

	Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 1(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 2(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 03/09/2009 3:23:13 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Back_CDMA800_low_chan_amb_temp_23.0C_liq_temp_22.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.924 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.99, 5.99, 5.99); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.512 mW/g

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

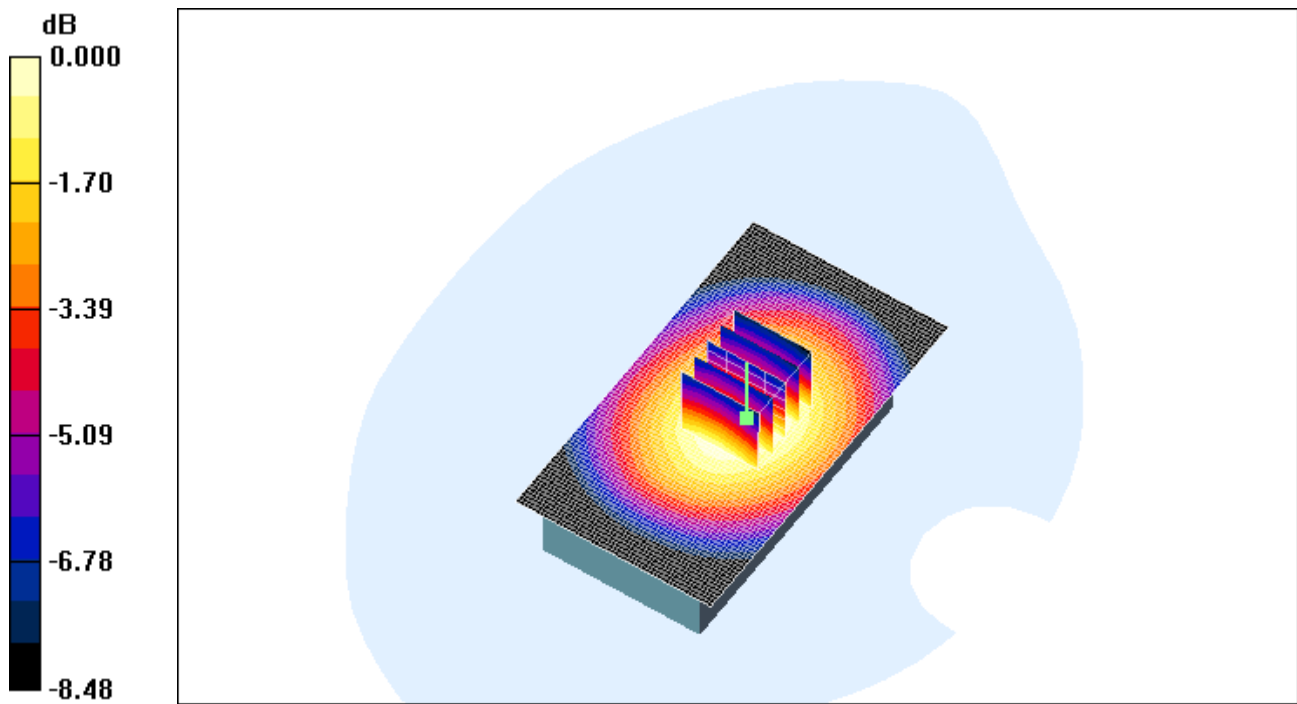
Reference Value = 24.9 V/m; Power Drift = -0.256 dB

Peak SAR (extrapolated) = 0.576 W/kg

SAR(1 g) = 0.471 mW/g; SAR(10 g) = 0.353 mW/g

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

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 3(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.497mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 4(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 03/09/2009 3:38:46 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Back_CDMA800_mid_chan_amb_temp_23.1C_liq_temp_21.9C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

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

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.937 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.99, 5.99, 5.99); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.336 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 = 19.6 V/m ; Power Drift = -0.080 dB

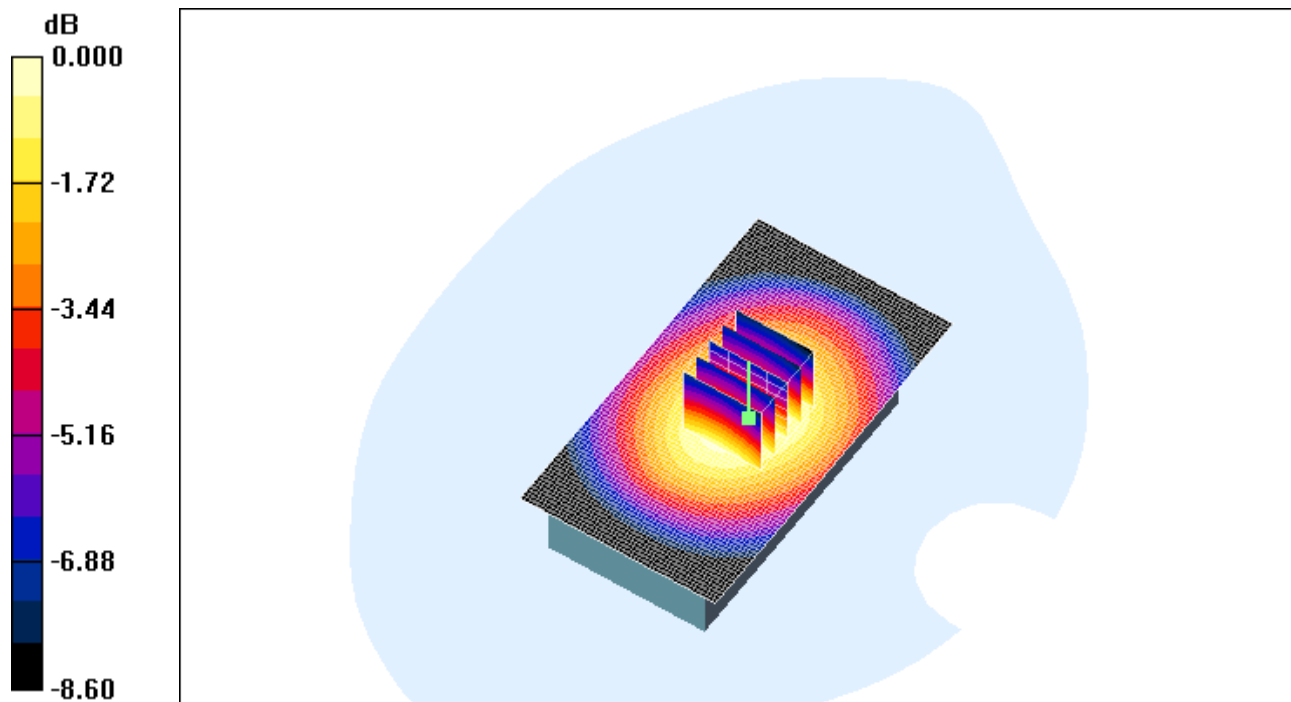
Peak SAR (extrapolated) = 0.390 W/kg

SAR(1 g) = 0.317 mW/g ; SAR(10 g) = 0.235 mW/g

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

Maximum value of SAR (measured) = 0.336 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 5(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.336mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 6(70)
Author Data Andrew Becker		Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 03/09/2009 3:53:21 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Back_CDMA800_high_chan_amb_temp_23.3C_liq_temp_22.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

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

Medium parameters used (interpolated): $f = 848.52 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.99, 5.99, 5.99); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.355 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 = 20.0 V/m ; Power Drift = -0.010 dB

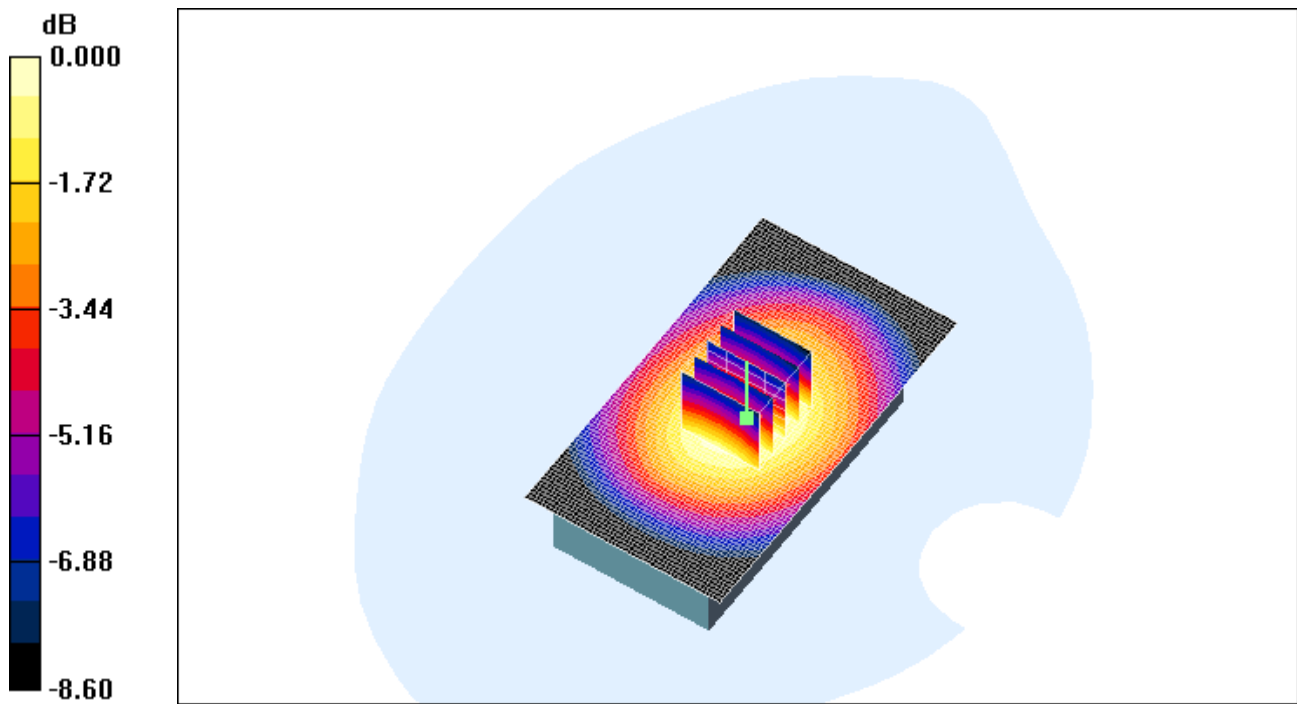
Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.331 mW/g ; SAR(10 g) = 0.245 mW/g

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

Maximum value of SAR (measured) = 0.351 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 7(70)
Author Data Andrew Becker		Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.351mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 8(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 03/09/2009 4:34:07 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_CDMA800_low_chan_amb_temp_23.5C_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.924 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.99, 5.99, 5.99); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.602 mW/g

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

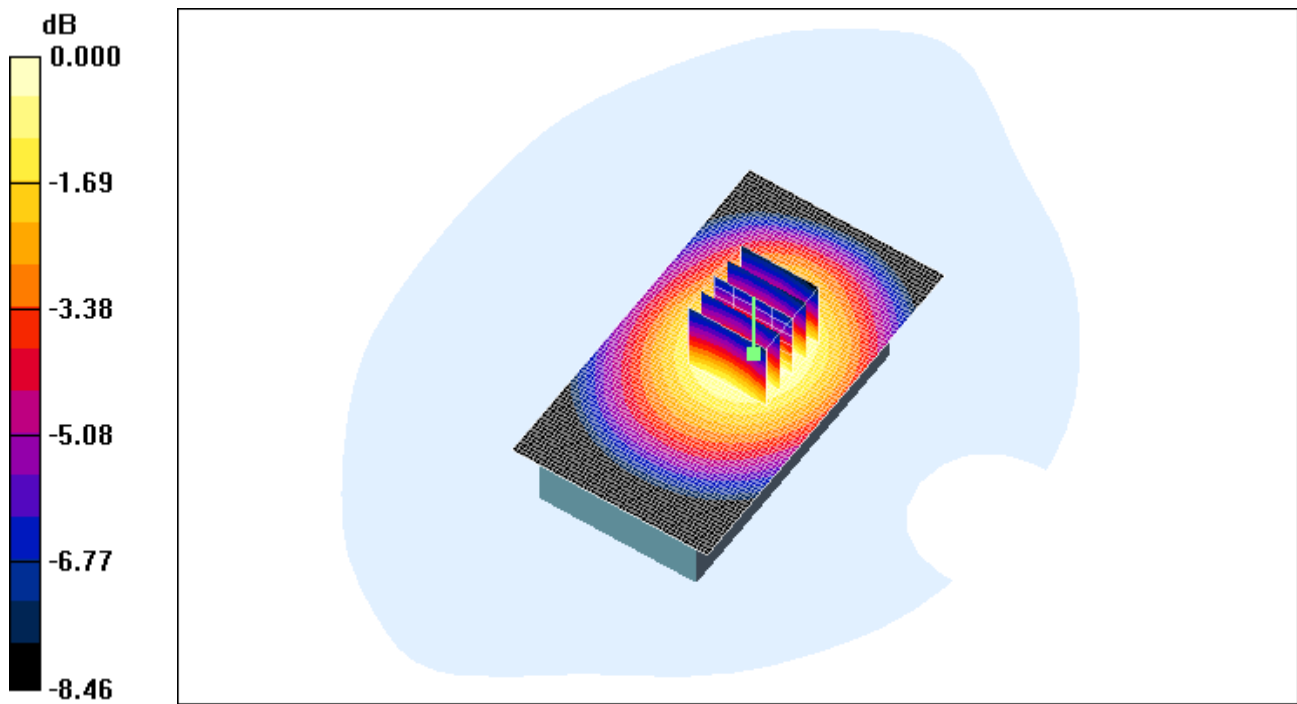
Reference Value = 25.8 V/m; Power Drift = -0.203 dB

Peak SAR (extrapolated) = 0.696 W/kg

SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.417 mW/g

Maximum value of SAR (measured) = 0.601 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 9(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.601mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 10(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 03/09/2009 4:50:36 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_CDMA800_mid_chan_amb_temp_23.5C_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.937 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.99, 5.99, 5.99); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.387 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 = -0.173 dB

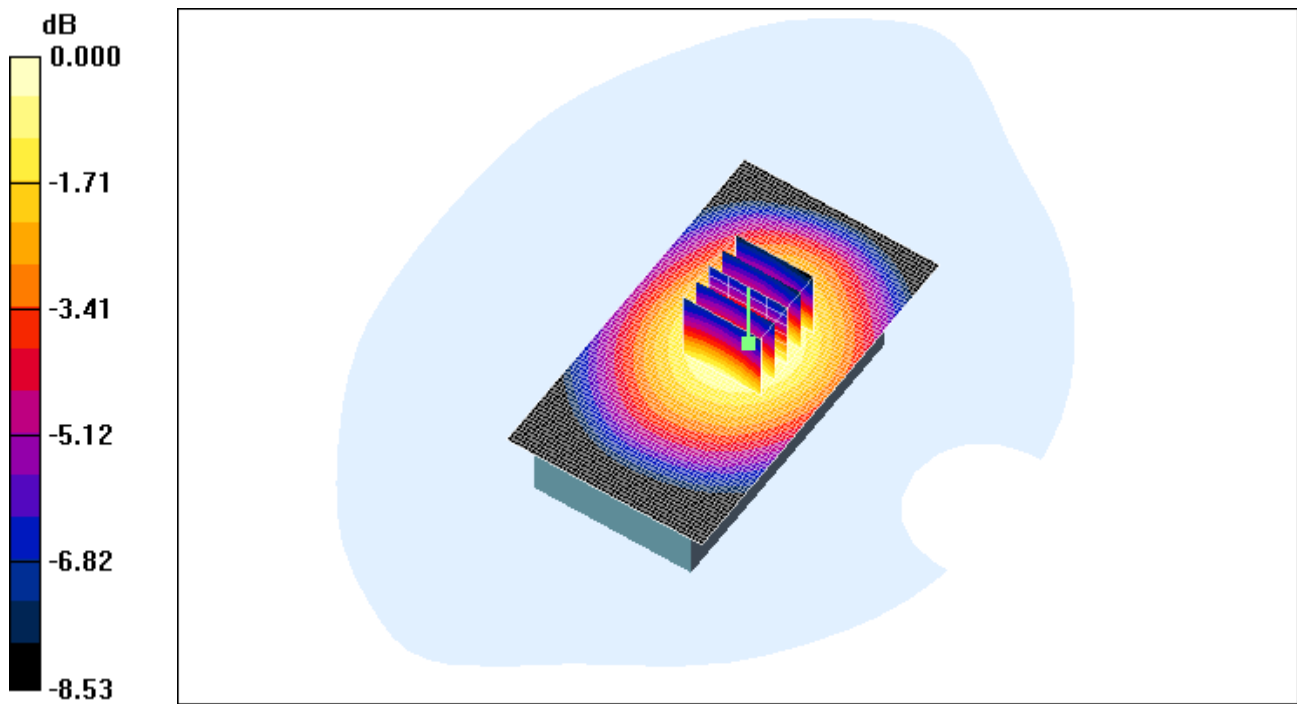
Peak SAR (extrapolated) = 0.445 W/kg

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.269 mW/g

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

Maximum value of SAR (measured) = 0.390 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 11(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.390mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 12(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 03/09/2009 5:06:12 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_CDMA800_high_chan_amb_temp_23.7C_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 848.52 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.99, 5.99, 5.99); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.391 mW/g

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

Reference Value = 20.4 V/m; Power Drift = -0.029 dB

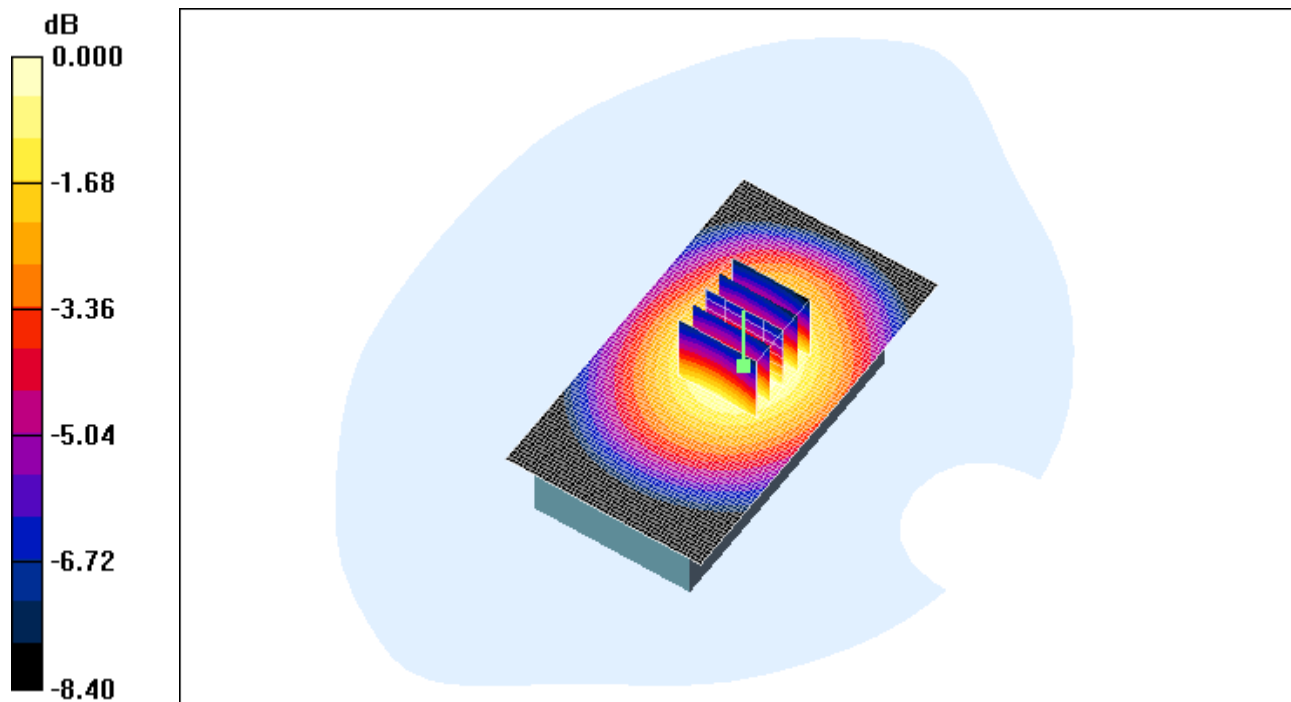
Peak SAR (extrapolated) = 0.455 W/kg

SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.273 mW/g

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

Maximum value of SAR (measured) = 0.391 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 13(70)
Author Data Andrew Becker		Dates of Test September 1 - 29, 2009		Test Report No RTS-2068-0909-43
FCC ID: L6ARCL20CW				



0 dB = 0.391mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 14(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 03/09/2009 5:33:06 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Front_CDMA800_low_chan_amb_temp_23.7C_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.924 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.99, 5.99, 5.99); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.395 mW/g

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

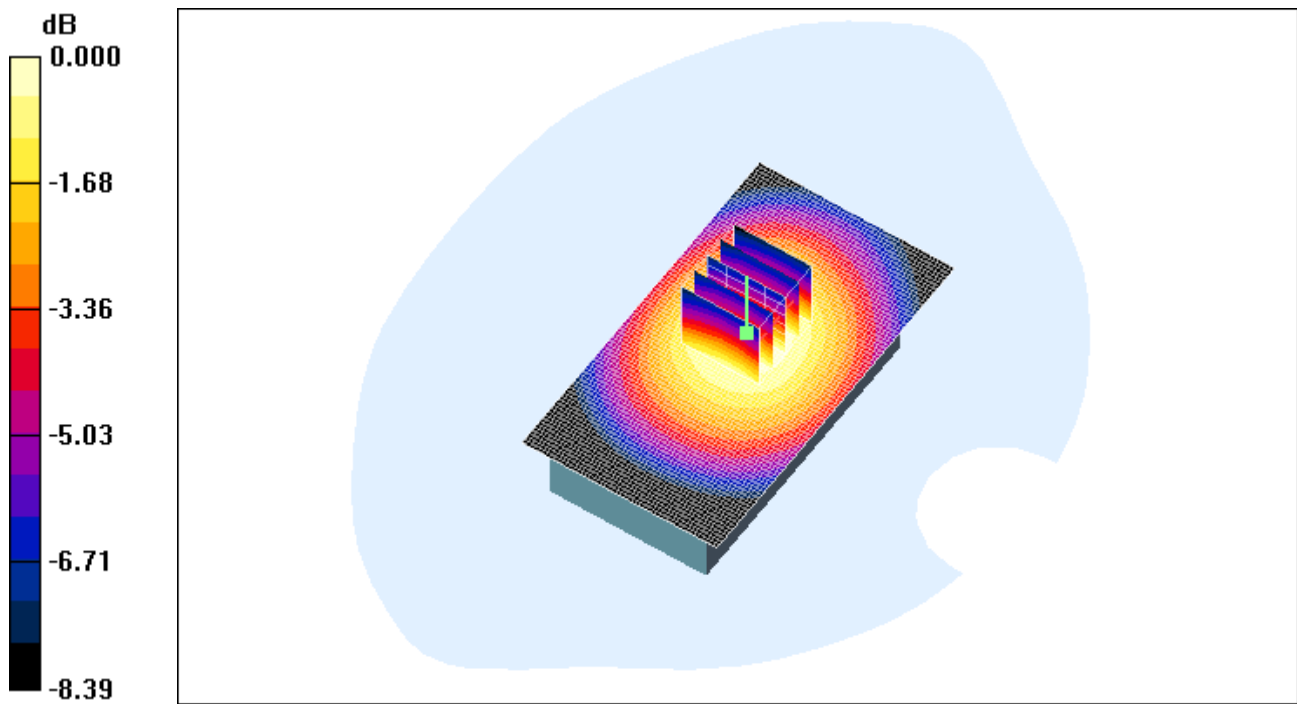
Reference Value = 21.1 V/m ; Power Drift = -0.211 dB

Peak SAR (extrapolated) = 0.452 W/kg

SAR(1 g) = 0.367 mW/g ; SAR(10 g) = 0.275 mW/g

Maximum value of SAR (measured) = 0.390 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 15(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.390mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 16(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 03/09/2009 5:50:07 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_Headset1_CDMA800_low_chan_amb_temp_23.8C_liq_temp_22.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.924 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.99, 5.99, 5.99); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

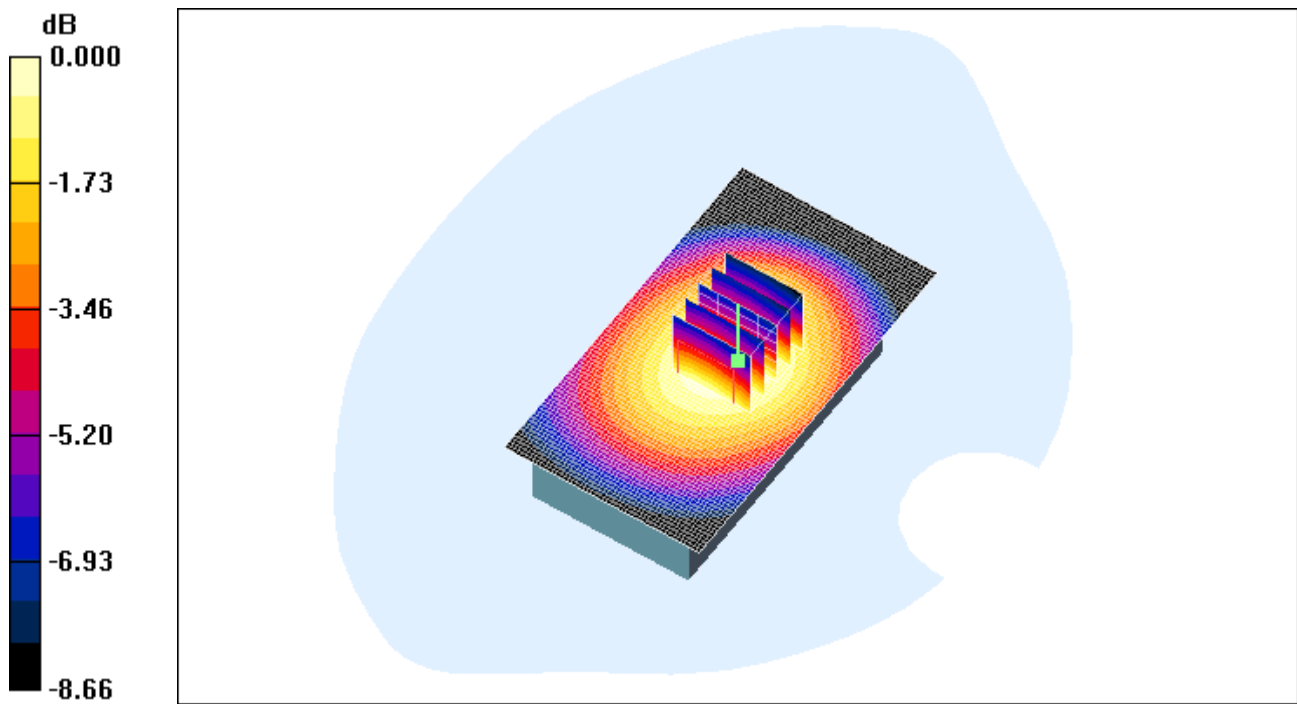
Reference Value = 24.7 V/m ; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 0.612 W/kg

SAR(1 g) = 0.490 mW/g ; SAR(10 g) = 0.365 mW/g

Maximum value of SAR (measured) = 0.520 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 17(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.520mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 18(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 03/09/2009 6:11:23 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_Headset2_CDMA800_low_chan_amb_temp_22.8C_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.924 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.99, 5.99, 5.99); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.512 mW/g

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

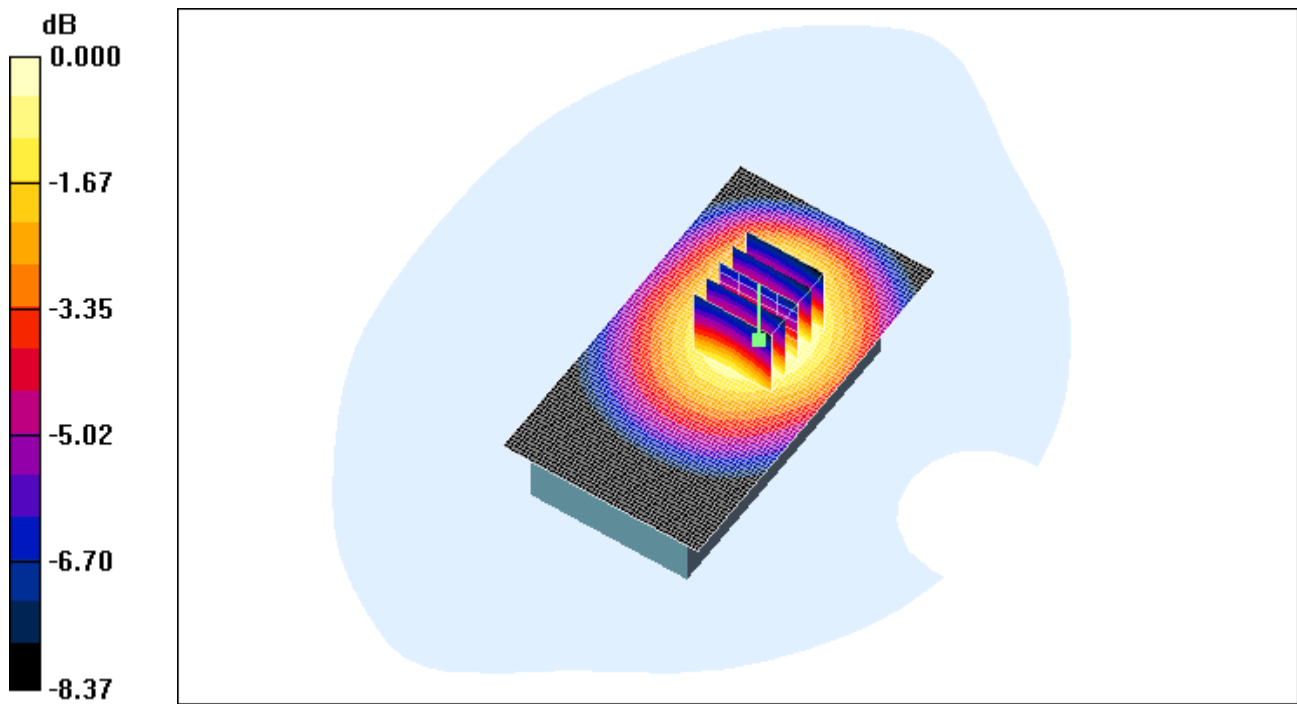
Reference Value = 22.1 V/m ; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 0.591 W/kg

SAR(1 g) = 0.482 mW/g ; SAR(10 g) = 0.356 mW/g

Maximum value of SAR (measured) = 0.509 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 19(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.509mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 20(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 03/09/2009 6:27:47 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_Headset3_CDMA800_low_chan_amb_temp_23.0C_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.924 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.99, 5.99, 5.99); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.454 mW/g

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

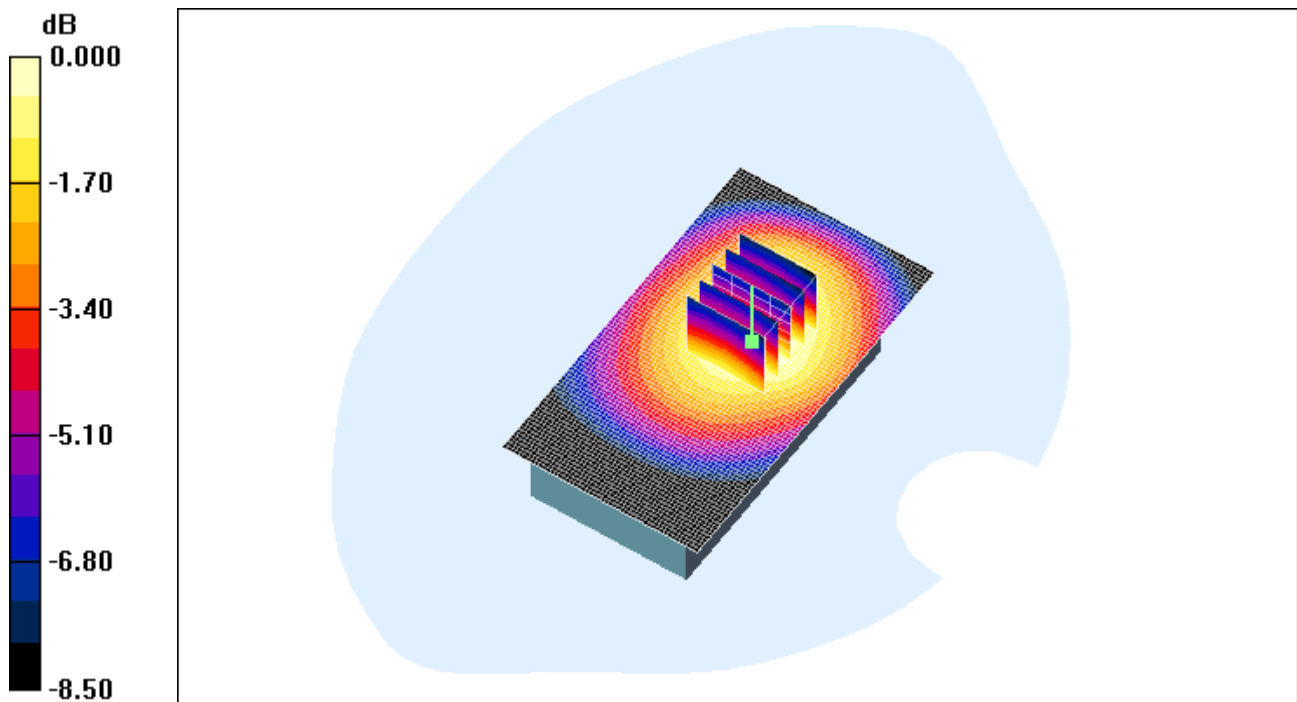
Reference Value = 21.3 V/m ; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.558 W/kg

SAR(1 g) = 0.438 mW/g ; SAR(10 g) = 0.321 mW/g

Maximum value of SAR (measured) = 0.463 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 21(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.463mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 22(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 03/09/2009 6:45:53 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[25mm Spacer_CDMA800_low_chan_amb_temp_23.0C_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.924 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.99, 5.99, 5.99); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

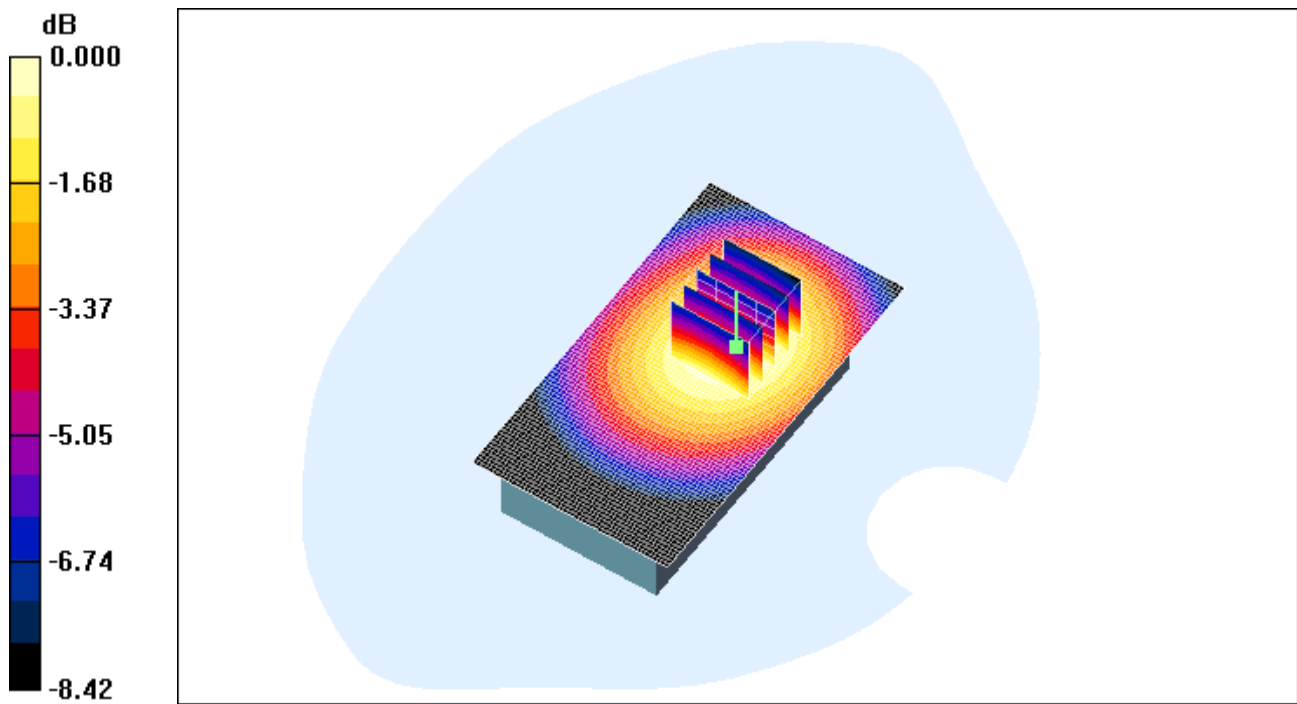
Reference Value = 24.0 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.683 W/kg

SAR(1 g) = 0.550 mW/g; SAR(10 g) = 0.409 mW/g

Maximum value of SAR (measured) = 0.583 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 23(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.583mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 24(70)
Author Data Andrew Becker		Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 25/09/2009 2:30:42 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_CDMA800_low_chan_amb_temp_23.5C_liq_temp_22.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30EC2ACE

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.917 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.99, 5.99, 5.99); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.602 mW/g

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

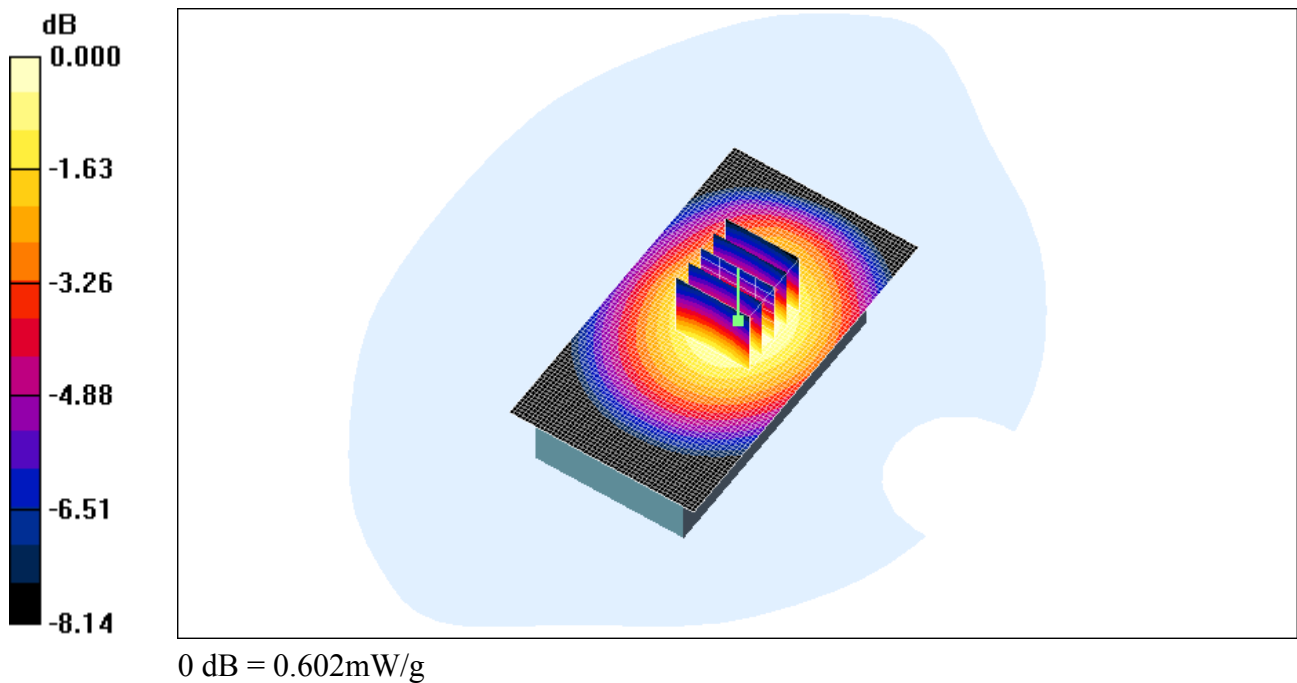
Reference Value = 7.21 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 0.700 W/kg

SAR(1 g) = 0.567 mW/g; SAR(10 g) = 0.421 mW/g

Maximum value of SAR (measured) = 0.602 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 25(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 26(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 02/09/2009 12:14:55 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back CDMA1900 low chan amb temp 23.5C liq temp 22.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.49 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.71, 4.71, 4.71); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.673 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 = 9.53 V/m ; Power Drift = -0.032 dB

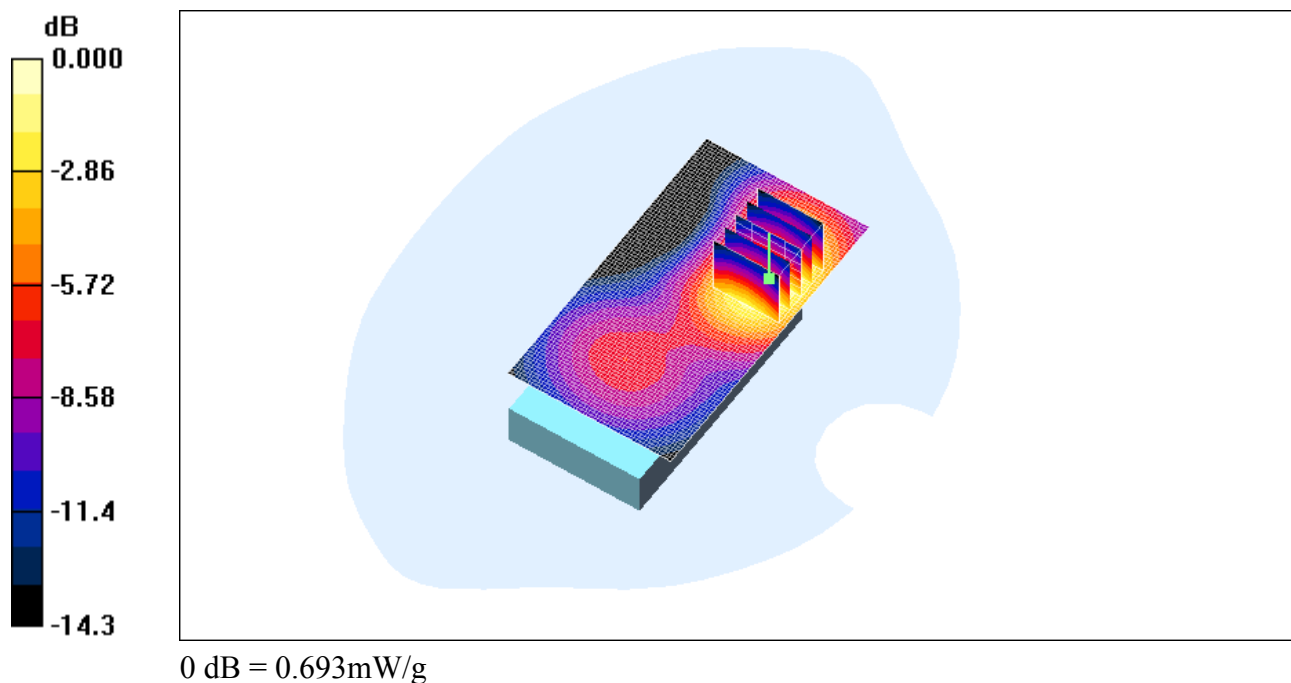
Peak SAR (extrapolated) = 0.921 W/kg

SAR(1 g) = 0.624 mW/g ; SAR(10 g) = 0.378 mW/g

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

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

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 27(70)
Author Data Andrew Becker		Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 28(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 02/09/2009 12:31:53 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Back_CDMA1900_mid_chan_amb_temp_23.1C_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.71, 4.71, 4.71); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.721 mW/g

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

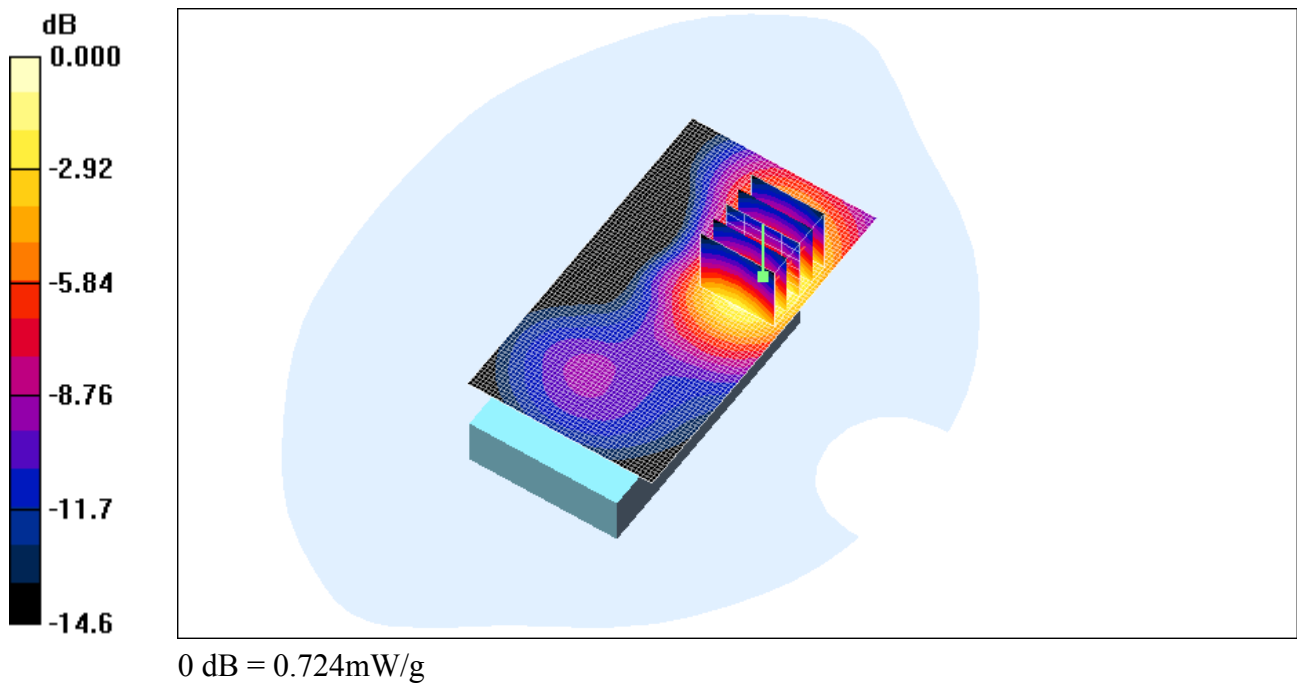
Reference Value = 6.97 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.655 mW/g; SAR(10 g) = 0.389 mW/g

Maximum value of SAR (measured) = 0.724 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 29(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 30(70)
Author Data Andrew Becker		Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 02/09/2009 12:46:47 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Back_CDMA1900_high_chan_amb_temp_22.5C_liq_temp_22.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.71, 4.71, 4.71); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.707 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 = 6.42 V/m ; Power Drift = -0.182 dB

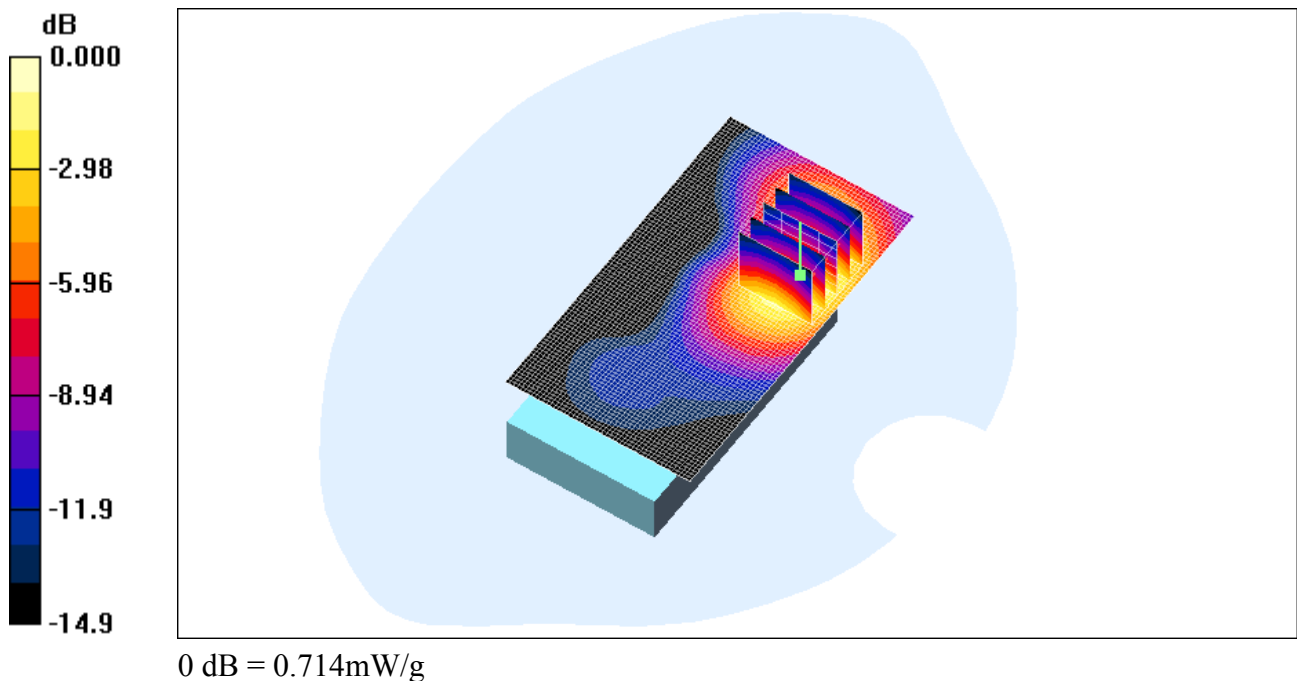
Peak SAR (extrapolated) = 0.992 W/kg

SAR(1 g) = 0.643 mW/g ; SAR(10 g) = 0.378 mW/g

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

Maximum value of SAR (measured) = 0.714 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 31(70)
Author Data Andrew Becker		Dates of Test September 1 - 29, 2009		Test Report No RTS-2068-0909-43
				FCC ID: L6ARCL20CW



		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 32(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 02/09/2009 1:03:04 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_CDMA1900_mid_chan_amb_temp_22.9C_liq_temp_22.2C.d
a4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.71, 4.71, 4.71); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.629 mW/g

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

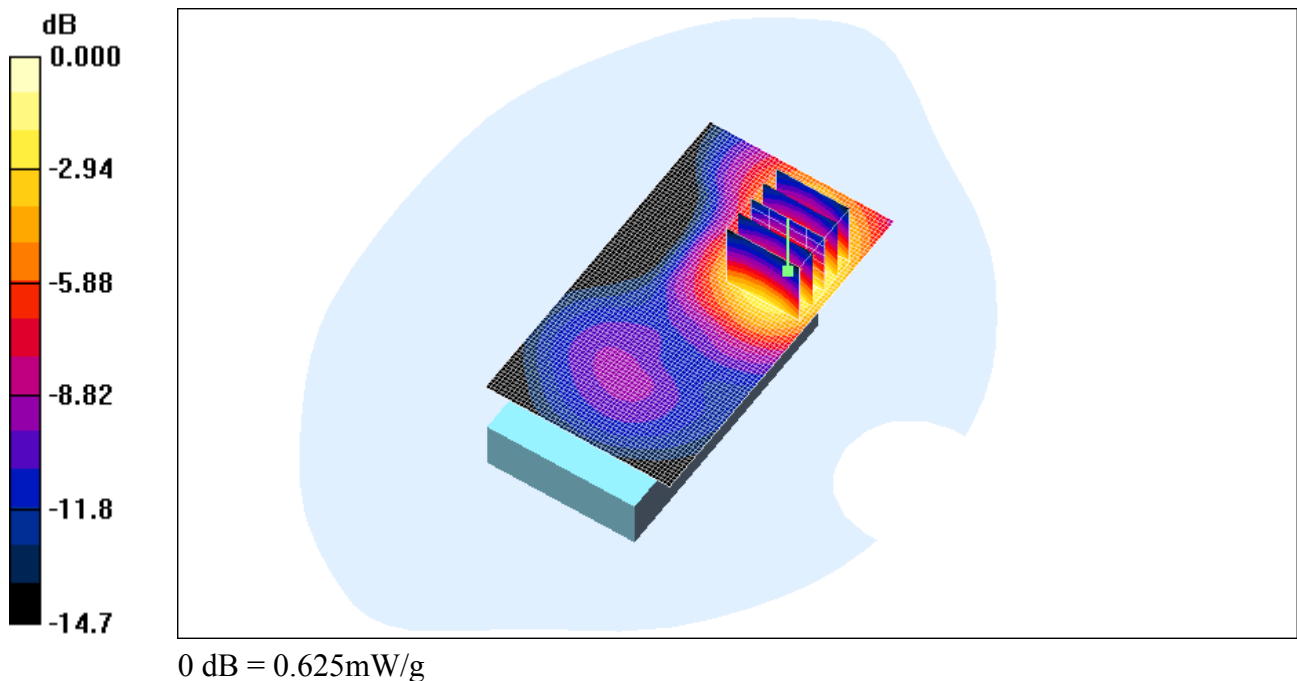
Reference Value = 6.23 V/m ; Power Drift = -0.247 dB

Peak SAR (extrapolated) = 0.864 W/kg

SAR(1 g) = 0.566 mW/g ; SAR(10 g) = 0.341 mW/g

Maximum value of SAR (measured) = 0.625 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 33(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 34(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 02/09/2009 4:54:13 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Front_CDMA1900_mid_chan_amb_temp_22.2C_liq_temp_21.9C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.71, 4.71, 4.71); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

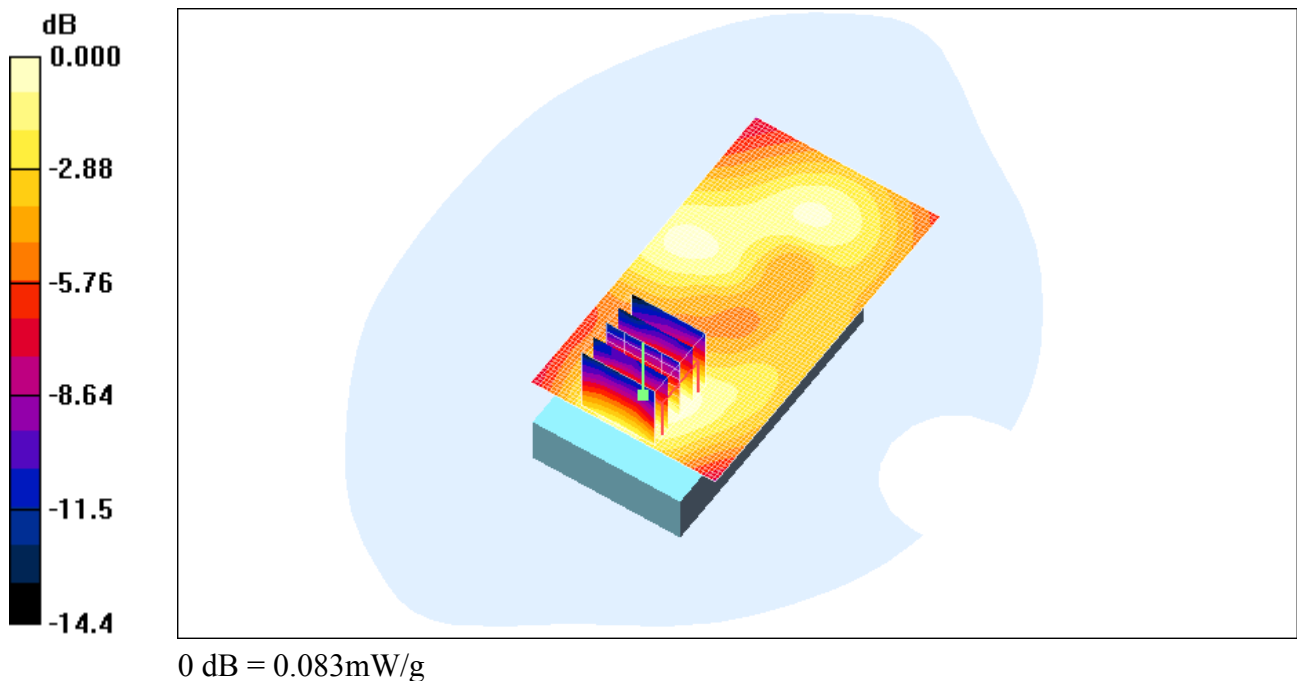
Reference Value = 4.68 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.049 mW/g

Maximum value of SAR (measured) = 0.083 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 35(70)
Author Data Andrew Becker		Dates of Test September 1 - 29, 2009		Test Report No RTS-2068-0909-43
FCC ID: L6ARCL20CW				



		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 36(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 02/09/2009 5:12:13 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Back_Headset1_CDMA1900_mid_chan_amb_temp_21.8C_liq_temp_21.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.71, 4.71, 4.71); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.604 mW/g

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

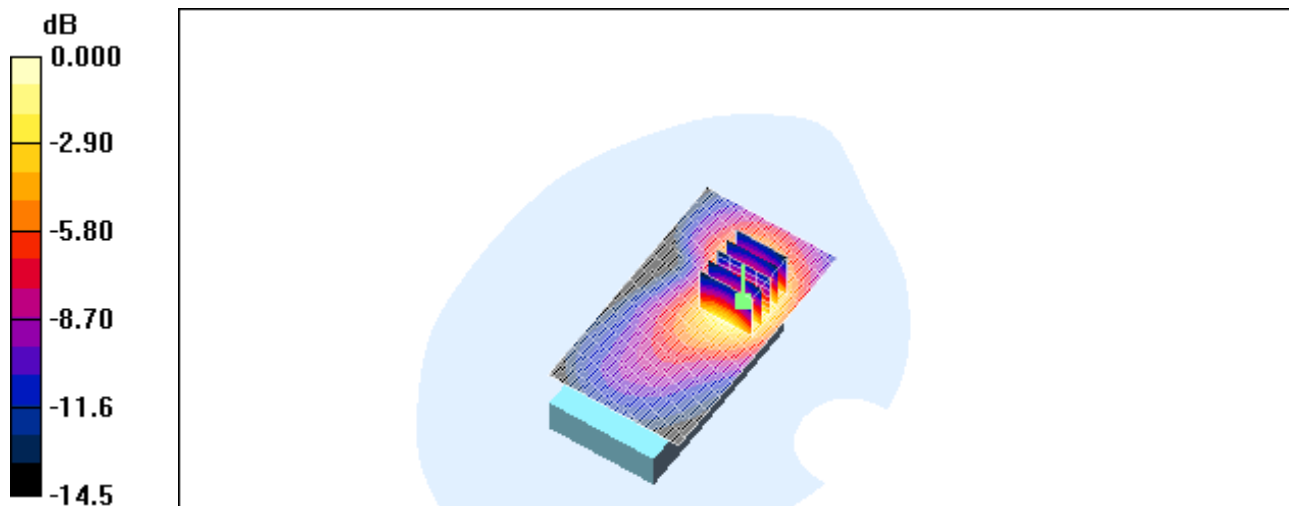
Reference Value = 10.7 V/m ; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 0.854 W/kg

SAR(1 g) = 0.560 mW/g ; SAR(10 g) = 0.334 mW/g

Maximum value of SAR (measured) = 0.619 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 37(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.619mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 38(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 02/09/2009 5:29:12 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Back_Headset2_CDMA1900_mid_chan_amb_temp_22.1C_liq_temp_21.9C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.71, 4.71, 4.71); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.608 mW/g

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

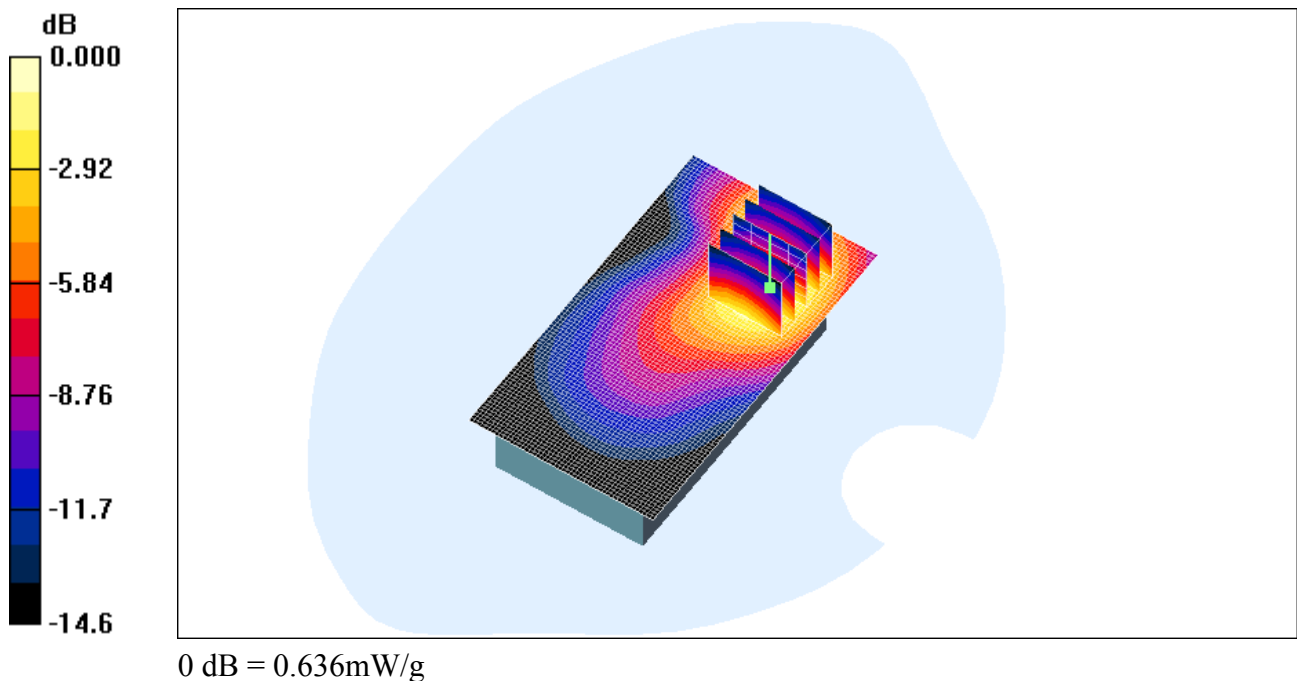
Reference Value = 10.5 V/m ; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.883 W/kg

SAR(1 g) = 0.573 mW/g ; SAR(10 g) = 0.341 mW/g

Maximum value of SAR (measured) = 0.636 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 39(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 40(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 02/09/2009 5:45:39 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Back_Headset3_CDMA1900_mid_chan_amb_temp_21.8C_liq_temp_21.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.71, 4.71, 4.71); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.618 mW/g

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

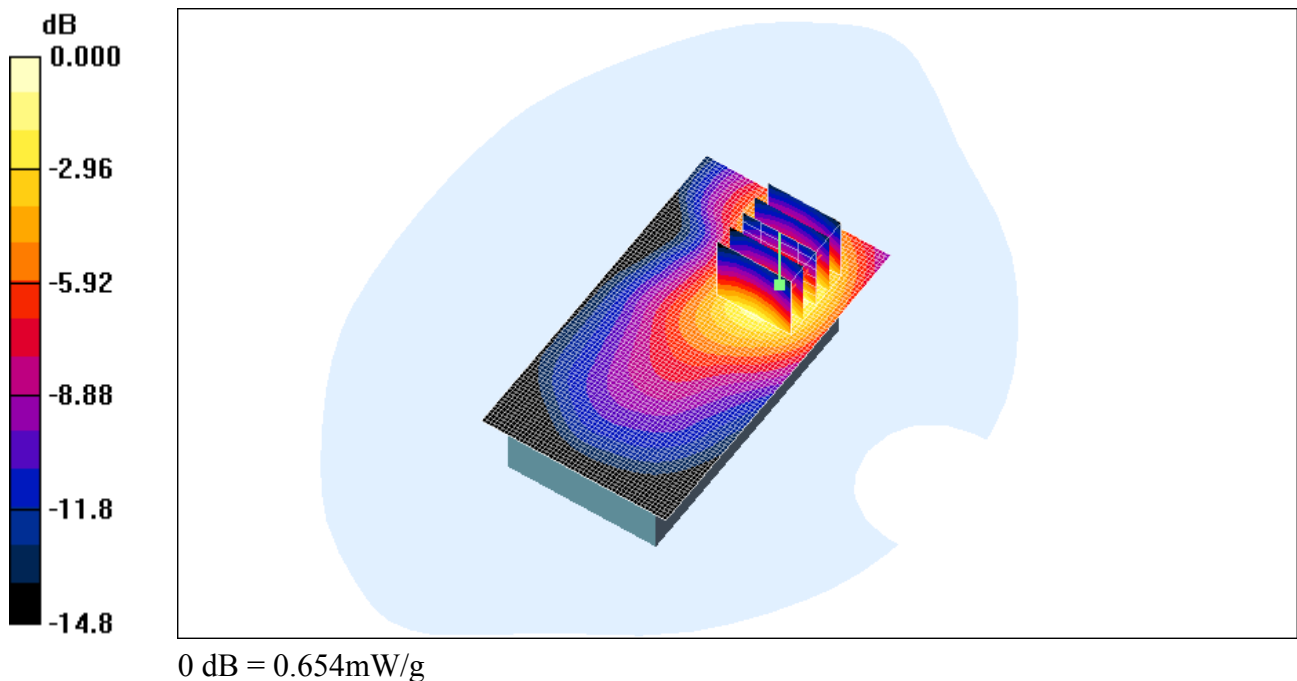
Reference Value = 11.0 V/m ; Power Drift = 0.111 dB

Peak SAR (extrapolated) = 0.905 W/kg

SAR(1 g) = 0.582 mW/g ; SAR(10 g) = 0.345 mW/g

Maximum value of SAR (measured) = 0.654 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 41(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 42(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 02/09/2009 6:07:13 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[25mm Spacer_CDMA1900_mid_chan_amb_temp_21.7C_liq_temp_21.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.71, 4.71, 4.71); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

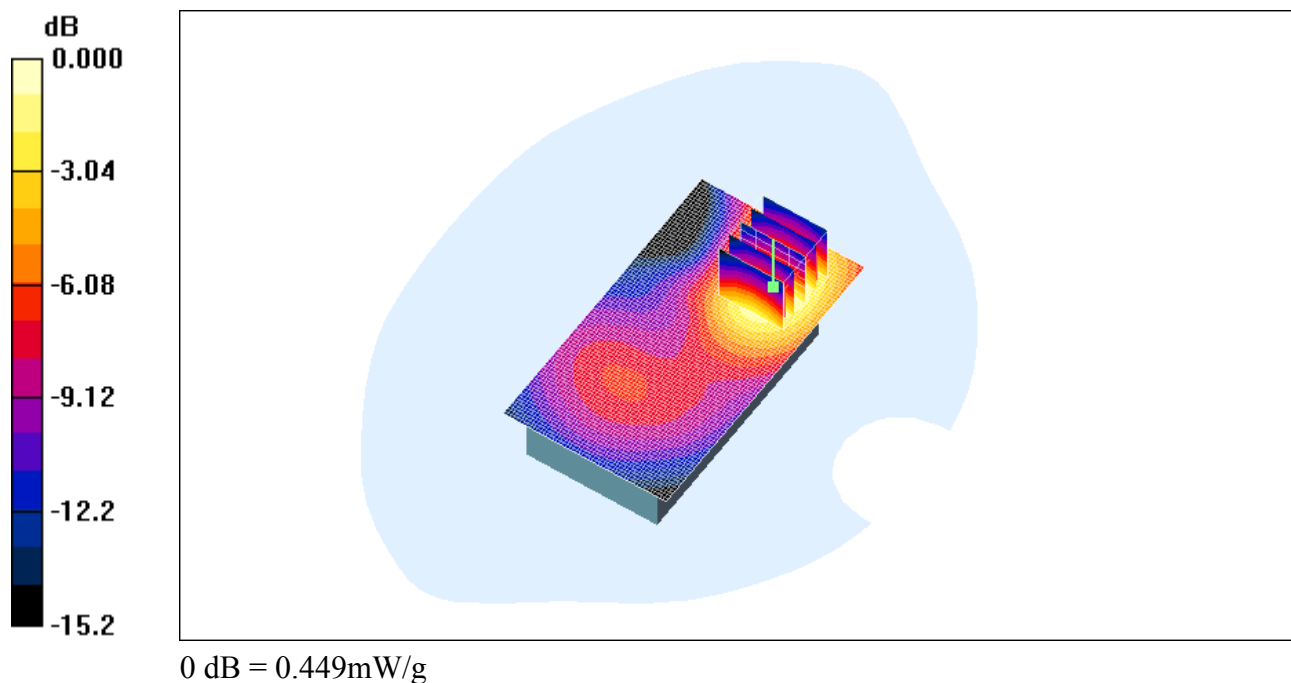
Reference Value = 7.49 V/m; Power Drift = -0.130 dB

Peak SAR (extrapolated) = 0.630 W/kg

SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.252 mW/g

Maximum value of SAR (measured) = 0.449 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 43(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 44(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 24/09/2009 9:21:10 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Back_CDMA1900_mid_chan_amb_temp_23.1C_liq_temp_22.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30EC2ACE

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 51.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.71, 4.71, 4.71); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

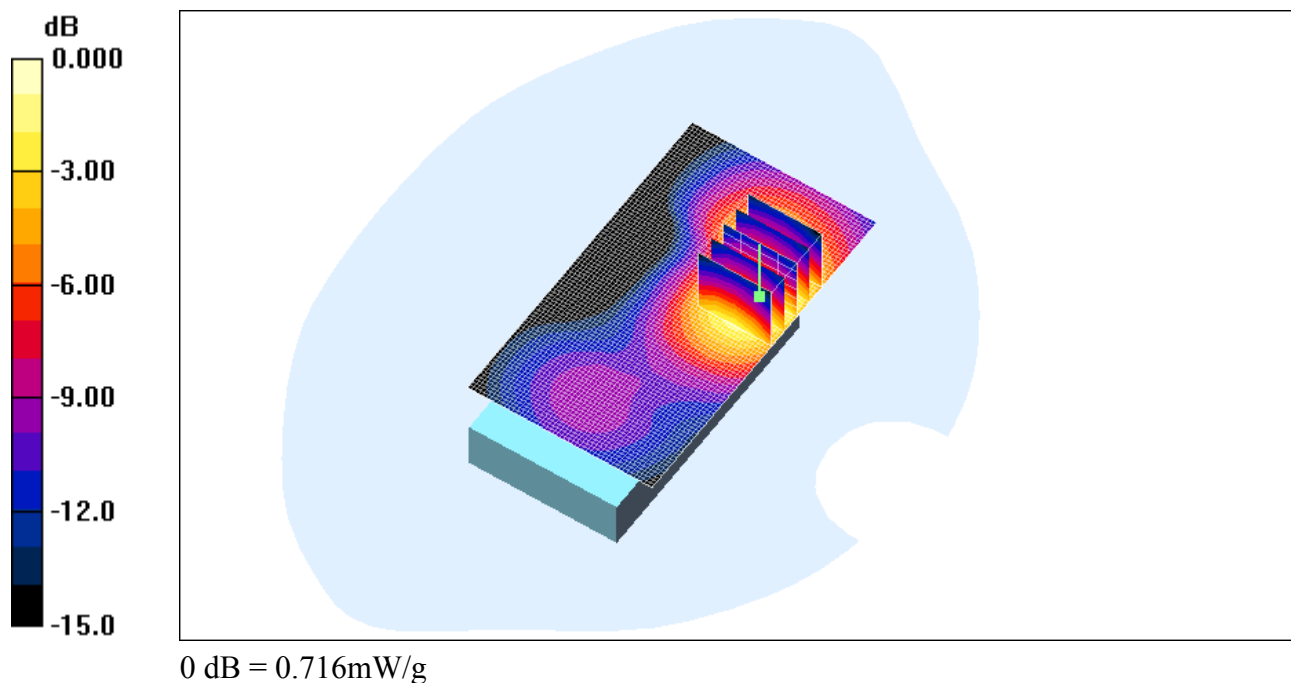
Reference Value = 6.98 V/m; Power Drift = 0.137 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.650 mW/g; SAR(10 g) = 0.385 mW/g

Maximum value of SAR (measured) = 0.716 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 45(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 46(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 04/09/2009 2:16:10 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back 802.11b low chan amb temp 23.7C liq temp 22.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.92 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.02, 4.02, 4.02); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.082 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 = 5.97 V/m ; Power Drift = -0.091 dB

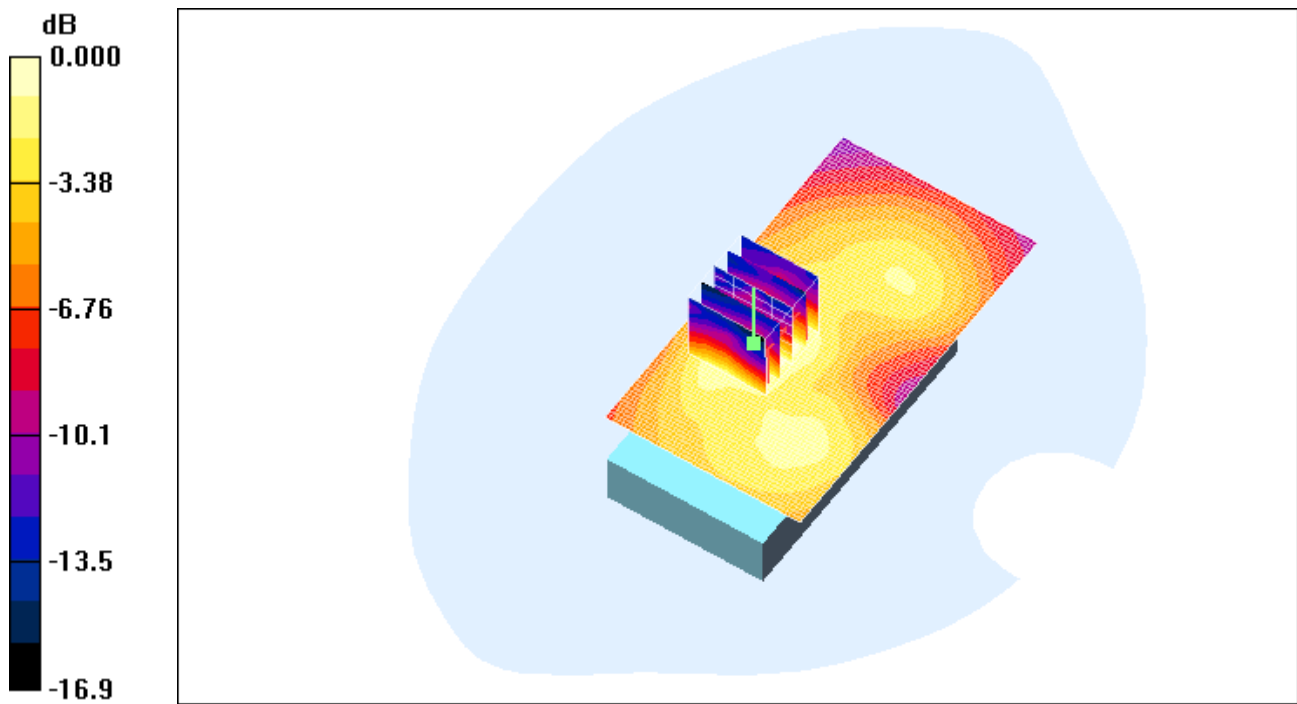
Peak SAR (extrapolated) = 0.161 W/kg

SAR(1 g) = 0.076 mW/g ; SAR(10 g) = 0.042 mW/g

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

Maximum value of SAR (measured) = 0.079 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 47(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.079mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 48(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 04/09/2009 2:33:14 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Back_802.11b_mid_chan_amb_temp_23.8C_liq_temp_22.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.95 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.02, 4.02, 4.02); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.102 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 = 5.94 V/m ; Power Drift = -0.185 dB

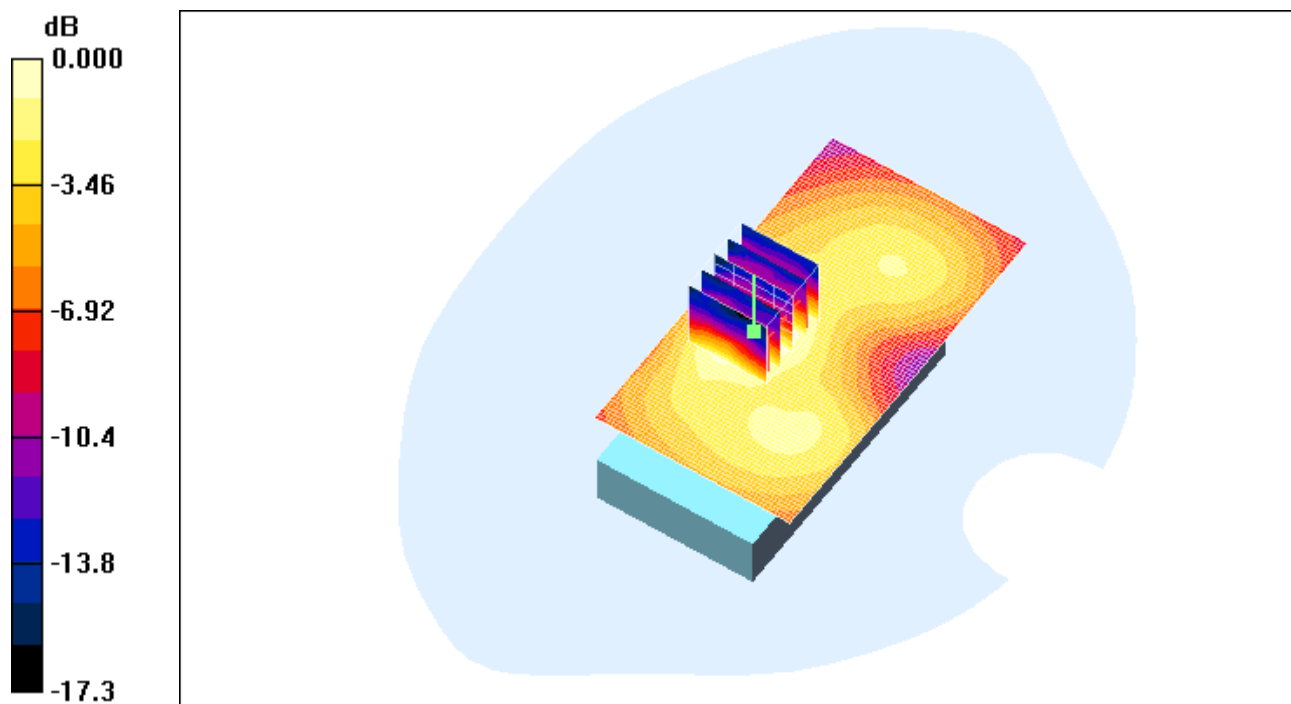
Peak SAR (extrapolated) = 0.192 W/kg

SAR(1 g) = 0.092 mW/g ; SAR(10 g) = 0.051 mW/g

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

Maximum value of SAR (measured) = 0.097 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 49(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.097mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 50(70)	
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 04/09/2009 2:50:14 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Back_802.11b_high_chan_amb_temp_23.5C_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.97 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.02, 4.02, 4.02); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.081 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 = 5.16 V/m ; Power Drift = -0.168 dB

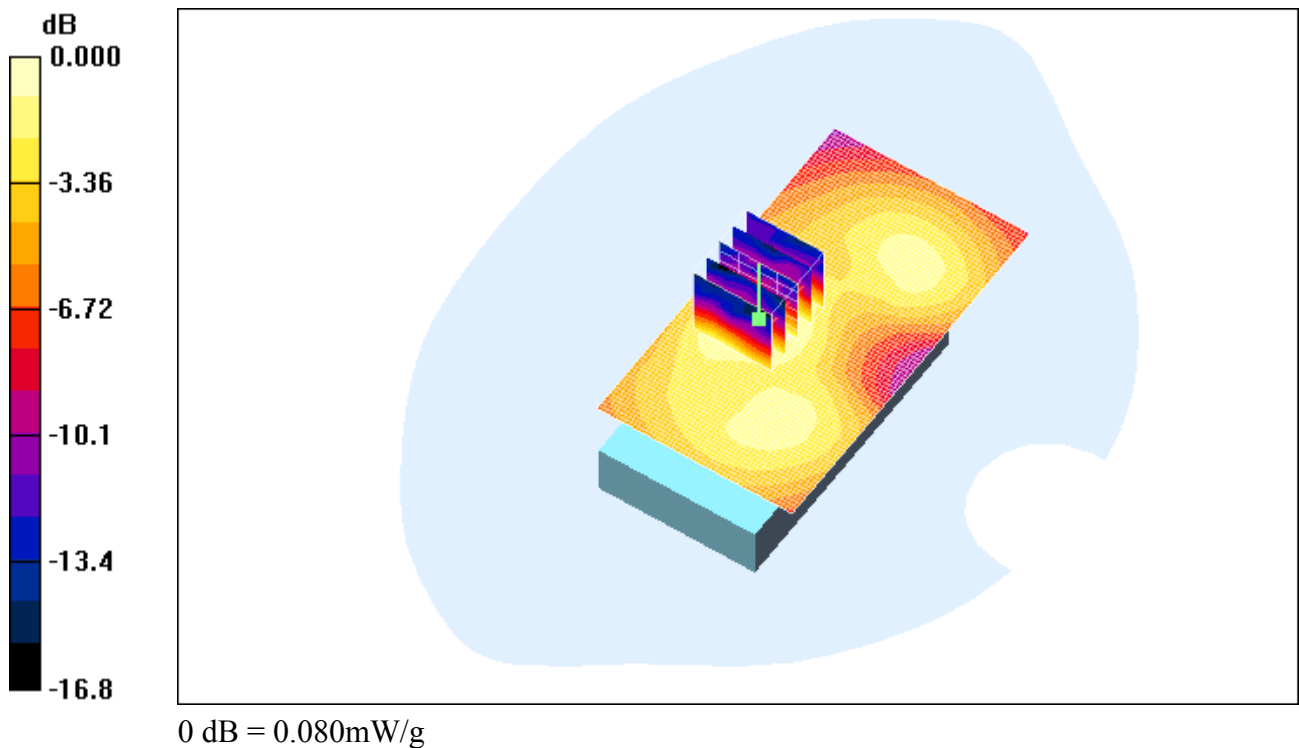
Peak SAR (extrapolated) = 0.155 W/kg

SAR(1 g) = 0.076 mW/g ; SAR(10 g) = 0.042 mW/g

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

Maximum value of SAR (measured) = 0.080 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 51(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



	Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 52(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 04/09/2009 3:26:48 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_802.11b_low_chan_amb_temp_23.9C_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.92 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.02, 4.02, 4.02); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.236 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 = 9.29 V/m ; Power Drift = -0.350 dB

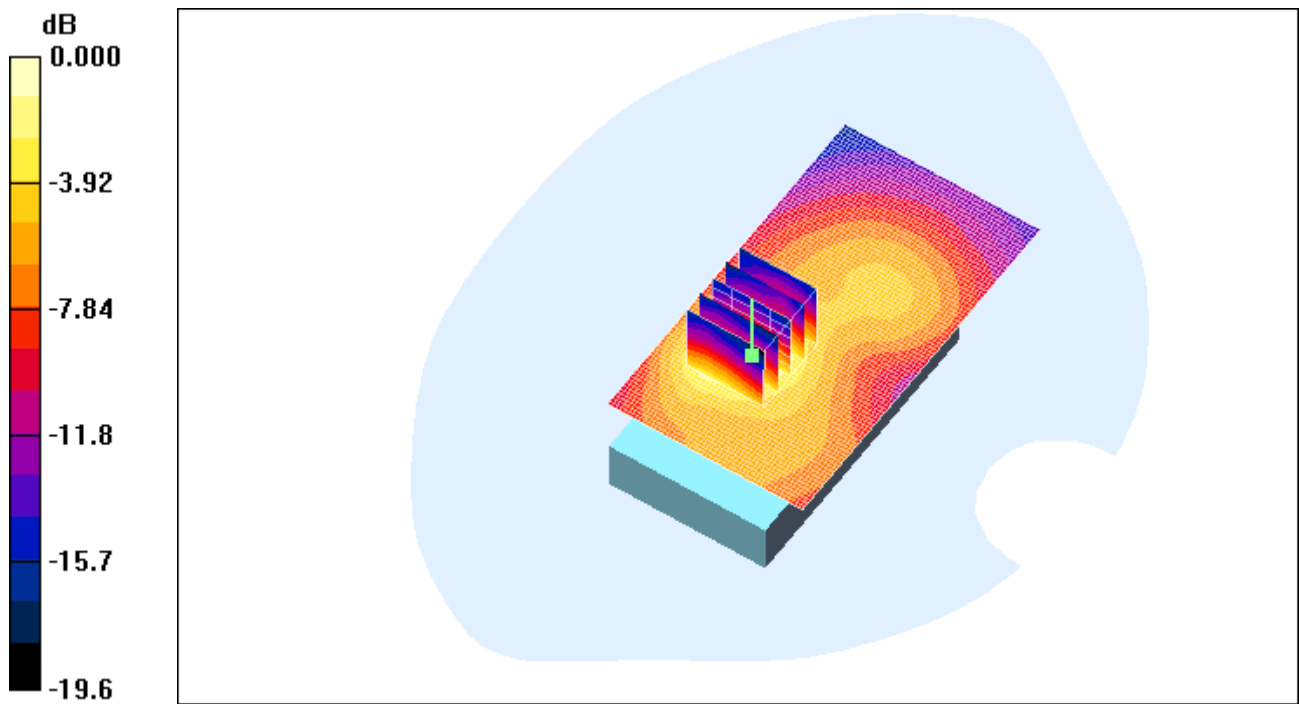
Peak SAR (extrapolated) = 0.500 W/kg

SAR(1 g) = 0.223 mW/g ; SAR(10 g) = 0.111 mW/g

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

Maximum value of SAR (measured) = 0.237 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 53(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.237mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 54(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 04/09/2009 3:06:40 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_802.11b_mid_chan_amb_temp_23.5C_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.95 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.02, 4.02, 4.02); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[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 = 10.1 V/m ; Power Drift = -0.265 dB

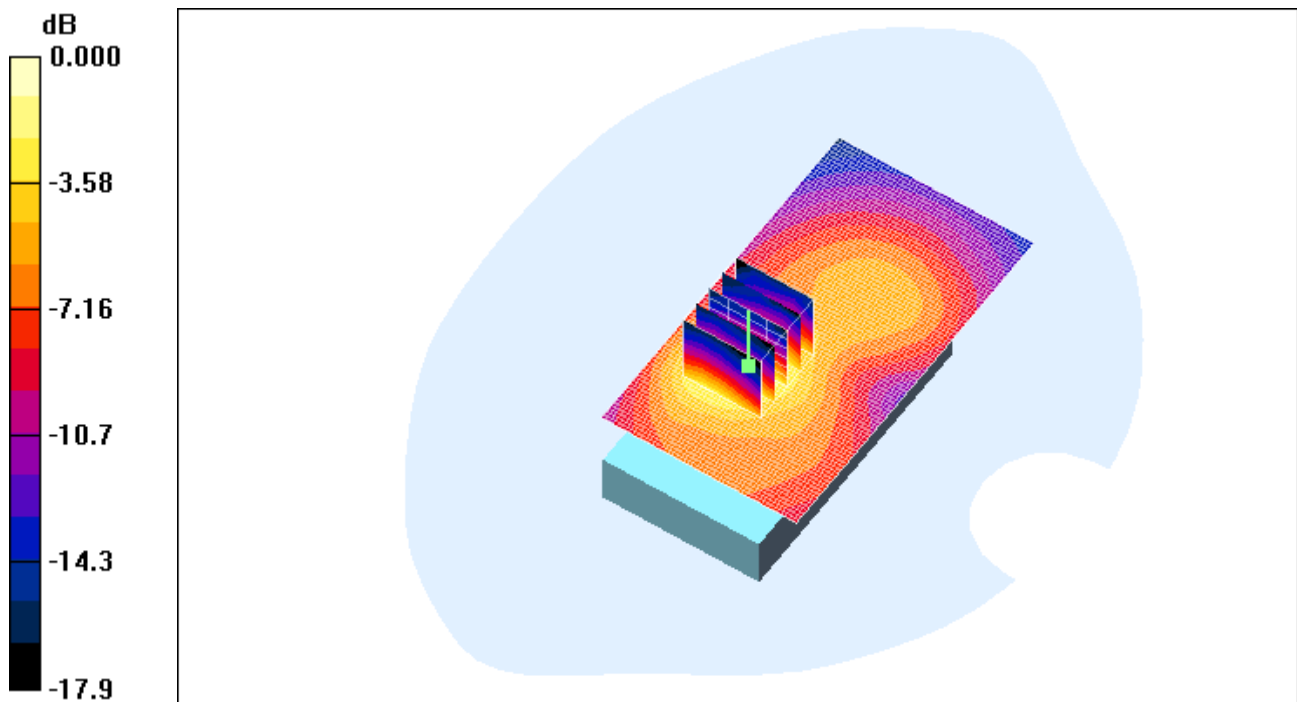
Peak SAR (extrapolated) = 0.592 W/kg

SAR(1 g) = 0.263 mW/g ; SAR(10 g) = 0.129 mW/g

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

Maximum value of SAR (measured) = 0.283 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 55(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.283mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 56(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 04/09/2009 3:46:43 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_802.11b_high_chan_amb_temp_23.4C_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.97 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.02, 4.02, 4.02); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.212 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 = 10.4 V/m ; Power Drift = -0.207 dB

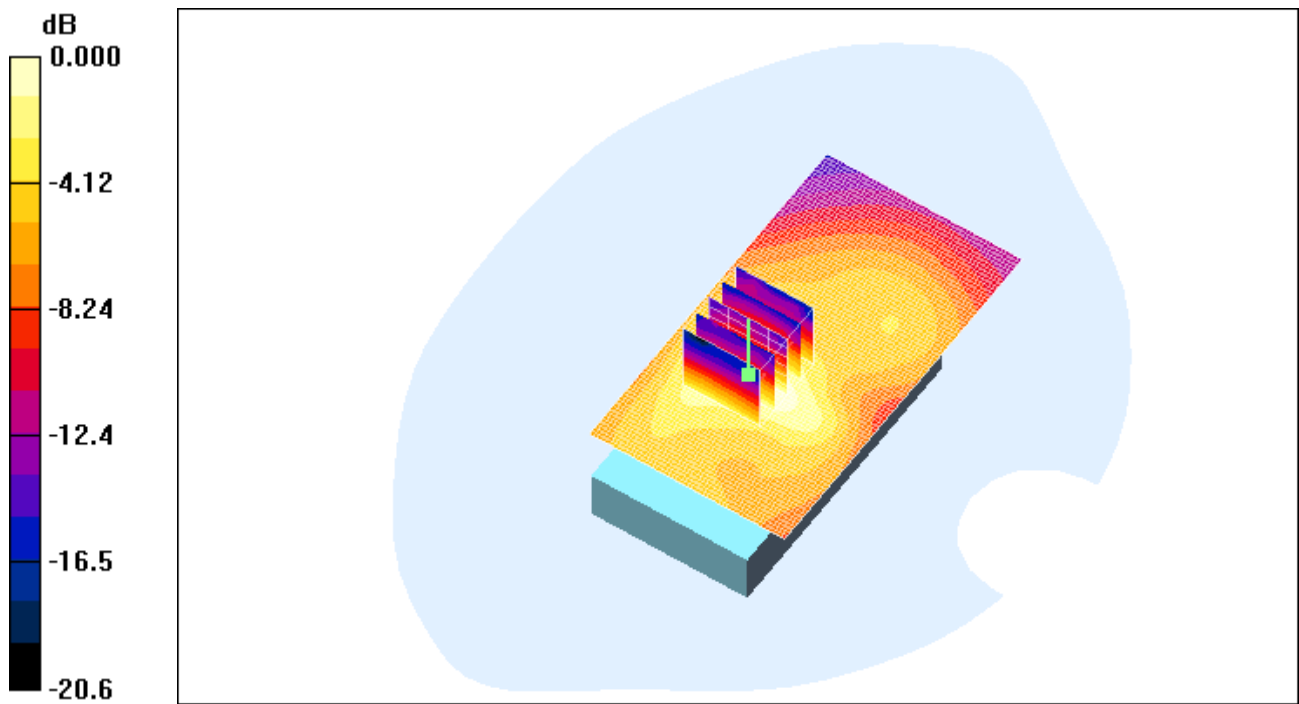
Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.193 mW/g ; SAR(10 g) = 0.106 mW/g

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

Maximum value of SAR (measured) = 0.205 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 57(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.205mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 58(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 04/09/2009 4:03:25 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Front_802.11b_mid_chan_amb_temp_23.3C_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.95 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.02, 4.02, 4.02); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.037 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 = 1.01 V/m ; Power Drift = 0.130 dB

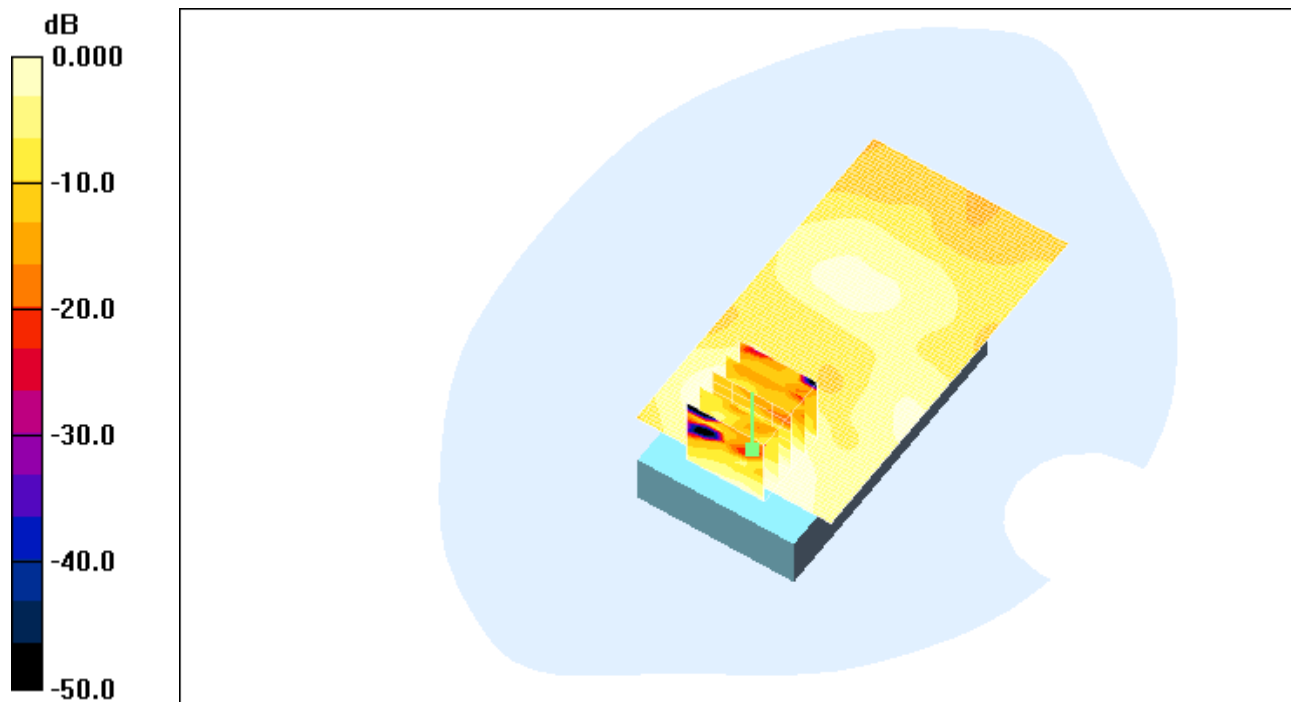
Peak SAR (extrapolated) = 0.049 W/kg

SAR(1 g) = 0.030 mW/g ; SAR(10 g) = 0.017 mW/g

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

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

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 59(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.034mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 60(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 04/09/2009 5:04:41 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_Headset1_802.11b_mid_chan_amb_temp_23.8C_liq_temp_22_4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9
Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.95 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.02, 4.02, 4.02); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.214 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 = 10.8 V/m ; Power Drift = -0.071 dB

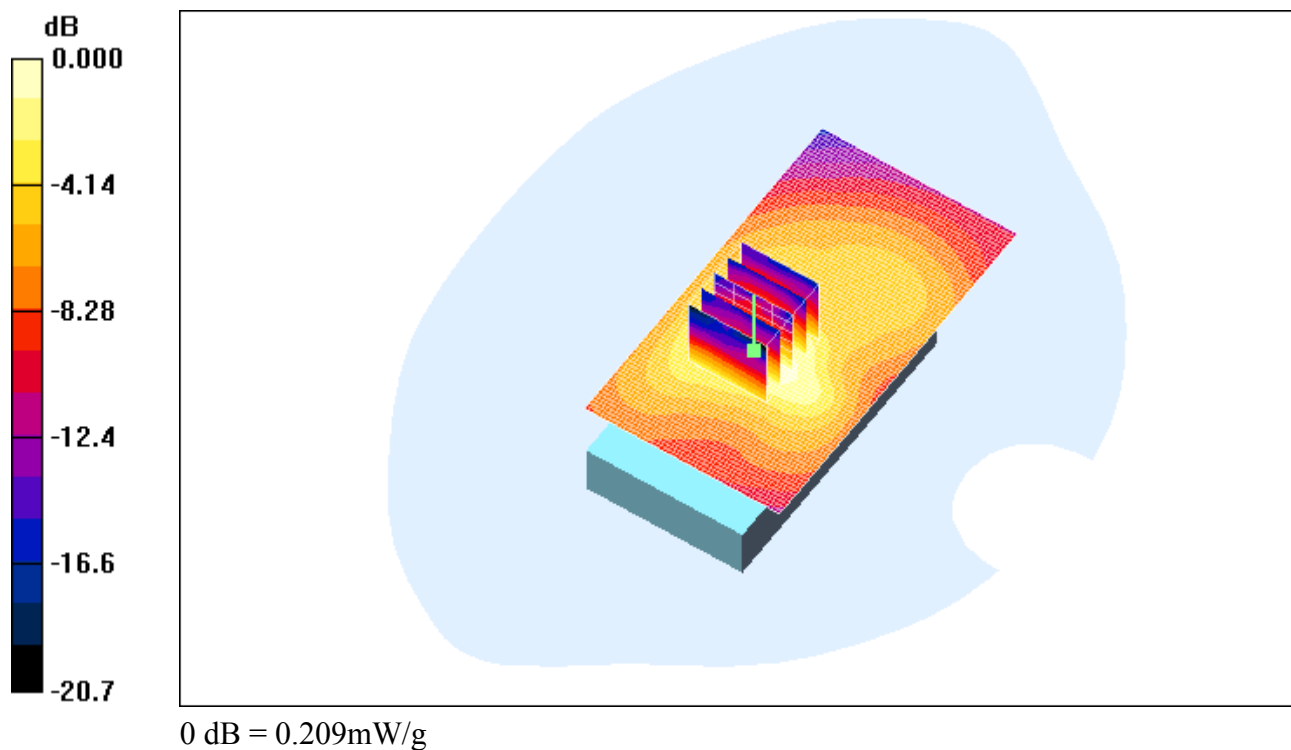
Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.195 mW/g ; SAR(10 g) = 0.108 mW/g

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

Maximum value of SAR (measured) = 0.209 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 61(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 62(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 04/09/2009 4:35:00 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_Headset2_802.11b_mid_chan_amb_temp_23.9C_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9
Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.95 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.02, 4.02, 4.02); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.205 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 = 9.95 V/m ; Power Drift = -0.196 dB

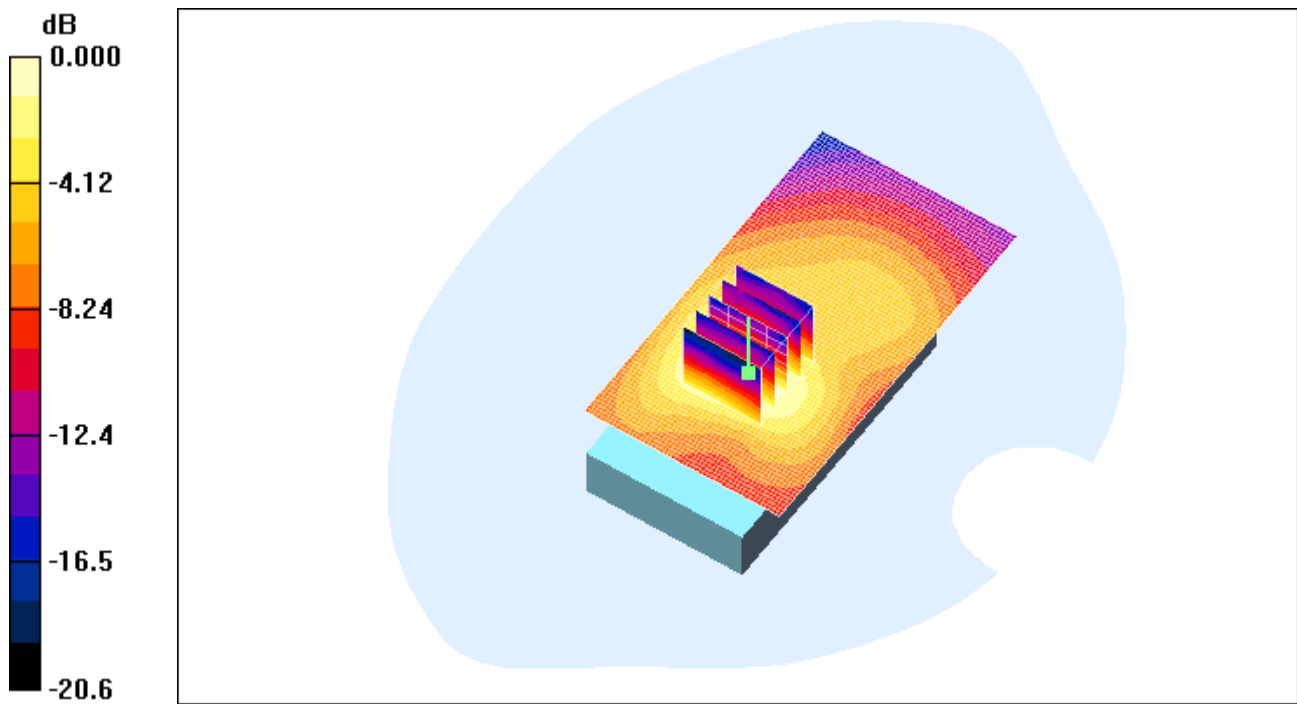
Peak SAR (extrapolated) = 0.393 W/kg

SAR(1 g) = 0.193 mW/g ; SAR(10 g) = 0.107 mW/g

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

Maximum value of SAR (measured) = 0.205 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 63(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.205mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 64(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 04/09/2009 4:48:52 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_Headset3_802.11b_mid_chan_amb_temp_23.8C_liq_temp_22_4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9
Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.95 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.02, 4.02, 4.02); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.207 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 = 10.1 V/m; Power Drift = -0.124 dB

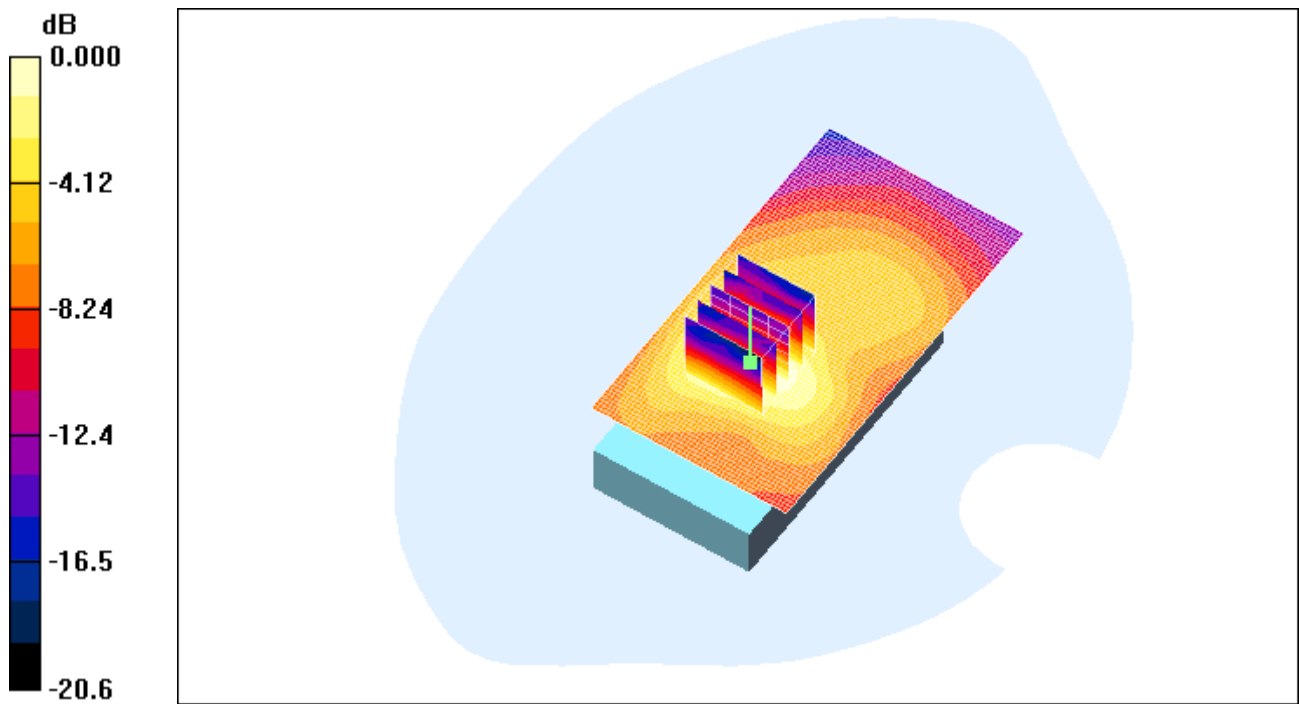
Peak SAR (extrapolated) = 0.381 W/kg

SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.107 mW/g

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

Maximum value of SAR (measured) = 0.206 mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 65(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.206mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 66(70)
Author Data Andrew Becker		Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 04/09/2009 5:21:36 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [25mm Spacer 802.11b mid_chan_amb_temp_23.5C_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.95 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.02, 4.02, 4.02); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.088 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 = 5.80 V/m ; Power Drift = -0.342 dB

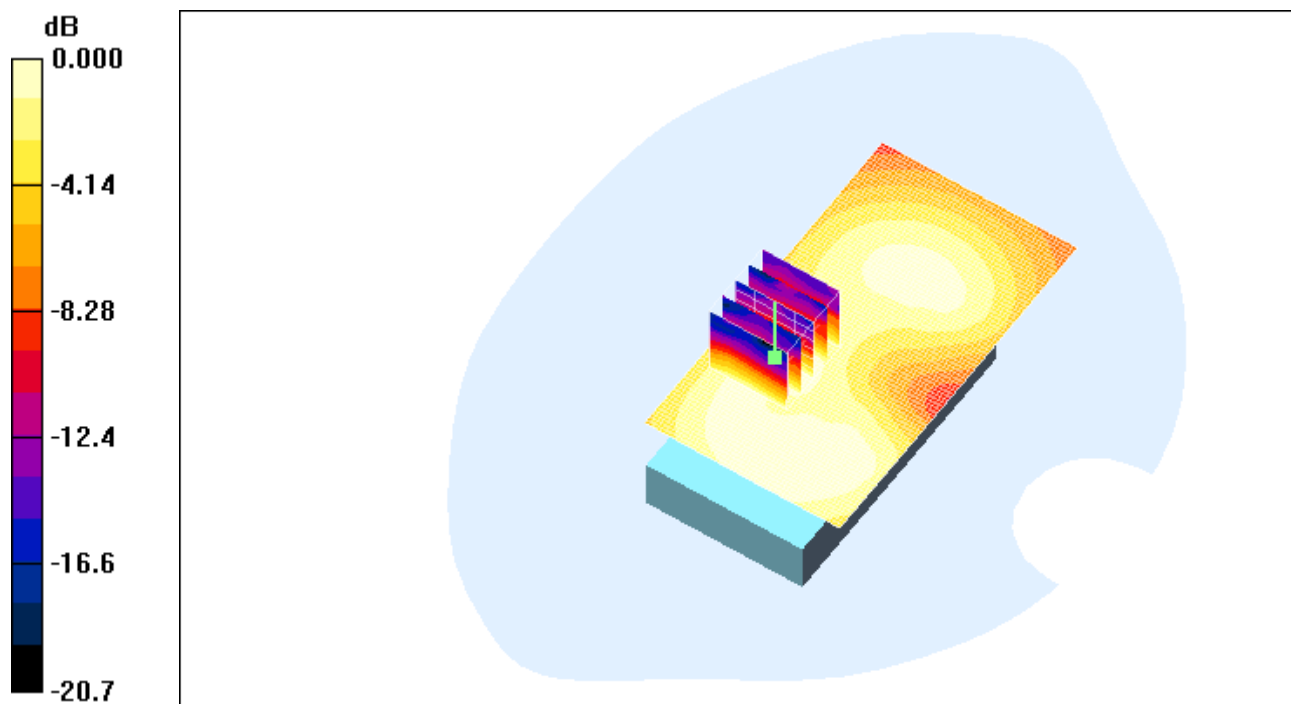
Peak SAR (extrapolated) = 0.161 W/kg

SAR(1 g) = 0.078 mW/g ; SAR(10 g) = 0.043 mW/g

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

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

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report		Page 67(70)
Author Data Andrew Becker		Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



0 dB = 0.084mW/g

		Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 68(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 29/09/2009 12:50:23 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_802.11b_mid_chan_amb_temp_24.2C_liq_temp_22.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30EC2ACE

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.97 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.02, 4.02, 4.02); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.306 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 = 10.2 V/m ; Power Drift = -0.225 dB

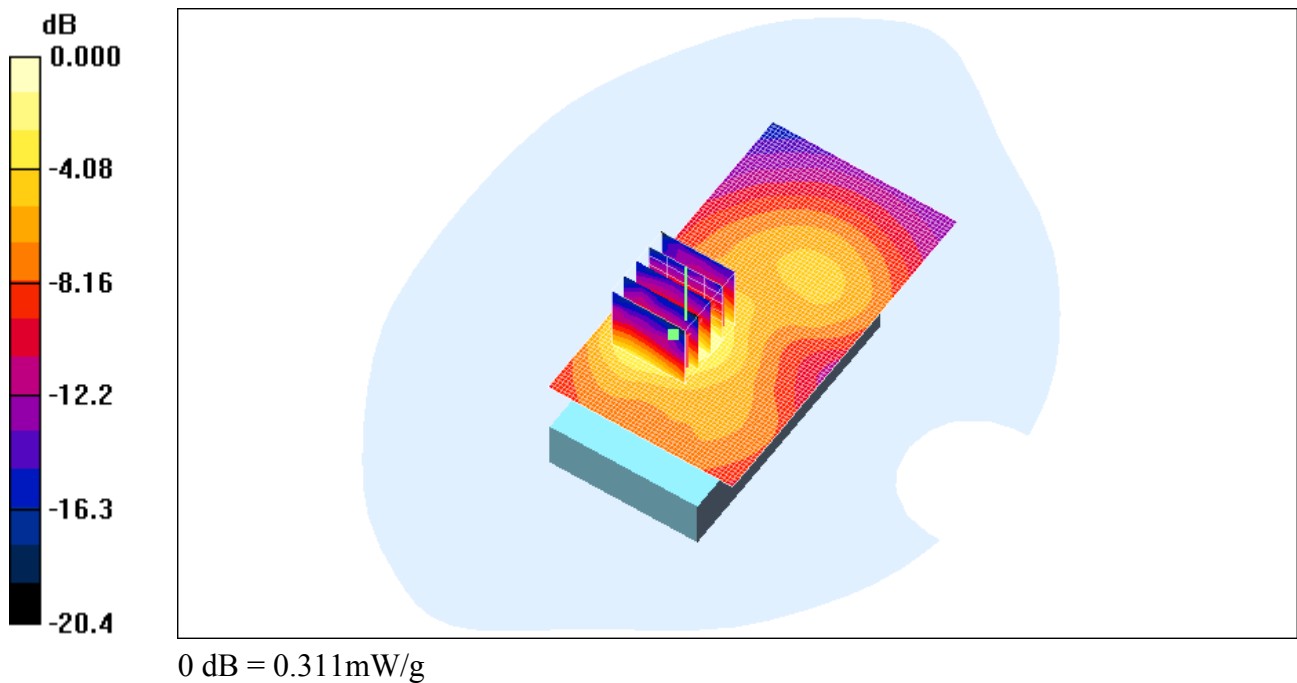
Peak SAR (extrapolated) = 0.618 W/kg

SAR(1 g) = 0.289 mW/g ; SAR(10 g) = 0.144 mW/g

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

Maximum value of SAR (measured) = 0.311 mW/g

		Document Appendix C for the BlackBerry ® Smartphone Model RCL21CW SAR Report	Page 69(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW



	Document Appendix C for the BlackBerry® Smartphone Model RCL21CW SAR Report	Page 70(70)
Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43
FCC ID: L6ARCL20CW		

Z axis plots for the worst case body worn configuration:

