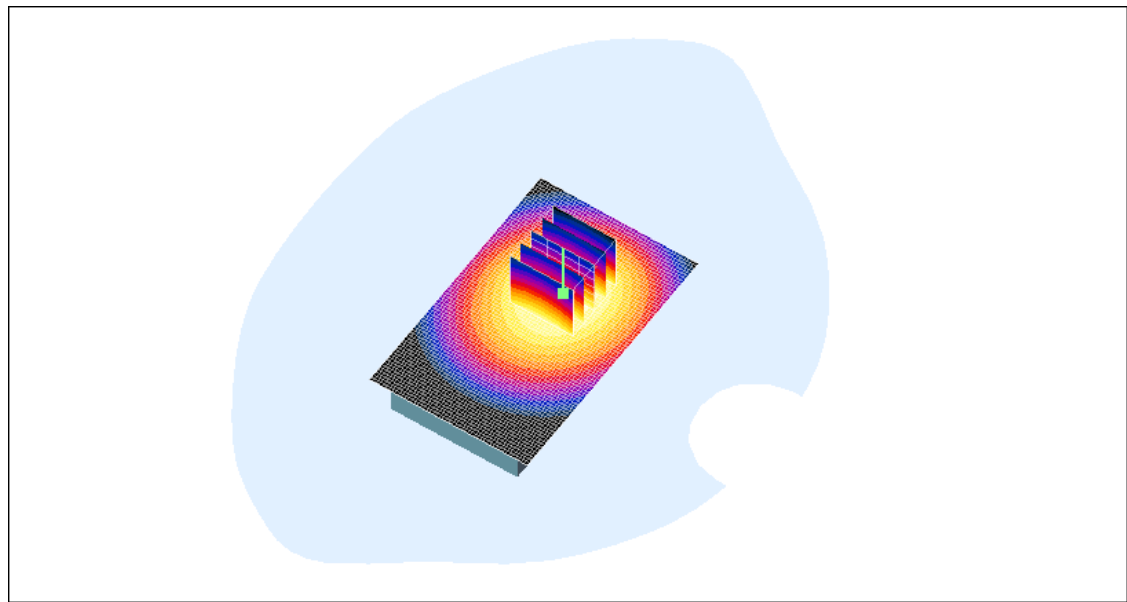
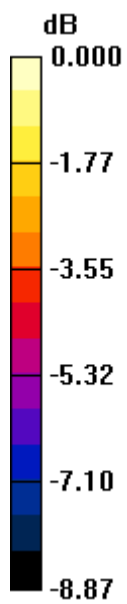
Peak SAR (extrapolated) = 0.958 W/kg

**SAR(1 g) = 0.720 mW/g; SAR(10 g) = 0.523 mW/g**

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

Maximum value of SAR (measured) = 0.763 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>19(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.763mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>20(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/22/2010 6:13:51 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Front UMTS Band V low chan amb temp 23.0C liq temp 21.9 C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

**Program Name: Compliance Testing: (Body worn)**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.957 \text{ mho/m}$ ;  $\epsilon_r = 55.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.553 mW/g

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

Reference Value = 6.40 V/m; Power Drift = -0.039 dB

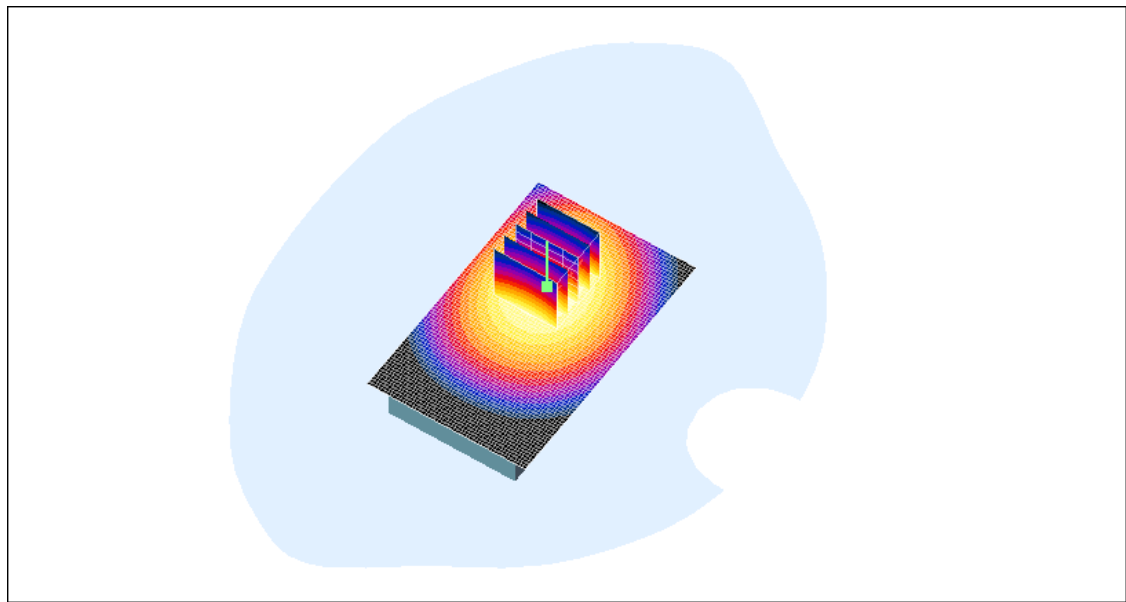
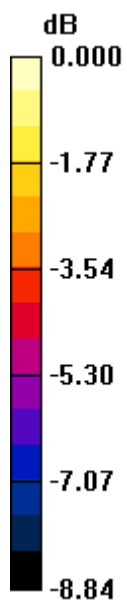
Peak SAR (extrapolated) = 0.676 W/kg

**SAR(1 g) = 0.523 mW/g; SAR(10 g) = 0.386 mW/g**

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

Maximum value of SAR (measured) = 0.553 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>21(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.553mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/22/2010 6:55:31 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#1 UMTS Band V low chan amb temp 23.1C liq temp 21.9C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

**Program Name: Compliance Testing: (Body worn)**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.957 \text{ mho/m}$ ;  $\epsilon_r = 55.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.511 mW/g

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

Reference Value = 7.23 V/m; Power Drift = 0.038 dB

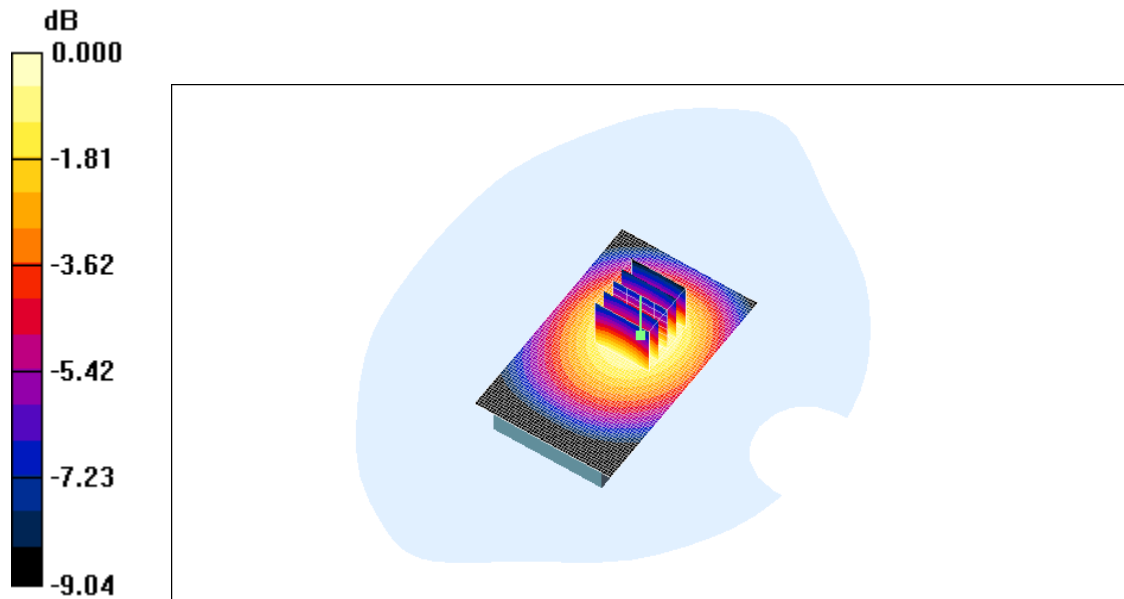
Peak SAR (extrapolated) = 0.627 W/kg

**SAR(1 g) = 0.481 mW/g; SAR(10 g) = 0.350 mW/g**

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

Maximum value of SAR (measured) = 0.511 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.511mW/g

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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/22/2010 7:27:22 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#2 UMTS Band V low chan amb temp 23.2C liq temp 22.0C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

**Program Name: Compliance Testing: (Body worn)**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.957 \text{ mho/m}$ ;  $\epsilon_r = 55.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.541 mW/g

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

Reference Value = 8.17 V/m; Power Drift = -0.008 dB

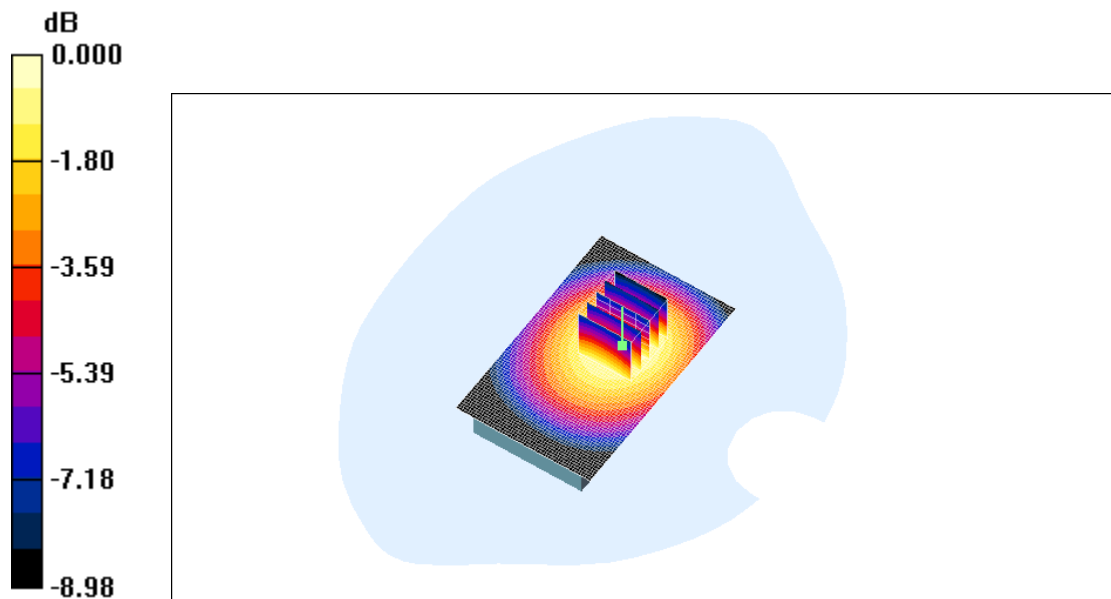
Peak SAR (extrapolated) = 0.659 W/kg

**SAR(1 g) = 0.507 mW/g; SAR(10 g) = 0.370 mW/g**

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

Maximum value of SAR (measured) = 0.538 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.538mW/g

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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/22/2010 7:41:56 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#3 UMTS Band V low chan amb temp 23.2C liq temp 22.0C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

**Program Name: Compliance Testing: (Body worn)**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.957 \text{ mho/m}$ ;  $\epsilon_r = 55.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) =  $0.473 \text{ mW/g}$

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

Reference Value =  $6.62 \text{ V/m}$ ; Power Drift =  $-0.071 \text{ dB}$

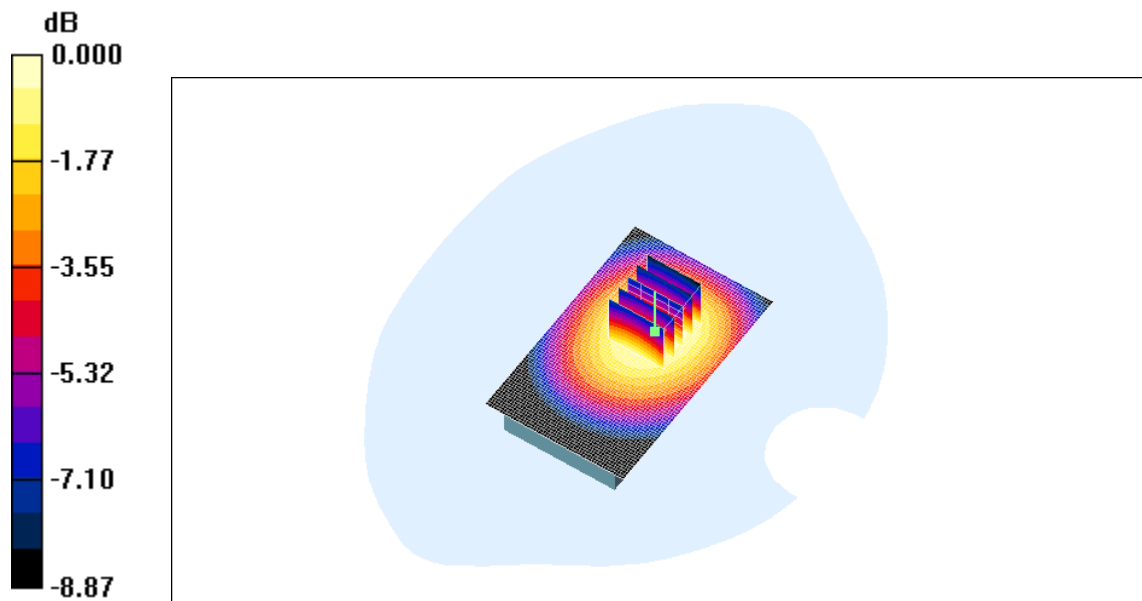
Peak SAR (extrapolated) =  $0.571 \text{ W/kg}$

**SAR(1 g) =  $0.442 \text{ mW/g}$ ; SAR(10 g) =  $0.325 \text{ mW/g}$**

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

Maximum value of SAR (measured) =  $0.467 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.467mW/g

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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 4/22/2010 7:57:48 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[25mm Spacer UMTS Band V low chan amb temp 22.8C liq temp 21.8C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

**Program Name: Compliance Testing: (Body worn)**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.957 \text{ mho/m}$ ;  $\epsilon_r = 55.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) =  $0.524 \text{ mW/g}$

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

Reference Value =  $8.79 \text{ V/m}$ ; Power Drift =  $-0.073 \text{ dB}$

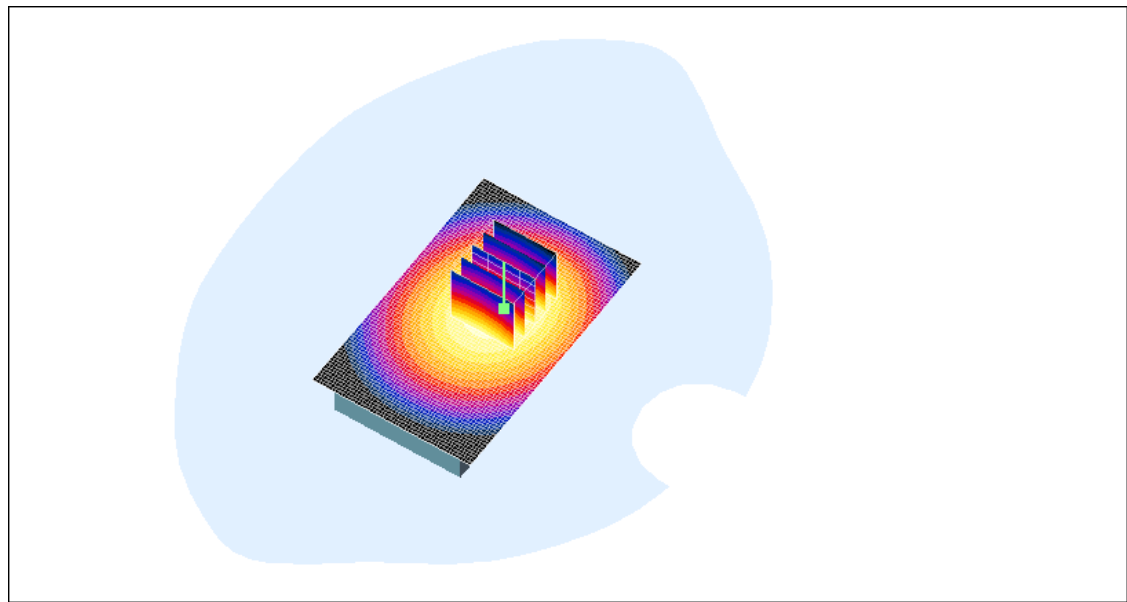
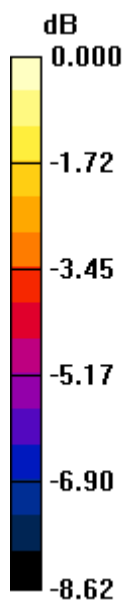
Peak SAR (extrapolated) =  $0.633 \text{ W/kg}$

**SAR(1 g) =  $0.492 \text{ mW/g}$ ; SAR(10 g) =  $0.364 \text{ mW/g}$**

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

Maximum value of SAR (measured) =  $0.520 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.520mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/3/2010 11:41:58 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back GPRS1900 mid chan amb temp 22.6C liq temp 21.3C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1**

**Program Name: Compliance Testing: (Body worn)**

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.6 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.403 mW/g

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

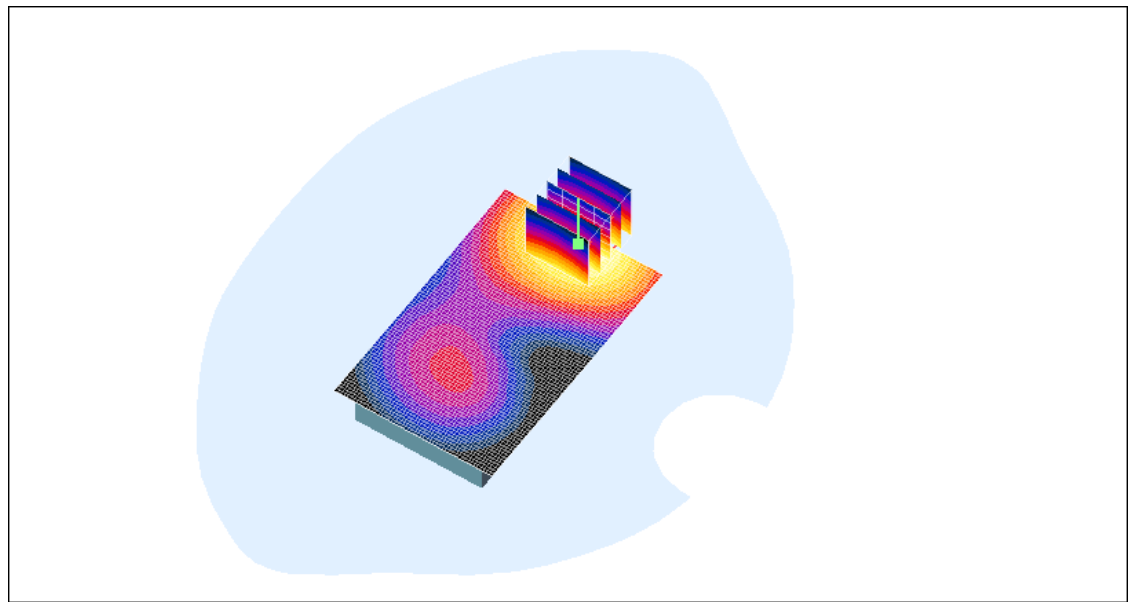
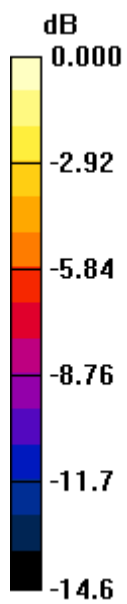
Reference Value = 5.11 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.557 W/kg

**SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.224 mW/g**

Maximum value of SAR (measured) = 0.400 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>31(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.400mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>32(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/4/2010 12:01:09 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal\\_Holster\\_Back\\_GPRS1900\\_mid\\_chan\\_amb\\_temp\\_22.6C\\_liq\\_temp\\_21.3C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

**Program Name: Compliance Testing: (Body worn)**

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.6 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.444 mW/g

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

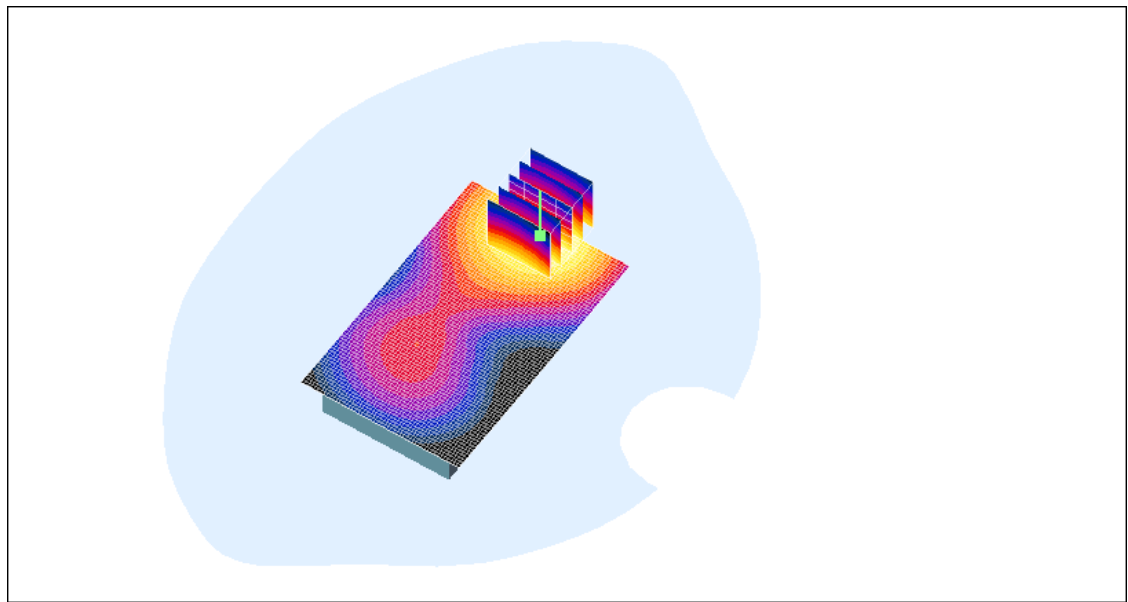
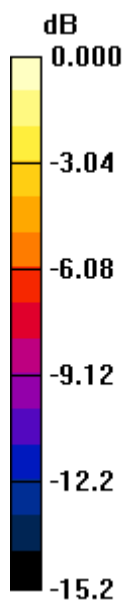
Reference Value = 6.31 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 0.607 W/kg

**SAR(1 g) = 0.401 mW/g; SAR(10 g) = 0.246 mW/g**

Maximum value of SAR (measured) = 0.435 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>33(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.435mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/4/2010 12:19:22 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal\\_Holster\\_Front\\_GPRS1900\\_mid\\_chan\\_amb\\_temp\\_22.1C\\_liq\\_temp\\_20.8C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

**Program Name: Compliance Testing: (Body worn)**

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.6 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.254 mW/g

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

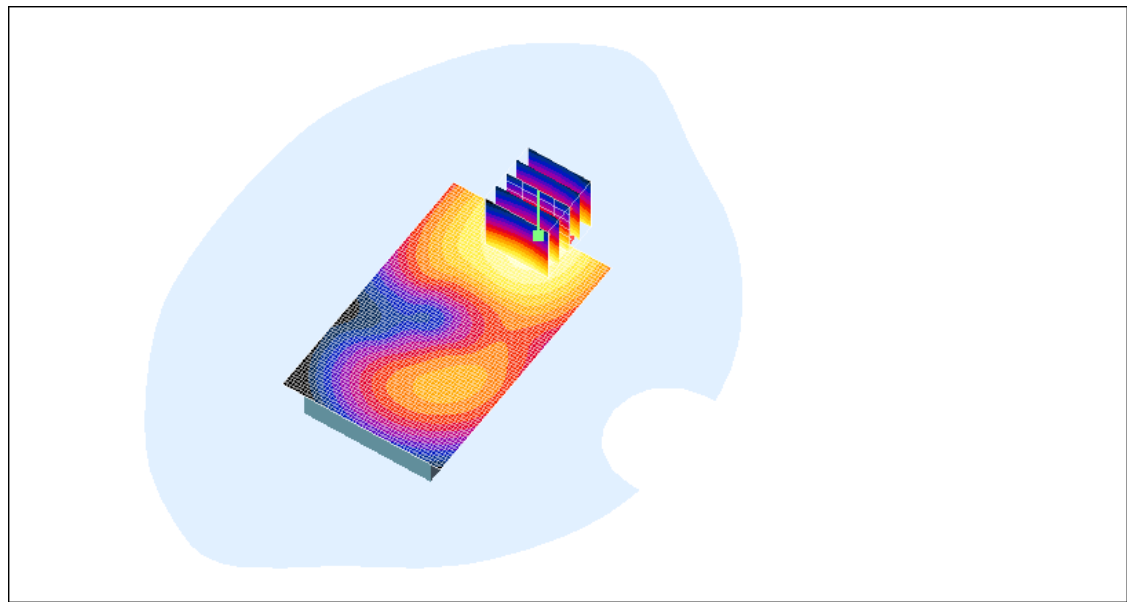
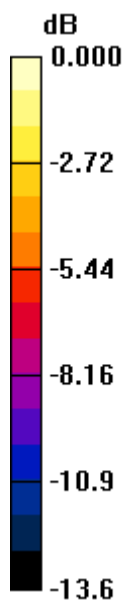
Reference Value = 4.30 V/m; Power Drift = 0.136 dB

Peak SAR (extrapolated) = 0.346 W/kg

**SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.150 mW/g**

Maximum value of SAR (measured) = 0.253 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>35(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.253mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>36(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/4/2010 12:38:44 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#2 GPRS1900 mid chan amb temp 22.1C liq temp 20.8C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

**Program Name: Compliance Testing: (Body worn)**

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.6 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.415 mW/g

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

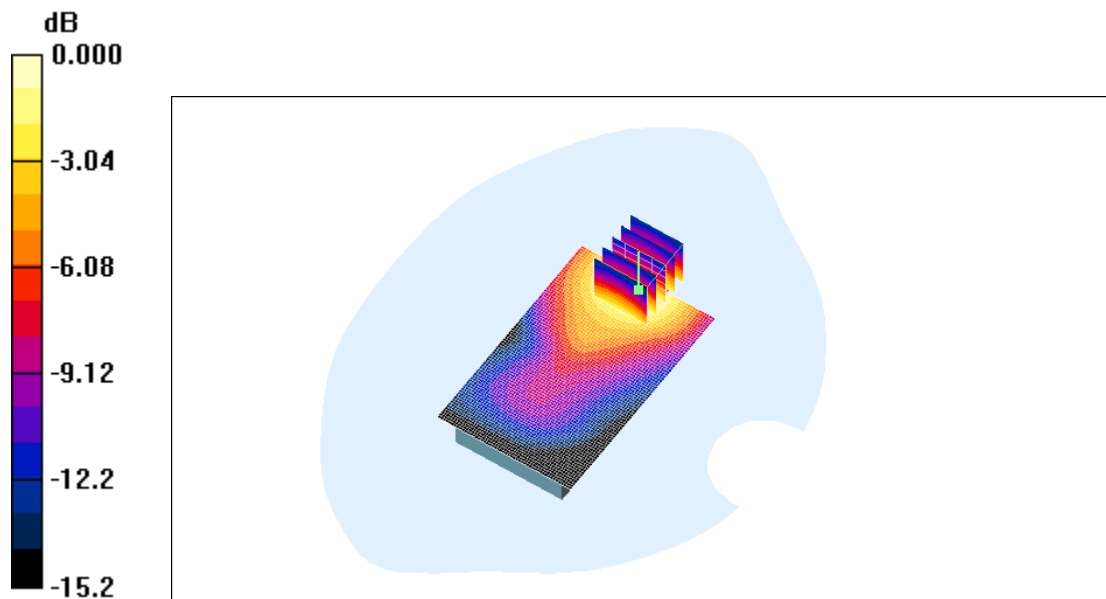
Reference Value = 7.59 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 0.583 W/kg

**SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.236 mW/g**

Maximum value of SAR (measured) = 0.421 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>37(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.421mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>38(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/4/2010 12:57:36 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[25mm Spacer GPRS1900 mid\\_chan\\_amb\\_temp 22.1C\\_liq\\_temp 20.8C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

**Program Name: Compliance Testing: (Body worn)**

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.6 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.367 mW/g

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

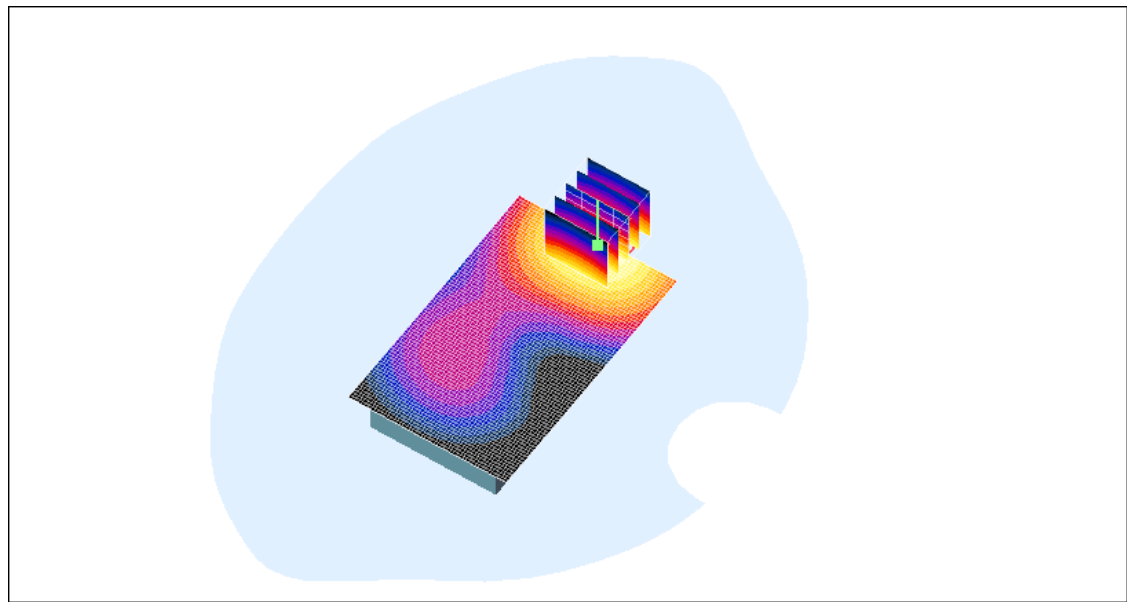
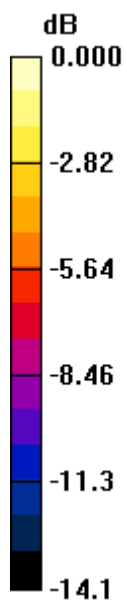
Reference Value = 5.10 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.517 W/kg

**SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.212 mW/g**

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

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>39(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.372mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>40(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/4/2010 9:56:25 AM

Test Laboratory: RIM Testing Services

**Vertical\_Holster\_Back\_UMTS\_Bnad\_II\_mid\_chan\_amb\_temp\_23.1C\_liq  
\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.6 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY4 (High Precision Assessment)

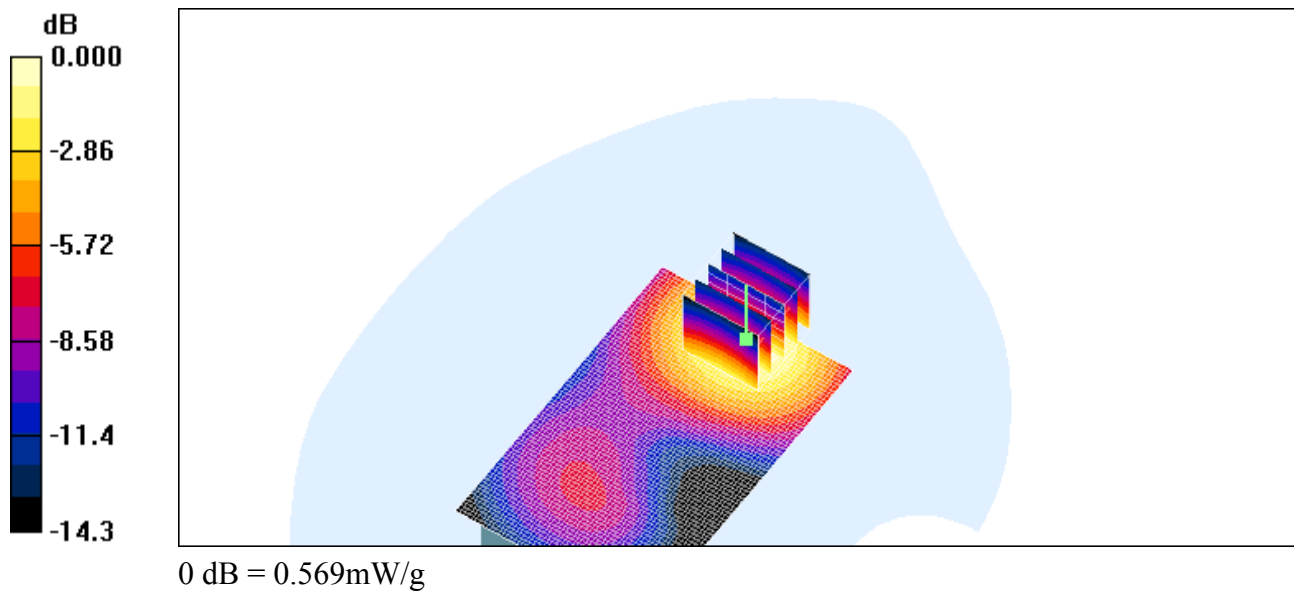
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.576 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  
 $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 7.56 V/m; Power Drift = -0.130 dB  
Peak SAR (extrapolated) = 0.785 W/kg  
**SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.321 mW/g**  
Maximum value of SAR (measured) = 0.569 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>41(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>42(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/4/2010 10:10:33 AM

Test Laboratory: RIM Testing Services

**Horizontal\_Holster\_Back\_UMTS\_Bnad\_II\_mid\_chan\_amb\_temp\_22.7C\_I  
iq\_temp\_21.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.6 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY4 (High Precision Assessment)

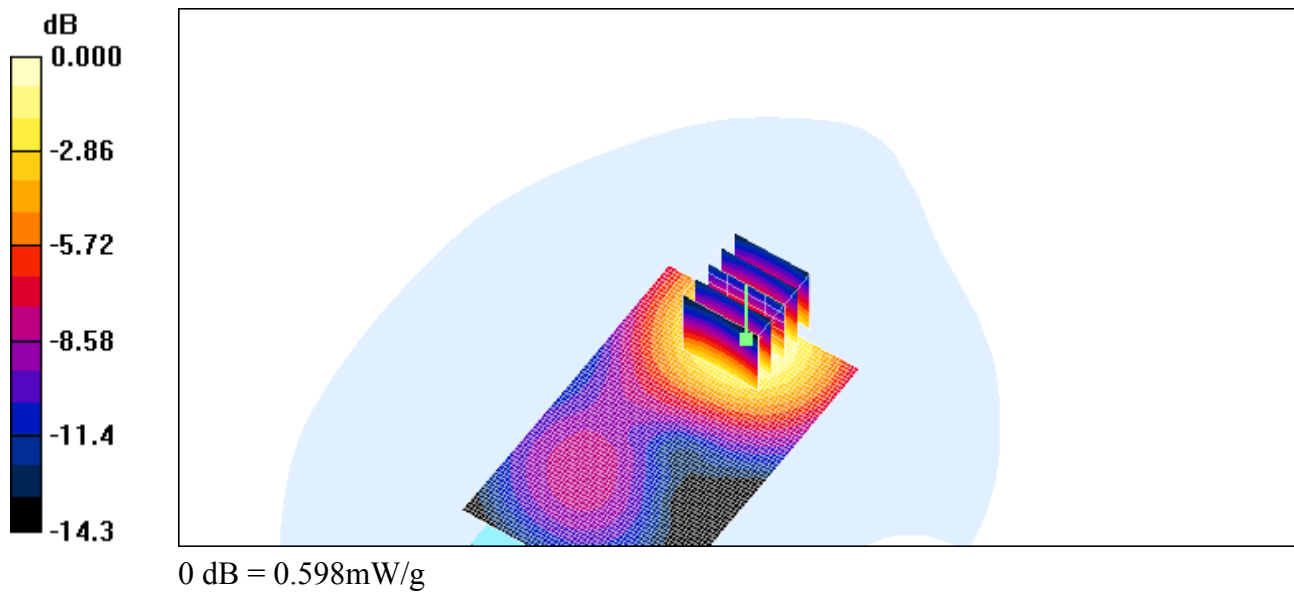
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.612 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  
 $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 7.42 V/m; Power Drift = -0.020 dB  
Peak SAR (extrapolated) = 0.821 W/kg  
**SAR(1 g) = 0.550 mW/g; SAR(10 g) = 0.342 mW/g**  
Maximum value of SAR (measured) = 0.598 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>43(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>44(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/4/2010 10:24:24 AM

Test Laboratory: RIM Testing Services

**Horizontal\_Holster\_Front\_UMTS\_Bnad\_II\_mid\_chan\_amb\_temp\_22.6C\_**  
**liq\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.6 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY4 (High Precision Assessment)

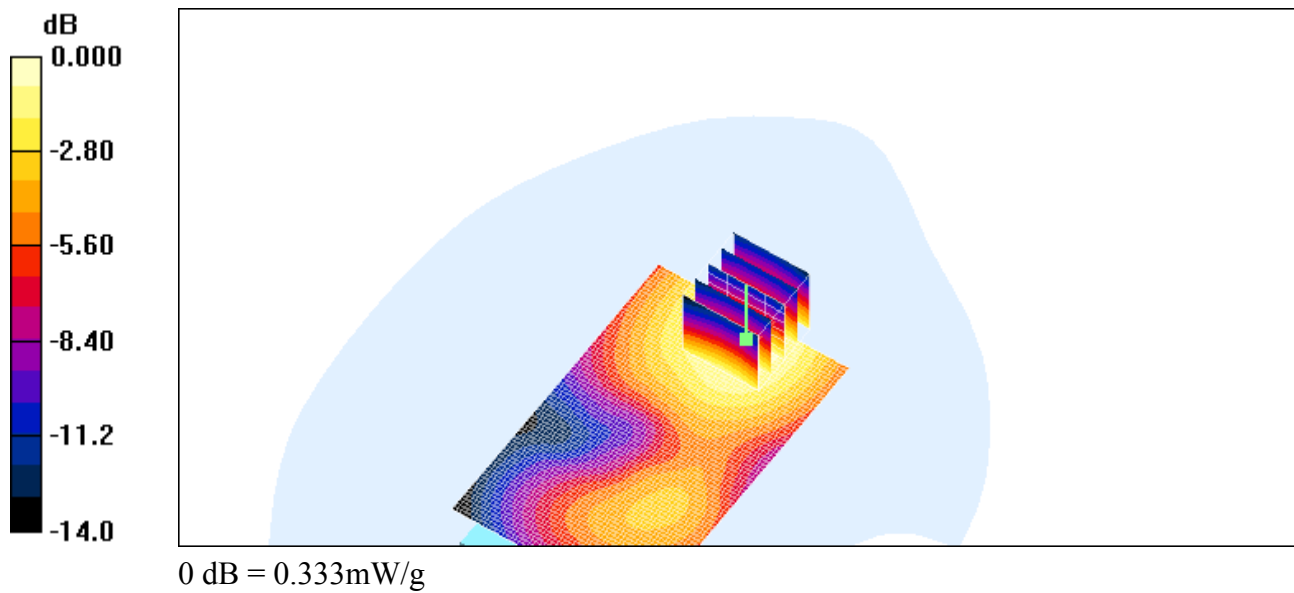
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.329 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  
 $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 7.29 V/m; Power Drift = 0.013 dB  
Peak SAR (extrapolated) = 0.457 W/kg  
**SAR(1 g) = 0.309 mW/g; SAR(10 g) = 0.198 mW/g**  
Maximum value of SAR (measured) = 0.333 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>45(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



|                                                                                  |                                                                                       |                                           |                              |                               |
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|  | Document<br><b>Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report</b> |                                           |                              | Page<br><b>46(64)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/4/2010 10:55:26 AM

Test Laboratory: RIM Testing Services

**Horizontal\_Holster\_Back\_HS#2\_UMTS\_Bnad\_II\_mid\_chan\_amb\_temp\_22.4C\_liq\_temp\_21.3C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.6 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY4 (High Precision Assessment)

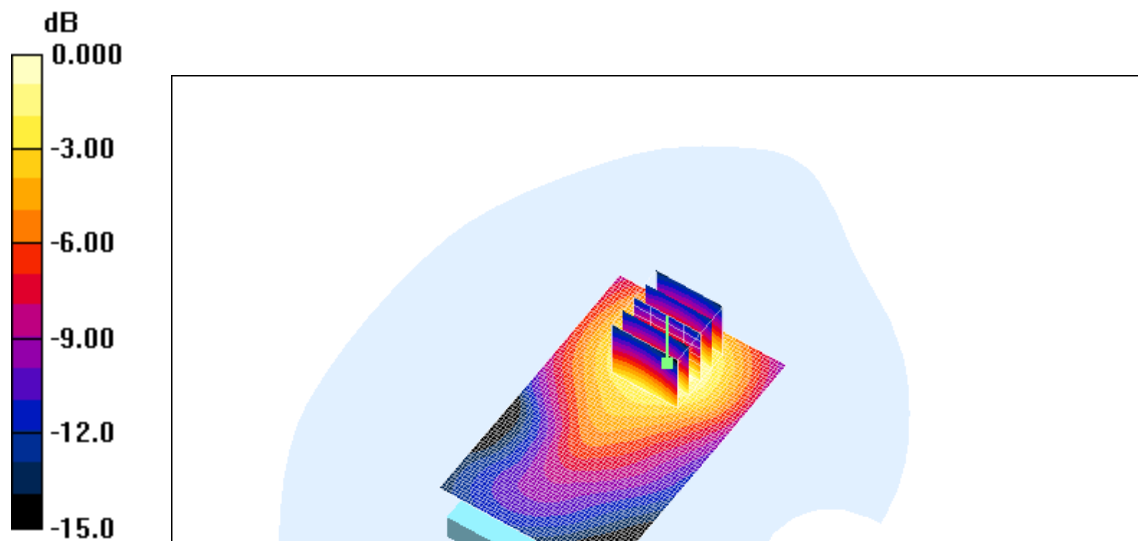
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.635 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 9.26 V/m; Power Drift = 0.030 dB  
Peak SAR (extrapolated) = 0.870 W/kg  
**SAR(1 g) = 0.578 mW/g; SAR(10 g) = 0.356 mW/g**  
Maximum value of SAR (measured) = 0.630 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.630mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/4/2010 11:08:54 AM

Test Laboratory: RIM Testing Services

**25mm\_Spacer\_Back\_UMTS\_Bnad\_II\_mid\_chan\_amb\_temp\_22.2C\_liq\_t  
emp\_21.3C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.6 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY4 (High Precision Assessment)

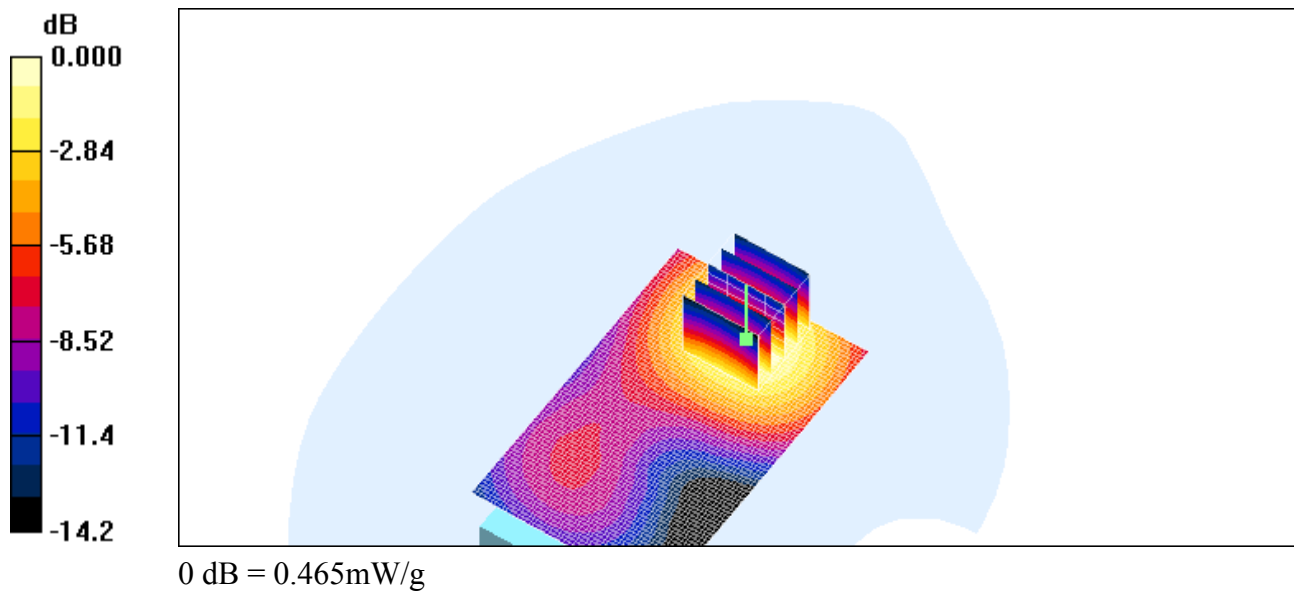
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.469 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  
 $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 7.16 V/m; Power Drift = -0.030 dB  
Peak SAR (extrapolated) = 0.641 W/kg  
**SAR(1 g) = 0.428 mW/g; SAR(10 g) = 0.268 mW/g**  
Maximum value of SAR (measured) = 0.465 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/10/2010 5:49:11 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back 802.11b low chan amb temp 23.8C liq temp 21.9C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

**Program Name: Compliance Testing: (Body worn)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 49.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) =  $0.387 \text{ mW/g}$

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

Reference Value =  $4.87 \text{ V/m}$ ; Power Drift =  $0.020 \text{ dB}$

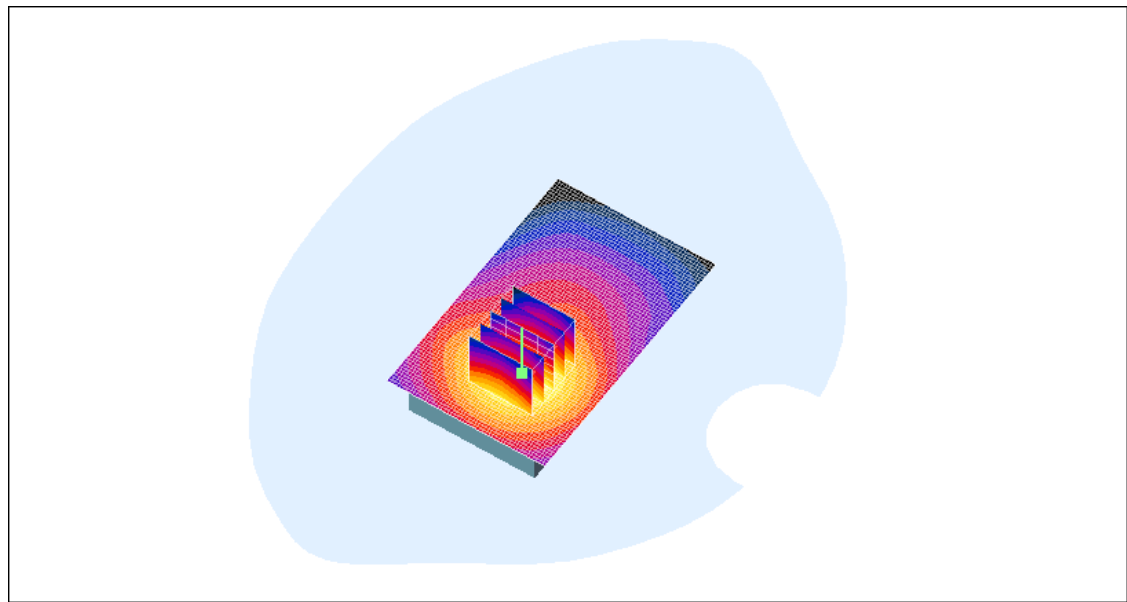
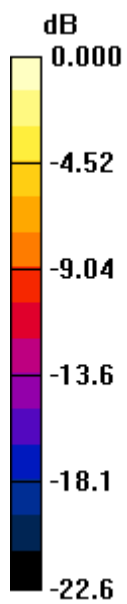
Peak SAR (extrapolated) =  $0.681 \text{ W/kg}$

**SAR(1 g) =  $0.362 \text{ mW/g}$ ; SAR(10 g) =  $0.179 \text{ mW/g}$**

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

Maximum value of SAR (measured) =  $0.413 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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0 dB = 0.413mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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Date/Time: 5/10/2010 5:17:46 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal\\_Holster\\_Back\\_802.11b\\_low\\_chan\\_amb\\_temp\\_22.9C\\_liq\\_temp\\_21.6C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

**Program Name: Compliance Testing: (Body worn)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 49.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) =  $0.354 \text{ mW/g}$

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

Reference Value =  $7.50 \text{ V/m}$ ; Power Drift =  $-0.140 \text{ dB}$

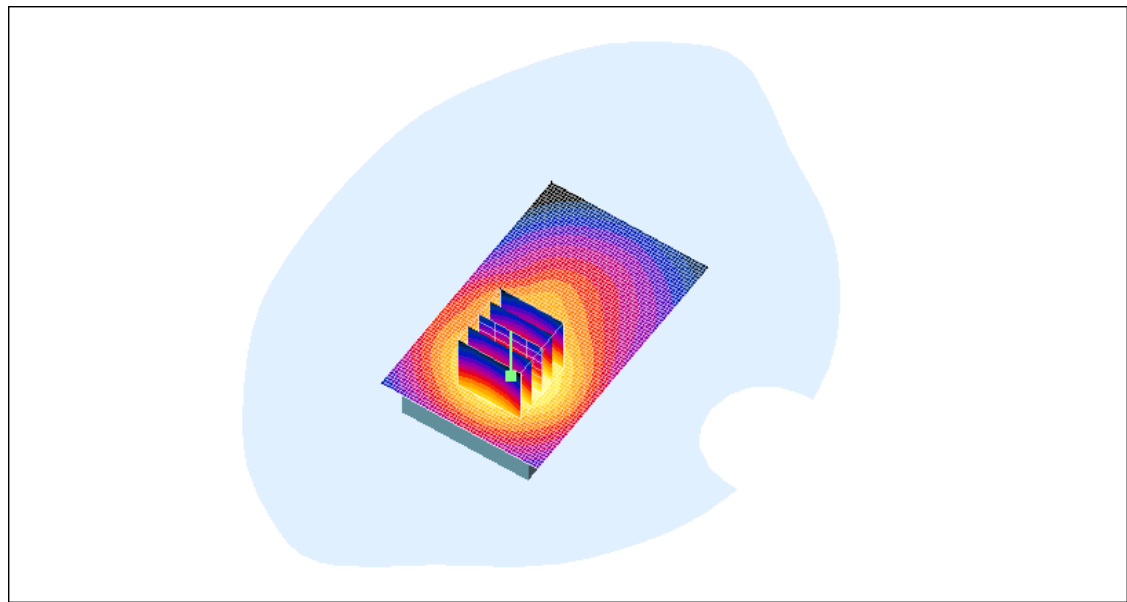
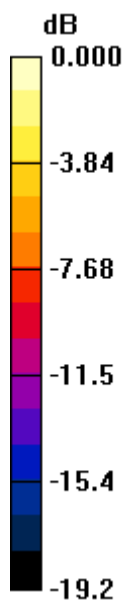
Peak SAR (extrapolated) =  $0.586 \text{ W/kg}$

**SAR(1 g) =  $0.322 \text{ mW/g}$ ; SAR(10 g) =  $0.172 \text{ mW/g}$**

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

Maximum value of SAR (measured) =  $0.357 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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0 dB = 0.357mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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Test Laboratory: RIM Testing Services

**Horizontal\_Holster\_Back\_802.11b\_mid\_chan\_amb\_temp\_22.8C\_liq\_tem  
p\_21.7C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437 \text{ MHz}$ ;  $\sigma = 2.02 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) =  $0.314 \text{ mW/g}$

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

Reference Value =  $7.67 \text{ V/m}$ ; Power Drift =  $0.023 \text{ dB}$

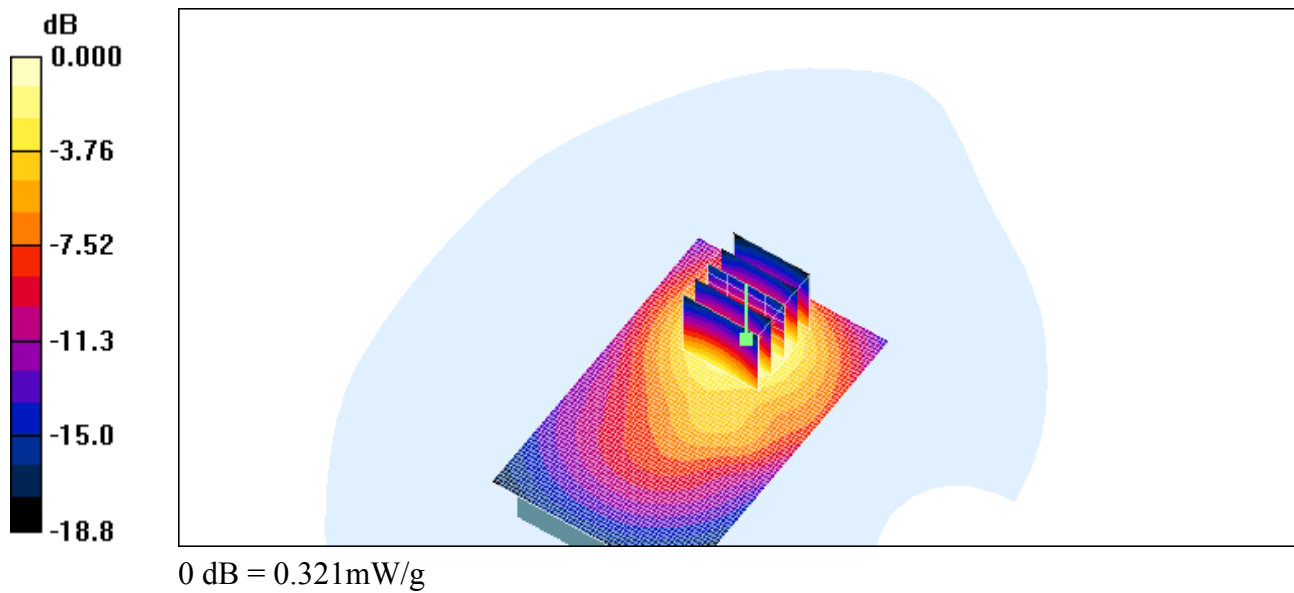
Peak SAR (extrapolated) =  $0.530 \text{ W/kg}$

**SAR(1 g) =  $0.292 \text{ mW/g}$ ; SAR(10 g) =  $0.158 \text{ mW/g}$**

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

Maximum value of SAR (measured) =  $0.321 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/10/2010 3:49:51 PM

Test Laboratory: RIM Testing Services

**Horizontal\_Holster\_Back\_802.11b\_high\_chan\_amb\_temp\_23.1C\_liq\_temper\_21.8C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

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

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

Reference Value = 7.60 V/m; Power Drift = -0.102 dB

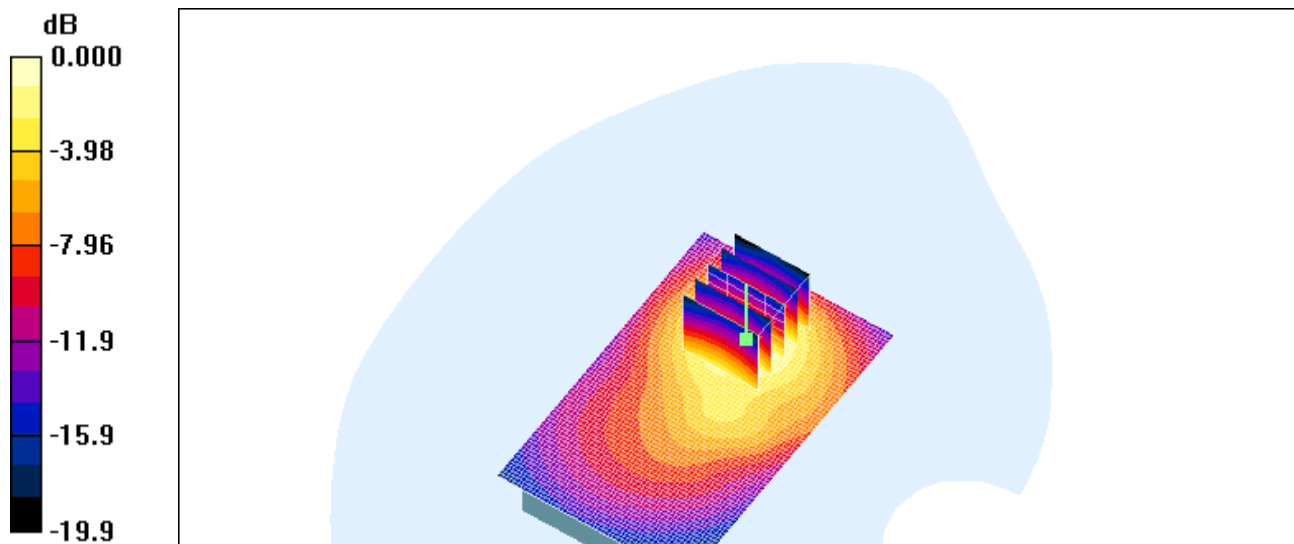
Peak SAR (extrapolated) = 0.451 W/kg

**SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.130 mW/g**

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

Maximum value of SAR (measured) = 0.269 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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0 dB = 0.269mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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Date/Time: 5/10/2010 6:53:14 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Front 802.11b low chan amb temp 23.8C liq temp 21.9C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

**Program Name: Compliance Testing: (Body worn)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 49.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) =  $0.008 \text{ mW/g}$

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

Reference Value =  $0.663 \text{ V/m}$ ; Power Drift =  $3.98 \text{ dB}$

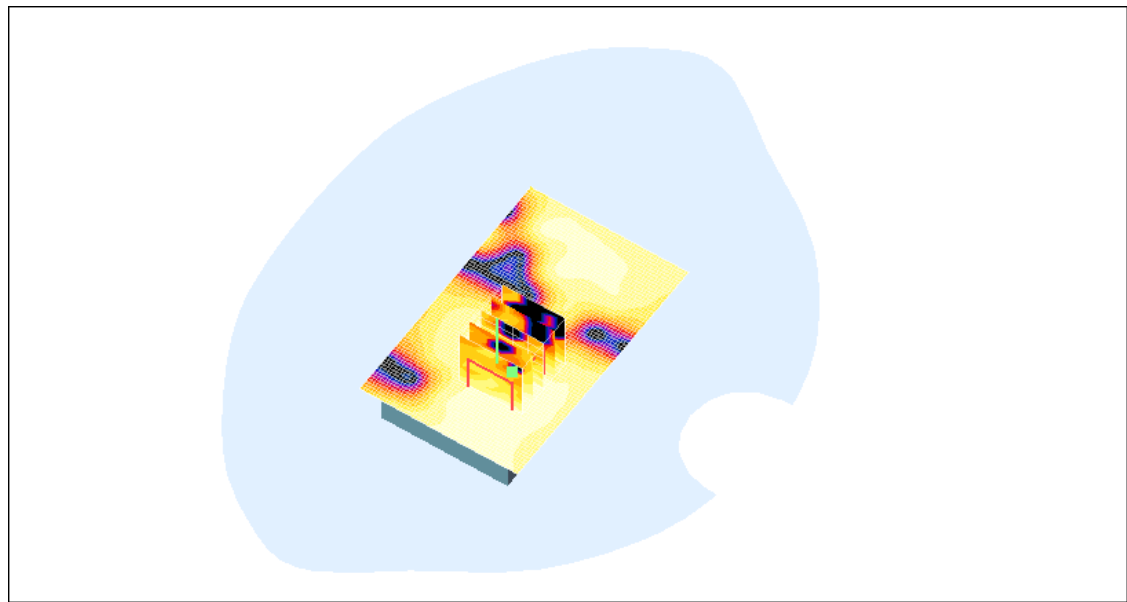
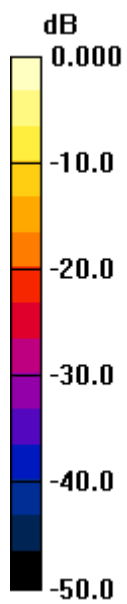
Peak SAR (extrapolated) =  $0.025 \text{ W/kg}$

**SAR(1 g) =  $0.00519 \text{ mW/g}$ ; SAR(10 g) =  $0.00218 \text{ mW/g}$**

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

Maximum value of SAR (measured) =  $0.006 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.006mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/10/2010 7:11:16 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back HS#2 802.11b low chan amb temp 23.4C liq temp 21.5C.da](#)  
[4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

**Program Name: Compliance Testing: (Body worn)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 49.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) =  $0.491 \text{ mW/g}$

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

Reference Value =  $5.32 \text{ V/m}$ ; Power Drift =  $0.103 \text{ dB}$

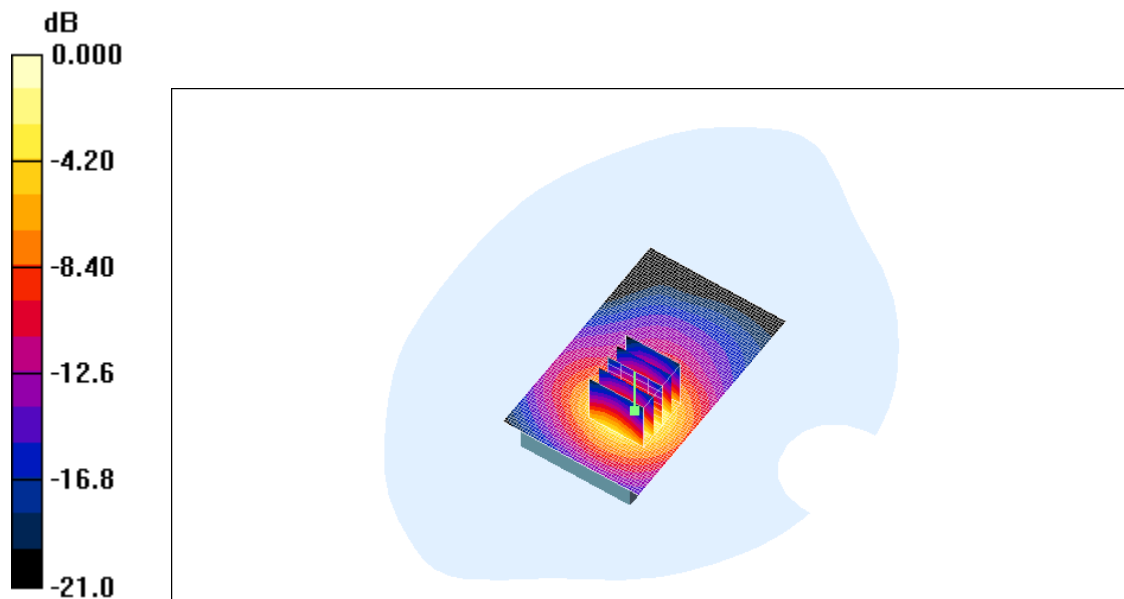
Peak SAR (extrapolated) =  $0.826 \text{ W/kg}$

**SAR(1 g) =  $0.440 \text{ mW/g}$ ; SAR(10 g) =  $0.216 \text{ mW/g}$**

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

Maximum value of SAR (measured) =  $0.490 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |



0 dB = 0.490mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>April 21– May 10, 2010</b>                                        | Test Report No<br><b>RTS-2671-1005-53</b> | FCC ID:<br><b>L6ARDA70UW</b> | IC ID<br><b>2503A-RDA70UW</b> |

Date/Time: 5/10/2010 7:33:41 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [25mm\\_Spacer\\_802.11b\\_low\\_chan\\_amb\\_temp\\_23.4C\\_liq\\_temp\\_21.5C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E**

**Program Name: Compliance Testing: (Body worn)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 49.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) =  $0.207 \text{ mW/g}$

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

Reference Value =  $5.07 \text{ V/m}$ ; Power Drift =  $0.271 \text{ dB}$

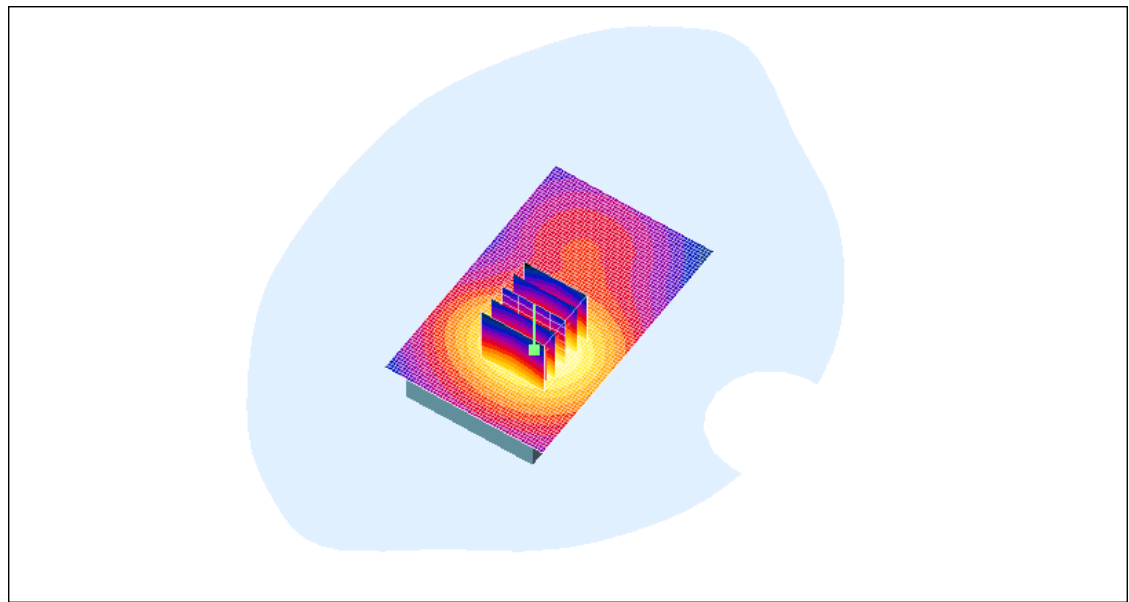
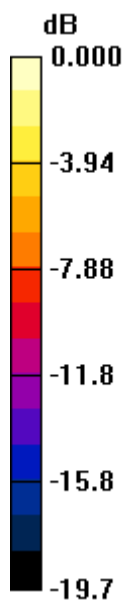
Peak SAR (extrapolated) =  $0.332 \text{ W/kg}$

**SAR(1 g) =  $0.185 \text{ mW/g}$ ; SAR(10 g) =  $0.101 \text{ mW/g}$**

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

Maximum value of SAR (measured) =  $0.202 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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0 dB = 0.202mW/g

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

