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

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Date/Time: 3/30/2010 10:27:36 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide CDMA800 low chan Amb Tem 23.2 Liq Tem 21.3 C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.875 \text{ mho/m}$ ;  $\epsilon_r = 40.3$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

DASY4 Configuration:

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

**Touch position -/Area Scan (61x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.864 mW/g

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


$dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

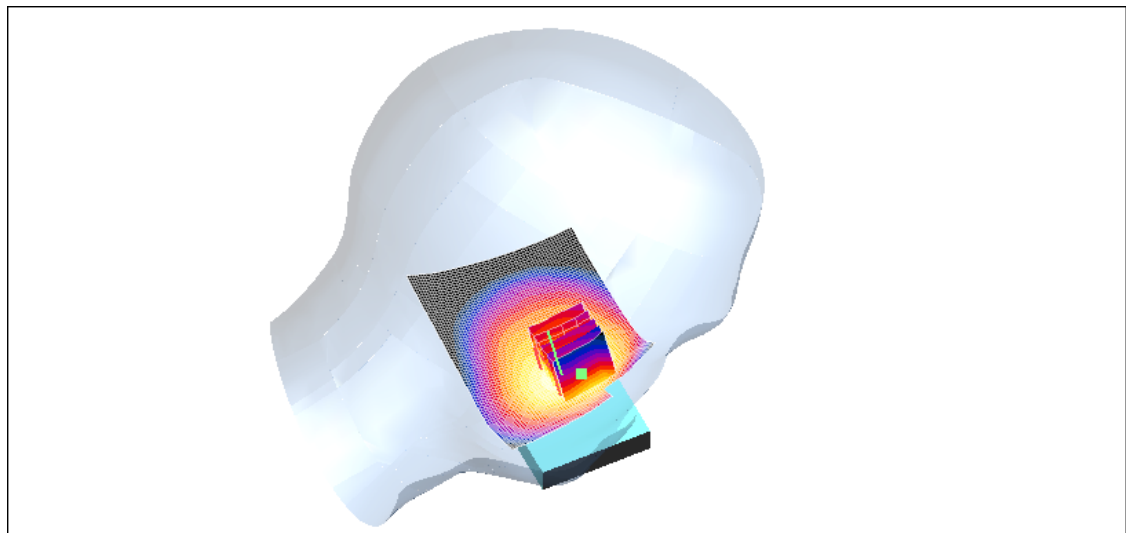
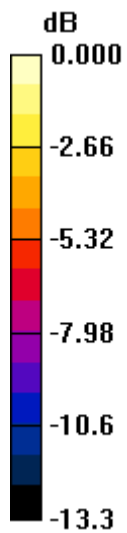
Reference Value = 11.5 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 1.06 W/kg


**SAR(1 g) = 0.795 mW/g; SAR(10 g) = 0.561 mW/g**

Maximum value of SAR (measured) = 0.832 mW/g

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0 dB = 0.832mW/g

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Date/Time: 3/30/2010 10:44:07 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_CDMA800\\_mid\\_chan\\_Amb\\_Tem\\_23.2\\_Liq\\_Tem\\_21.3\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.887$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

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

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

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

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

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


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

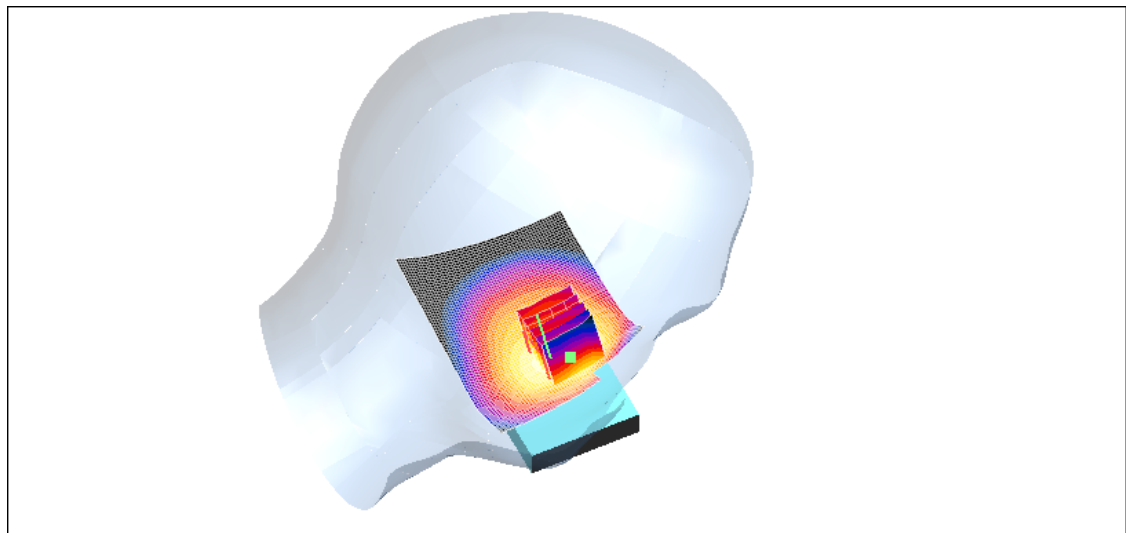
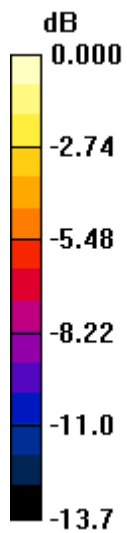
Reference Value = 11.8 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 1.16 W/kg


**SAR(1 g) = 0.864 mW/g; SAR(10 g) = 0.609 mW/g**

Maximum value of SAR (measured) = 0.919 mW/g

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0 dB = 0.919mW/g

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Date/Time: 3/30/2010 11:15:46 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_CDMA800\\_high\\_chan\\_Amb\\_Tem\\_23.2\\_Liq\\_Tem\\_21.3\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 848.52 \text{ MHz}$ ;  $\sigma = 0.897 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.11 mW/g

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


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

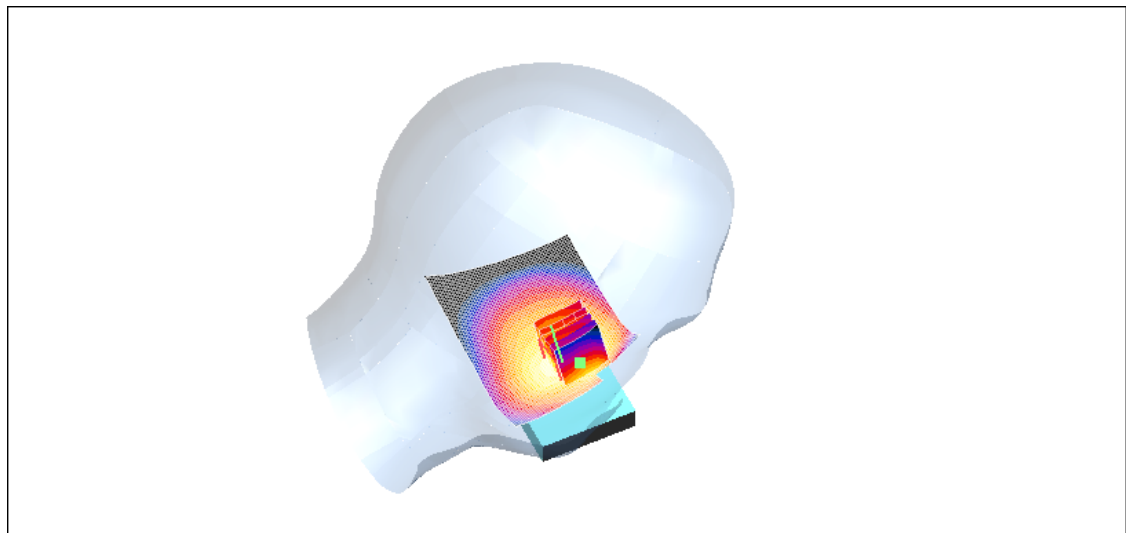
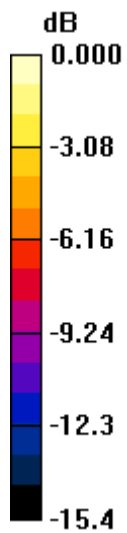
Reference Value = 12.4 V/m; Power Drift = 0.111 dB

Peak SAR (extrapolated) = 1.31 W/kg


**SAR(1 g) = 0.990 mW/g; SAR(10 g) = 0.696 mW/g**

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

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0 dB = 1.06mW/g

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			IC ID:
			<b>2503A-RCZ30CW</b>

Date/Time: 3/30/2010 11:56:28 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_Tilt\\_CDMA800\\_high\\_chan\\_Amb\\_Tem\\_23.2\\_Liq\\_Tem\\_21.3\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 848.52$  MHz;  $\sigma = 0.897$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.502 mW/g

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

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

Reference Value = 18.3 V/m; Power Drift = 0.099 dB


Peak SAR (extrapolated) = 0.614 W/kg

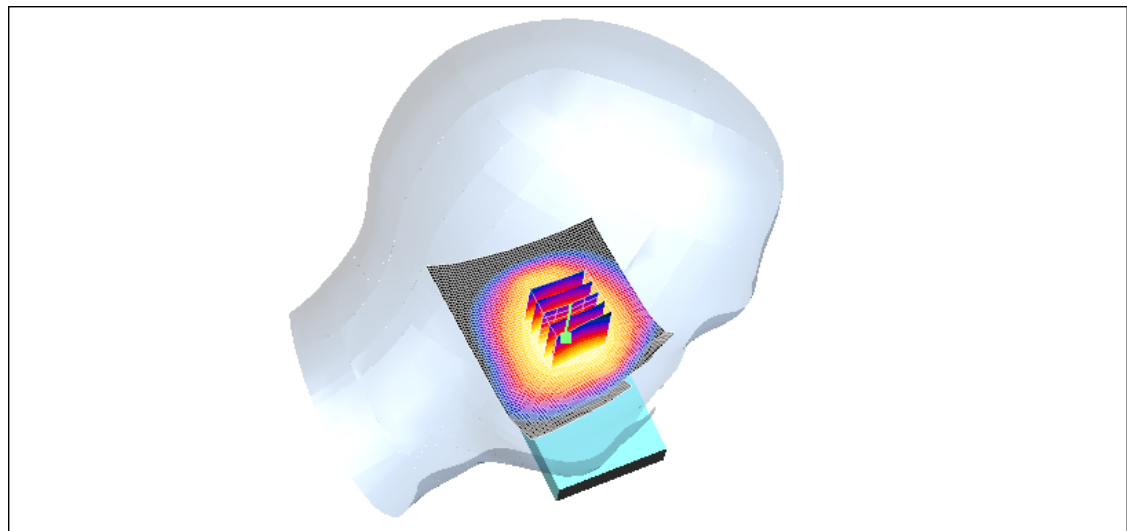
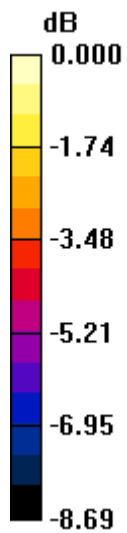
**SAR(1 g) = 0.491 mW/g; SAR(10 g) = 0.370 mW/g**

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


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



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0 dB = 0.518mW/g

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Date/Time: 3/30/2010 8:58:27 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_CDMA800\\_low\\_chan\\_amb\\_tem\\_23.0\\_Liq\\_Tem\\_21.2C\\_da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.875$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

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

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.934 mW/g


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

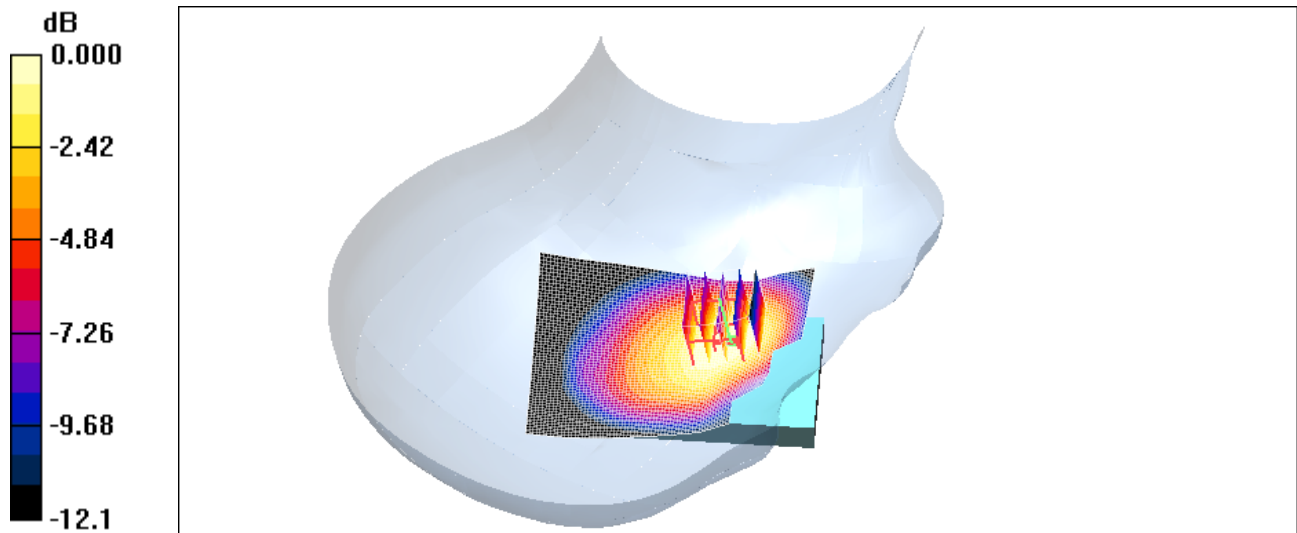
Reference Value = 11.1 V/m; Power Drift = 0.153 dB

Peak SAR (extrapolated) = 1.19 W/kg


**SAR(1 g) = 0.823 mW/g; SAR(10 g) = 0.571 mW/g**

Maximum value of SAR (measured) = 0.874 mW/g

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0 dB = 0.874mW/g

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Date/Time: 3/30/2010 8:39:43 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_CDMA800\\_mid\\_chan\\_amb\\_tem\\_22.9\\_Liq\\_Tem\\_21.2C\\_da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.887$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

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

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

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

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

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


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

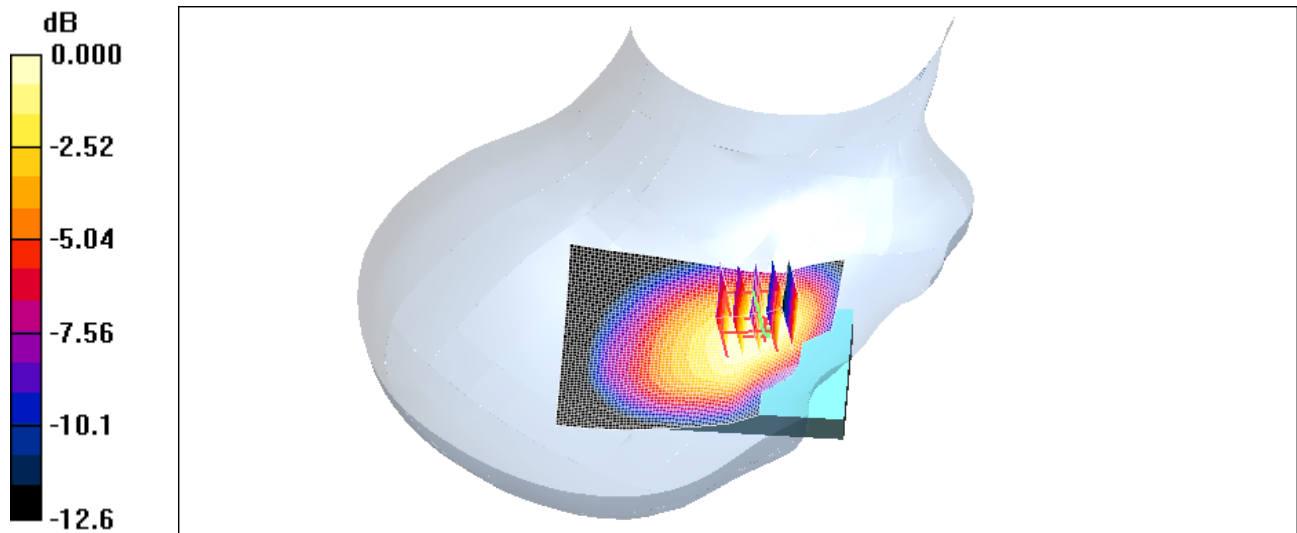
Reference Value = 12.0 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 1.30 W/kg


**SAR(1 g) = 0.920 mW/g; SAR(10 g) = 0.636 mW/g**

Maximum value of SAR (measured) = 0.972 mW/g

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0 dB = 0.972mW/g

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Date/Time: 3/30/2010 9:13:58 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_CDMA800\\_high\\_chan\\_amb\\_tem\\_23.1\\_Liq\\_Tem\\_21.3C\\_da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 848.52 \text{ MHz}$ ;  $\sigma = 0.897 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.20 mW/g

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


$dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

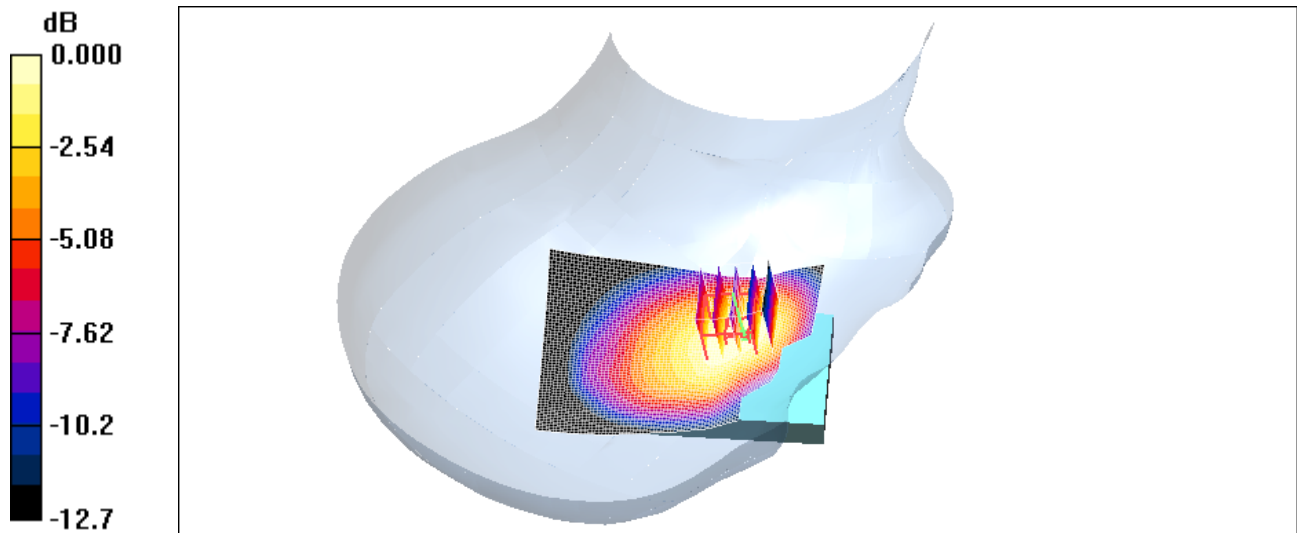
Reference Value = 12.5 V/m; Power Drift = 0.131 dB

Peak SAR (extrapolated) = 1.50 W/kg


**SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.727 mW/g**

Maximum value of SAR (measured) = 1.13 mW/g

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		IC ID: <b>2503A-RCZ30CW</b>	



0 dB = 1.13mW/g

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Date/Time: 3/30/2010 9:59:13 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_Tilt\\_CDMA800\\_high\\_chan\\_amb\\_tem\\_23.1\\_Liq\\_Tem\\_21.3C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 848.52$  MHz;  $\sigma = 0.897$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.535 mW/g

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

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

Reference Value = 17.5 V/m; Power Drift = -0.069 dB


Peak SAR (extrapolated) = 0.624 W/kg

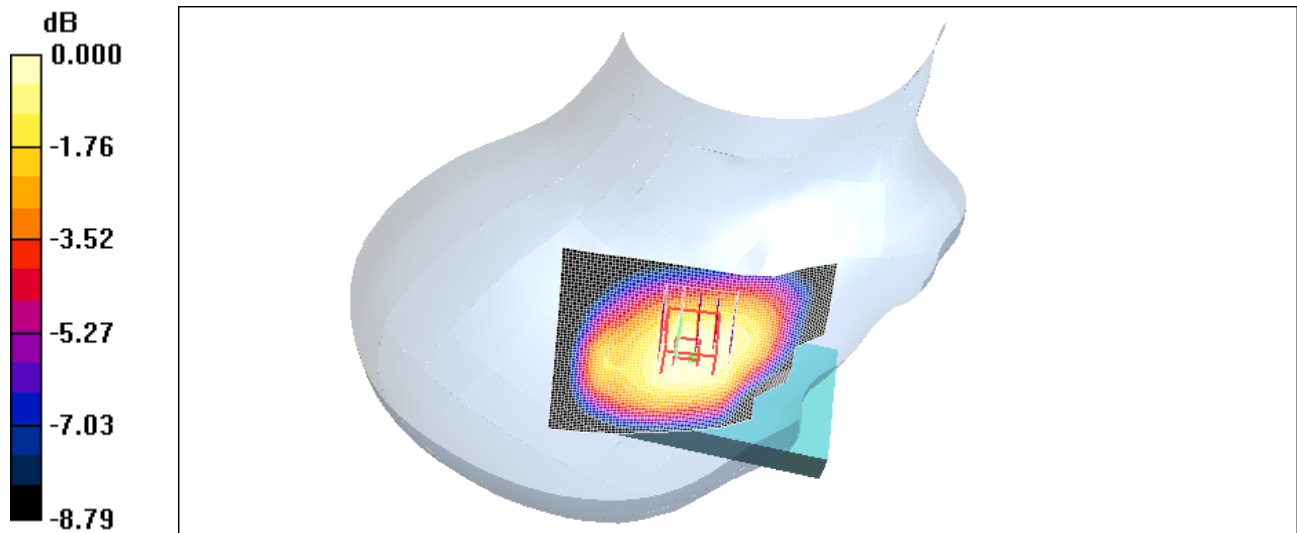
**SAR(1 g) = 0.504 mW/g; SAR(10 g) = 0.382 mW/g**

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


Maximum value of SAR (measured) = 0.524 mW/g



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0 dB = 0.524mW/g

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Date/Time: 3/30/2010 11:10:41 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_CDMA1700\\_low\\_chan\\_Amb\\_Tem\\_22.4\\_Liq\\_Tem\\_20.5\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: CDMA AWS 1700; Frequency: 1711.25 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1711.25 \text{ MHz}$ ;  $\sigma = 1.28 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.795 mW/g

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

$dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 11.0 V/m; Power Drift = 0.000 dB

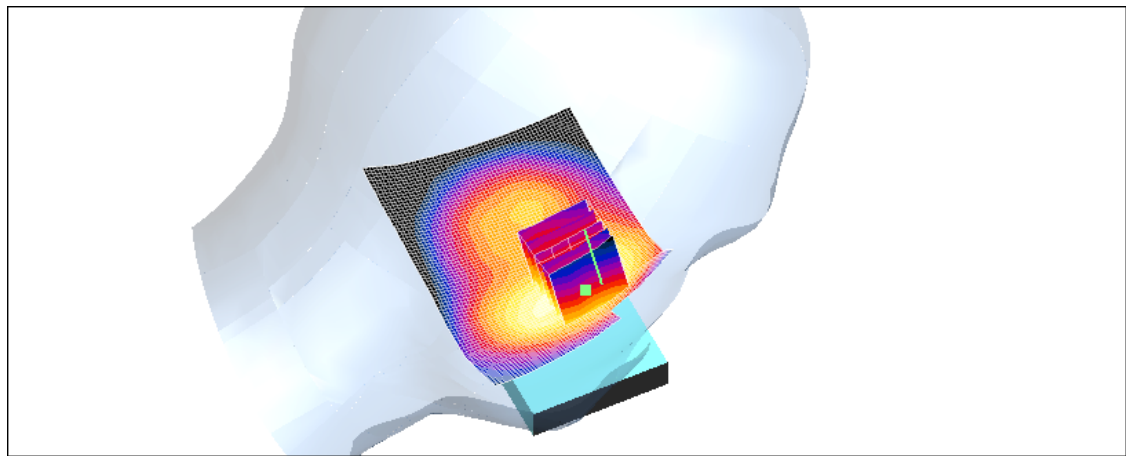
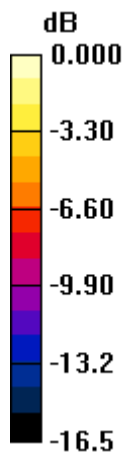
Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.721 mW/g; SAR(10 g) = 0.463 mW/g**


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

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

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0 dB = 0.763mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/30/2010 10:54:10 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_CDMA1700\\_mid\\_chan\\_Amb\\_Tem\\_23.0\\_Liq\\_Tem\\_20.2\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.3$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.912 mW/g

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

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


Reference Value = 12.3 V/m; Power Drift = 0.012 dB

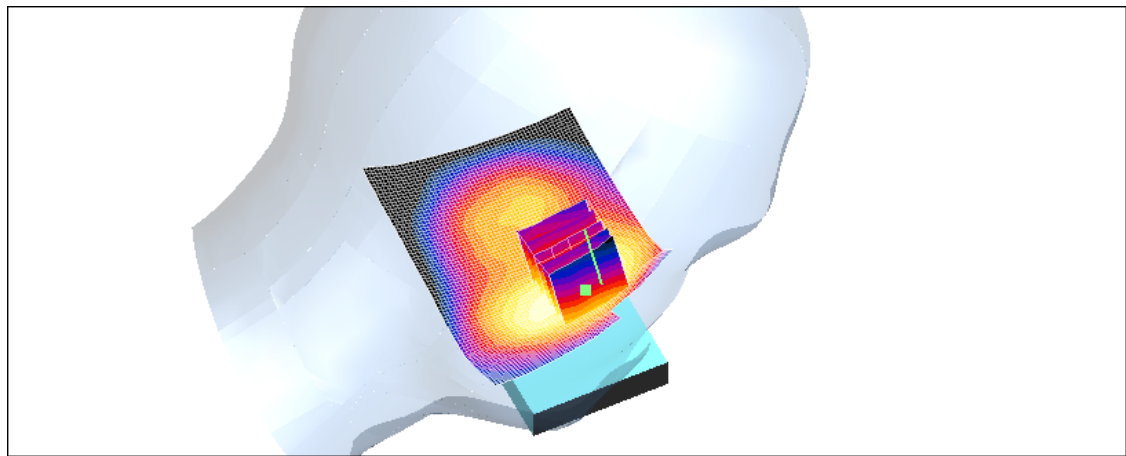
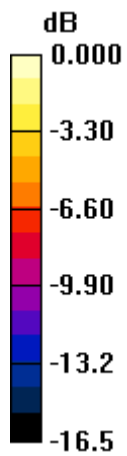
Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.800 mW/g; SAR(10 g) = 0.511 mW/g**


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

Maximum value of SAR (measured) = 0.853 mW/g

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		IC ID: <b>2503A-RCZ30CW</b>	



0 dB = 0.853mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/29/2010 6:22:39 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_CDMA1700\\_high\\_chan\\_Amb\\_Tem\\_23.0\\_Liq\\_Tem\\_21.0\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1753.75 \text{ MHz}$ ;  $\sigma = 1.33 \text{ mho/m}$ ;  $\epsilon_r = 39.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.144 mW/g

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

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


Reference Value = 4.30 V/m; Power Drift = 0.334 dB

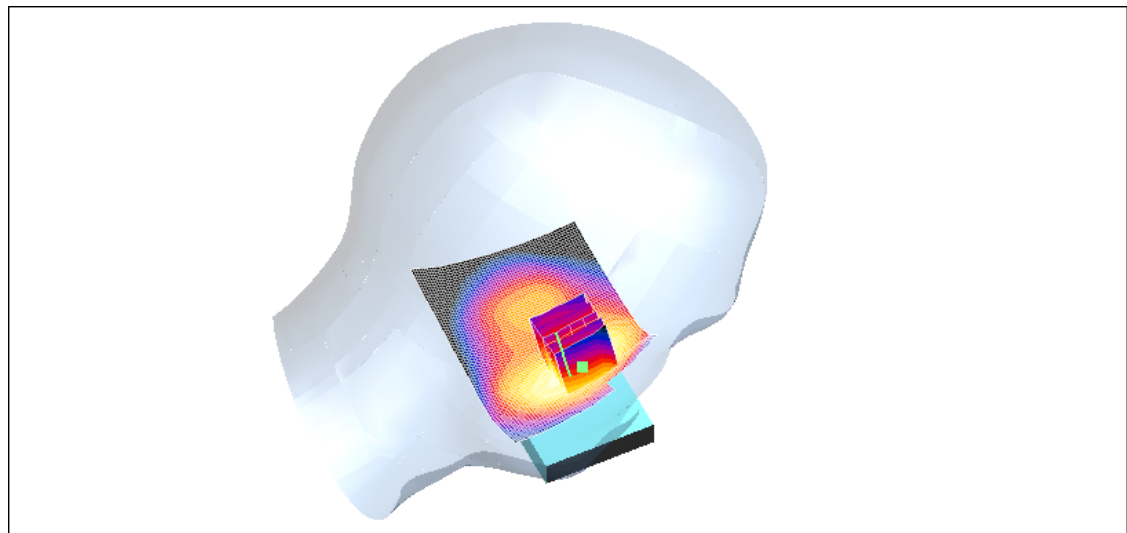
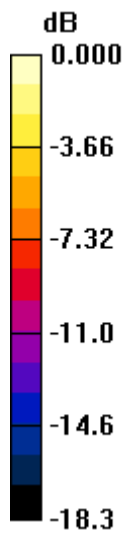
Peak SAR (extrapolated) = 0.244 W/kg

**SAR(1 g) = 0.144 mW/g; SAR(10 g) = 0.086 mW/g**


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

Maximum value of SAR (measured) = 0.158 mW/g

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0 dB = 0.158mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/30/2010 11:25:41 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_CDMA1700\\_high\\_chan\\_Amb\\_Tem\\_22.1\\_Liq\\_Tem\\_20.3\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1753.75$  MHz;  $\sigma = 1.33$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.791 mW/g

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

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

Reference Value = 10.7 V/m; Power Drift = -0.046 dB


Peak SAR (extrapolated) = 1.03 W/kg

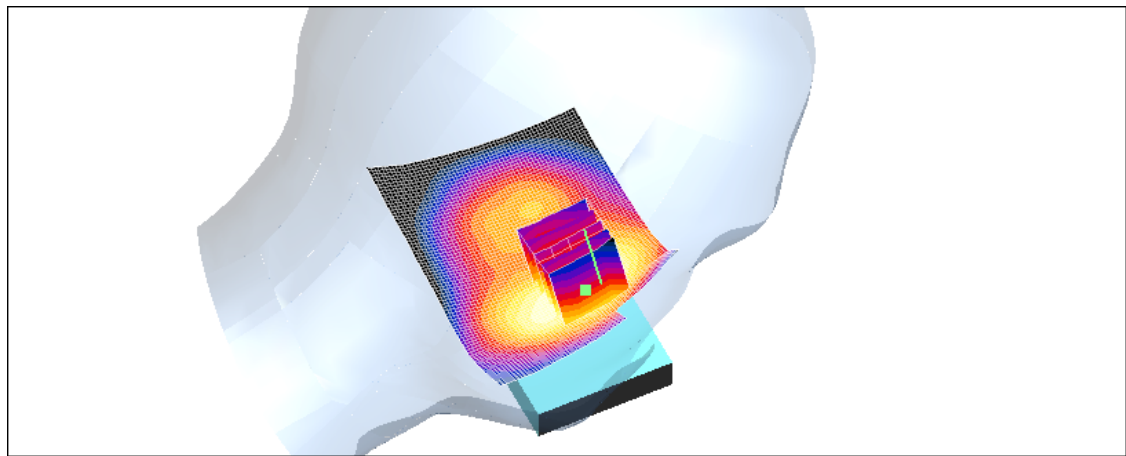
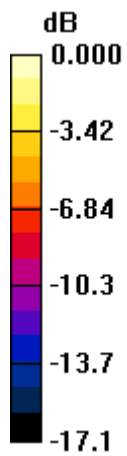
**SAR(1 g) = 0.675 mW/g; SAR(10 g) = 0.426 mW/g**

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


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



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0 dB = 0.732mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/30/2010 11:41:58 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_Tilt\\_CDMA1700\\_mid\\_chan\\_Amb\\_Tem\\_23.0\\_Liq\\_Tem\\_20.6\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.3$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.588 mW/g

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

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


Reference Value = 19.4 V/m; Power Drift = -0.013 dB

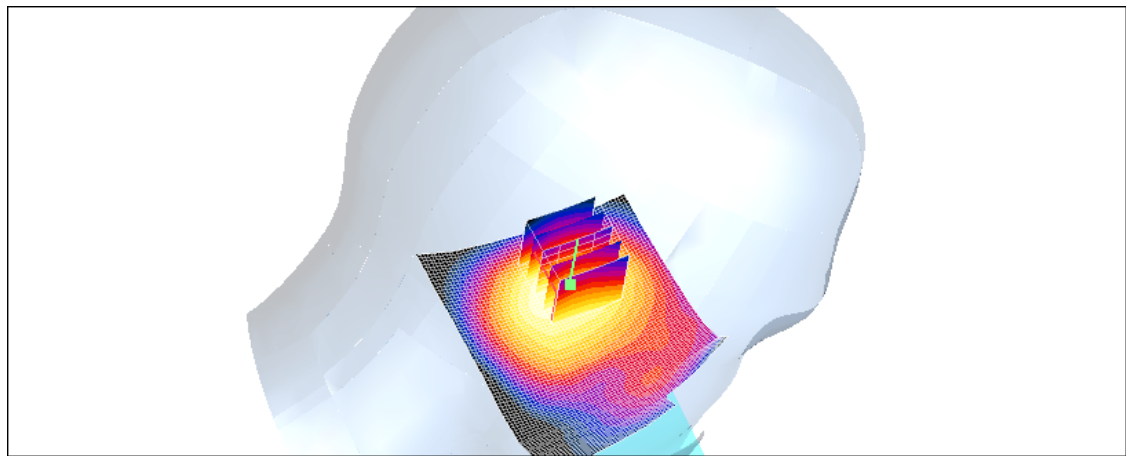
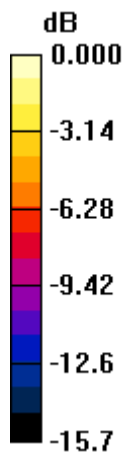
Peak SAR (extrapolated) = 0.749 W/kg

**SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.341 mW/g**


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

Maximum value of SAR (measured) = 0.558 mW/g

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0 dB = 0.558mW/g

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<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/29/2010 3:51:40 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_CDMA1700\\_low\\_chan\\_amb\\_tem\\_23.0\\_Liq\\_Tem\\_21.1C\\_da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: CDMA AWS 1700; Frequency: 1711.25 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1711.25$  MHz;  $\sigma = 1.28$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

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

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

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

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

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

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


Reference Value = 9.77 V/m; Power Drift = -0.152 dB

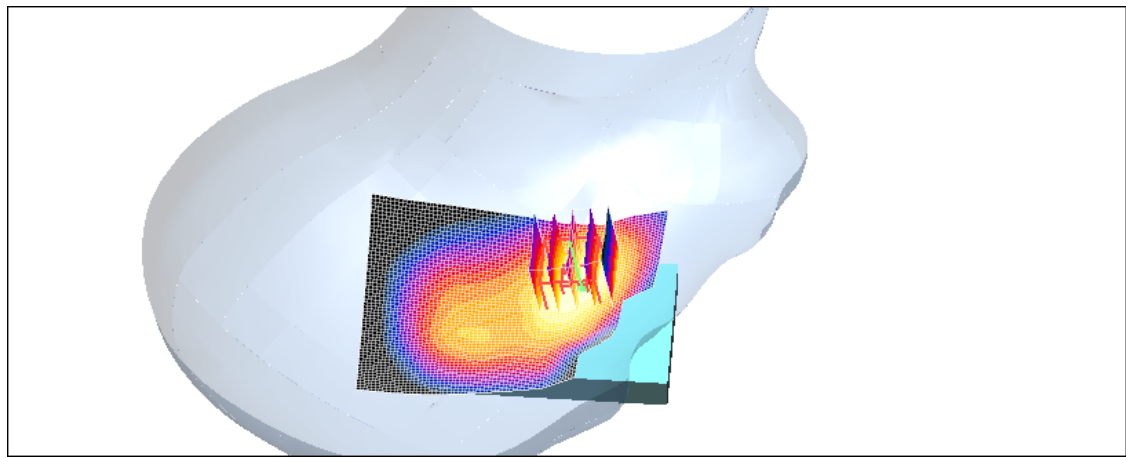
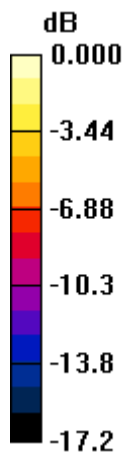
Peak SAR (extrapolated) = 1.33 W/kg

**SAR(1 g) = 0.903 mW/g; SAR(10 g) = 0.555 mW/g**


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

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

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0 dB = 0.966mW/g

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<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/29/2010 3:34:00 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_CDMA1700\\_mid\\_chan\\_amb\\_tem\\_23.1\\_Liq\\_Tem\\_21.2C\\_.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.3$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.35 mW/g

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

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


Reference Value = 11.2 V/m; Power Drift = -0.258 dB

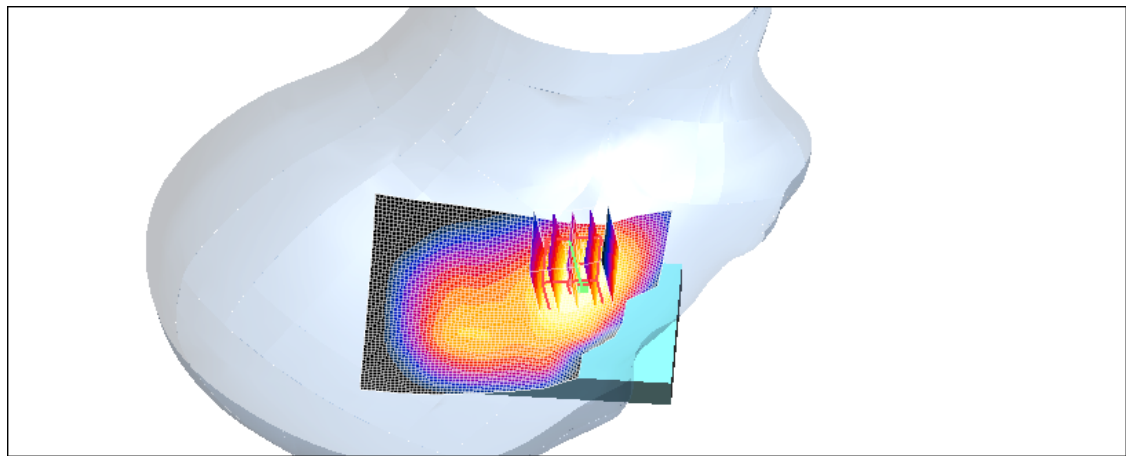
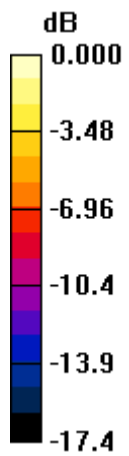
Peak SAR (extrapolated) = 1.70 W/kg

**SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.702 mW/g**


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

Maximum value of SAR (measured) = 1.27 mW/g

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		IC ID: <b>2503A-RCZ30CW</b>	



0 dB = 1.27mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/29/2010 4:07:30 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_CDMA1700\\_high\\_chan\\_amb\\_tem\\_23.0\\_Liq\\_Tem\\_21.0C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1753.75$  MHz;  $\sigma = 1.33$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

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

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

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

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

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

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

Reference Value = 9.42 V/m; Power Drift = 0.270 dB


Peak SAR (extrapolated) = 1.44 W/kg

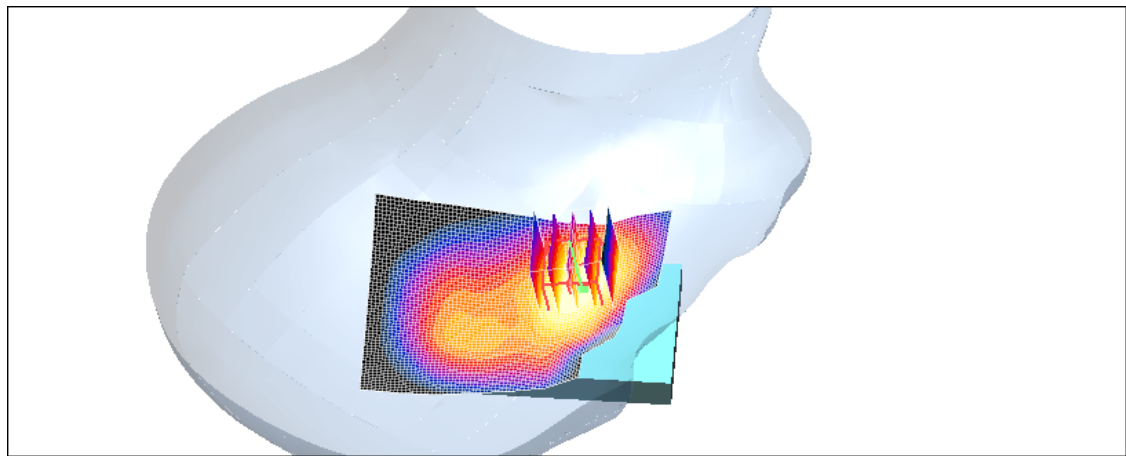
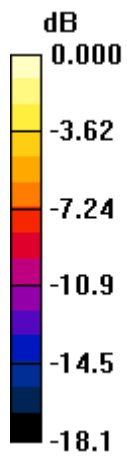
**SAR(1 g) = 0.983 mW/g; SAR(10 g) = 0.582 mW/g**

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


Maximum value of SAR (measured) = 1.09 mW/g



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		IC ID: <b>2503A-RCZ30CW</b>	



0 dB = 1.09mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/30/2010 12:00:25 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide Tilt CDMA1700 mid chan amb tem 22.2 Liq Tem 20.7C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.3$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.672 mW/g

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

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


Reference Value = 18.0 V/m; Power Drift = 0.034 dB

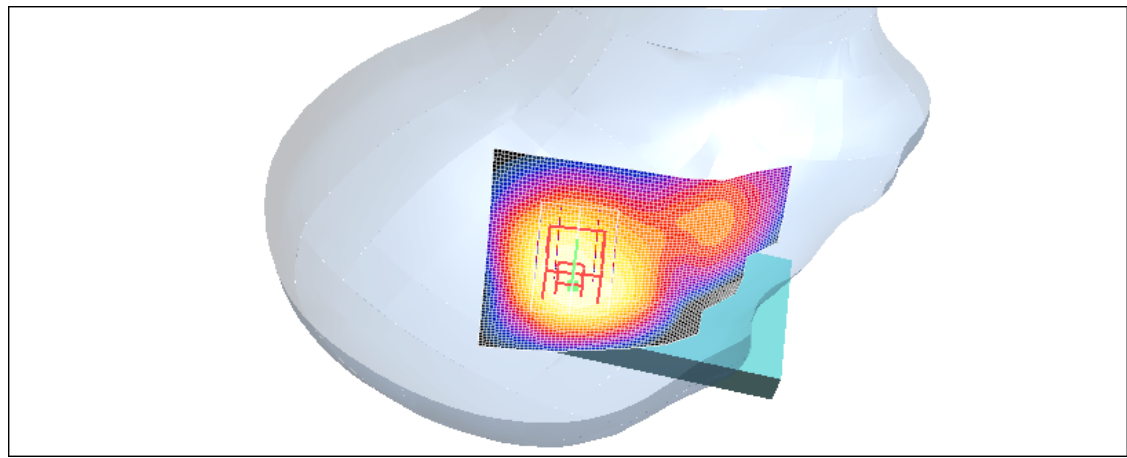
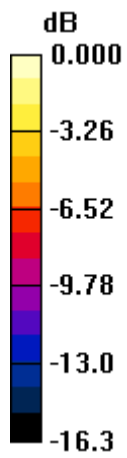
Peak SAR (extrapolated) = 0.776 W/kg

**SAR(1 g) = 0.558 mW/g; SAR(10 g) = 0.370 mW/g**


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

Maximum value of SAR (measured) = 0.599 mW/g

	Document <b>Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report</b>		Page <b>35(60)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>Mar 12 – Mar 30, 2010</b>	Test Report No <b>RTS-2068-1004-37</b>
		IC ID: <b>2503A-RCZ30CW</b>	



0 dB = 0.599mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/25/2010 2:12:27 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_CDMA1900\\_high\\_chan\\_Amb\\_Tem\\_23.3\\_Liq\\_Tem\\_22.4\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1908.5 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 38.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.16 mW/g

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

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


Reference Value = 14.2 V/m; Power Drift = 0.015 dB

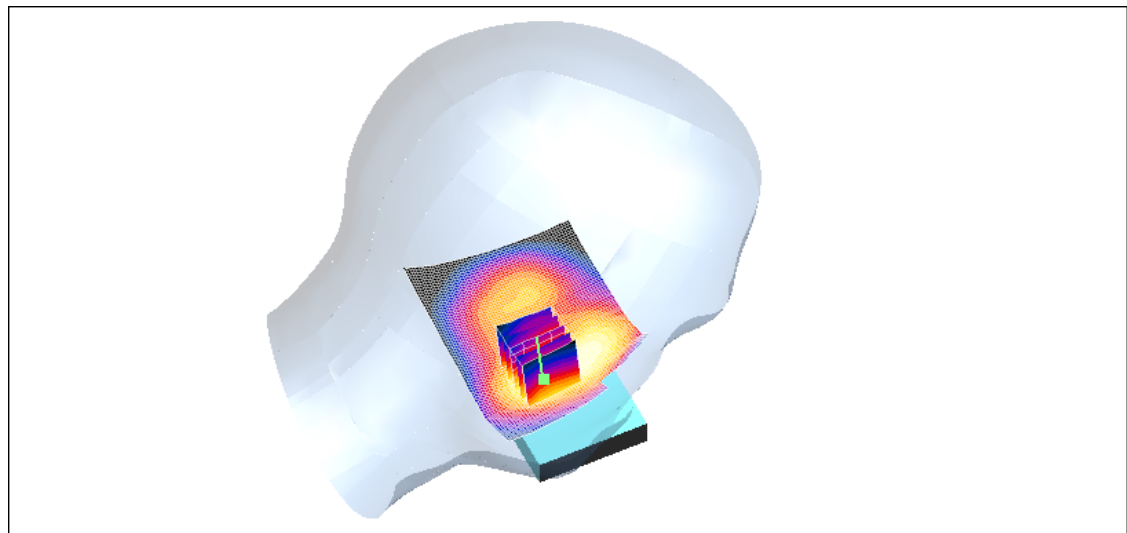
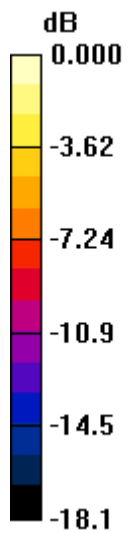
Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.974 mW/g; SAR(10 g) = 0.577 mW/g**


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

Maximum value of SAR (measured) = 1.05 mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Mar 12 – Mar 30, 2010</b>	Test Report No <b>RTS-2068-1004-37</b>
		IC ID: <b>2503A-RCZ30CW</b>	



0 dB = 1.05mW/g

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	<b>Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report</b>			<b>38(60)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/25/2010 1:56:28 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_Tilt\\_CDMA1900\\_high\\_chan\\_Amb\\_Tem\\_23.3\\_Liq\\_Tem\\_22.4\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1908.5 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 38.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.821 mW/g

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

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


Reference Value = 22.7 V/m; Power Drift = 0.097 dB

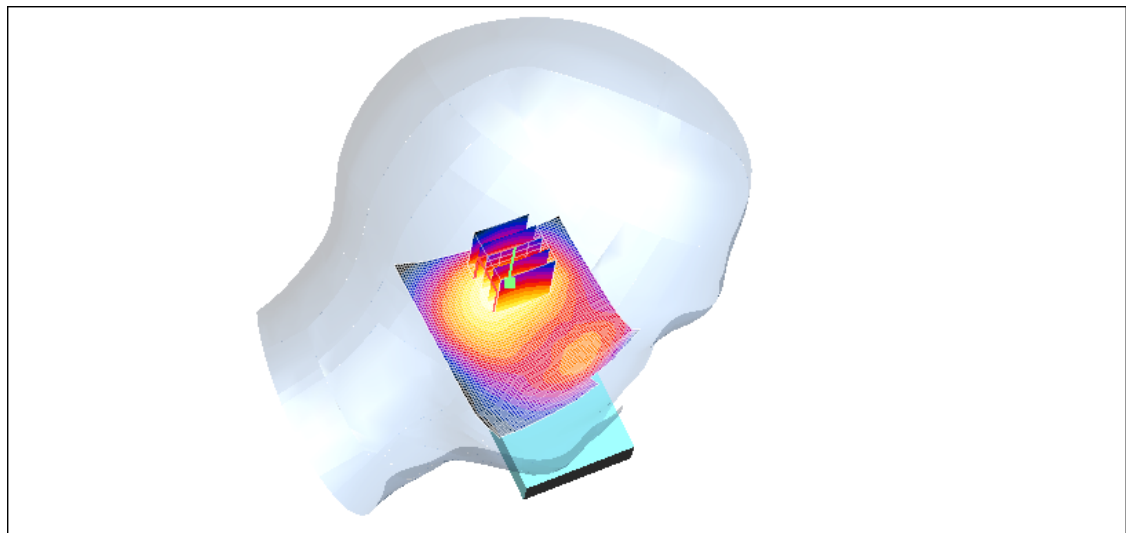
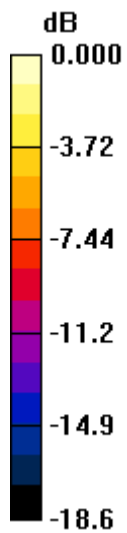
Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.729 mW/g; SAR(10 g) = 0.425 mW/g**


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

Maximum value of SAR (measured) = 0.802 mW/g

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0 dB = 0.802mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/25/2010 12:43:29 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_CDMA1900\\_low\\_chan\\_amb\\_tem\\_23.2\\_Liq\\_Tem\\_22.3C\\_.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1851.25 \text{ MHz}$ ;  $\sigma = 1.38 \text{ mho/m}$ ;  $\epsilon_r = 38.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.25 mW/g

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

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

Reference Value = 9.74 V/m; Power Drift = 0.045 dB


Peak SAR (extrapolated) = 1.65 W/kg

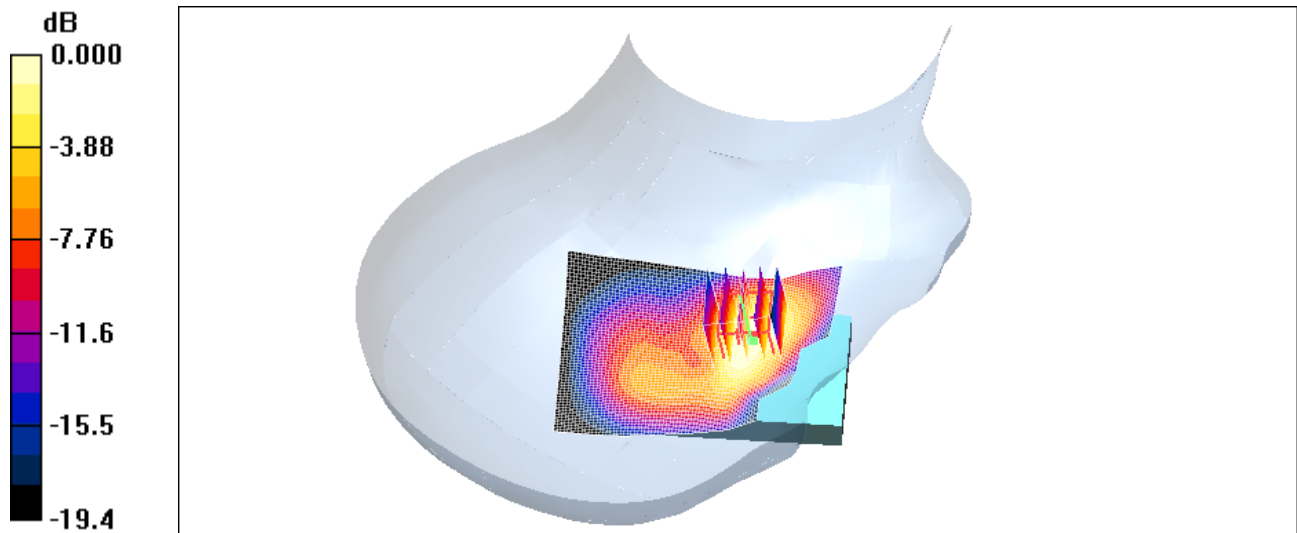
**SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.617 mW/g**

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


Maximum value of SAR (measured) = 1.17 mW/g



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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Mar 12 – Mar 30, 2010</b>	Test Report No <b>RTS-2068-1004-37</b>	FCC ID: <b>L6ARCZ30CW</b>



0 dB = 1.17mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Mar 12 – Mar 30, 2010</b>	Test Report No <b>RTS-2068-1004-37</b>	FCC ID: <b>L6ARCZ30CW</b>

Date/Time: 3/25/2010 12:15:40 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_CDMA1900\\_mid\\_chan\\_amb\\_tem\\_23.1\\_Liq\\_Tem\\_22.3C\\_da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**


Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

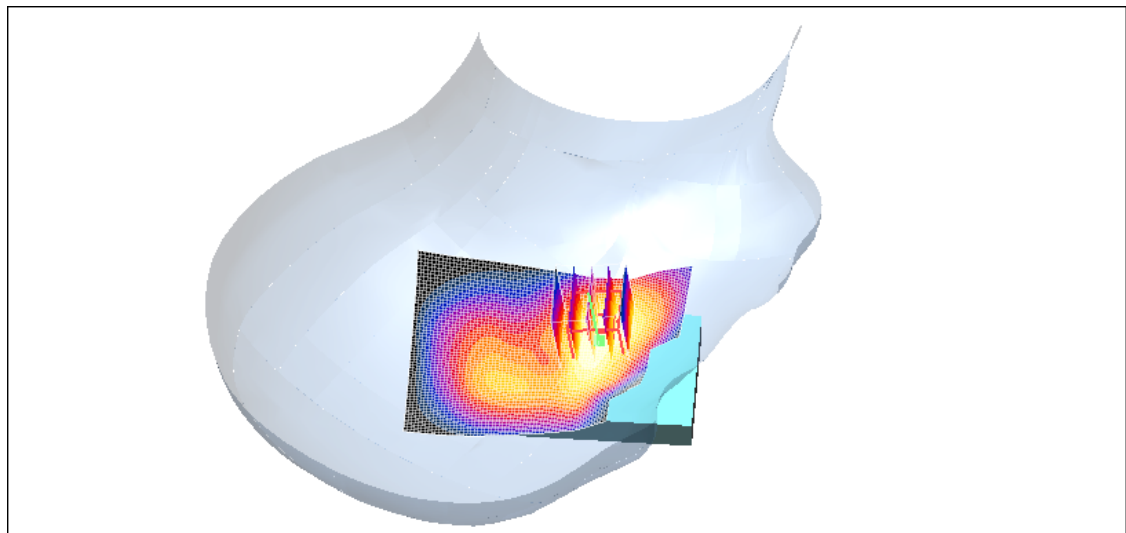
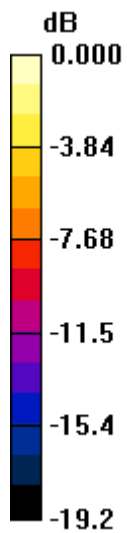
DASY4 Configuration:

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


**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.25 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 10.9 V/m; Power Drift = 0.098 dB  
Peak SAR (extrapolated) = 1.70 W/kg  
**SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.622 mW/g**  
Maximum value of SAR (measured) = 1.18 mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Mar 12 – Mar 30, 2010</b>	Test Report No <b>RTS-2068-1004-37</b>	FCC ID: <b>L6ARCZ30CW</b>



0 dB = 1.18mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/25/2010 12:59:36 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_CDMA1900\\_high\\_chan\\_amb\\_tem\\_23.2\\_Liq\\_Tem\\_22.3C\\_da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1908.5 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 38.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.38 mW/g

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

$dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 12.1 V/m; Power Drift = 0.162 dB

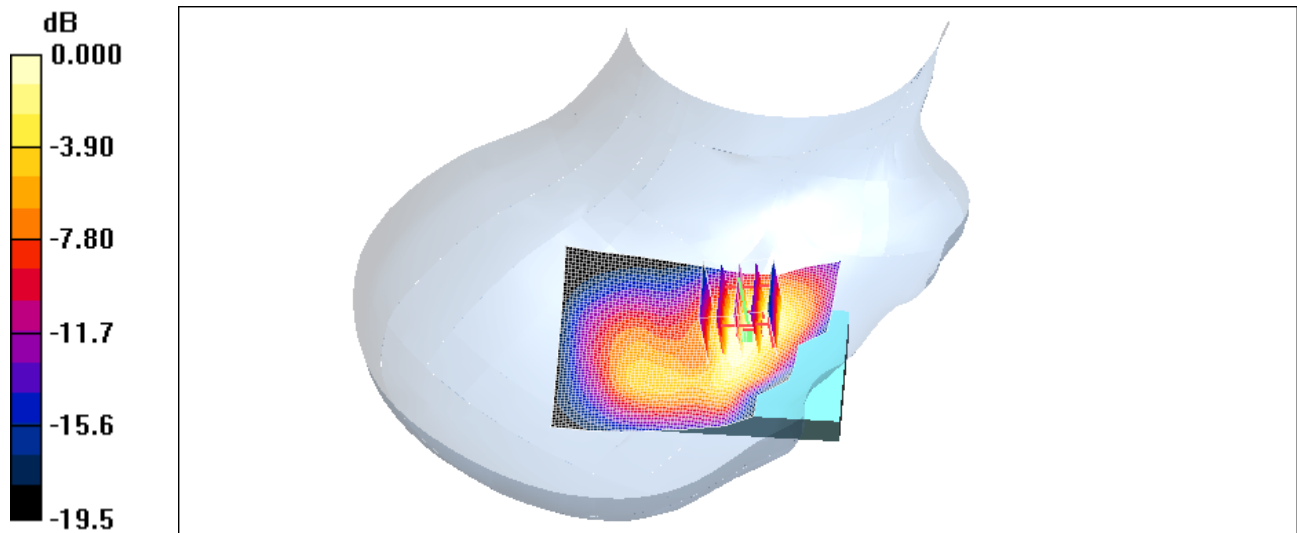
Peak SAR (extrapolated) = 1.89 W/kg

**SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.685 mW/g**


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

Maximum value of SAR (measured) = 1.32 mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Mar 12 – Mar 30, 2010</b>	Test Report No <b>RTS-2068-1004-37</b>	FCC ID: <b>L6ARCZ30CW</b>



0 dB = 1.32mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/25/2010 1:38:04 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_Tilt\\_CDMA1900\\_high\\_chan\\_amb\\_tem\\_23.2\\_Liq\\_Tem\\_22.3C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1908.5 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 38.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

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

**Tilt position -/Area Scan (61x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.759 mW/g

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

$dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 20.3 V/m; Power Drift = 0.234 dB

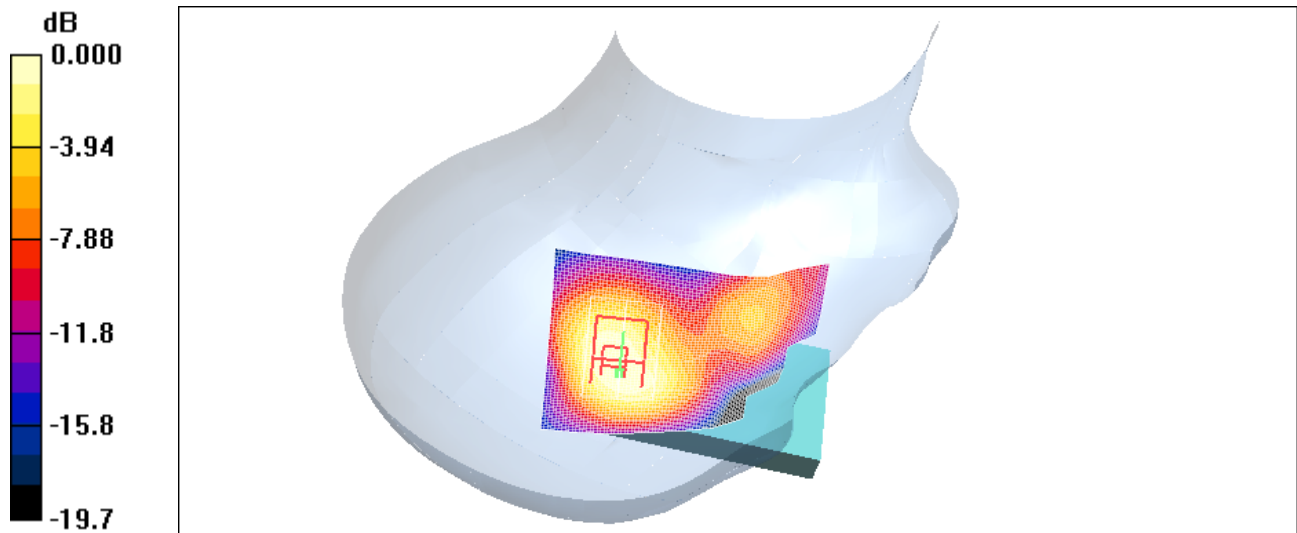
Peak SAR (extrapolated) = 0.983 W/kg

**SAR(1 g) = 0.662 mW/g; SAR(10 g) = 0.405 mW/g**


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

Maximum value of SAR (measured) = 0.701 mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Mar 12 – Mar 30, 2010</b>	Test Report No <b>RTS-2068-1004-37</b>
		IC ID: <b>2503A-RCZ30CW</b>	



0 dB = 0.701mW/g

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	<b>Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report</b>			<b>48(60)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/12/2010 11:05:58 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide\\_802.11b\\_mid\\_chan\\_Amb\\_Tem\\_22.4\\_Liq\\_Tem\\_21.3\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 37.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.259 mW/g

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

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

Reference Value = 12.5 V/m; Power Drift = -0.165 dB


Peak SAR (extrapolated) = 0.497 W/kg

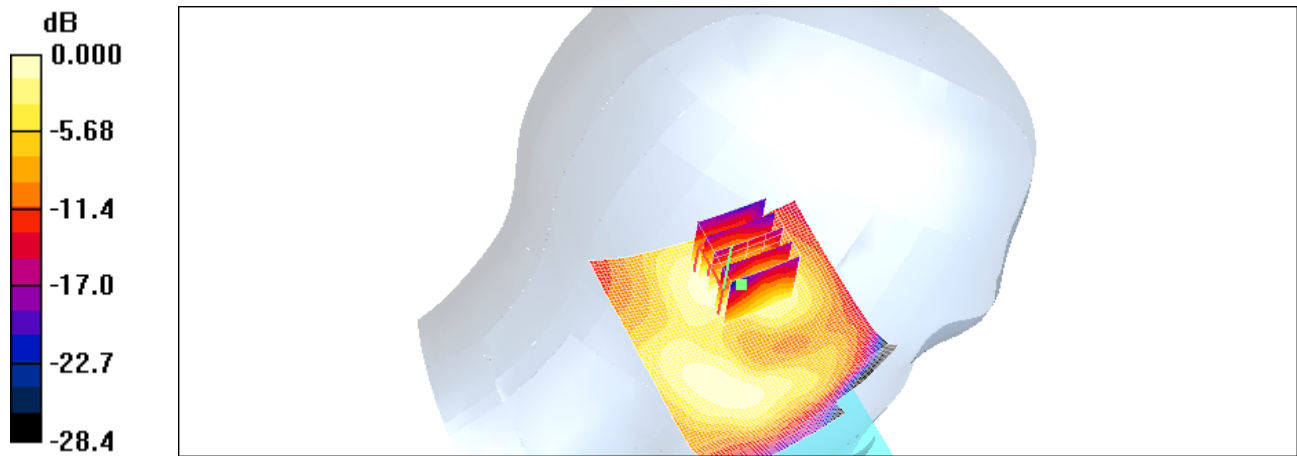
**SAR(1 g) = 0.244 mW/g; SAR(10 g) = 0.126 mW/g**

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


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



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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Mar 12 – Mar 30, 2010</b>	Test Report No <b>RTS-2068-1004-37</b>	FCC ID: <b>L6ARCZ30CW</b>



0 dB = 0.260mW/g

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	<b>Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report</b>		<b>50(60)</b>	
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/12/2010 11:21:48 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_Tilt\\_802.11b\\_mid\\_chan\\_Amb\\_Tem\\_22.2\\_Liq\\_Tem\\_21.4\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 37.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.380 mW/g

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

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


Reference Value = 15.3 V/m; Power Drift = -0.185 dB

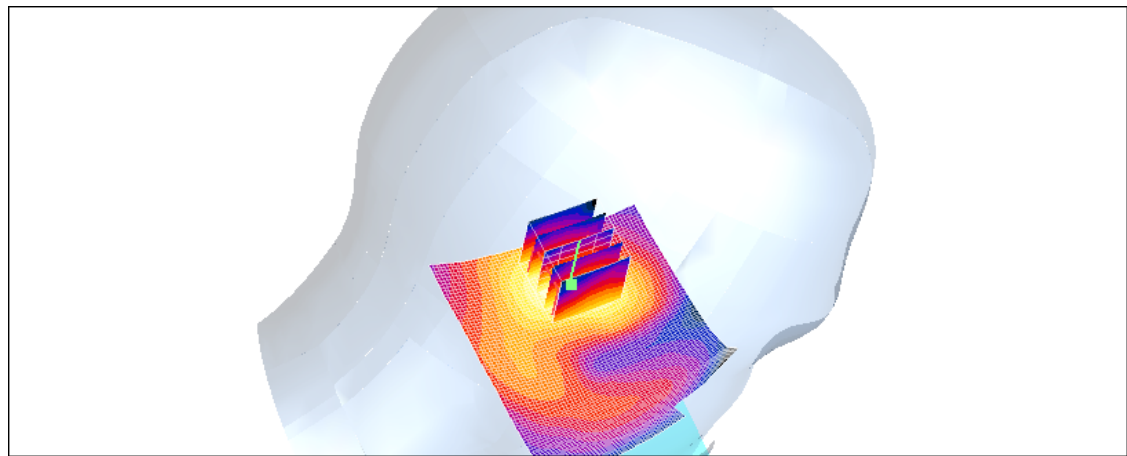
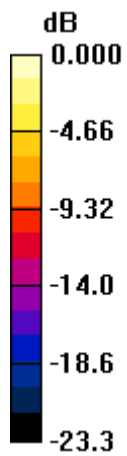
Peak SAR (extrapolated) = 0.759 W/kg

**SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.175 mW/g**


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

Maximum value of SAR (measured) = 0.392 mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Mar 12 – Mar 30, 2010</b>	Test Report No <b>RTS-2068-1004-37</b>	FCC ID: <b>L6ARCZ30CW</b>



0 dB = 0.392mW/g

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	<b>Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report</b>			<b>52(60)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/12/2010 9:24:13 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide\\_802.11b\\_low\\_chan\\_amb\\_tem\\_22.7\\_Liq\\_Tem\\_21.6C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.84$  mho/m;  $\epsilon_r = 37.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.349 mW/g

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

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


Reference Value = 10.2 V/m; Power Drift = -0.256 dB

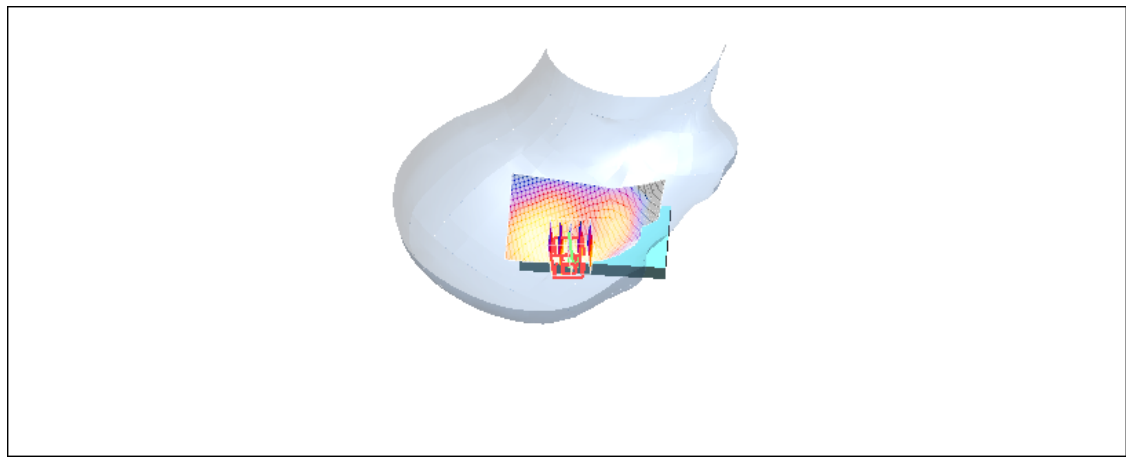
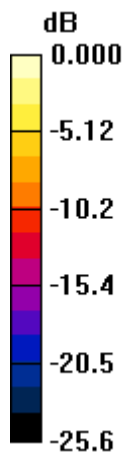
Peak SAR (extrapolated) = 0.812 W/kg

**SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.154 mW/g**


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

Maximum value of SAR (measured) = 0.361 mW/g

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0 dB = 0.361mW/g

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<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/12/2010 10:44:28 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide\\_802.11b\\_mid\\_chan\\_amb\\_tem\\_22.6\\_Liq\\_Tem\\_21.5C\\_.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 37.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

Maximum value of SAR (interpolated) = 0.385 mW/g


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

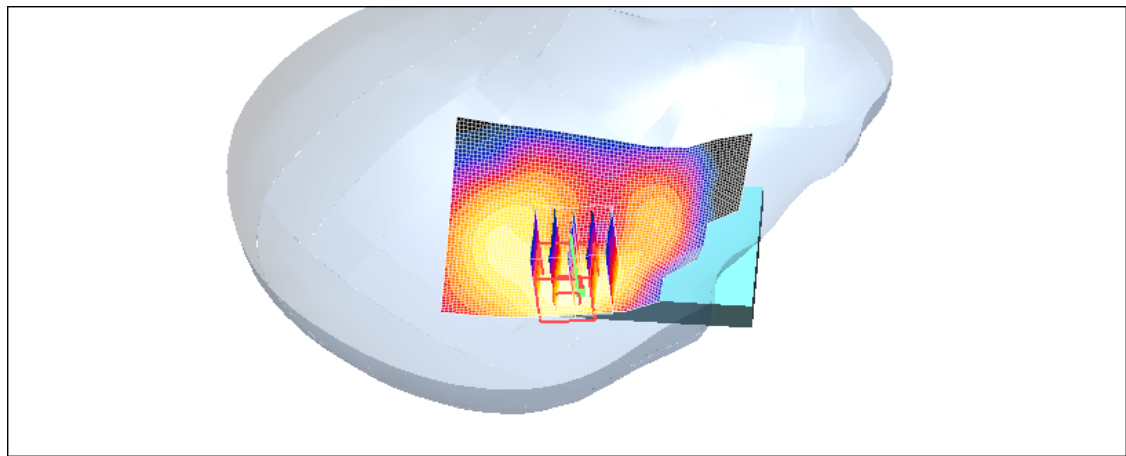
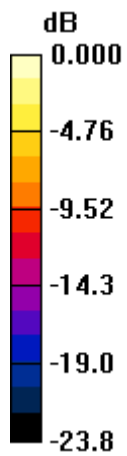
Reference Value = 11.0 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.943 W/kg


**SAR(1 g) = 0.390 mW/g; SAR(10 g) = 0.179 mW/g**

Maximum value of SAR (measured) = 0.407 mW/g

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0 dB = 0.407mW/g

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<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/12/2010 10:08:35 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide\\_802.11b\\_high\\_chan\\_amb\\_tem\\_22.6\\_Liq\\_Tem\\_21.4C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**  
**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 37.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

Maximum value of SAR (interpolated) = 0.327 mW/g

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

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


Reference Value = 10.2 V/m; Power Drift = -0.068 dB

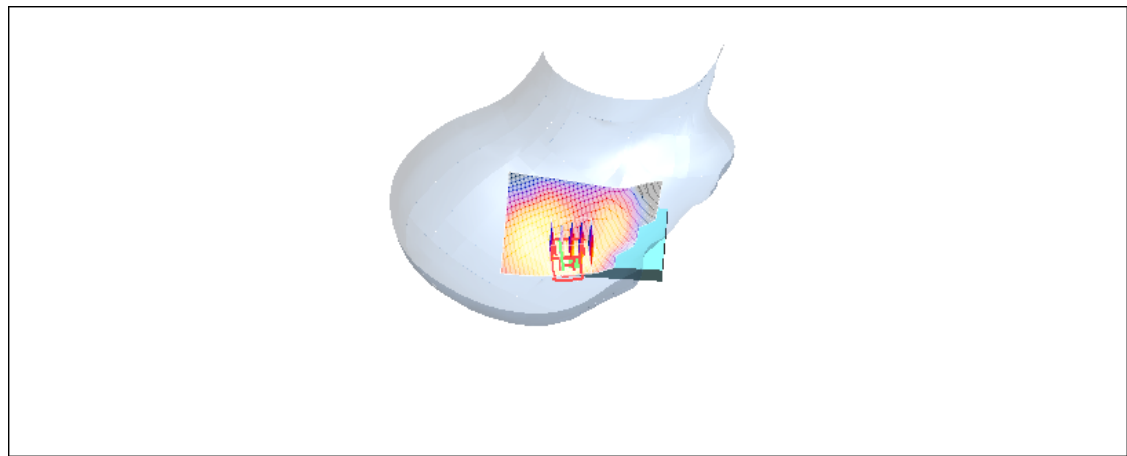
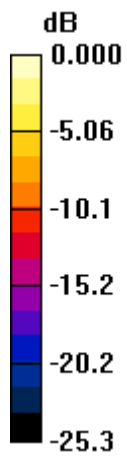
Peak SAR (extrapolated) = 0.801 W/kg

**SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.155 mW/g**


Maximum value of SAR (measured) = 0.355 mW/g



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0 dB = 0.355mW/g

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<b>Andrew Becker</b>	<b>Mar 12 – Mar 30, 2010</b>	<b>RTS-2068-1004-37</b>	<b>L6ARCZ30CW</b>	<b>2503A-RCZ30CW</b>

Date/Time: 3/12/2010 10:26:32 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_Tilt\\_802.11b\\_mid\\_chan\\_amb\\_tem\\_22.4\\_Liq\\_Tem\\_21.5C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 37.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.389 mW/g

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

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


Reference Value = 14.4 V/m; Power Drift = -0.083 dB

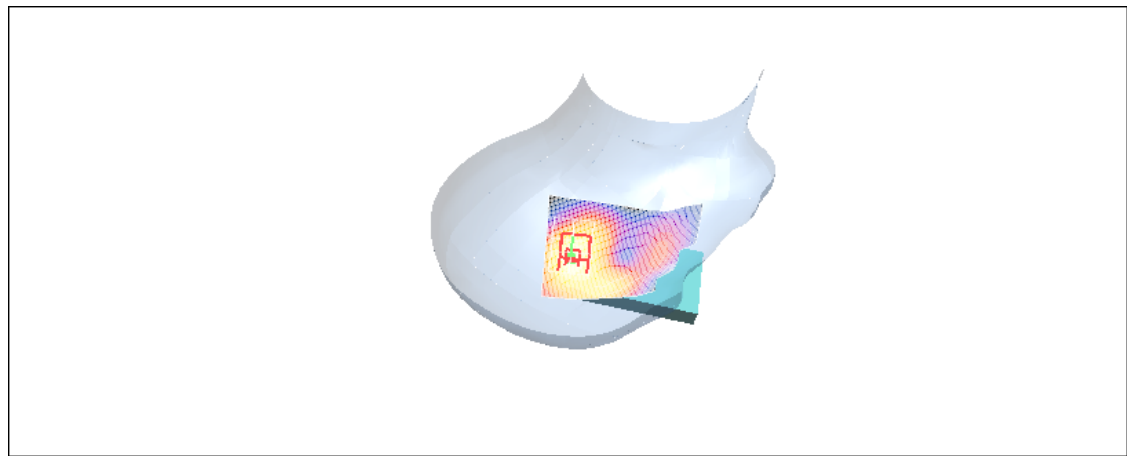
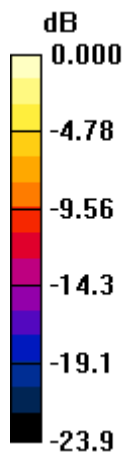
Peak SAR (extrapolated) = 0.773 W/kg

**SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.182 mW/g**


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

Maximum value of SAR (measured) = 0.411 mW/g

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0 dB = 0.411mW/g

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

