

	Document Appendix B for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 1(12)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW

APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

	Document Appendix B for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 2(12)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW

Date/Time: 3/16/2010 12:39:13 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_EDGE850_high_chan_Amb_Tem_22.8_Liq_Tem_21.3_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21F2589E
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(6.08, 6.08, 6.08); 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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.22 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 = 13.4 V/m ; Power Drift = -0.150 dB

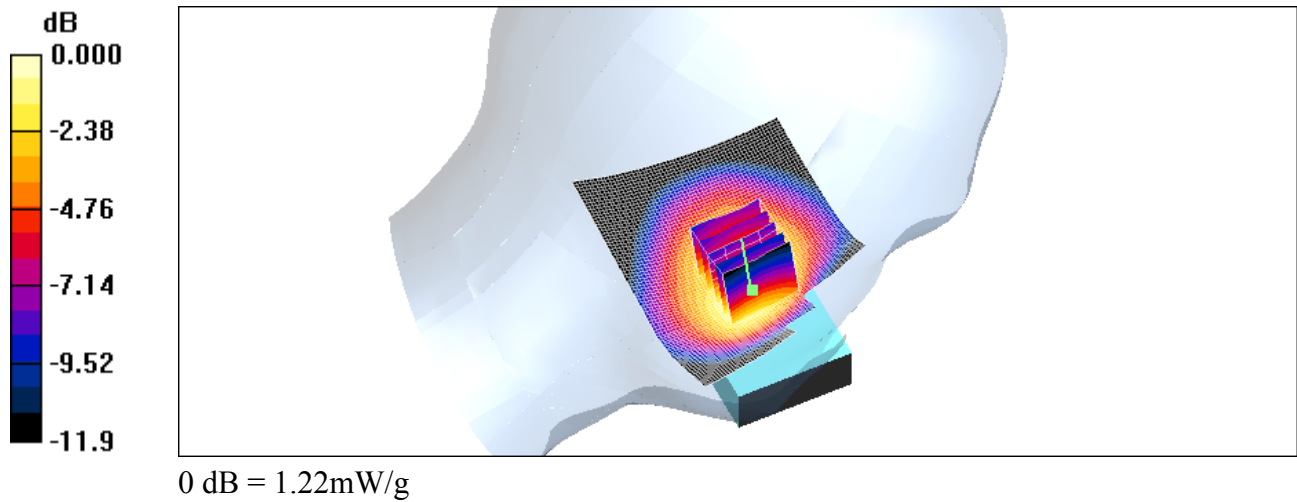
Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 1.12 mW/g ; SAR(10 g) = 0.767 mW/g

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

Maximum value of SAR (measured) = 1.22 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 3(12)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW



	Document Appendix B for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 4(12)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW

Date/Time: 3/16/2010 11:38:34 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide UMTS Band IV mid chan Amb Tem 22.6 Liq Tem 21.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21F2589E
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.6 \text{ MHz}$; $\sigma = 1.34 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.17, 5.17, 5.17); 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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.12 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 = 7.69 V/m ; Power Drift = -0.105 dB

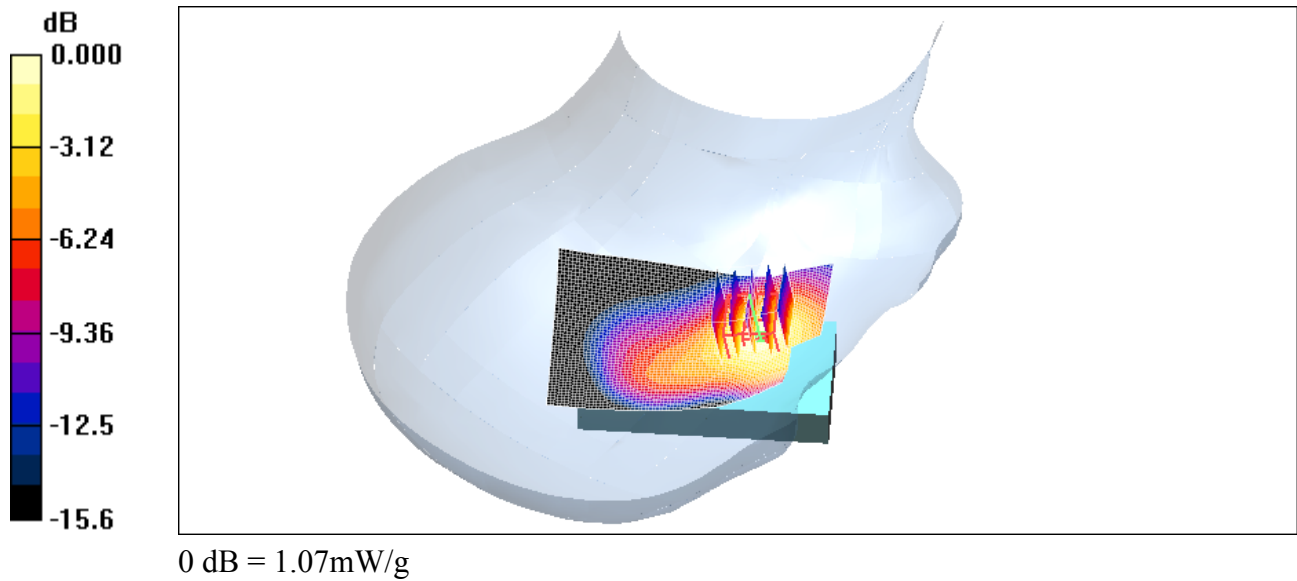
Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.969 mW/g ; SAR(10 g) = 0.581 mW/g

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

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

	Document Appendix B for the BlackBerry® Smartphone Model RCX72UW SAR Report			Page 5(12)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW	



	Document Appendix B for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 6(12)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW

Date/Time: 3/16/2010 11:15:50 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_EDGE1900_mid_chan_Amb_Tem_22.2_Liq_Tem_21.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21F2589E
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

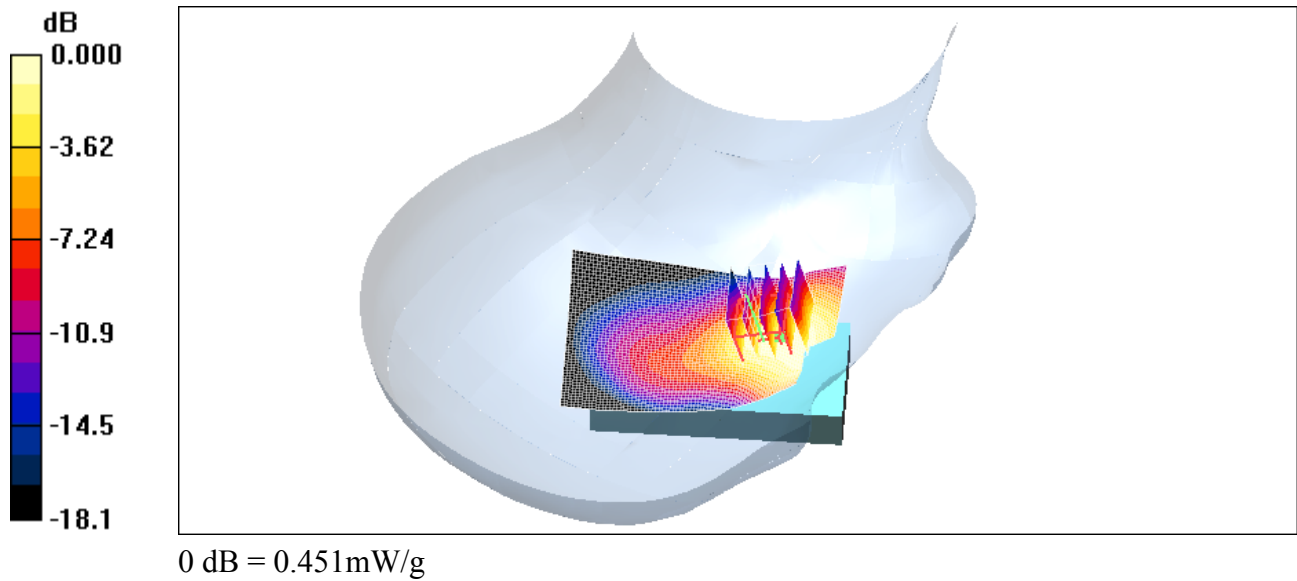
- Probe: ET3DV6 - SN1644; ConvF(5.17, 5.17, 5.17); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.500 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 = 5.27 V/m; Power Drift = 0.035 dB
Peak SAR (extrapolated) = 0.638 W/kg
SAR(1 g) = 0.420 mW/g; SAR(10 g) = 0.241 mW/g

Maximum value of SAR (measured) = 0.451 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 7(12)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW



	Document Appendix B for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 8(12)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW

Date/Time: 3/15/2010 12:29:55 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide_802.11b_low_chan_Amb_Tem_22.8_Liq_Tem_21.0_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21F2589E
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.83 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.403 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 = 11.9 V/m ; Power Drift = -0.166 dB

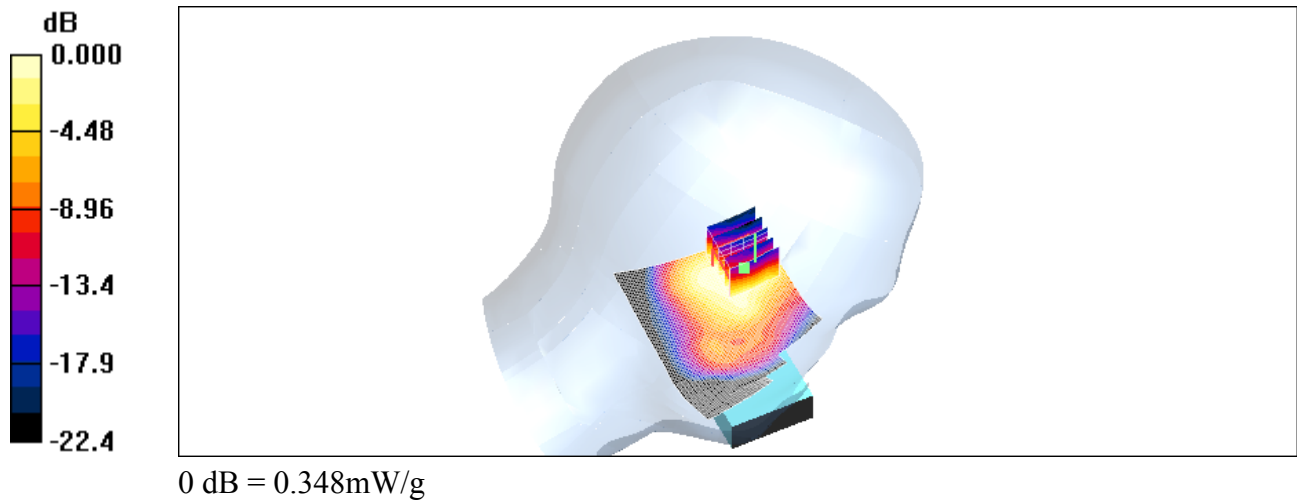
Peak SAR (extrapolated) = 0.802 W/kg

SAR(1 g) = 0.306 mW/g ; SAR(10 g) = 0.155 mW/g

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

Maximum value of SAR (measured) = 0.348 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 9(12)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW



	Document Appendix B for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 10(12)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW

Date/Time: 3/15/2010 12:54:22 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide_802.11b_low_chan_Amb_Tem_22.5_Liq_Tem_21.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21F2589E
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.83 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$
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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.312 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 = 13.5 V/m ; Power Drift = -0.182 dB

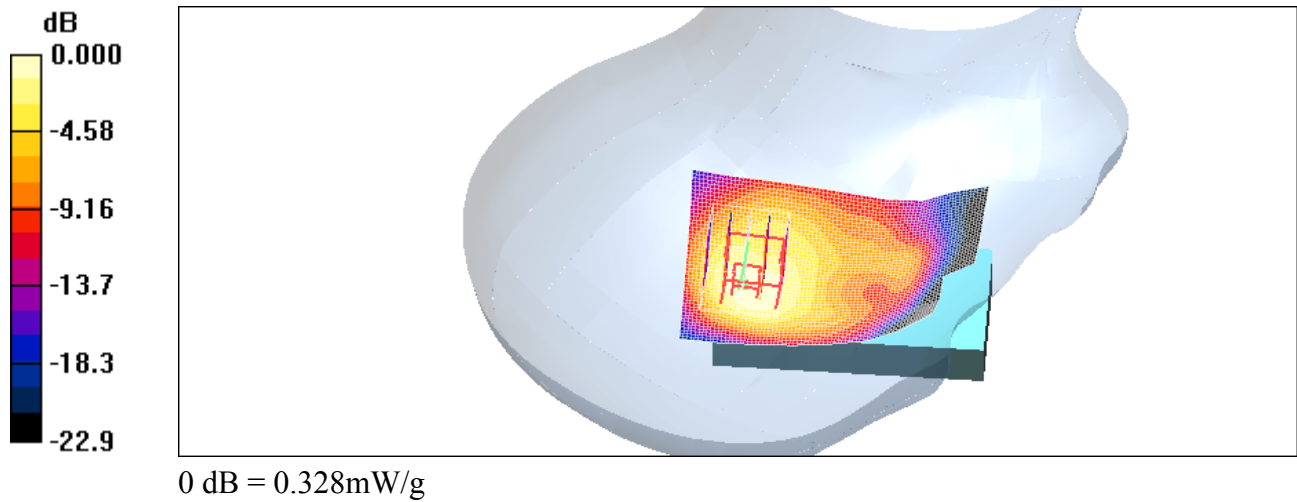
Peak SAR (extrapolated) = 0.558 W/kg

SAR(1 g) = 0.297 mW/g ; SAR(10 g) = 0.155 mW/g

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

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

	Document Appendix B for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 11(12)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW



	Document Appendix B for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 12(12)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW

Z axis plot for the worst case head configuration:

