	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 1(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOT SPOT CONFIGURATION



Document
Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report

Page
2(117)

Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013

Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW

Model: RFS121LW



Document
Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report

Page
3(117)

Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013

Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW

GPRS 850



Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report		Page 4(117)		
Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW	IC 2503A-RFR100LW

Date: 3/14/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Mobile Hot Spot MSL - GPRS 850

Communication System: GPRS 850; Communication System Band: GPRS 850; Frequency: 836.8 MHz

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.977$ S/m; $\epsilon_r = 54.597$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

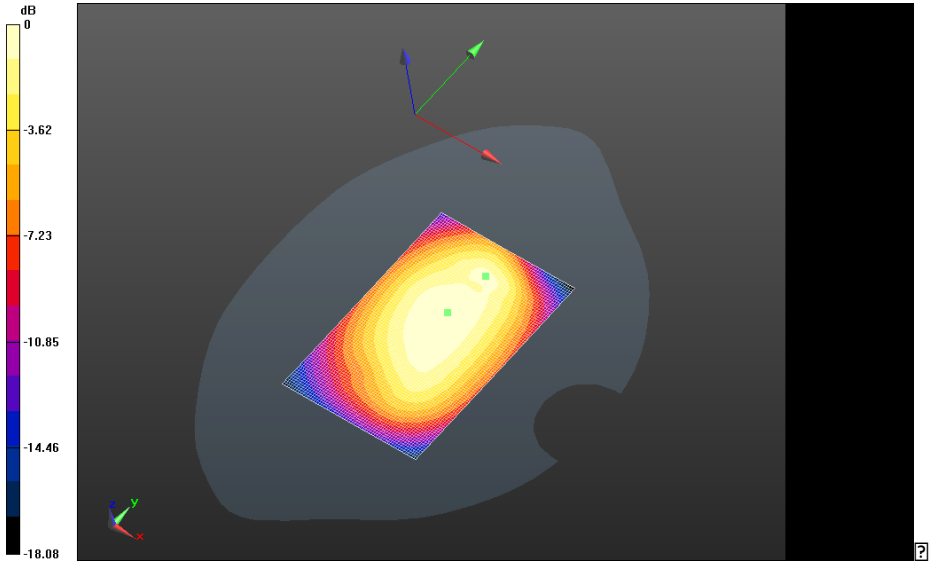
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS

850_chan190_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm


Reference Value = 30.269 V/m; **Power Drift = 0.283 dB**

Fast SAR: SAR(1g) = 0.781 W/kg; SAR(10g) = 0.544 W/kg; Secondary SAR(1g) = 0.629 W/kg

Maximum value of SAR (interpolated) = 0.887 W/kg



0 dB = 0.887 W/kg = -0.52 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 6(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

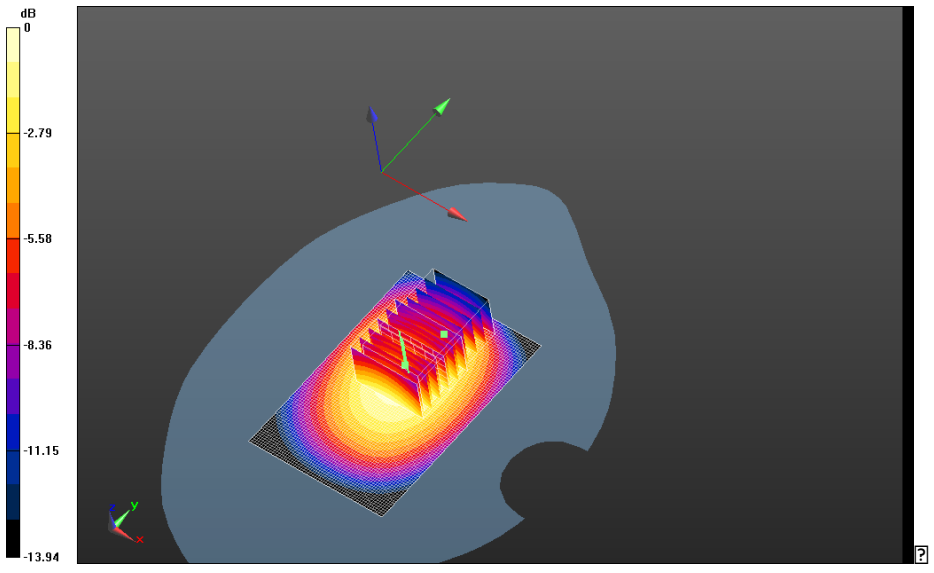
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 36.033 V/m; **Power Drift = -0.018 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 36.033 V/m; **Power Drift = -0.018 dB**


Averaged SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.838 W/kg
 Maximum value of SAR (interpolated) = 1.49 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan 2 (26x41x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 36.033 V/m; **Power Drift = -0.040 dB**

Averaged SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.833 W/kg
 Maximum value of SAR (interpolated) = 1.51 W/kg



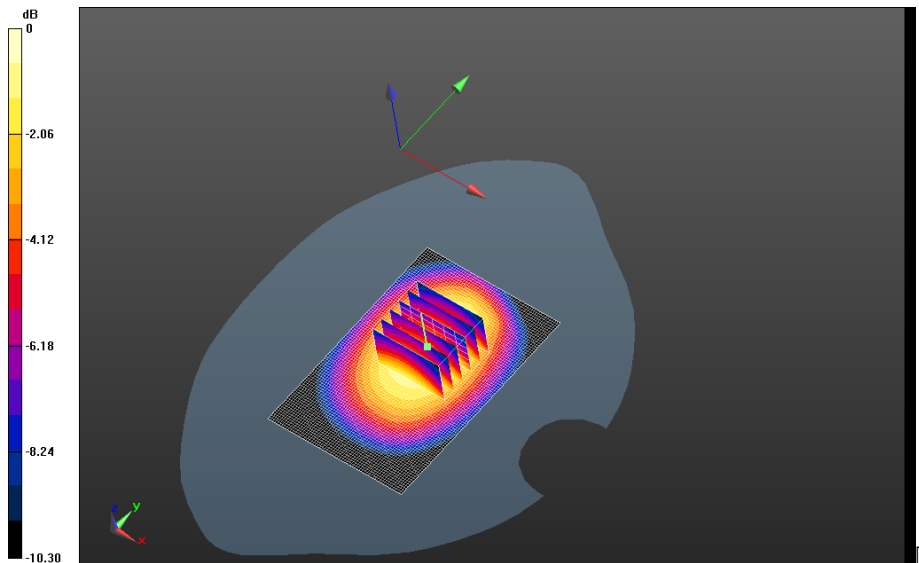
0 dB = 0.710 W/kg = -1.49 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 7(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.6C_liq_temp_21.7C_2nd scan/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 36.009 V/m; **Power Drift = -0.0061 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.6C_liq_temp_21.7C_2nd scan/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 36.009 V/m; **Power Drift = -0.0061 dB**

Averaged SAR: SAR(1g) = 1.15 W/kg; SAR(10g) = 0.845 W/kg
 Maximum value of SAR (interpolated) = 1.52 W/kg



0 dB = 1.25 W/kg = 0.97 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 8(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

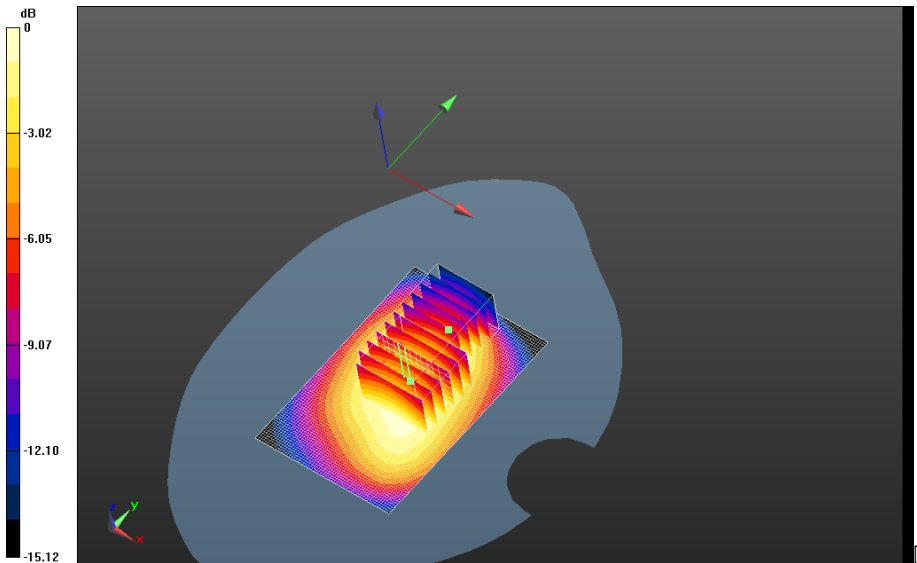
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 33.544 V/m; **Power Drift = 0.090 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 33.544 V/m; **Power Drift = 0.090 dB**


Averaged SAR: SAR(1g) = 0.957 W/kg; SAR(10g) = 0.706 W/kg
 Maximum value of SAR (interpolated) = 1.24 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan 2 (26x46x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 33.544 V/m; **Power Drift = 0.00689 dB**

Averaged SAR: SAR(1g) = 0.949 W/kg; SAR(10g) = 0.700 W/kg
 Maximum value of SAR (interpolated) = 1.25 W/kg



0 dB = 1.29 W/kg = 1.11 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 9(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

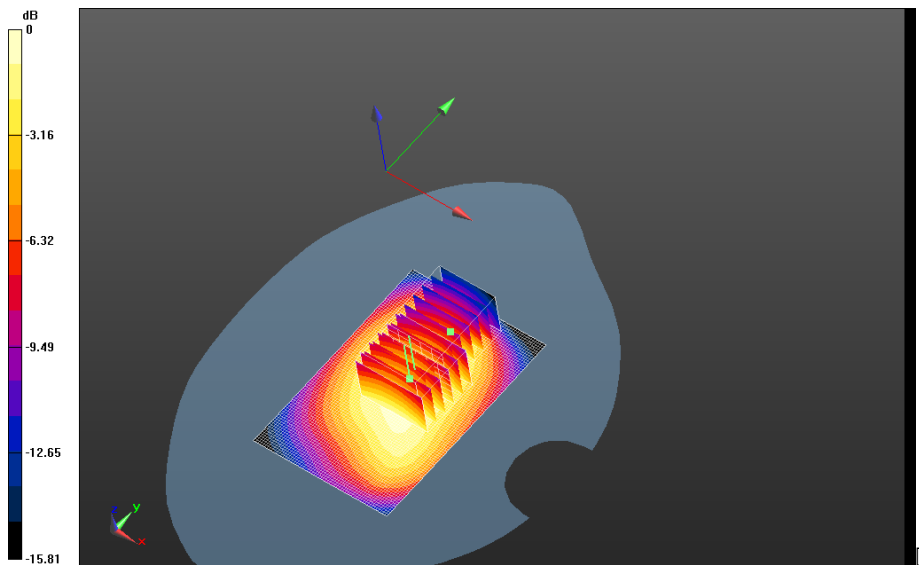
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan251_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 31.315 V/m; **Power Drift = -0.071 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan251_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 31.315 V/m; **Power Drift = -0.071 dB**


Averaged SAR: SAR(1g) = 0.845 W/kg; SAR(10g) = 0.619 W/kg
 Maximum value of SAR (interpolated) = 1.11 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan251_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan 2 (26x46x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 31.315 V/m; **Power Drift = -0.043 dB**

Averaged SAR: SAR(1g) = 0.846 W/kg; SAR(10g) = 0.616 W/kg
 Maximum value of SAR (interpolated) = 1.11 W/kg

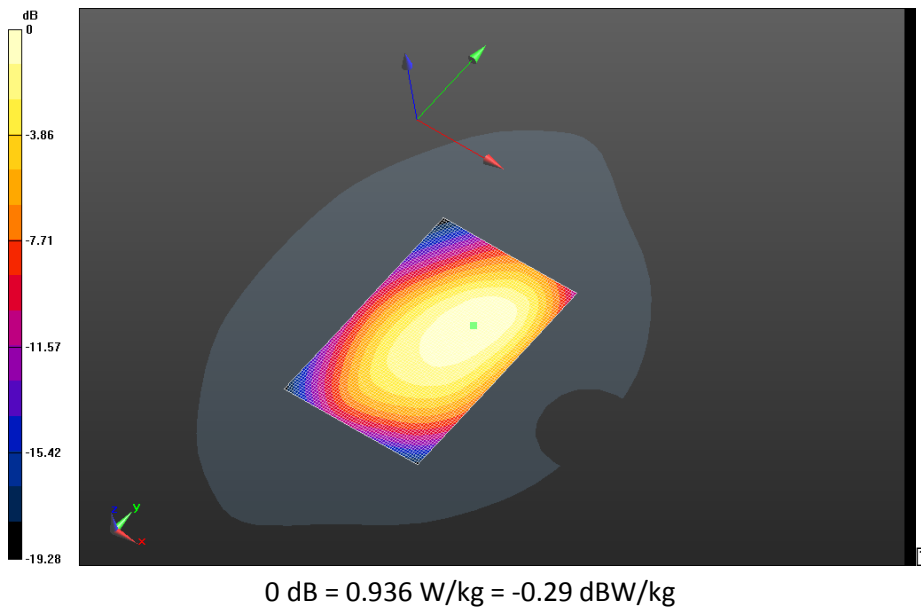



0 dB = 1.05 W/kg = 0.21 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 10(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

**Mobile Hot Spot MSL - GPRS 850/10mm Device Front -GPRS 850_3-
slot_chan128_amb_temp_23.4C_liq_temp_21.4C/Area Scan (61x91x1):** Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 30.310 V/m; **Power Drift = -0.00342 dB**

Fast SAR: SAR(1g) = 0.870 W/kg; SAR(10g) = 0.601 W/kg; Secondary SAR(1g) = 0.641 W/kg
Maximum value of SAR (interpolated) = 0.990 W/kg

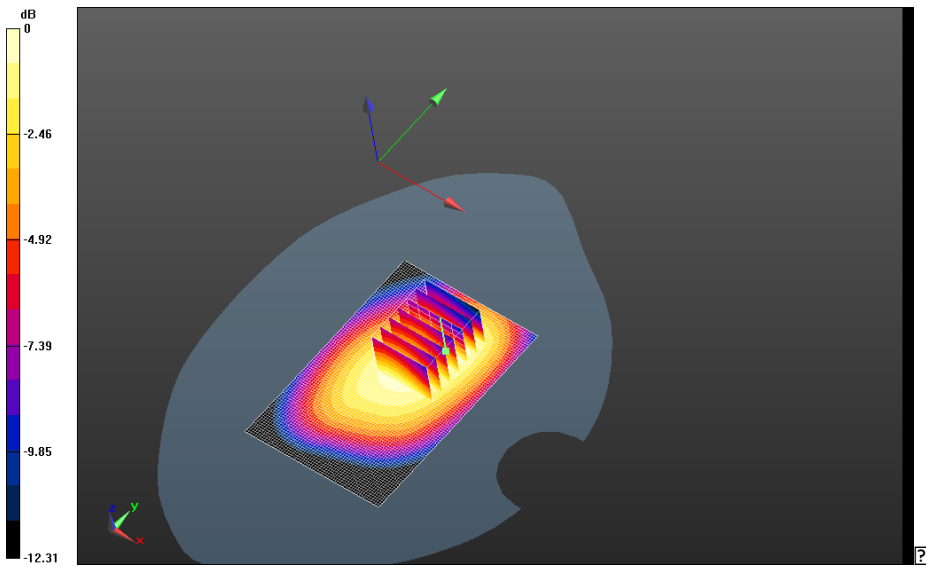


	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 11(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


**Mobile Hot Spot MSL - GPRS 850/10mm Device Front -GPRS 850_3-
slot_chan190_amb_temp_23.4C_liq_temp_21.4C/Area Scan (61x91x1):** Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 30.635 V/m; **Power Drift = 0.083 dB**

**Mobile Hot Spot MSL - GPRS 850/10mm Device Front -GPRS 850_3-
slot_chan190_amb_temp_23.4C_liq_temp_21.4C/Zoom Scan (26x31x36)/Cube 0:** Interpolated
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 30.635 V/m; **Power Drift = 0.083 dB**

Averaged SAR: SAR(1g) = 0.921 W/kg; SAR(10g) = 0.675 W/kg
Maximum value of SAR (interpolated) = 1.27 W/kg

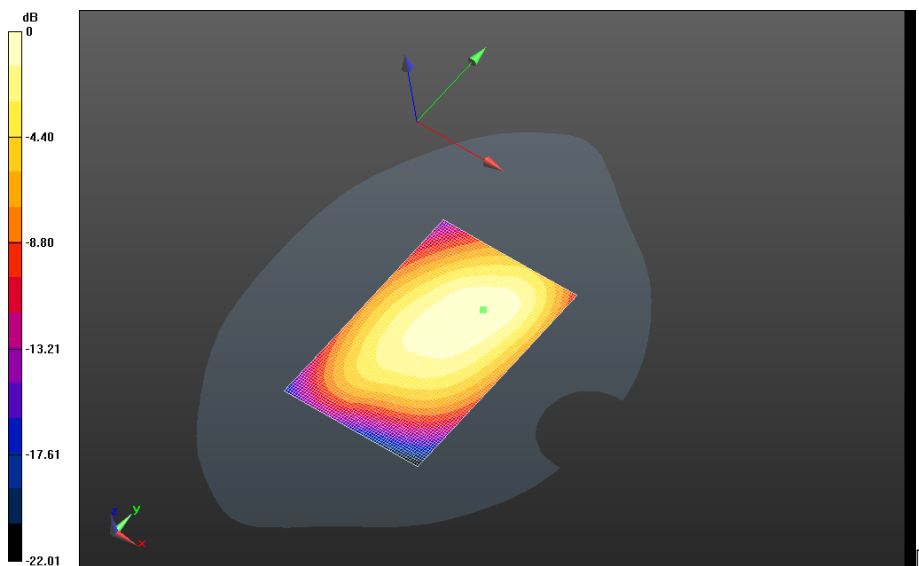


0 dB = 0.990 W/kg = -0.04 dBW/kg


	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 12(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

**Mobile Hot Spot MSL - GPRS 850/10mm Device Front -GPRS 850_3-
 slot_chan251_amb_temp_23.3C_liq_temp_21.4C/Area Scan (61x91x1):** Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 29.251 V/m; **Power Drift = 0.014 dB**

Fast SAR: SAR(1g) = 0.839 W/kg; SAR(10g) = 0.575 W/kg; Secondary SAR(1g) = 0.641 W/kg
 Maximum value of SAR (interpolated) = 0.962 W/kg

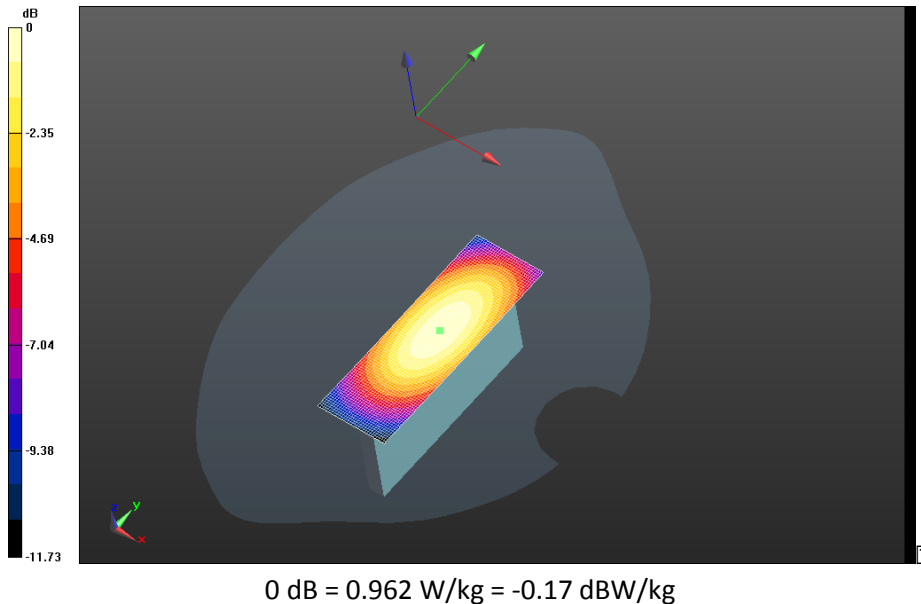



0 dB = 1.03 W/kg = 0.13 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 13(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

**Mobile Hot Spot MSL - GPRS 850/10mm Device Left - GPRS 850_3-
 slot_chan128_amb_temp_23.4C_liq_temp_21.4C/Area Scan (31x91x1):** Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 26.406 V/m; **Power Drift = -0.020 dB**

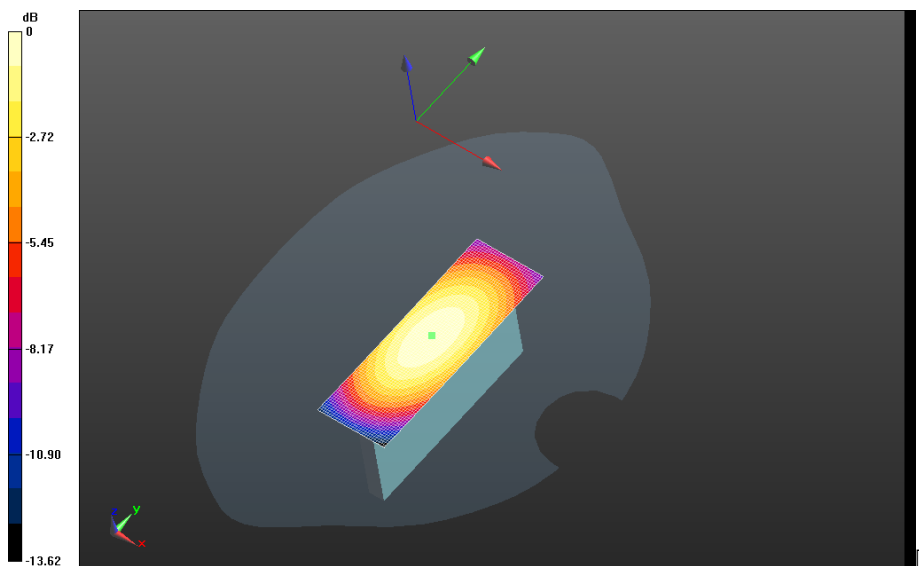
Fast SAR: SAR(1g) = 0.540 W/kg; SAR(10g) = 0.366 W/kg; Secondary SAR(1g) = 0.641 W/kg
 Maximum value of SAR (interpolated) = 0.613 W/kg




	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 14(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

**Mobile Hot Spot MSL - GPRS 850/10mm Device Right - GPRS 850_3-
 slot_chan128_amb_temp_23.4C_liq_temp_21.4C/Area Scan (31x91x1):** Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 27.173 V/m; **Power Drift = -0.00814 dB**

Fast SAR: SAR(1g) = 0.576 W/kg; SAR(10g) = 0.393 W/kg; Secondary SAR(1g) = 0.641 W/kg
 Maximum value of SAR (interpolated) = 0.655 W/kg



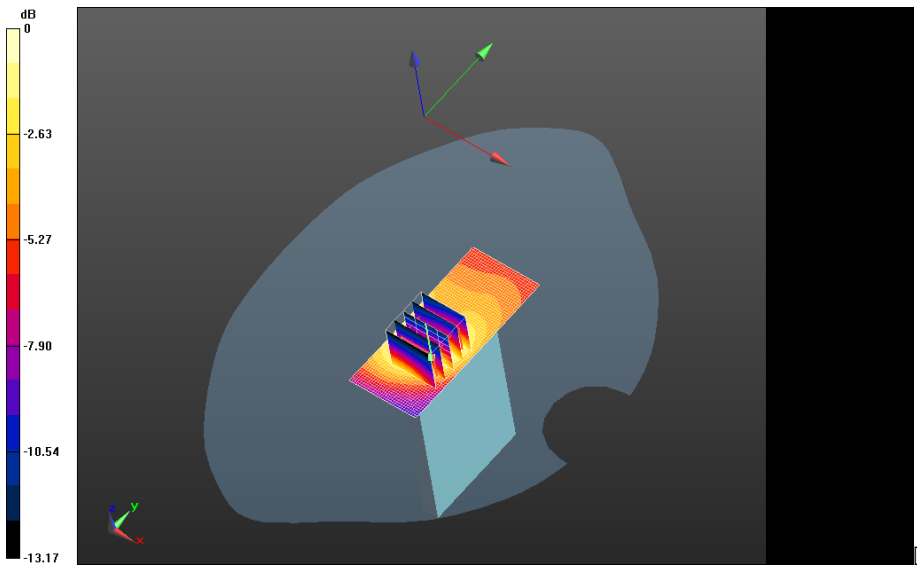
0 dB = 0.613 W/kg = -2.13 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 15(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


**Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom - GPRS 850_3-
 slot_chan128_amb_temp_23.4C_liq_temp_21.5C/Area Scan (31x71x1):** Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.153 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom - GPRS 850_3-
 slot_chan128_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (21x21x36)/Cube 0:** Interpolated
 grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 10.742 V/m; **Power Drift = -0.034 dB**

Averaged SAR: SAR(1g) = 0.123 W/kg; SAR(10g) = 0.0707 W/kg
 Maximum value of SAR (interpolated) = 0.229 W/kg

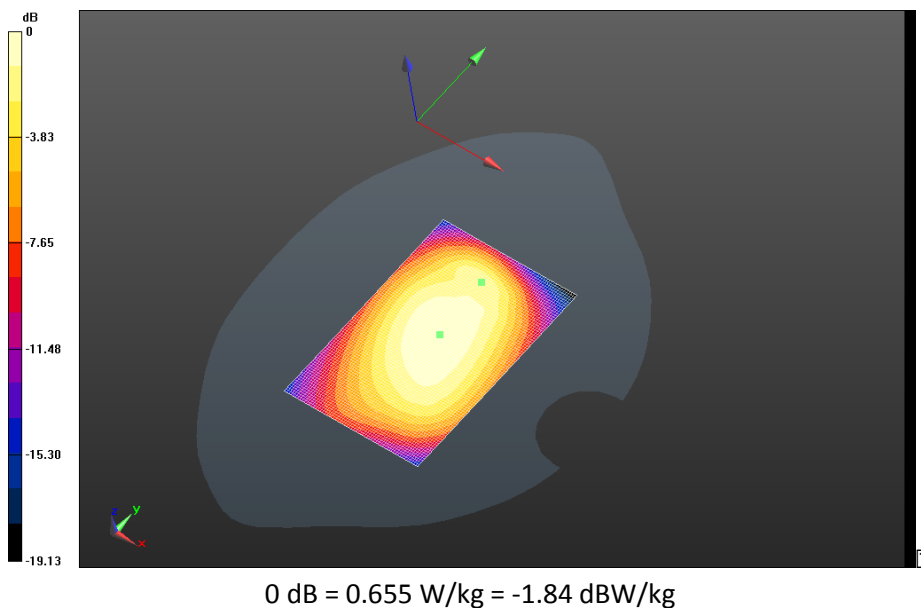



0 dB = 0.155 W/kg = -8.10 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 16(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - GPRS 850/10mm Device Back+HS - GPRS 850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.4C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 32.156 V/m; **Power Drift = 0.035 dB**

Fast SAR: SAR(1g) = 0.838 W/kg; SAR(10g) = 0.586 W/kg; Secondary SAR(1g) = 0.641 W/kg
Maximum value of SAR (interpolated) = 0.951 W/kg

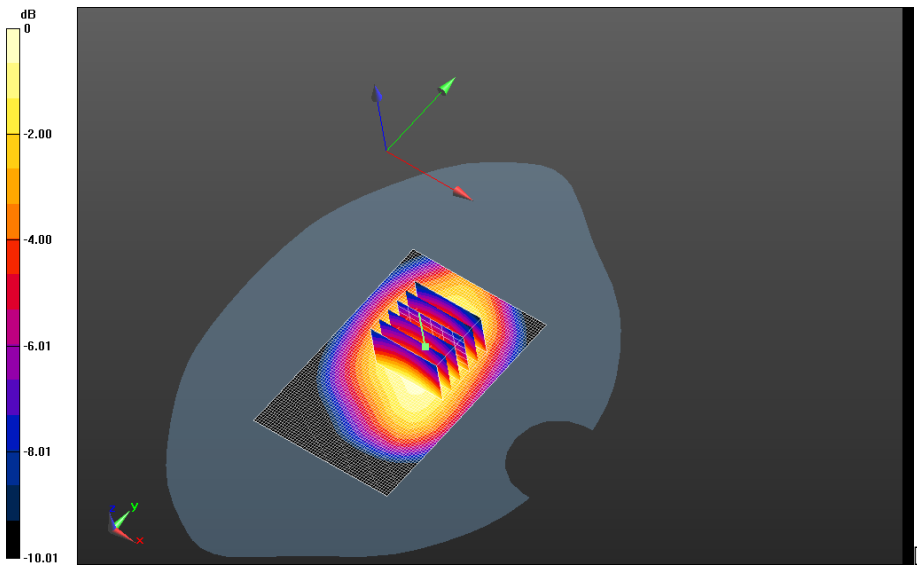


	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 17(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_4-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 27.638 V/m; **Power Drift = -0.082 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_4-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 27.638 V/m; **Power Drift = -0.082 dB**

Averaged SAR: SAR(1g) = 0.698 W/kg; SAR(10g) = 0.517 W/kg
 Maximum value of SAR (interpolated) = 0.910 W/kg




0 dB = 0.951 W/kg = -0.22 dBW/kg



Document		Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report		Page 18(117)
Author Data	Dates of Test	Test Report No	FCC ID:	IC
Andrew Becker	Mar 04 – May 30, 2013	RTS-6036-1305-06B	L6ARFR100LW	2503A-RFR100LW

UMTS Band V

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 19(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 3/15/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Mobile Hot Spot MSL - UMTS Band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;

Frequency: 826.4 MHz

Medium Parameters used: $f=826.4$ MHz; $\sigma = 0.965$ S/m; $\epsilon_r = 53.050$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -

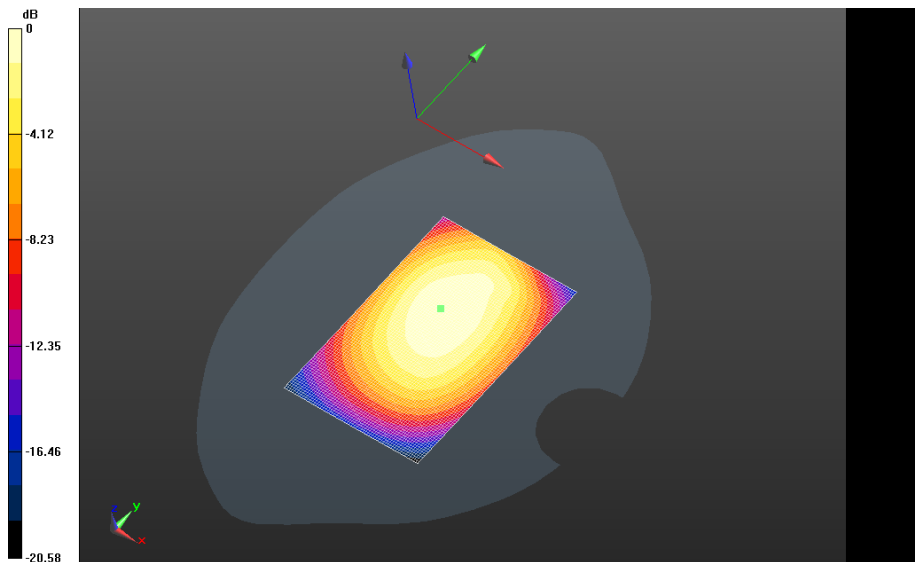
UMTS_Band_V_chan4132_amb_temp_23.3C_liq_temp_21.0C/Area Scan (61x91x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm


Reference Value = 29.252 V/m; **Power Drift = -0.022 dB**

Fast SAR: SAR(1g) = 0.756 W/kg; SAR(10g) = 0.524 W/kg

Maximum value of SAR (interpolated) = 0.859 W/kg



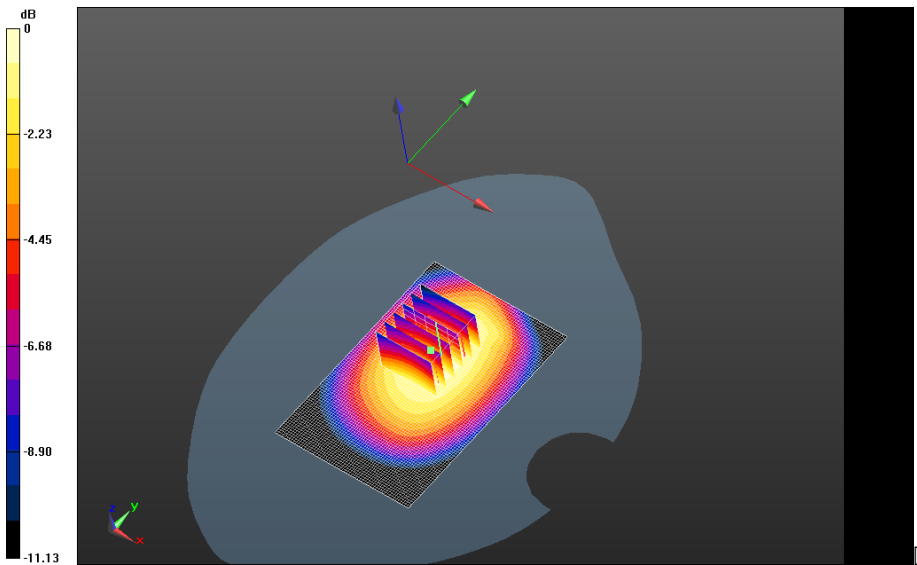
0 dB = 0.859 W/kg = -0.66 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 20(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -
UMTS_Band_V_chan4182_amb_temp_23.6C_liq_temp_21.0C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 29.386 V/m; **Power Drift = -0.022 dB**

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -
UMTS_Band_V_chan4182_amb_temp_23.6C_liq_temp_21.0C/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 29.386 V/m; **Power Drift = -0.022 dB**

Averaged SAR: SAR(1g) = 0.798 W/kg; SAR(10g) = 0.588 W/kg
 Maximum value of SAR (interpolated) = 1.04 W/kg



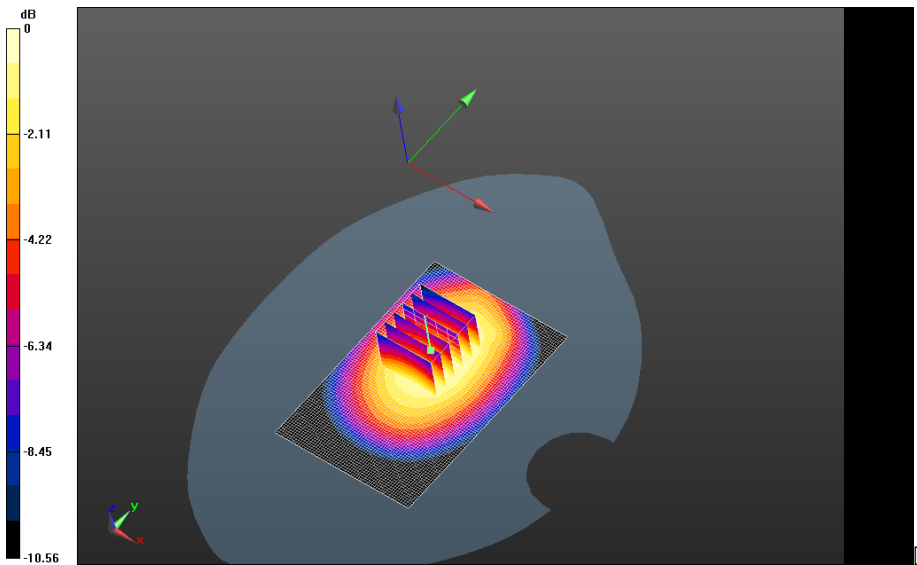
0 dB = 0.859 W/kg = -0.66 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 21(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS_Band_V_chan4182_2nd_Scan_amb_temp_23.6C_liq_temp_21.0C 2/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 29.729 V/m; **Power Drift = -0.066 dB**

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS_Band_V_chan4182_2nd_Scan_amb_temp_23.6C_liq_temp_21.0C 2/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 29.729 V/m; **Power Drift = -0.066 dB**

Averaged SAR: SAR(1g) = 0.831 W/kg; SAR(10g) = 0.615 W/kg
 Maximum value of SAR (interpolated) = 1.08 W/kg

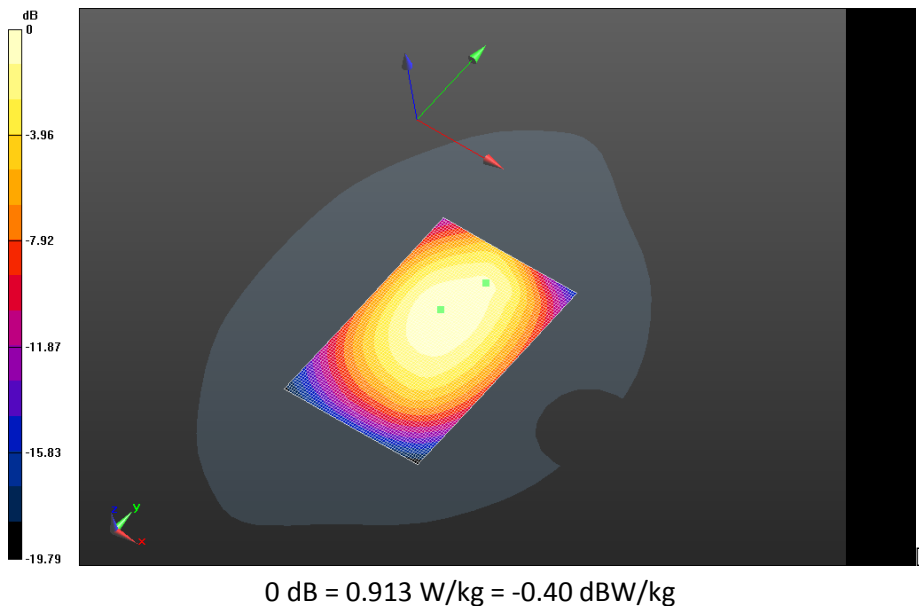



0 dB = 0.885 W/kg = -0.53 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 22(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -
UMTS_Band_V_chan4233_amb_temp_23.9C_liq_temp_21.0C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 28.024 V/m; **Power Drift = -0.019 dB**

Fast SAR: SAR(1g) = 0.731 W/kg; SAR(10g) = 0.505 W/kg
 Maximum value of SAR (interpolated) = 0.834 W/kg

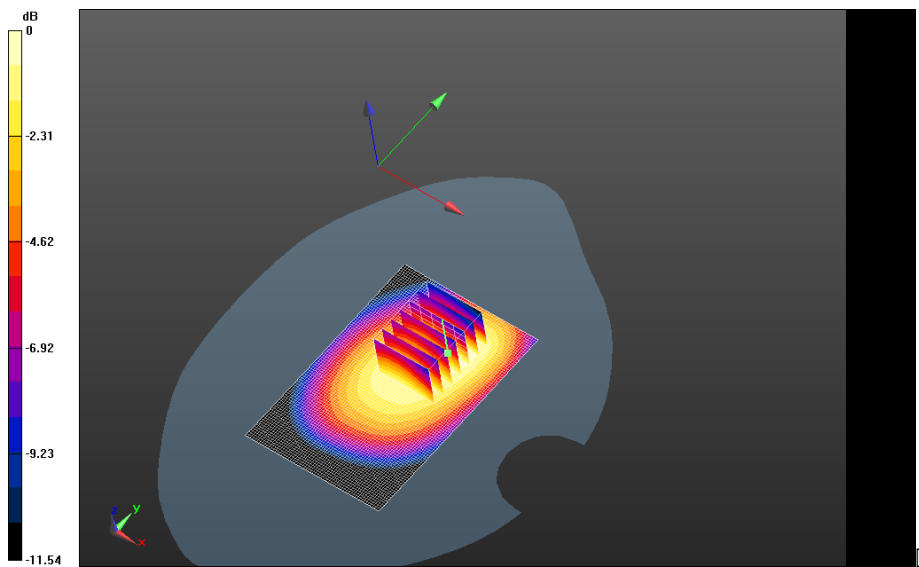


	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 23(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band V/10mm Device Front -
UMTS_Band_V_chan4182_amb_temp_23.3C_liq_temp_21.0C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 23.580 V/m; **Power Drift = 0.004 dB**

Mobile Hot Spot MSL - UMTS Band V/10mm Device Front -
UMTS_Band_V_chan4182_amb_temp_23.3C_liq_temp_21.0C/Zoom Scan (26x31x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 23.580 V/m; **Power Drift = 0.004 dB**

Averaged SAR: SAR(1g) = 0.556 W/kg; SAR(10g) = 0.409 W/kg
 Maximum value of SAR (interpolated) = 0.754 W/kg



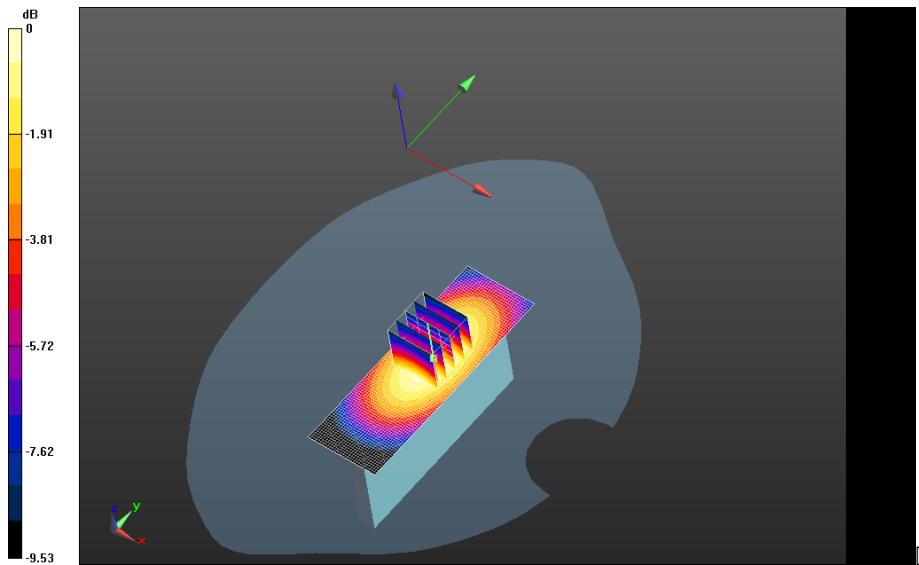
0 dB = 0.834 W/kg = -0.79 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 24(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band V/10mm Device Left -
UMTS_Band_V_chan4182_amb_temp_23.9C_liq_temp_21.0C/Area Scan (31x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 23.360 V/m; **Power Drift = -0.066 dB**

Mobile Hot Spot MSL - UMTS Band V/10mm Device Left -
UMTS_Band_V_chan4182_amb_temp_23.9C_liq_temp_21.0C/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 23.360 V/m; **Power Drift = -0.066 dB**

Averaged SAR: SAR(1g) = 0.443 W/kg; SAR(10g) = 0.307 W/kg
 Maximum value of SAR (interpolated) = 0.615 W/kg



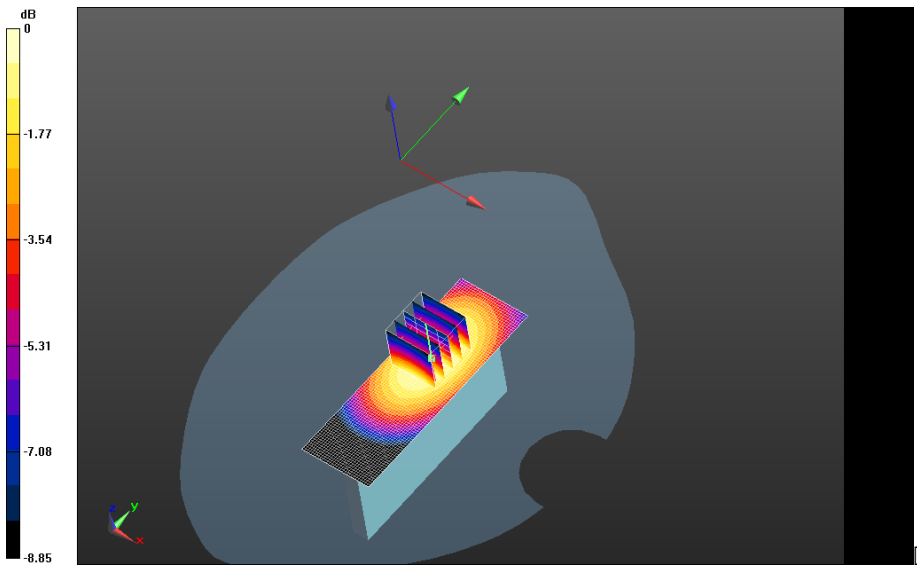
0 dB = 0.625 W/kg = -2.04 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 25(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band V/10mm Device Right -
UMTS_Band_V_chan4182_amb_temp_23.9C_liq_temp_21.0C/Area Scan (31x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 21.547 V/m; **Power Drift = 0.048 dB**

Mobile Hot Spot MSL - UMTS Band V/10mm Device Right -
UMTS_Band_V_chan4182_amb_temp_23.9C_liq_temp_21.0C/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 21.547 V/m; **Power Drift = 0.048 dB**

Averaged SAR: SAR(1g) = 0.422 W/kg; SAR(10g) = 0.298 W/kg
 Maximum value of SAR (interpolated) = 0.572 W/kg



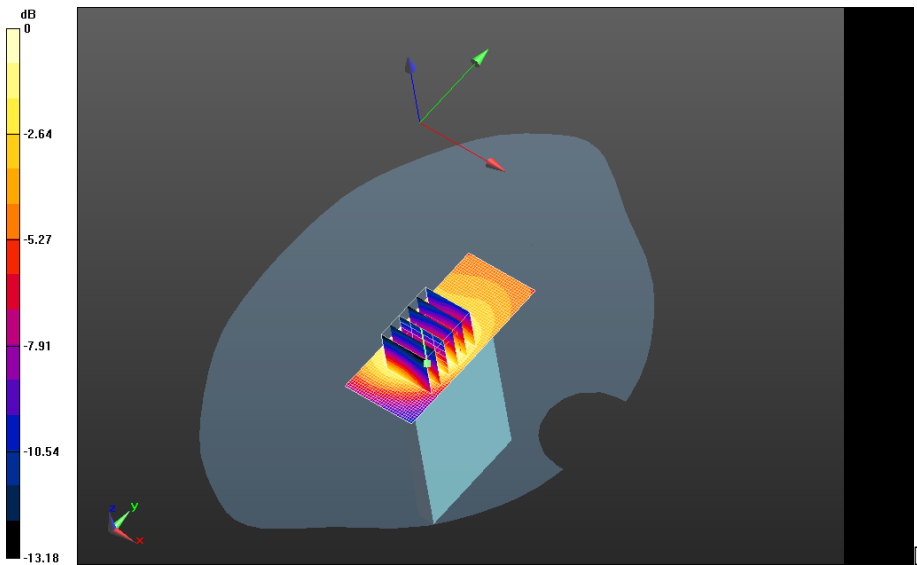
0 dB = 0.507 W/kg = -2.95 dBW/kg


	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 26(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - UMTS Band V/10mm Device Bottom -
UMTS_Band_V_chan4182_amb_temp_23.9C_liq_temp_21.0C/Area Scan (31x71x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 9.669 V/m; **Power Drift = -0.021 dB**

Mobile Hot Spot MSL - UMTS Band V/10mm Device Bottom -
UMTS_Band_V_chan4182_amb_temp_23.9C_liq_temp_21.0C/Zoom Scan (21x26x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 9.669 V/m; **Power Drift = -0.021 dB**

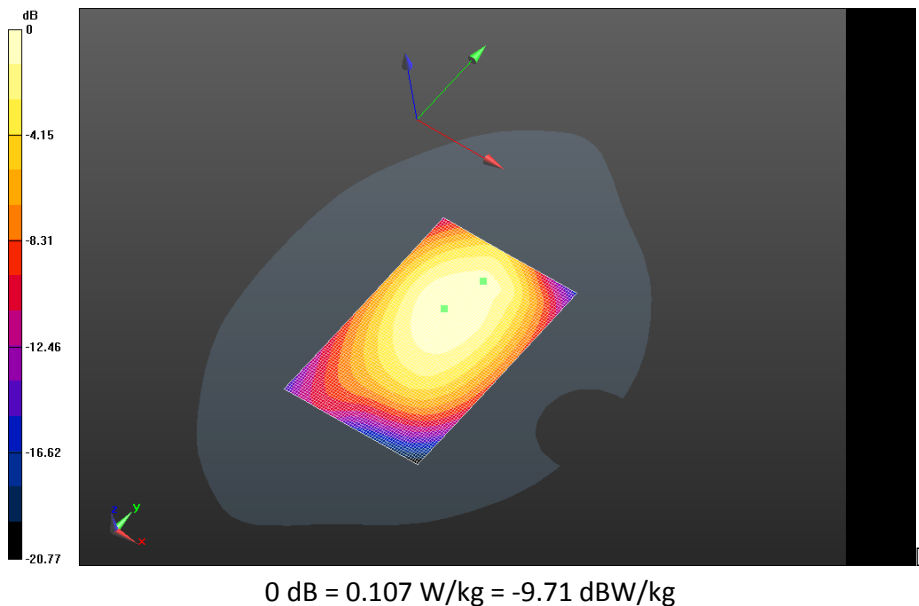
Averaged SAR: SAR(1g) = 0.0971 W/kg; SAR(10g) = 0.0561 W/kg
 Maximum value of SAR (interpolated) = 0.170 W/kg



	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 27(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back+HS -
UMTS_Band_V_chan4182_amb_temp_23.6C_liq_temp_21.0C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 25.163 V/m; **Power Drift = 0.075 dB**

Fast SAR: SAR(1g) = 0.609 W/kg; SAR(10g) = 0.420 W/kg
 Maximum value of SAR (interpolated) = 0.690 W/kg





Document
Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report

Page
28(117)

Author Data
Andrew Becker


Dates of Test
Mar 04 – May 30, 2013

Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW

GPRS 1900

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 29(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 3/24/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Mobile Hot Spot MSL - GPRS 1900

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.513$ S/m; $\epsilon_r = 50.890$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS

1900_mid_chan_amb_temp_23.7C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 12.681 V/m; **Power Drift = 0.082 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS

1900_mid_chan_amb_temp_23.7C_liq_temp_22.0C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 12.681 V/m; **Power Drift = 0.082 dB**

Averaged SAR: SAR(1g) = 0.606 W/kg; SAR(10g) = 0.379 W/kg

Maximum value of SAR (interpolated) = 0.935 W/kg

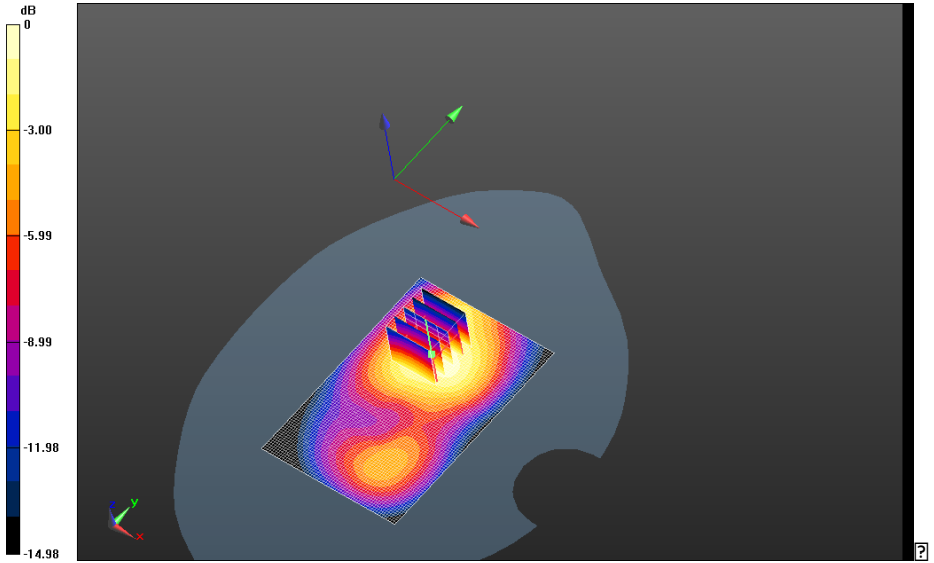
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013


Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW



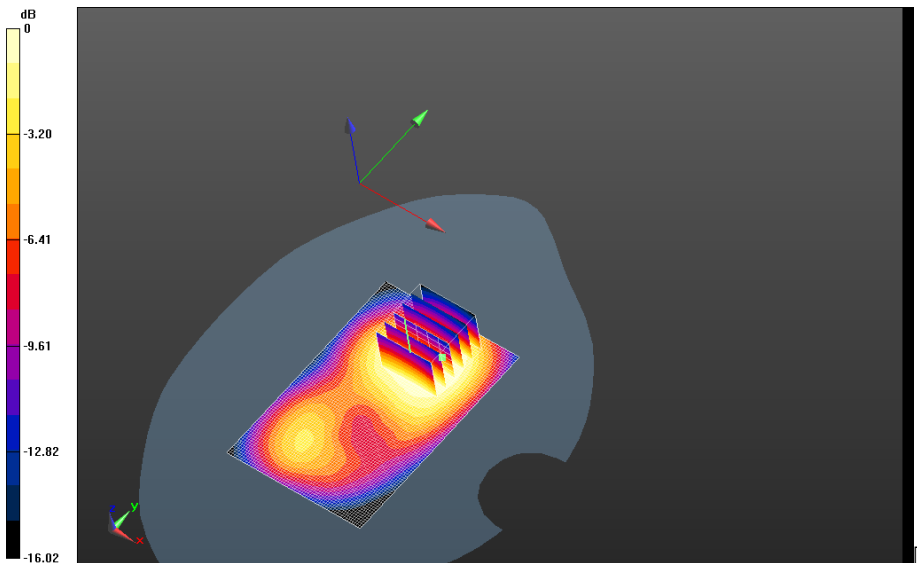
0 dB = 0.711 W/kg = -1.48 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 31(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS
1900_mid_chan_amb_temp_23.0C_liq_temp_21.1C/Area Scan (61x91x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 13.258 V/m; **Power Drift = -0.119 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS
1900_mid_chan_amb_temp_23.0C_liq_temp_21.1C/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 13.258 V/m; **Power Drift = -0.119 dB**

Averaged SAR: SAR(1g) = 0.699 W/kg; SAR(10g) = 0.453 W/kg
 Maximum value of SAR (interpolated) = 1.13 W/kg



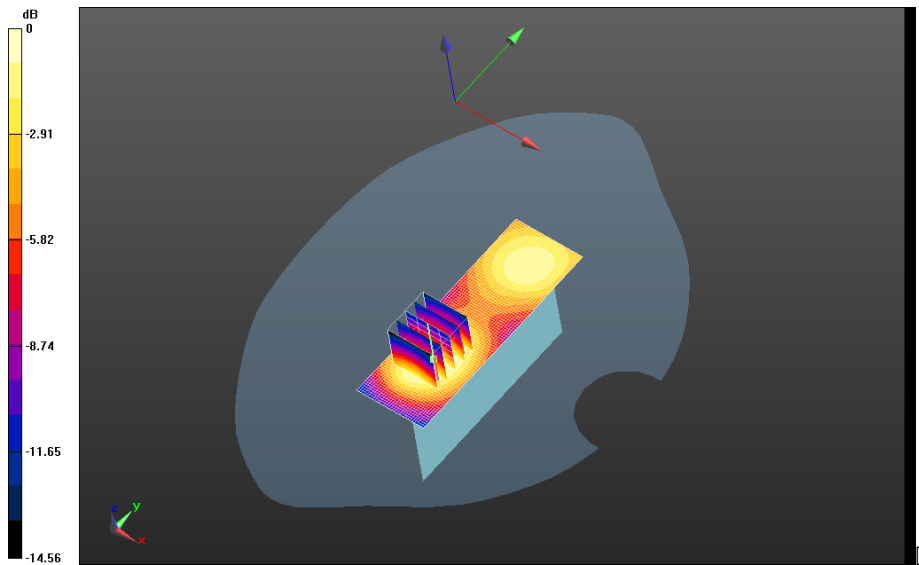
0 dB = 0.711 W/kg = -1.48 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 32(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - GPRS 1900/10mm Device Right - GPRS
1900_mid_chan_amb_temp_23.4C_liq_temp_21.5C/Area Scan (31x91x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 8.545 V/m; **Power Drift = -0.106 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Right - GPRS
1900_mid_chan_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 13.148 V/m; **Power Drift = -0.106 dB**

Averaged SAR: SAR(1g) = 0.239 W/kg; SAR(10g) = 0.143 W/kg
 Maximum value of SAR (interpolated) = 0.384 W/kg



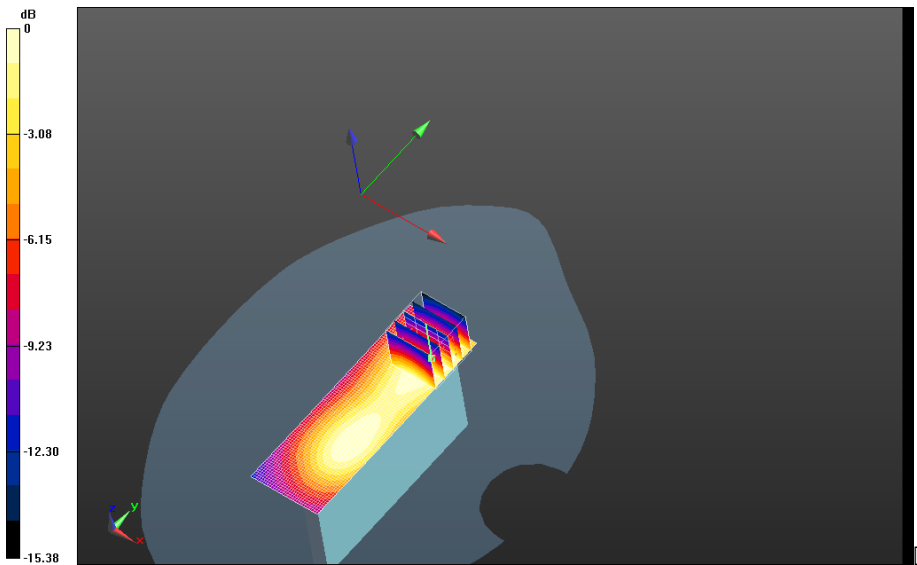
0 dB = 0.741 W/kg = -1.30 dBW/kg


	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 33(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - GPRS 1900/10mm Device Left - GPRS
1900_mid_chan_amb_temp_23.4C_liq_temp_21.5C/Area Scan (31x91x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 12.190 V/m; **Power Drift = -0.084 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Left - GPRS
1900_mid_chan_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 12.190 V/m; **Power Drift = -0.084 dB**

Averaged SAR: SAR(1g) = 0.237 W/kg; SAR(10g) = 0.141 W/kg
 Maximum value of SAR (interpolated) = 0.390 W/kg

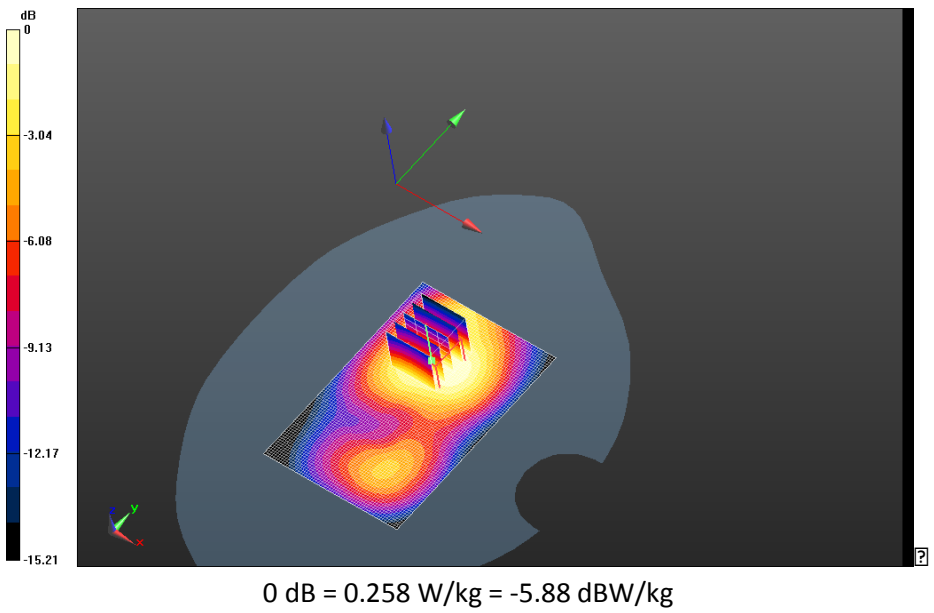



	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 34(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back+HS - GPRS
1900_mid_chan_amb_temp_23.2C_liq_temp_21.4C/Area Scan (61x91x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 12.473 V/m; **Power Drift = 0.00112 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back+HS - GPRS
1900_mid_chan_amb_temp_23.2C_liq_temp_21.4C/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 12.473 V/m; **Power Drift = 0.00112 dB**

Averaged SAR: SAR(1g) = 0.598 W/kg; SAR(10g) = 0.373 W/kg
 Maximum value of SAR (interpolated) = 0.927 W/kg

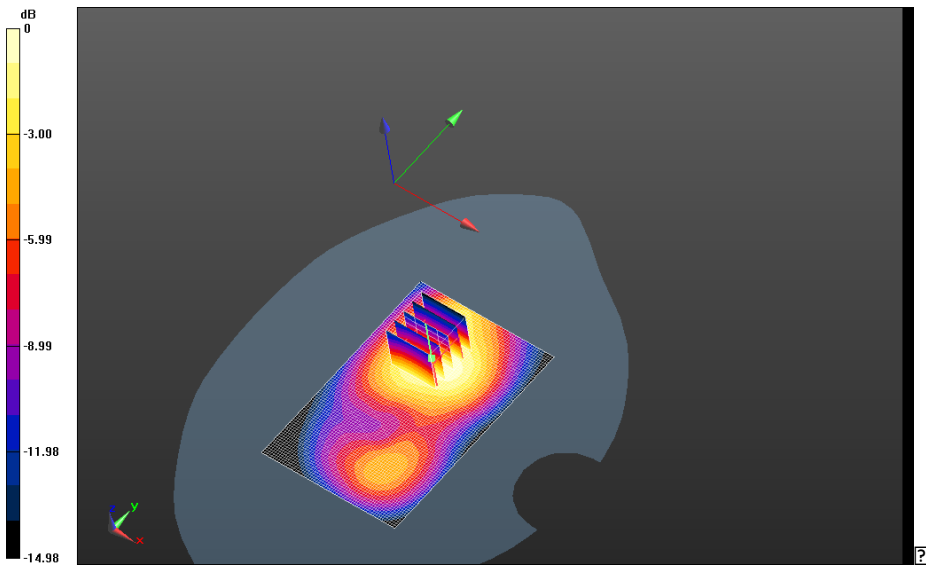


	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 35(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_3-slot_mid_chan_amb_temp_23.3C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 12.265 V/m; **Power Drift = 0.012 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_3-slot_mid_chan_amb_temp_23.3C_liq_temp_21.5C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.265 V/m; **Power Drift = 0.012 dB**

Averaged SAR: SAR(1g) = 0.562 W/kg; SAR(10g) = 0.351 W/kg
Maximum value of SAR (interpolated) = 0.870 W/kg



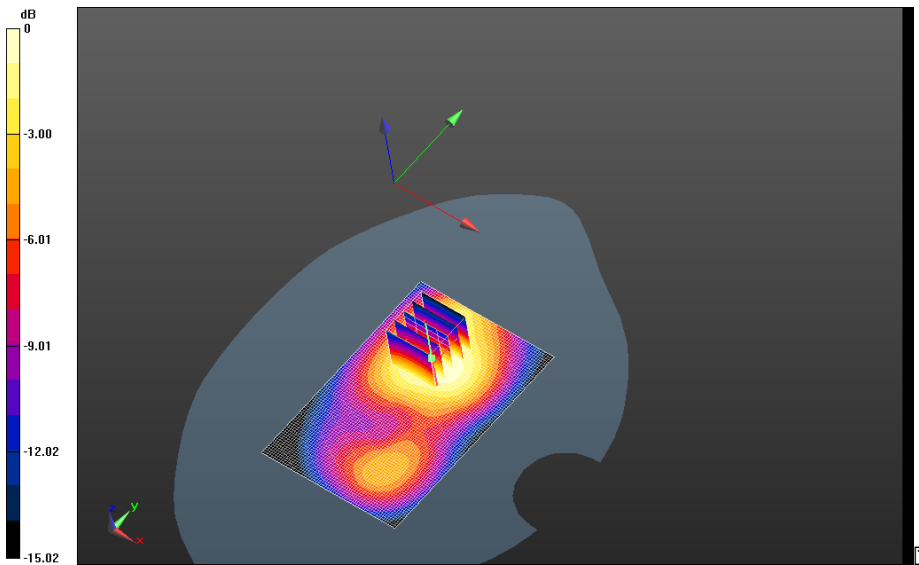
0 dB = 0.643 W/kg = -1.92 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 36(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_4-slot_mid_chan_amb_temp_23.3C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 11.856 V/m; **Power Drift = 0.030 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_4-slot_mid_chan_amb_temp_23.3C_liq_temp_21.5C/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 11.856 V/m; **Power Drift = 0.030 dB**

Averaged SAR: SAR(1g) = 0.524 W/kg; SAR(10g) = 0.328 W/kg
 Maximum value of SAR (interpolated) = 0.791 W/kg



0 dB = 0.660 W/kg = -1.80 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 37(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date/Time: 5/13/2013 5:42:25 AM

Test Laboratory: RIM Testing Services

MHS_Bottom_EDGE1900-Rev2-01

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.517$ S/m; $\epsilon_r = 51.026$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

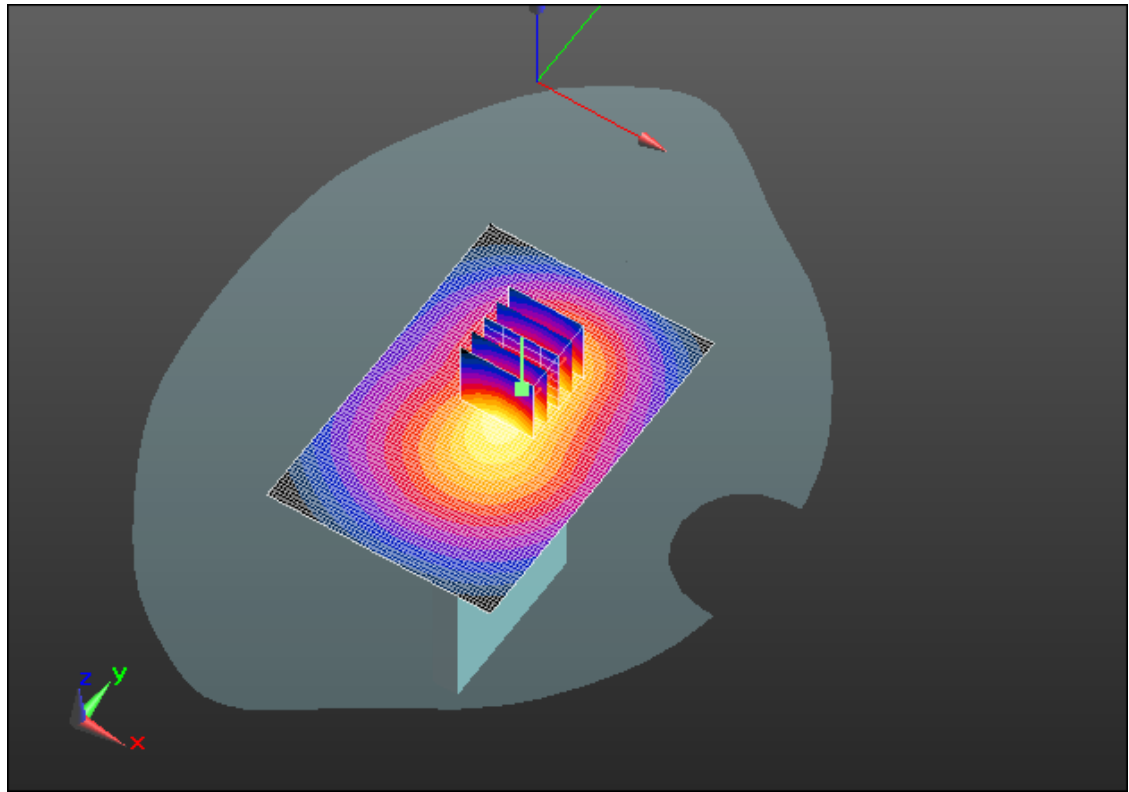
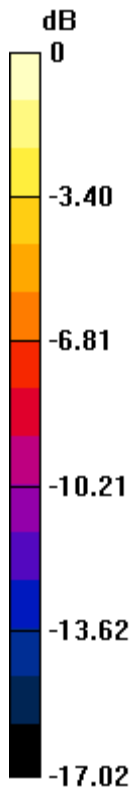
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.04, 5.04, 5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Mobile Hot Spot MSL - GPRS 1900 Bottom/10mm Device Bottom - GPRS 1900_2-slot_mid_chan_amb_temp_23.3C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.528 W/kg

Mobile Hot Spot MSL - GPRS 1900 Bottom/10mm Device Bottom - GPRS 1900_2-slot_mid_chan_amb_temp_23.3C_liq_temp_21.5C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
Reference Value = 17.201 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.758 W/kg
SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.240 W/kg
Maximum value of SAR (measured) = 0.559 W/kg



0 dB = 0.559 W/kg = -2.53 dBW/kg



Document
Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report

Page
39(117)

Author Data
Andrew Becker


Dates of Test
Mar 04 – May 30, 2013

Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW

UMTS Band II

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 40(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 4/9/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Mobile Hot Spot MSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.515$ S/m; $\epsilon_r = 50.915$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 13.621 V/m; **Power Drift = -0.081 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 22.846 V/m; **Power Drift = -0.081 dB**

Averaged SAR: SAR(1g) = 0.648 W/kg; SAR(10g) = 0.412 W/kg

Maximum value of SAR (interpolated) = 0.977 W/kg

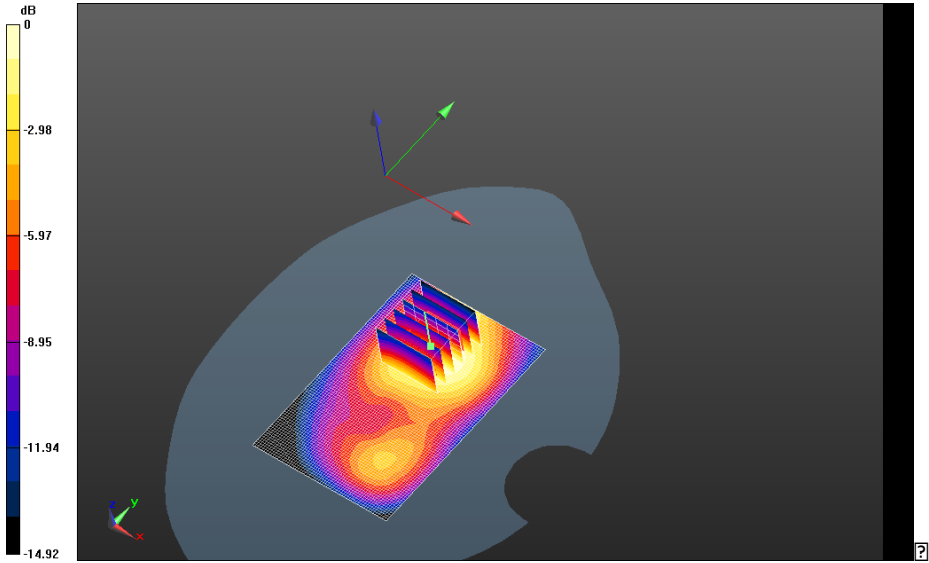
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013


Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW

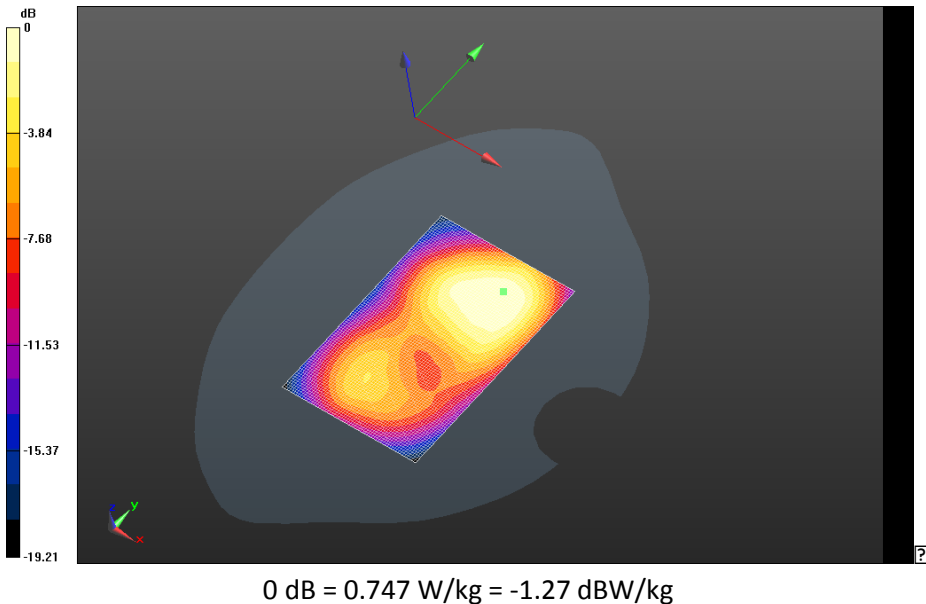



0 dB = 0.747 W/kg = -1.27 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 42(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -
UMTS_II_chan9262_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 14.386 V/m; **Power Drift = 0.00824 dB**

Fast SAR: SAR(1g) = 0.932 W/kg; SAR(10g) = 0.584 W/kg; Secondary SAR(1g) = 0.388 W/kg
 Maximum value of SAR (interpolated) = 1.12 W/kg

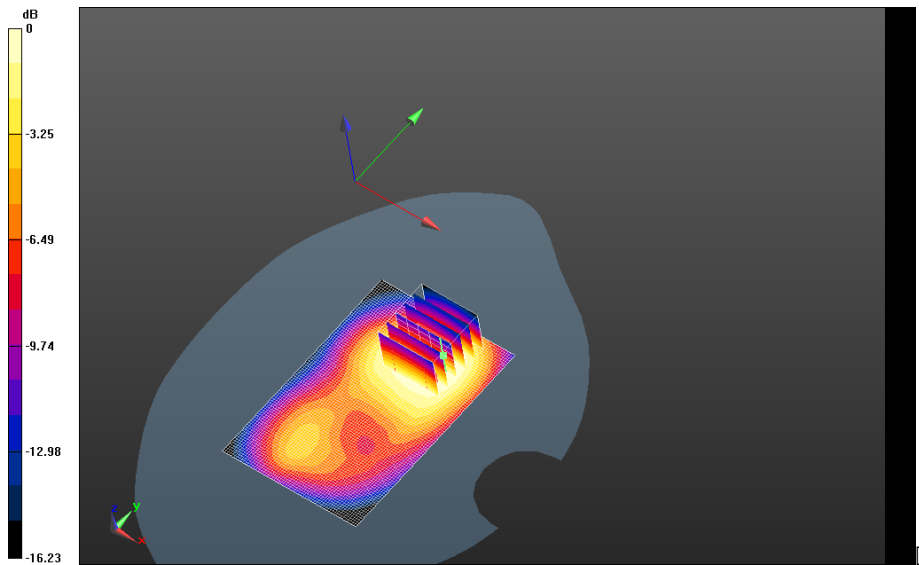


	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 43(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band II/10mm Device Front - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 15.650 V/m; **Power Drift = -0.020 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Front - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 27.010 V/m; **Power Drift = -0.020 dB**

Averaged SAR: SAR(1g) = 0.876 W/kg; SAR(10g) = 0.571 W/kg
 Maximum value of SAR (interpolated) = 1.43 W/kg



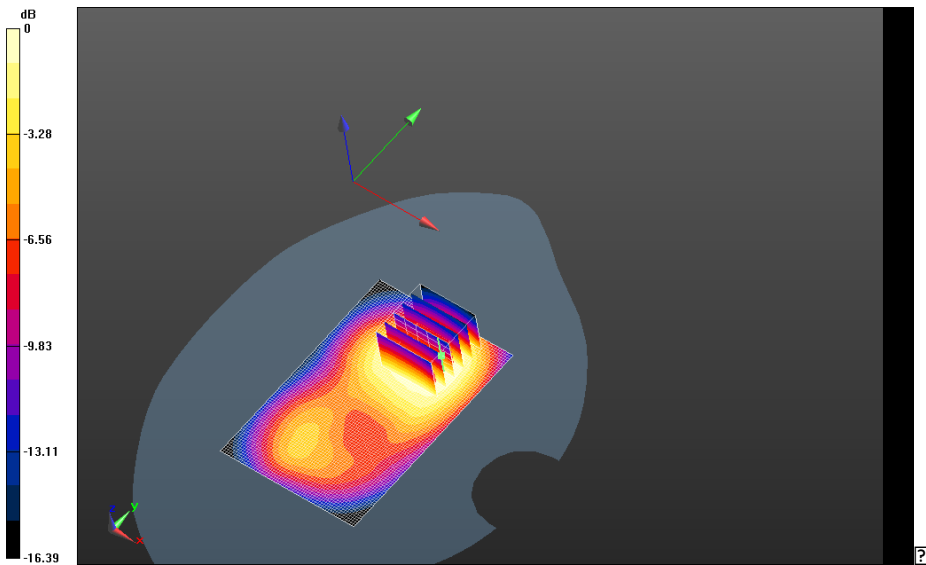
0 dB = 1.12 W/kg = 0.49 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 44(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -
UMTS_II_chan9538_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 15.584 V/m; **Power Drift = 0.079 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -
UMTS_II_chan9538_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 27.292 V/m; **Power Drift = 0.079 dB**

Averaged SAR: SAR(1g) = 0.933 W/kg; SAR(10g) = 0.600 W/kg
 Maximum value of SAR (interpolated) = 1.56 W/kg



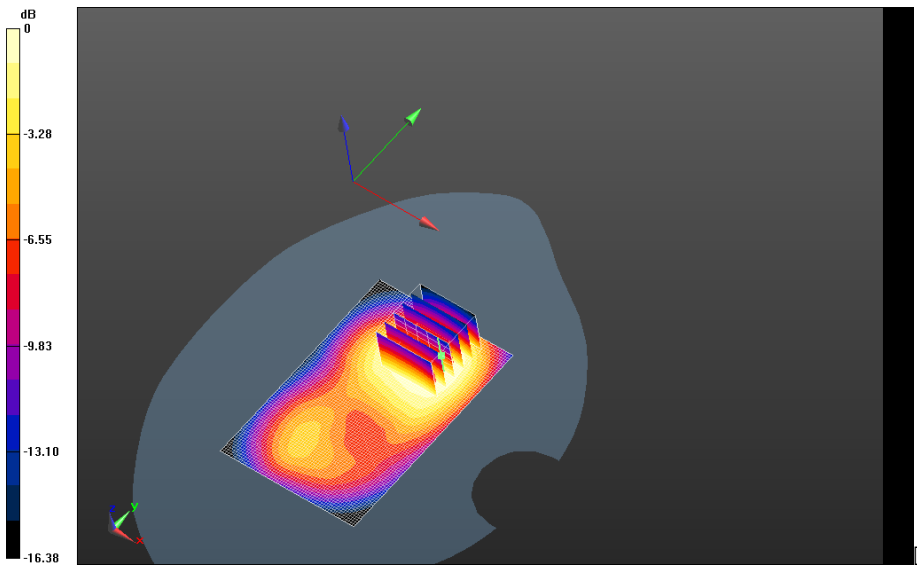
0 dB = 1.02 W/kg = 0.09 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 45(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -
UMTS_II_chan9538_amb_temp_23.3C_liq_temp_21.2C_2nd_Scan/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 15.631 V/m; **Power Drift = -0.018 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -
UMTS_II_chan9538_amb_temp_23.3C_liq_temp_21.2C_2nd_Scan/Zoom Scan
(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 27.535 V/m; **Power Drift = -0.018 dB**

Averaged SAR: SAR(1g) = 0.924 W/kg; SAR(10g) = 0.595 W/kg
 Maximum value of SAR (interpolated) = 1.54 W/kg



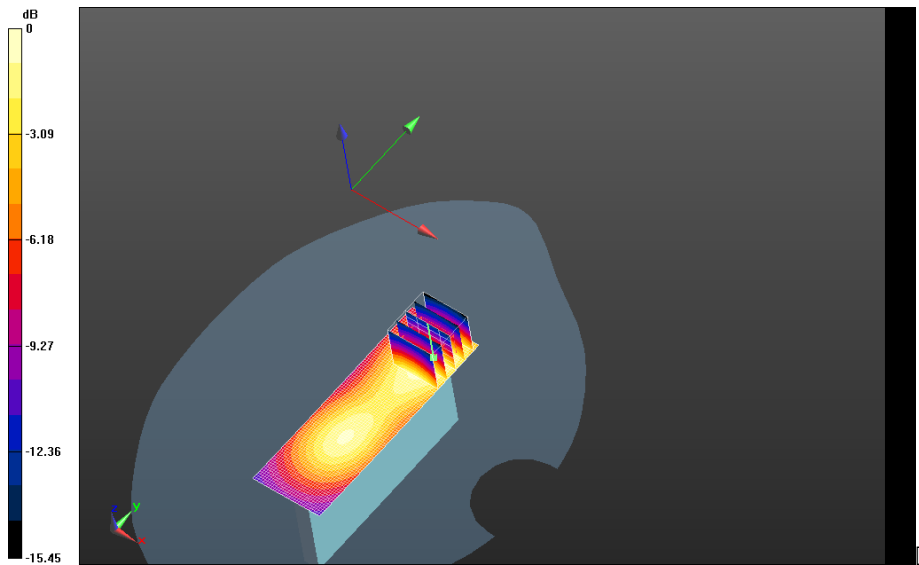
0 dB = 1.09 W/kg = 0.37 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 46(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band II/10mm Device Left - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 12.838 V/m; **Power Drift = -0.033 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Left - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 16.278 V/m; **Power Drift = -0.033 dB**

Averaged SAR: SAR(1g) = 0.314 W/kg; SAR(10g) = 0.183 W/kg
 Maximum value of SAR (interpolated) = 0.525 W/kg



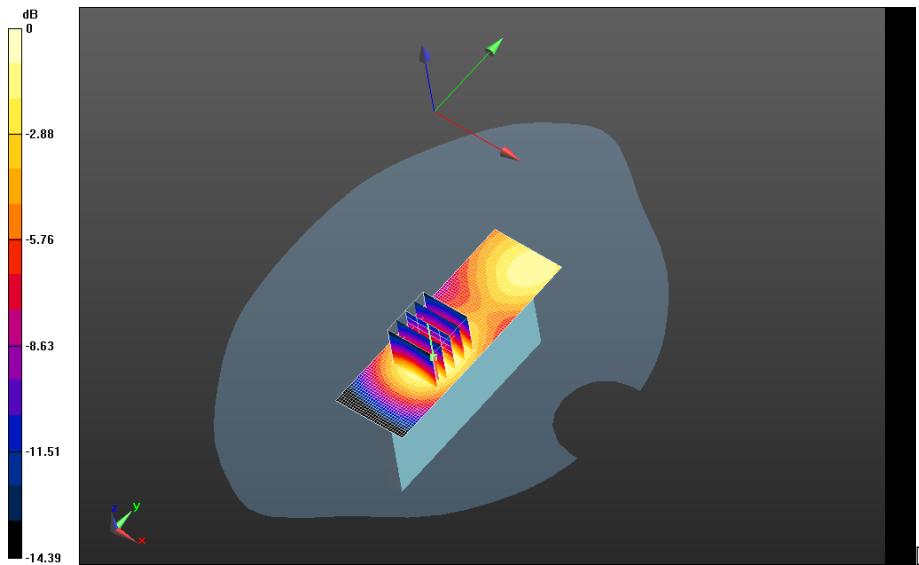
0 dB = 1.08 W/kg = 0.33 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 47(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band II/10mm Device Right - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 11.237 V/m; **Power Drift = -0.097 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Right - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 13.534 V/m; **Power Drift = -0.097 dB**

Averaged SAR: SAR(1g) = 0.236 W/kg; SAR(10g) = 0.141 W/kg
 Maximum value of SAR (interpolated) = 0.375 W/kg



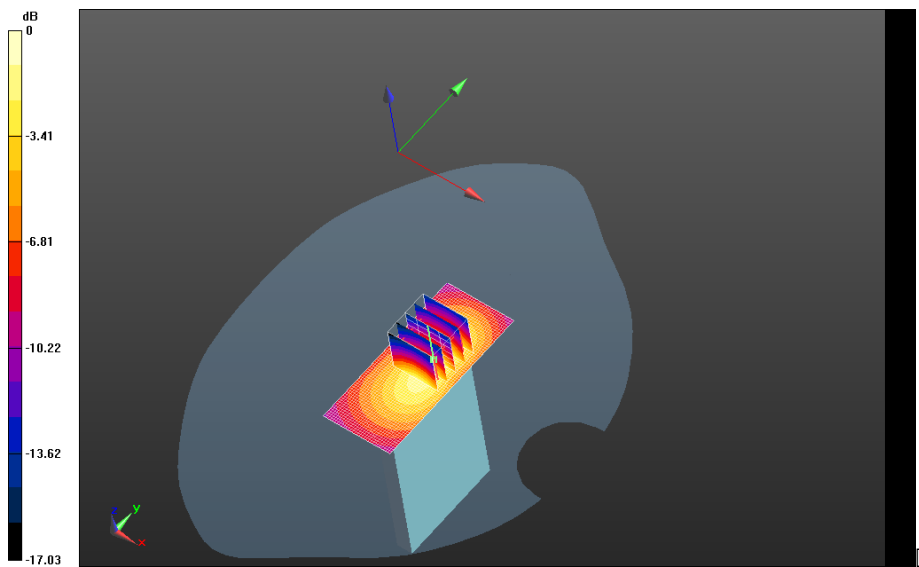
0 dB = 0.382 W/kg = -4.18 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 48(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 18.171 V/m; **Power Drift = 0.061 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 18.881 V/m; **Power Drift = 0.061 dB**

Averaged SAR: SAR(1g) = 0.491 W/kg; SAR(10g) = 0.265 W/kg
 Maximum value of SAR (interpolated) = 0.867 W/kg



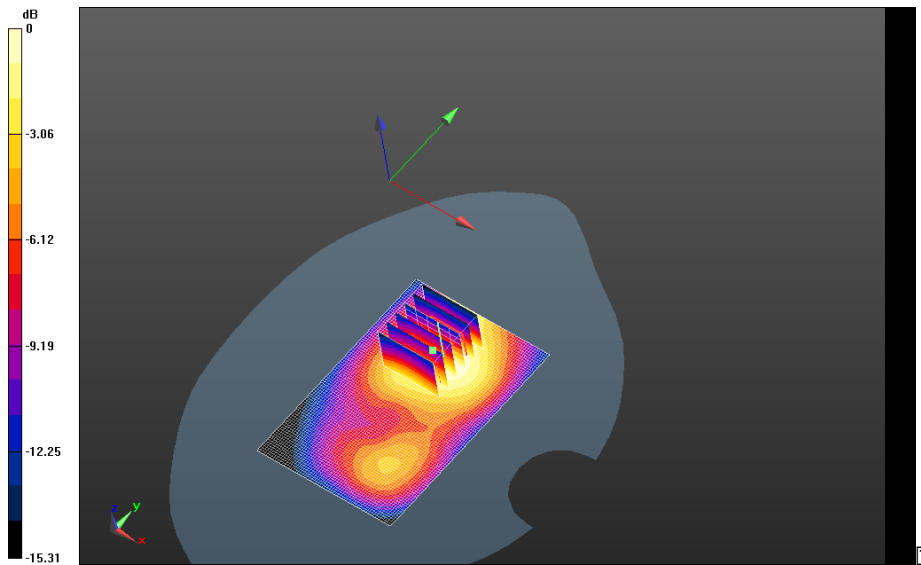
0 dB = 0.283 W/kg = -5.48 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 49(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - UMTS Band II/Headset 10mm Device Back - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 13.410 V/m; **Power Drift = 0.078 dB**

Mobile Hot Spot MSL - UMTS Band II/Headset 10mm Device Back - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 22.671 V/m; **Power Drift = 0.078 dB**

Averaged SAR: SAR(1g) = 0.640 W/kg; SAR(10g) = 0.407 W/kg
 Maximum value of SAR (interpolated) = 0.973 W/kg



0 dB = 0.621 W/kg = -2.07 dBW/kg



Document
Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report

Page
50(117)

Author Data
Andrew Becker


Dates of Test
Mar 04 – May 30, 2013

Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW

802.11b

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 51(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 3/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Flat-Section MSL_MHS_Body_SAR – 802.11b

Communication System: 802.11 b (2450); Communication System Band: 802.11 b;

Frequency: 2437 MHz

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.957$ S/m; $\epsilon_r = 50.407$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.35,4.35,4.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Flat-Section MSL_MHS_Body_SAR/Device

Back_10mm_802.11b_Mid_Chan_Amb_Temp_23.5C_Liquid_Temp_21.6C/Area

Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.337 W/kg

Flat-Section MSL_MHS_Body_SAR/Device Back_10mm_802.11b_Mid_Chan

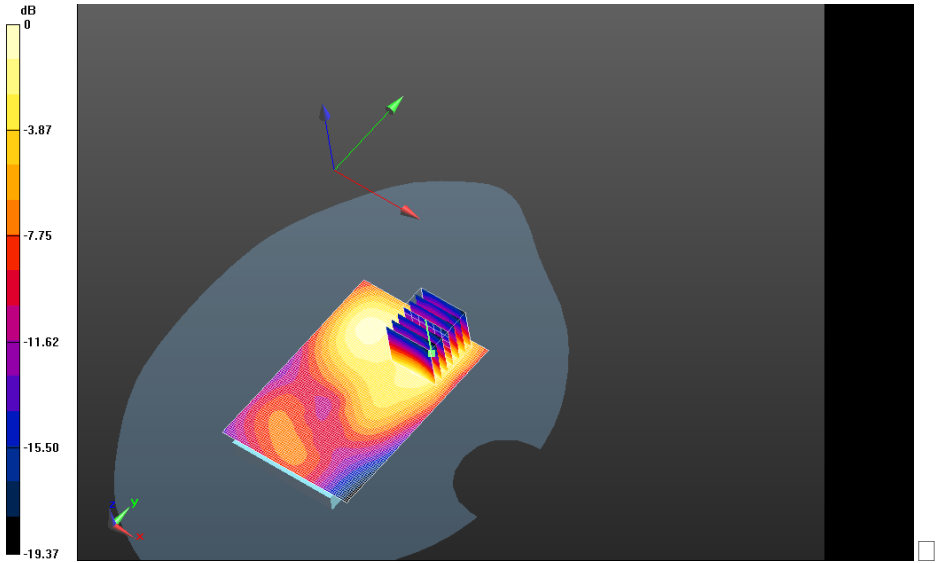
_Amb_Temp_23.5C_Liquid_Temp_21.6C/Zoom Scan (31x31x36)/Cube 0:

Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm


Reference Value = 12.211 V/m; **Power Drift = 0.071 dB**

Averaged SAR: SAR(1g) = 0.267 W/kg; SAR(10g) = 0.144 W/kg

Maximum value of SAR (interpolated) = 0.521 W/kg



0 dB = 0.328 W/kg = -4.84 dBW/kg

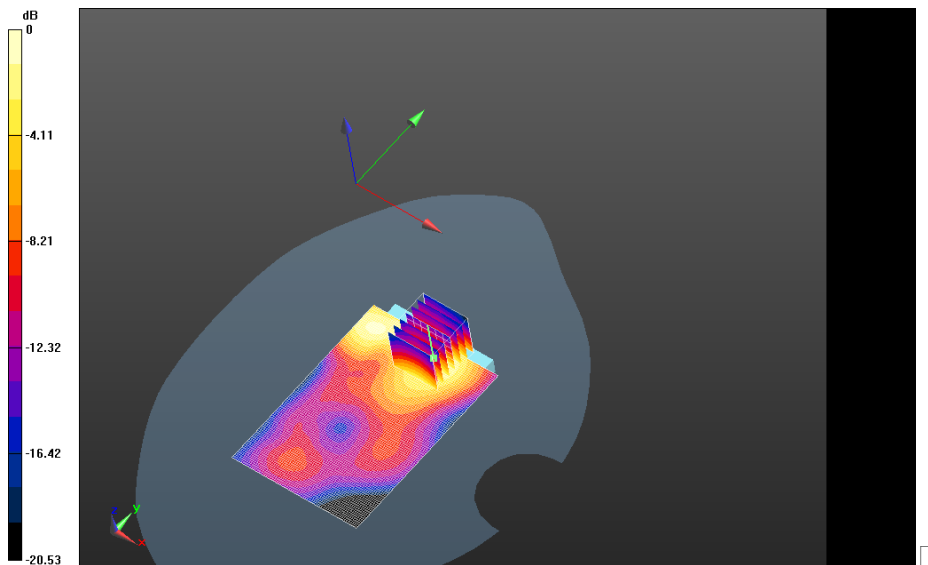
	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 53(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

**Flat-Section MSL_MHS_Body_SAR/Device Front_10mm_802.11b_Mid_Chan
_Amb_Temp_23.7C_Liquid_Temp_22.1C/Area Scan (71x101x1): Interpolated grid:**
dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.218 W/kg


**Flat-Section MSL_MHS_Body_SAR/Device Front_10mm_802.11b_Mid_Chan
_Amb_Temp_23.7C_Liquid_Temp_22.1C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 4.181 V/m; **Power Drift = 0.103 dB**

Averaged SAR: SAR(1g) = 0.202 W/kg; SAR(10g) = 0.112 W/kg
Maximum value of SAR (interpolated) = 0.370 W/kg



0 dB = 0.328 W/kg = -4.84 dBW/kg

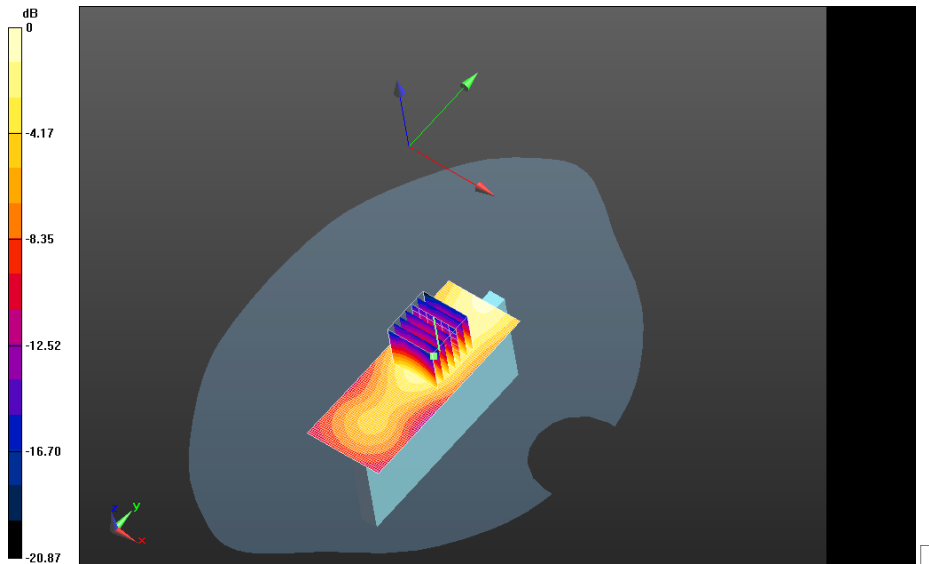
	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 54(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

**Flat-Section MSL_MHS_Body_SAR/Device Right_10mm_802.11b_Mid_Chan
_Amb_Temp_23.3C_Liquid_Temp_21.4C/Area Scan (41x101x1): Interpolated grid:**
dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.139 W/kg


**Flat-Section MSL_MHS_Body_SAR/Device Right_10mm_802.11b_Mid_Chan
_Amb_Temp_23.3C_Liquid_Temp_21.4C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 8.402 V/m; **Power Drift = 0.075 dB**

Averaged SAR: SAR(1g) = 0.129 W/kg; SAR(10g) = 0.0711 W/kg
Maximum value of SAR (interpolated) = 0.244 W/kg



0 dB = 0.249 W/kg = -6.04 dBW/kg

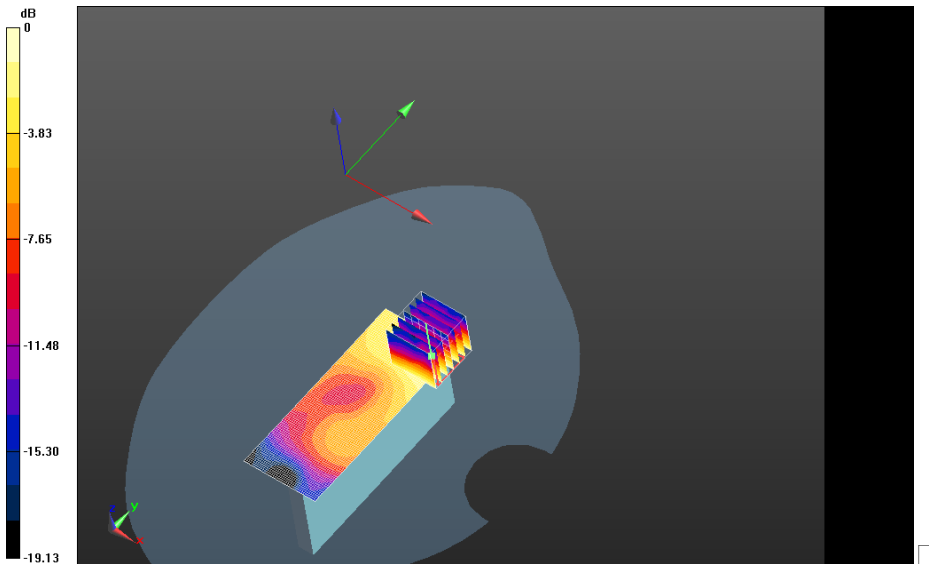
	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 55(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

**Flat-Section MSL_MHS_Body_SAR/Device Left_10mm_802.11b_Mid_Chan
_Amb_Temp_23.3C_Liquid_Temp_21.4C/Area Scan (41x101x1):** Interpolated grid:
dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0529 W/kg


**Flat-Section MSL_MHS_Body_SAR/Device Left_10mm_802.11b_Mid_Chan
_Amb_Temp_23.3C_Liquid_Temp_21.4C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 5.199 V/m; **Power Drift = 0.129 dB**

Averaged SAR: SAR(1g) = 0.0494 W/kg; SAR(10g) = 0.0289 W/kg
Maximum value of SAR (interpolated) = 0.0895 W/kg



0 dB = 0.160 W/kg = -7.96 dBW/kg

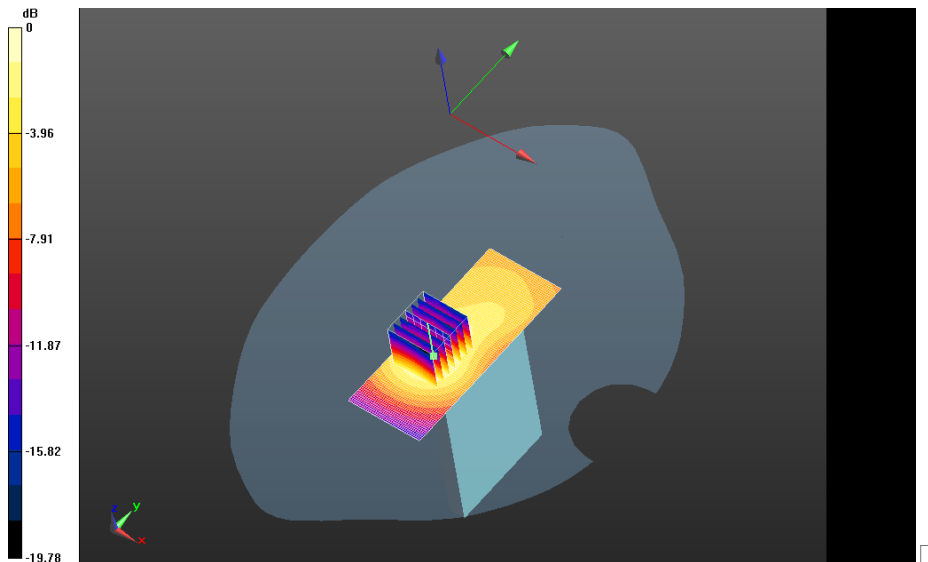
	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 56(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

**Flat-Section MSL_MHS_Body_SAR/Device Bottom_10mm_802.11b_Mid_Chan
_Amb_Temp_23.3C_Liquid_Temp_21.4C/Area Scan (41x101x1):** Interpolated grid:
dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.112 W/kg


**Flat-Section MSL_MHS_Body_SAR/Device
Bottom_10mm_802.11b_Mid_Chan_Amb_Temp_23.3C_Liquid_Temp_21.4C
/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000
mm, dz=1.000 mm

Reference Value = 7.411 V/m; **Power Drift = -0.00647 dB**

Averaged SAR: SAR(1g) = 0.103 W/kg; SAR(10g) = 0.0573 W/kg
Maximum value of SAR (interpolated) = 0.194 W/kg



0 dB = 0.0599 W/kg = -12.23 dBW/kg

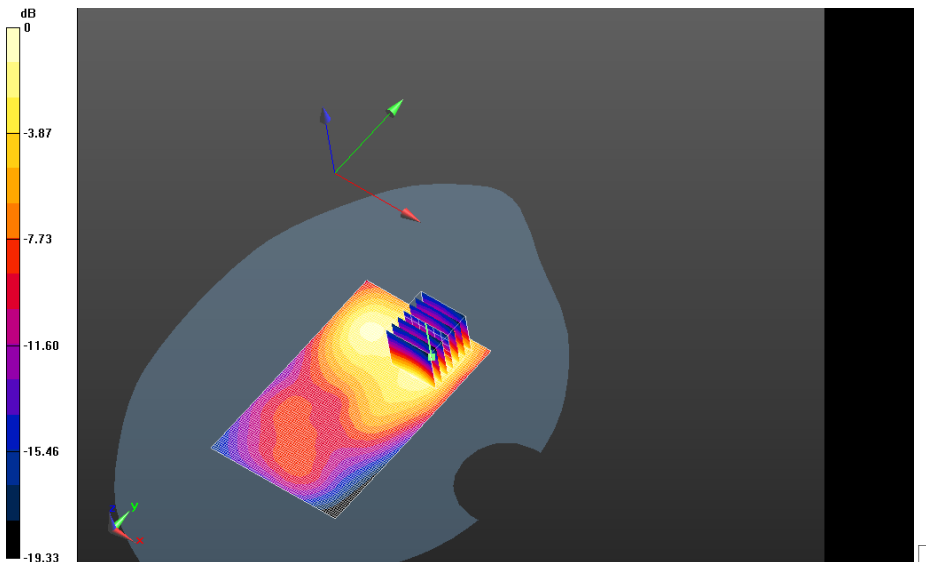
	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 57(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Flat-Section MSL_MHS_Body_SAR/Device Back+HS_10mm_802.11b_Mid_Chan_Amb_Temp_23.6C_Liquid_Temp_21.5C/Area Scan (71x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 0.340 W/kg

Flat-Section MSL_MHS_Body_SAR/Device Back+HS_10mm_802.11b_Mid_Chan_Amb_Temp_23.6C_Liquid_Temp_21.5C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 12.455 V/m; **Power Drift = 0.015 dB**

Averaged SAR: SAR(1g) = 0.277 W/kg; SAR(10g) = 0.149 W/kg
 Maximum value of SAR (interpolated) = 0.540 W/kg



0 dB = 0.126 W/kg = -9.00 dBW/kg



Document
Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report

Page
58(117)

Author Data
Andrew Becker


Dates of Test
Mar 04 – May 30, 2013

Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW

Bluetooth

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 59(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 3/21/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A54

Configuration: Mobile Hot Spot MSL - Bluetooth

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz

Medium Parameters used: $f=2441$ MHz; $\sigma = 1.961$ S/m; $\epsilon_r = 50.399$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.35,4.35,4.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - Bluetooth/10mm Device Back -

Bluetooth_chan39_amb_temp_24.1C_liq_temp_21.6C/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0340 W/kg

Mobile Hot Spot MSL - Bluetooth/10mm Device Back -

Bluetooth_chan39_amb_temp_24.1C_liq_temp_21.6C/Zoom Scan (31x31x36)/Cube 0:

Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 3.899 V/m; **Power Drift = 0.049 dB**

Averaged SAR: SAR(1g) = 0.0262 W/kg; SAR(10g) = 0.0142 W/kg

Maximum value of SAR (interpolated) = 0.0495 W/kg

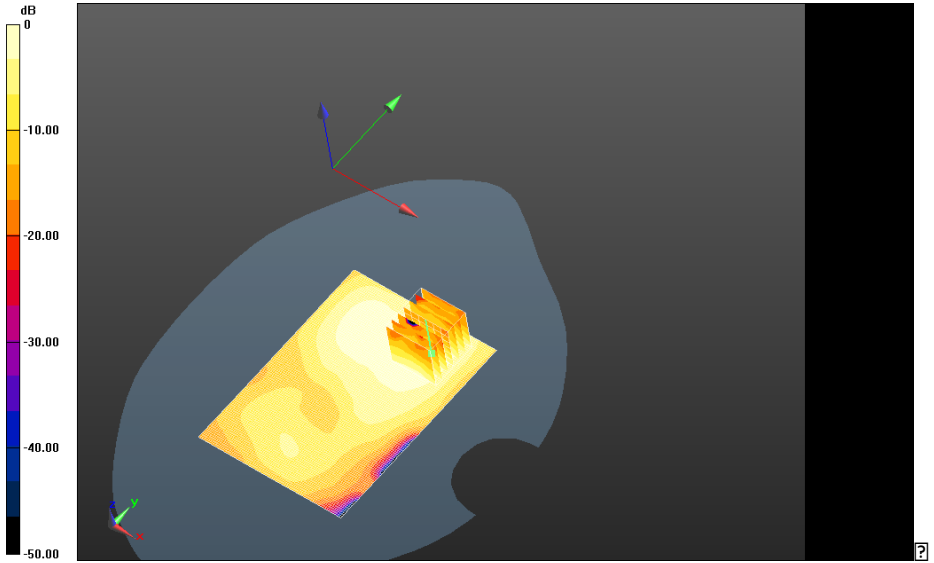
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013

Test Report No
RTS-6036-1305-06B

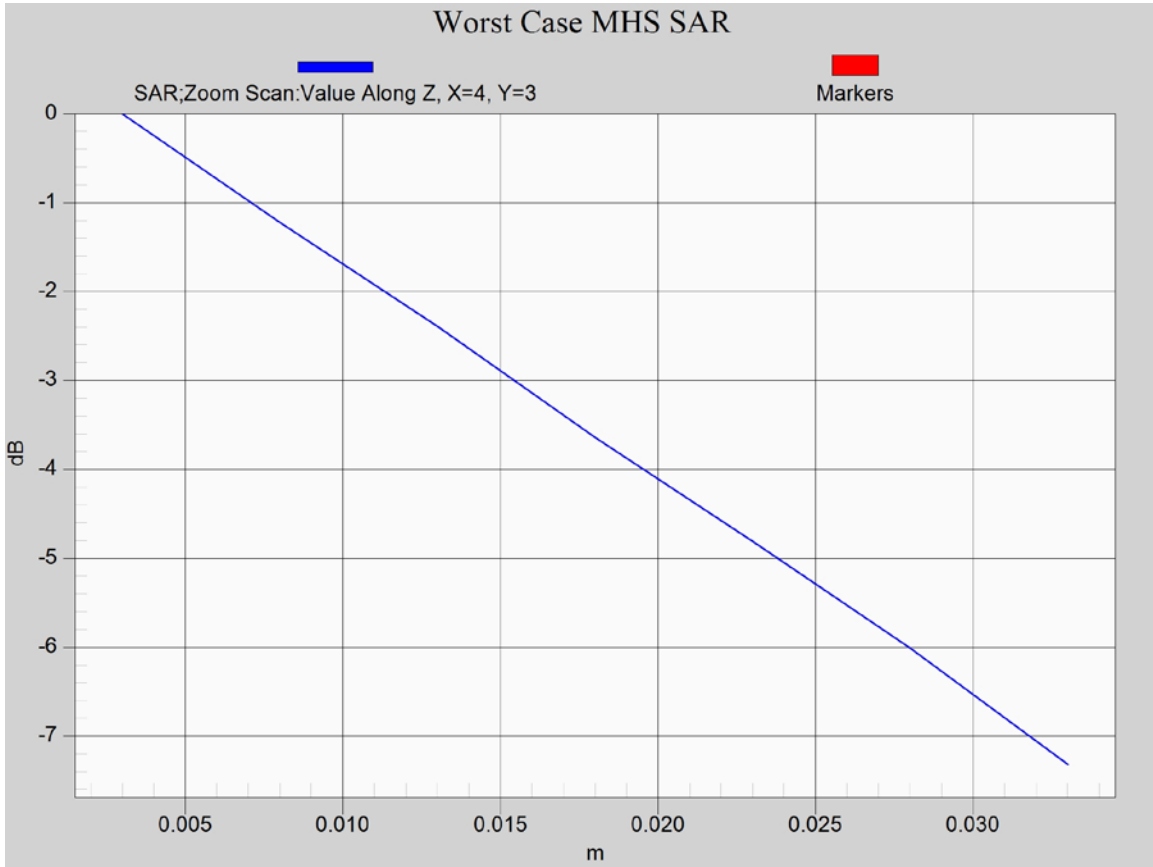
FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW



0 dB = 0.0328 W/kg = -14.84 dBW/kg


Z axis plot for the worst case Hotspot configuration






Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report		Page 62(117)		
Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW	IC 2503A-RFR100LW

Model: RFR101LW

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 63(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

LTE band 17

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 64(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 5/9/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2FFFB6AF

Configuration: Mobile Hot Spot MSL - LTE 17

Communication System: LTE 17; Communication System Band: LTE 17; Frequency: 709 MHz

Medium Parameters used: $f=709$ MHz; $\sigma = 0.914$ S/m; $\epsilon_r = 53.937$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.27,6.27,6.27); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - LTE 17/10mm Device Back -

LTE_17_chan23780_RB1_Off0_amb_temp_23.2C_liq_temp_21.1C/Area Scan (61x91x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.164 W/kg

Mobile Hot Spot MSL - LTE 17/10mm Device Back -

LTE_17_chan23780_RB1_Off0_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan

(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 13.464 V/m; **Power Drift = 0.00108 dB**

Averaged SAR: SAR(1g) = 0.145 W/kg; SAR(10g) = 0.104 W/kg

Maximum value of SAR (interpolated) = 0.198 W/kg

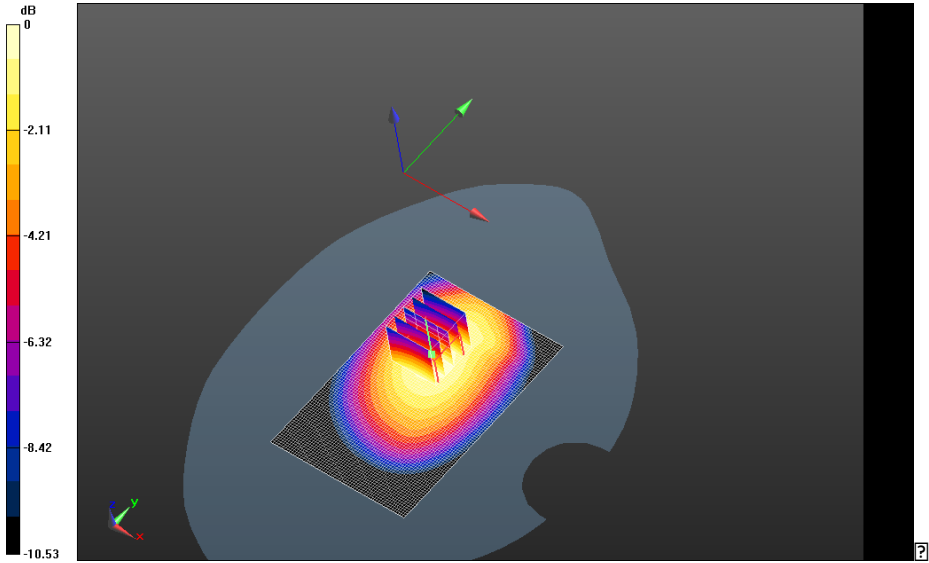
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013


Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW



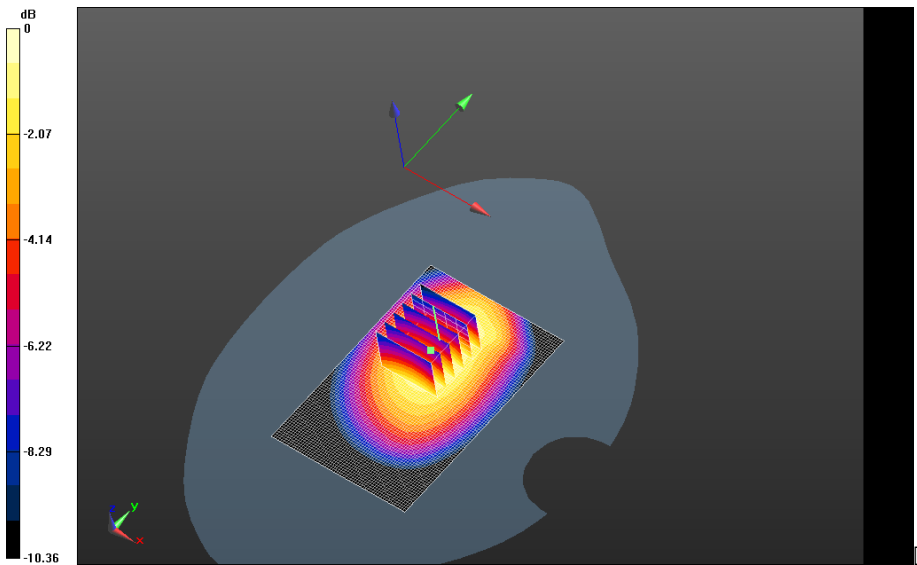
0 dB = 0.163 W/kg = -7.88 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 66(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 17/10mm Device Back -
LTE_17_chan23790_RB25_Off0_amb_temp_23.2C_liq_temp_21.1C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.157 W/kg

Mobile Hot Spot MSL - LTE 17/10mm Device Back -
LTE_17_chan23790_RB25_Off0_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan
(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 13.172 V/m; **Power Drift = -0.00111 dB**

Averaged SAR: SAR(1g) = 0.138 W/kg; SAR(10g) = 0.0998 W/kg
 Maximum value of SAR (interpolated) = 0.190 W/kg



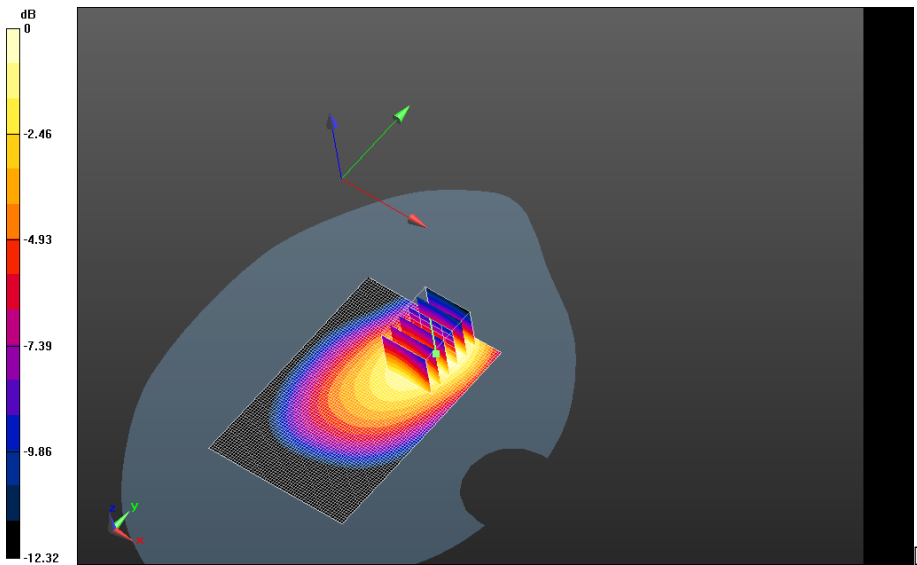
0 dB = 0.163 W/kg = -7.88 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 67(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 17/10mm Device Front -
LTE_17_chan23780_RB1_Off0_amb_temp_23.2C_liq_temp_21.1C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.110 W/kg

Mobile Hot Spot MSL - LTE 17/10mm Device Front -
LTE_17_chan23780_RB1_Off0_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan
(21x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 11.068 V/m; **Power Drift = -0.032 dB**

Averaged SAR: SAR(1g) = 0.0941 W/kg; SAR(10g) = 0.0627 W/kg
 Maximum value of SAR (interpolated) = 0.140 W/kg



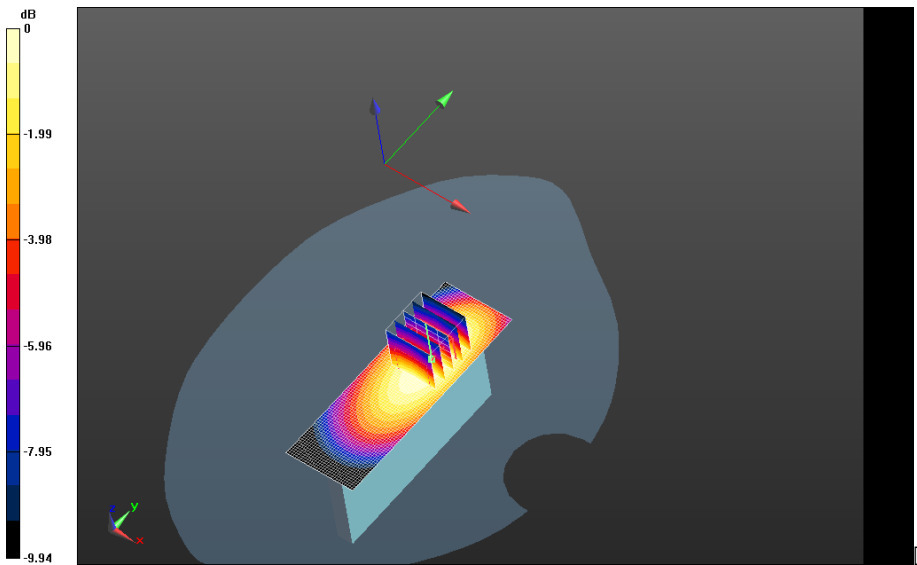
0 dB = 0.155 W/kg = -8.10 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 68(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 17/10mm Device Left -
LTE_17_chan23780_RB1_Off0_amb_temp_23.2C_liq_temp_21.1C/Area Scan (31x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.0524 W/kg

Mobile Hot Spot MSL - LTE 17/10mm Device Left -
LTE_17_chan23780_RB1_Off0_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 7.699 V/m; **Power Drift = 0.062 dB**

Averaged SAR: SAR(1g) = 0.0461 W/kg; SAR(10g) = 0.0318 W/kg
 Maximum value of SAR (interpolated) = 0.0639 W/kg



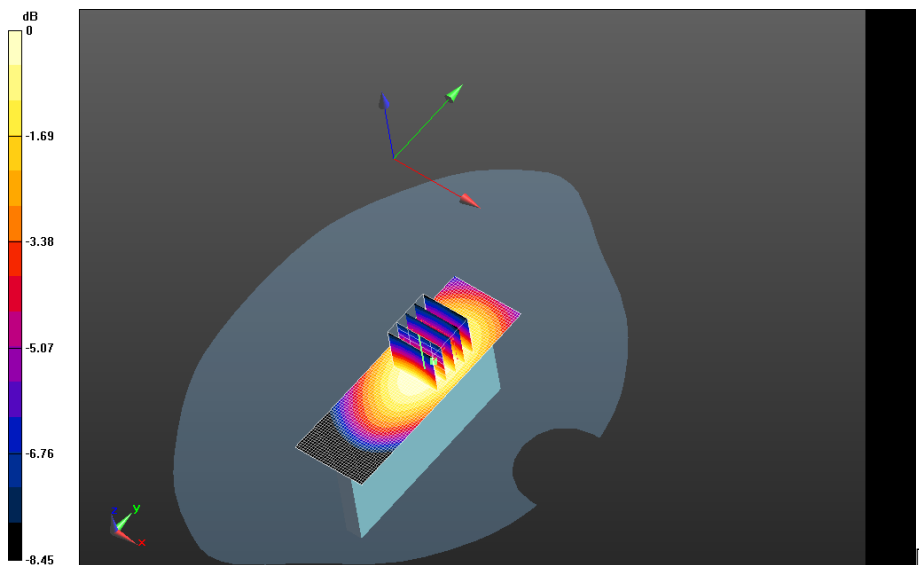
0 dB = 0.101 W/kg = -9.96 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 69(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 17/10mm Device Right -
LTE_17_chan23780_RB1_Off0_amb_temp_23.2C_liq_temp_21.1C/Area Scan (31x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.0332 W/kg

Mobile Hot Spot MSL - LTE 17/10mm Device Right -
LTE_17_chan23780_RB1_Off0_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 6.155 V/m; **Power Drift = 0.00657 dB**

Averaged SAR: SAR(1g) = 0.0300 W/kg; SAR(10g) = 0.0214 W/kg
 Maximum value of SAR (interpolated) = 0.0401 W/kg



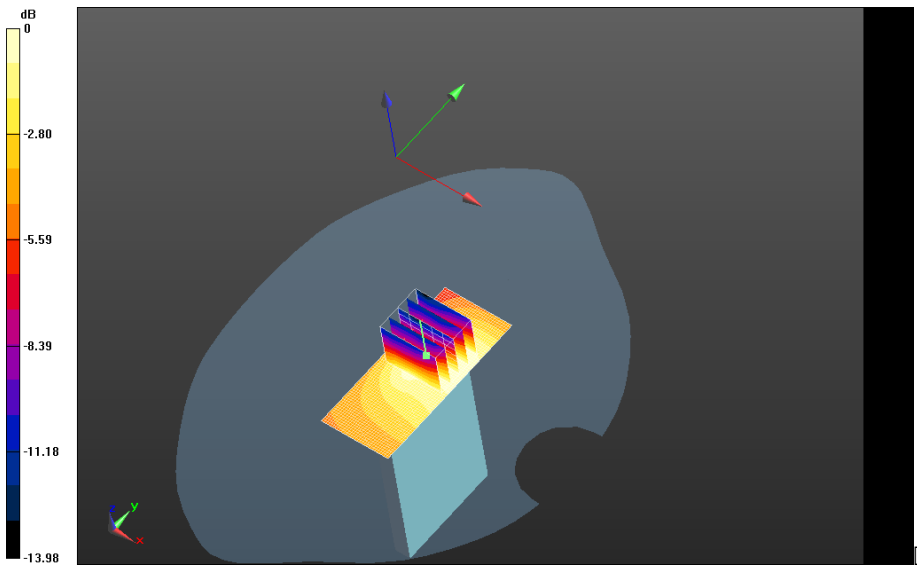
0 dB = 0.0495 W/kg = -13.05 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 70(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 17/10mm Device Bottom -
LTE_17_chan23780_RB1_Off0_amb_temp_23.2C_liq_temp_21.1C/Area Scan (31x71x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.0258 W/kg

Mobile Hot Spot MSL - LTE 17/10mm Device Bottom -
LTE_17_chan23780_RB1_Off0_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan
(26x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 5.152 V/m; **Power Drift = 0.085 dB**

Averaged SAR: SAR(1g) = 0.0203 W/kg; SAR(10g) = 0.0122 W/kg
 Maximum value of SAR (interpolated) = 0.0376 W/kg



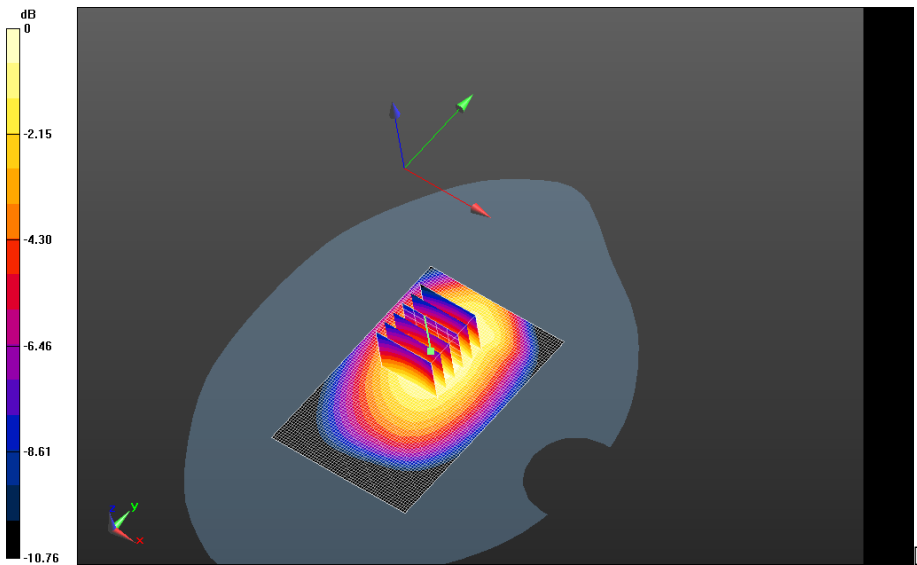
0 dB = 0.0318 W/kg = -14.98 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 71(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - LTE 17/Headset 10mm Device Back -
LTE_17_chan23780_RB1_Off0_amb_temp_23.2C_liq_temp_21.1C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.146 W/kg

Mobile Hot Spot MSL - LTE 17/Headset 10mm Device Back -
LTE_17_chan23780_RB1_Off0_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan
(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 12.755 V/m; **Power Drift = -0.031 dB**

Averaged SAR: SAR(1g) = 0.128 W/kg; SAR(10g) = 0.0924 W/kg
 Maximum value of SAR (interpolated) = 0.175 W/kg



0 dB = 0.0220 W/kg = -16.58 dBW/kg



Document
Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report

Page
72(117)

Author Data
Andrew Becker


Dates of Test
Mar 04 – May 30, 2013

Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW

LTE band 5

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 73(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 5/7/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB035B7

Configuration: Mobile Hot Spot MSL - LTE 5

Communication System: LTE 5; Communication System Band: LTE 5; Frequency: 829 MHz

Medium Parameters used: $f=829$ MHz; $\sigma = 0.958$ S/m; $\epsilon_r = 53.202$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - LTE 5/10mm Device Back -

LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x91x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.519 W/kg

Mobile Hot Spot MSL - LTE 5/10mm Device Back -

LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan

(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 24.008 V/m; **Power Drift = 0.024 dB**

Averaged SAR: SAR(1g) = 0.470 W/kg; SAR(10g) = 0.343 W/kg

Maximum value of SAR (interpolated) = 0.637 W/kg

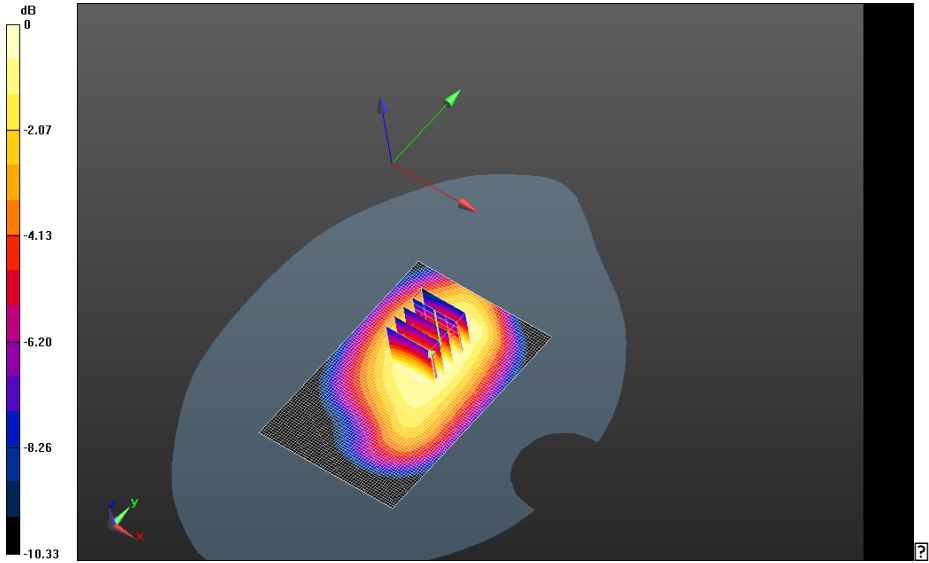
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013


Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW



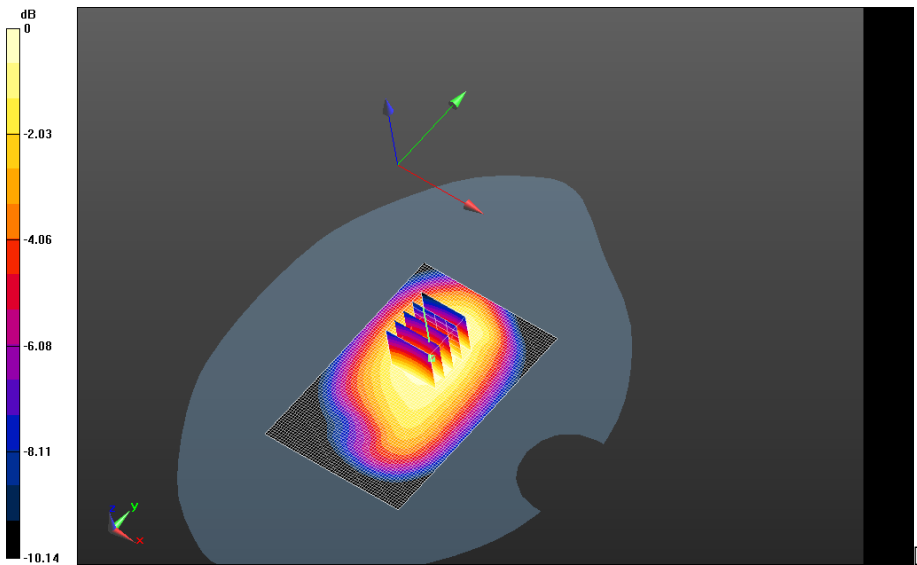
0 dB = 0.527 W/kg = -2.78 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 75(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 5/10mm Device Back -
LTE_5_chan20525_RB25_Off0_amb_temp_23.2C_liq_temp_21.0C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.373 W/kg

Mobile Hot Spot MSL - LTE 5/10mm Device Back -
LTE_5_chan20525_RB25_Off0_amb_temp_23.2C_liq_temp_21.0C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 20.217 V/m; **Power Drift = -0.101 dB**

Averaged SAR: SAR(1g) = 0.332 W/kg; SAR(10g) = 0.243 W/kg
 Maximum value of SAR (interpolated) = 0.448 W/kg



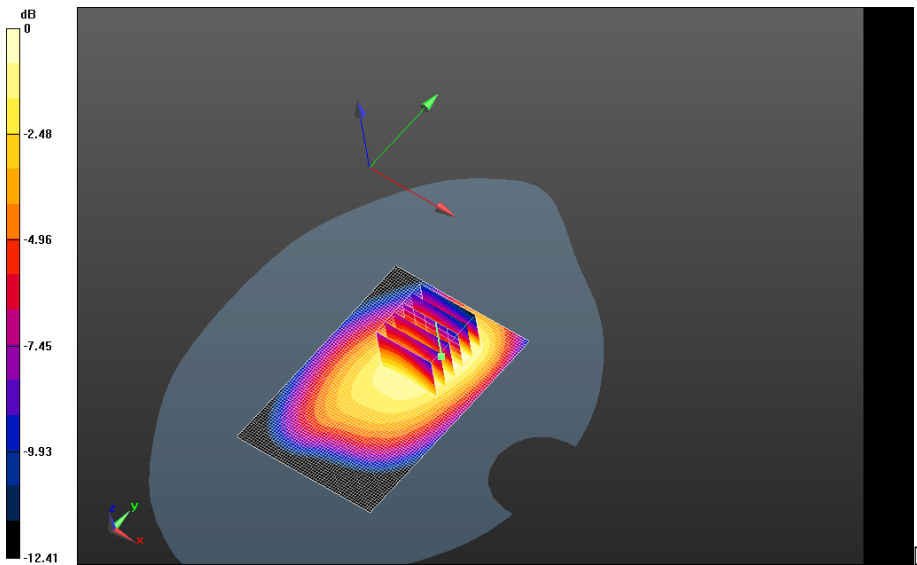
0 dB = 0.527 W/kg = -2.78 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 76(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 5/10mm Device Front -
LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.455 W/kg

Mobile Hot Spot MSL - LTE 5/10mm Device Front -
LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan
(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 22.655 V/m; **Power Drift = -0.127 dB**

Averaged SAR: SAR(1g) = 0.394 W/kg; SAR(10g) = 0.279 W/kg
 Maximum value of SAR (interpolated) = 0.577 W/kg



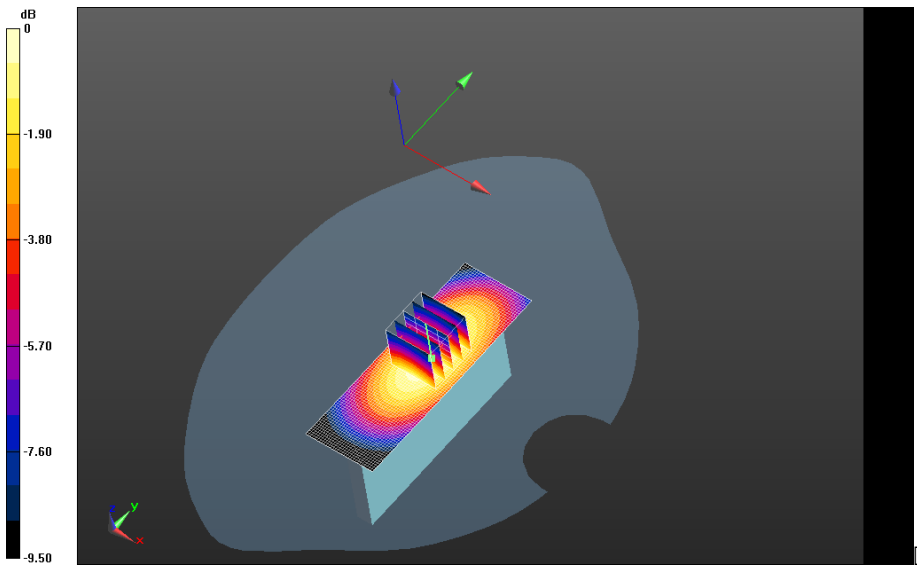
0 dB = 0.370 W/kg = -4.32 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 77(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 5/10mm Device Left -
LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Area Scan (31x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.241 W/kg

Mobile Hot Spot MSL - LTE 5/10mm Device Left -
LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 15.977 V/m; **Power Drift = -0.040 dB**

Averaged SAR: SAR(1g) = 0.216 W/kg; SAR(10g) = 0.149 W/kg
 Maximum value of SAR (interpolated) = 0.300 W/kg



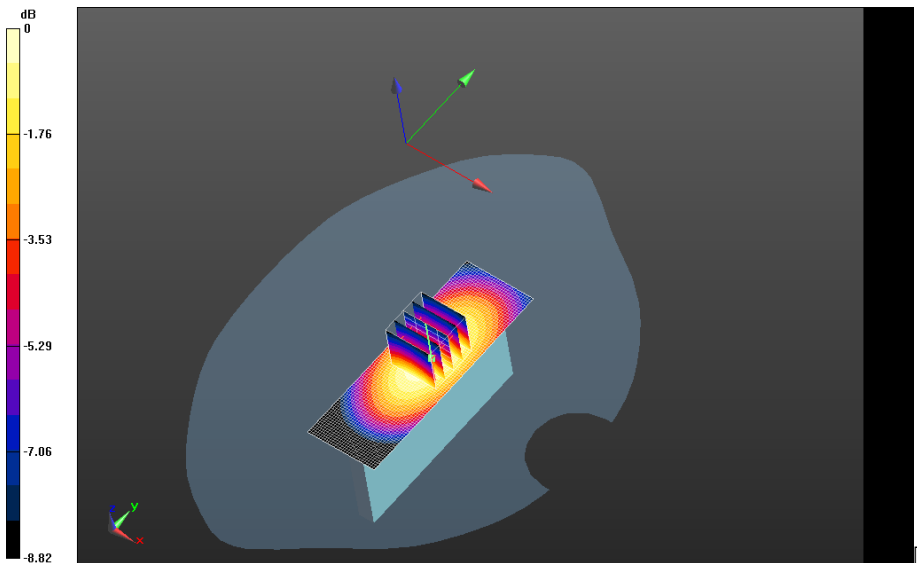
0 dB = 0.446 W/kg = -3.51 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 78(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 5/10mm Device Right -
LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Area Scan (31x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.319 W/kg

Mobile Hot Spot MSL - LTE 5/10mm Device Right -
LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 18.506 V/m; **Power Drift = -0.00993 dB**

Averaged SAR: SAR(1g) = 0.284 W/kg; SAR(10g) = 0.201 W/kg
 Maximum value of SAR (interpolated) = 0.386 W/kg



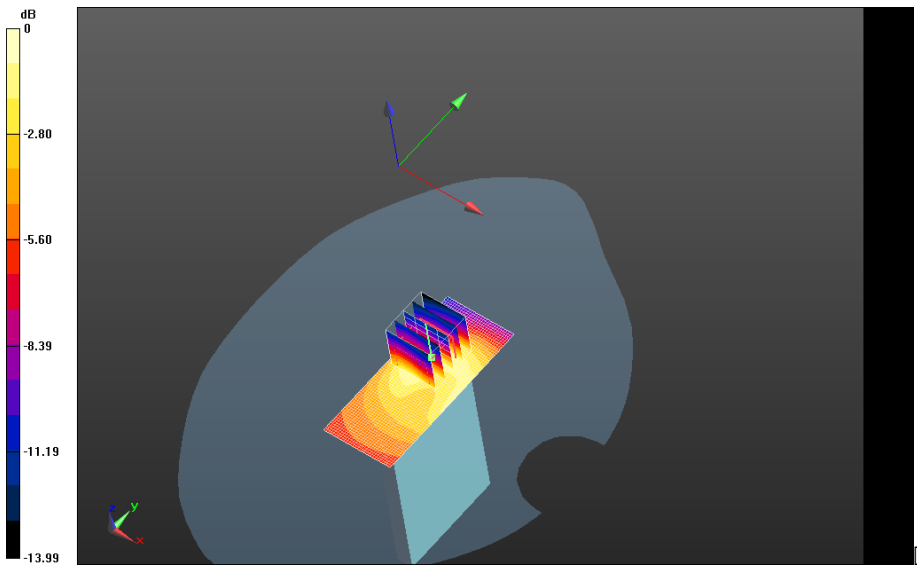
0 dB = 0.247 W/kg = -6.07 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 79(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 5/10mm Device Bottom -
LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Area Scan (31x71x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.0655 W/kg

Mobile Hot Spot MSL - LTE 5/10mm Device Bottom -
LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 8.209 V/m; **Power Drift = 0.098 dB**

Averaged SAR: SAR(1g) = 0.0541 W/kg; SAR(10g) = 0.0307 W/kg
 Maximum value of SAR (interpolated) = 0.0973 W/kg



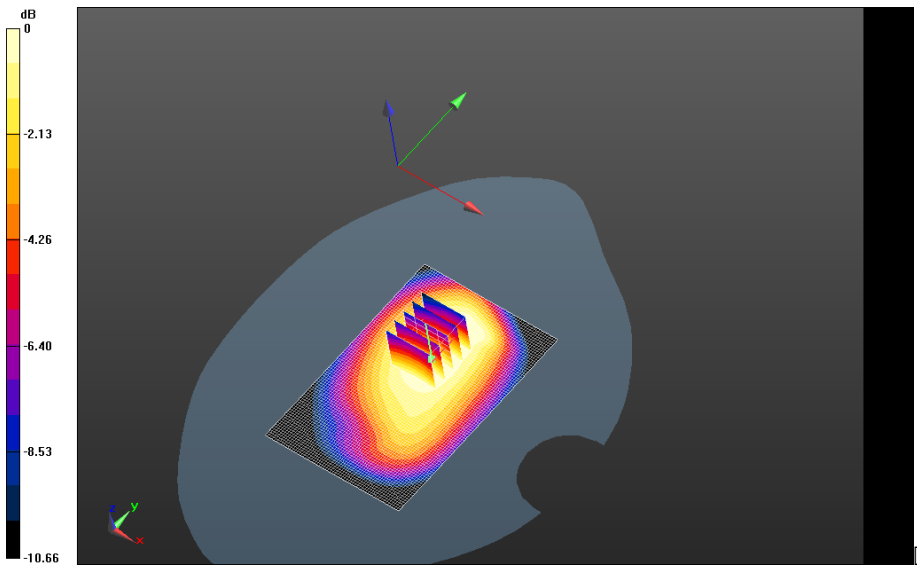
0 dB = 0.323 W/kg = -4.91 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 80(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - LTE 5/Headset 10mm Device Back -
LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.500 W/kg

Mobile Hot Spot MSL - LTE 5/Headset 10mm Device Back -
LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 24.104 V/m; **Power Drift = -0.164 dB**

Averaged SAR: SAR(1g) = 0.449 W/kg; SAR(10g) = 0.331 W/kg
 Maximum value of SAR (interpolated) = 0.598 W/kg



0 dB = 0.0664 W/kg = -11.78 dBW/kg



Document
Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report

Page
81(117)

Author Data
Andrew Becker


Dates of Test
Mar 04 – May 30, 2013

Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW

LTE Band 4

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 82(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 5/28/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFB6AF

Configuration: Mobile Hot Spot MSL - LTE Band 4

Communication System: LTE 4; Communication System Band: LTE 4; Frequency: 1720 MHz

Medium Parameters used: $f=1720$ MHz; $\sigma = 1.512$ S/m; $\epsilon_r = 50.777$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back -

LTE_Band_4_chan20050_RB1_OFFSET99_amb_temp_21.8C_liq_temp_21.1C/Area Scan

(61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.634 W/kg

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back -

LTE_Band_4_chan20050_RB1_OFFSET99_amb_temp_21.8C_liq_temp_21.1C/Zoom Scan

(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.442 V/m; **Power Drift = 0.062 dB**

Averaged SAR: SAR(1g) = 0.462 W/kg; SAR(10g) = 0.263 W/kg

Maximum value of SAR (interpolated) = 0.839 W/kg

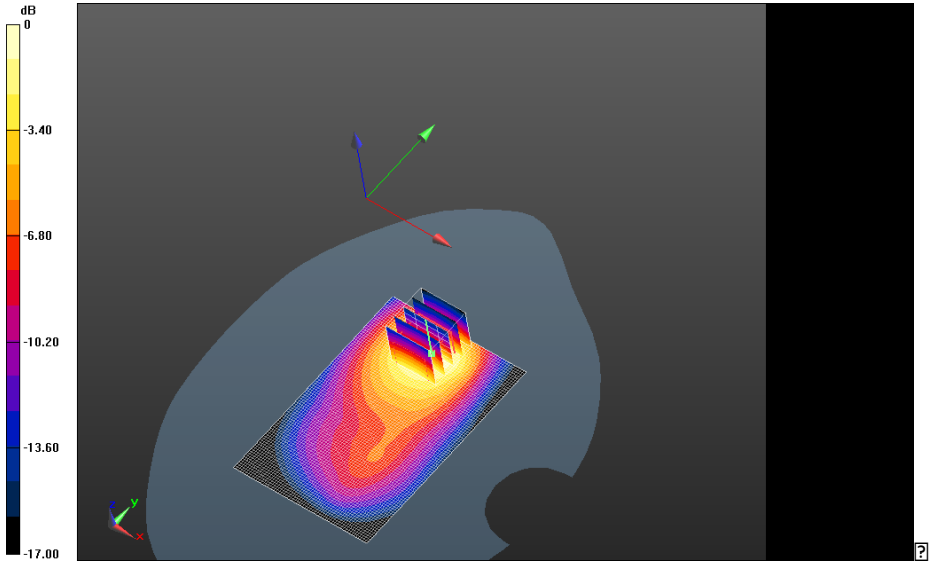
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013


Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW



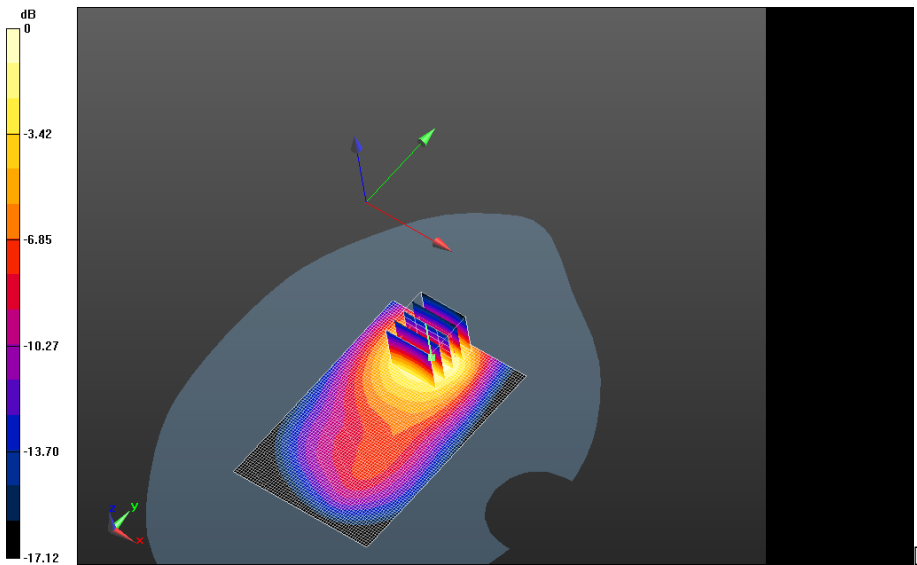
0 dB = 0.579 W/kg = -2.37 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 84(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back -
 LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_21.9C_liq_temp_21.1C/Area Scan
 (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.618 W/kg

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back -
 LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_21.9C_liq_temp_21.1C/Zoom Scan
 (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 9.244 V/m; **Power Drift = 0.025 dB**

Averaged SAR: SAR(1g) = 0.469 W/kg; SAR(10g) = 0.265 W/kg
 Maximum value of SAR (interpolated) = 0.850 W/kg



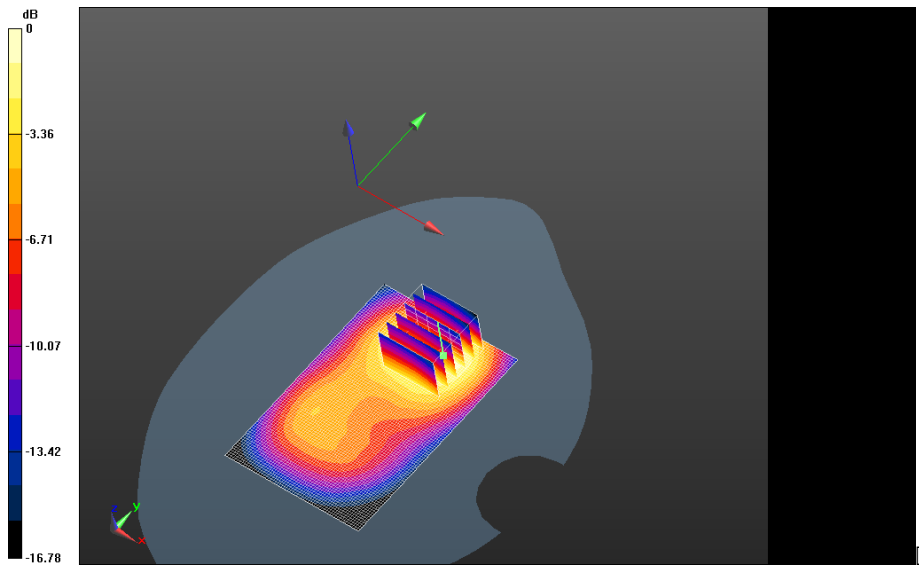
0 dB = 0.579 W/kg = -2.37 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 85(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


**Mobile Hot Spot MSL - LTE Band 4/10mm Device Front -
LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_22.1C_liq_temp_20.8C/Area Scan
(61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.555 W/kg

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Front -
LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_22.1C_liq_temp_20.8C/Zoom Scan
(26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.530 V/m; **Power Drift = 0.071 dB**

Averaged SAR: SAR(1g) = 0.437 W/kg; SAR(10g) = 0.271 W/kg
Maximum value of SAR (interpolated) = 0.711 W/kg



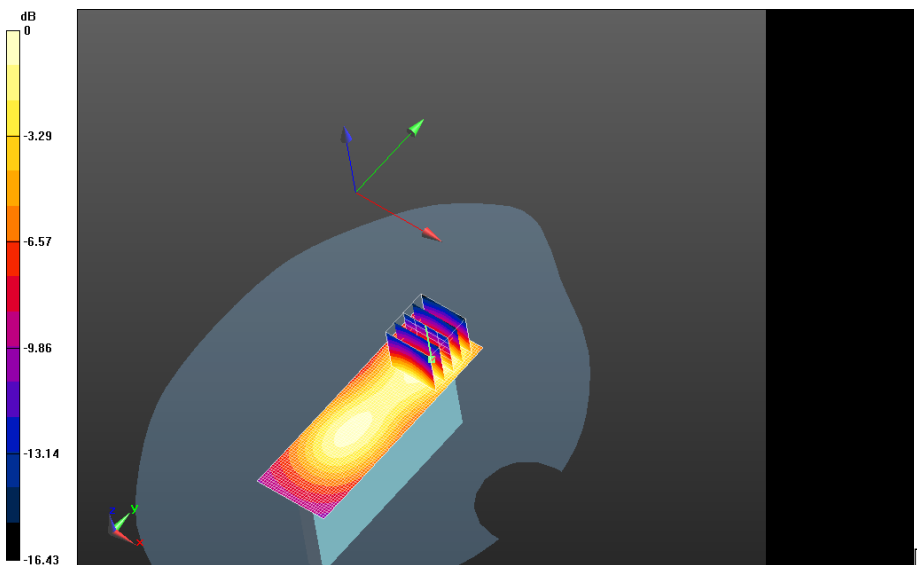
0 dB = 0.590 W/kg = -2.29 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 86(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


**Mobile Hot Spot MSL - LTE Band 4/10mm Device Left -
LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_22.4C_liq_temp_20.8C/Area Scan
(31x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.158 W/kg

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Left -
LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_22.4C_liq_temp_20.8C/Zoom Scan
(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.231 V/m; **Power Drift = -0.017 dB**

Averaged SAR: SAR(1g) = 0.125 W/kg; SAR(10g) = 0.0718 W/kg
Maximum value of SAR (interpolated) = 0.210 W/kg



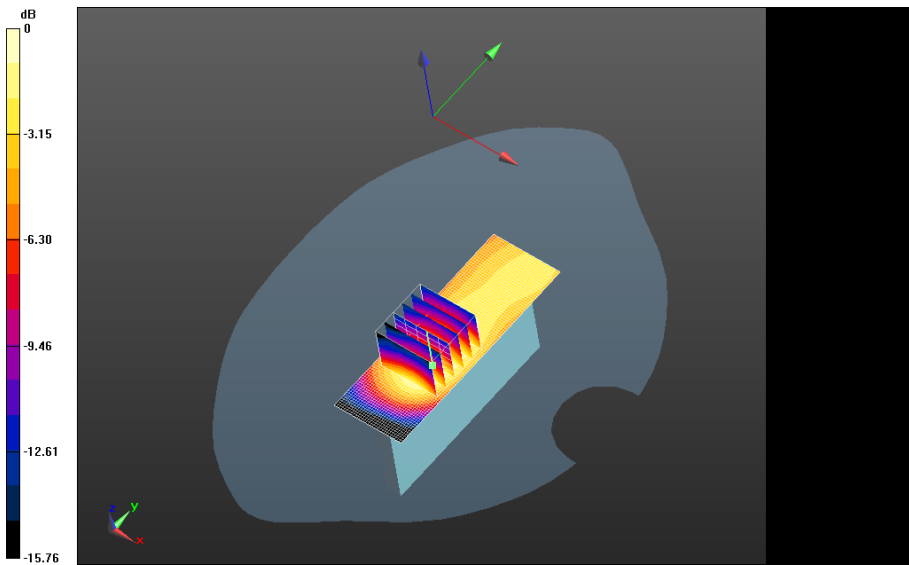
0 dB = 0.519 W/kg = -2.85 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 87(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


**Mobile Hot Spot MSL - LTE Band 4/10mm Device Right -
 LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_22.4C_liq_temp_20.8C/Area Scan
 (31x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.0724 W/kg

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Right -
 LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_22.4C_liq_temp_20.8C/Zoom Scan
 (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 6.461 V/m; **Power Drift = 0.046 dB**

Averaged SAR: SAR(1g) = 0.0588 W/kg; SAR(10g) = 0.0355 W/kg
 Maximum value of SAR (interpolated) = 0.0934 W/kg



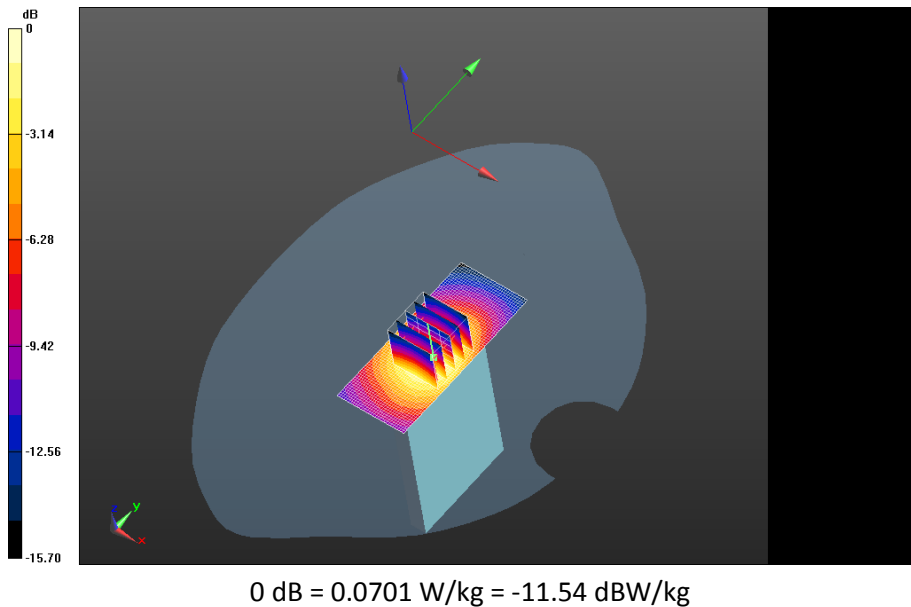
0 dB = 0.151 W/kg = -8.21 dBW/kg


	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 88(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Bottom -
 LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_22.4C_liq_temp_20.8C/Area Scan
 (31x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.280 W/kg

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Bottom -
 LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_22.4C_liq_temp_20.8C/Zoom Scan
 (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 13.252 V/m; **Power Drift = 0.194 dB**

Averaged SAR: SAR(1g) = 0.229 W/kg; SAR(10g) = 0.131 W/kg
 Maximum value of SAR (interpolated) = 0.381 W/kg

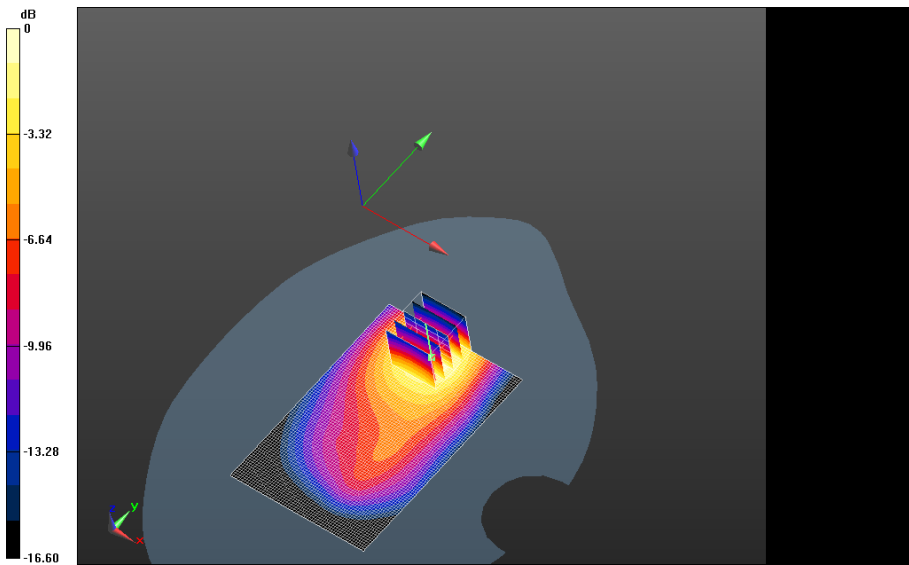


	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 89(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

**Mobile Hot Spot MSL - LTE Band 4/Headset 10mm Device Back -
 LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_22.3C_liq_temp_20.8C/Area Scan
 (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.513 W/kg

**Mobile Hot Spot MSL - LTE Band 4/Headset 10mm Device Back -
 LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_22.3C_liq_temp_20.8C/Zoom Scan
 (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 8.876 V/m; **Power Drift = -0.168 dB**

Averaged SAR: SAR(1g) = 0.414 W/kg; SAR(10g) = 0.236 W/kg
 Maximum value of SAR (interpolated) = 0.749 W/kg



0 dB = 0.276 W/kg = -5.59 dBW/kg



Document
Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report

Page
90(117)

Author Data
Andrew Becker


Dates of Test
Mar 04 – May 30, 2013

Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW

UMTS Band IV

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 91(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 5/24/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFB6AF

Configuration: Mobile Hot Spot MSL - UMTS Band IV

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV;

Frequency: 1732.6 MHz

Medium Parameters used: $f=1732.6$ MHz; $\sigma = 1.511$ S/m; $\epsilon_r = 51.324$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - UMTS Band IV/10mm Device Back -

UMTS_Band_IV_chan1413_amb_temp_23.3C_liq_temp_21.9C/Area Scan (61x91x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.660 W/kg

Mobile Hot Spot MSL - UMTS Band IV/10mm Device Back -

UMTS_Band_IV_chan1413_amb_temp_23.3C_liq_temp_21.9C/Zoom Scan (26x26x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.087 V/m; **Power Drift = -0.040 dB**

Averaged SAR: SAR(1g) = 0.523 W/kg; SAR(10g) = 0.299 W/kg

Maximum value of SAR (interpolated) = 0.929 W/kg

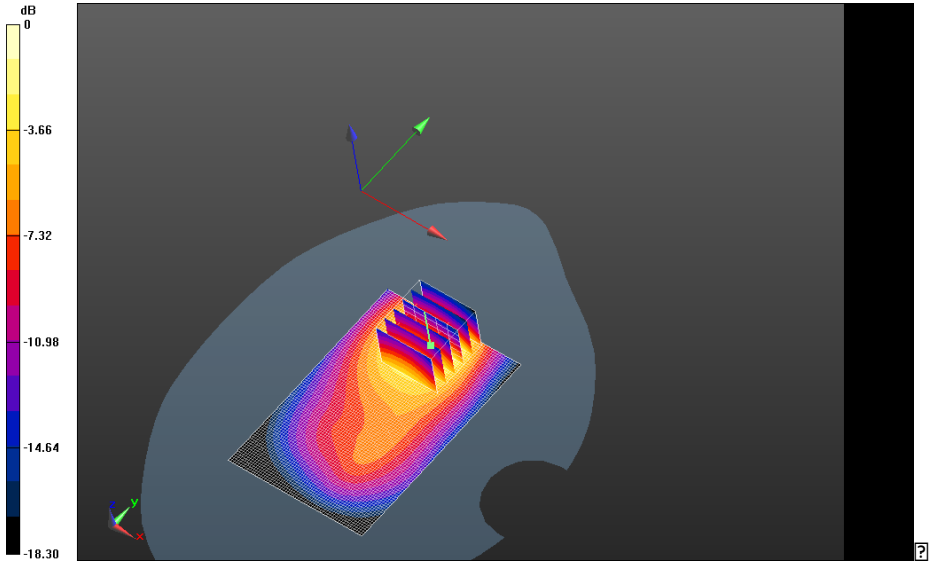
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013


Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW



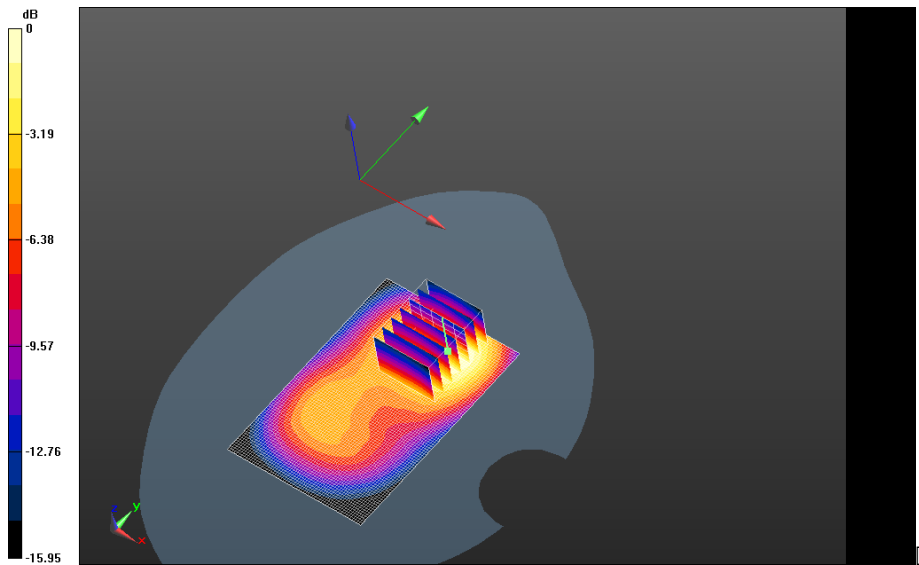
0 dB = 0.646 W/kg = -1.90 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 93(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band IV/10mm Device Front -
UMTS_Band_IV_chan1413_amb_temp_23.3C_liq_temp_21.9C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.658 W/kg

Mobile Hot Spot MSL - UMTS Band IV/10mm Device Front -
UMTS_Band_IV_chan1413_amb_temp_23.3C_liq_temp_21.9C/Zoom Scan (26x31x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 10.421 V/m; **Power Drift = 0.0057 dB**

Averaged SAR: SAR(1g) = 0.524 W/kg; SAR(10g) = 0.326 W/kg
 Maximum value of SAR (interpolated) = 0.845 W/kg



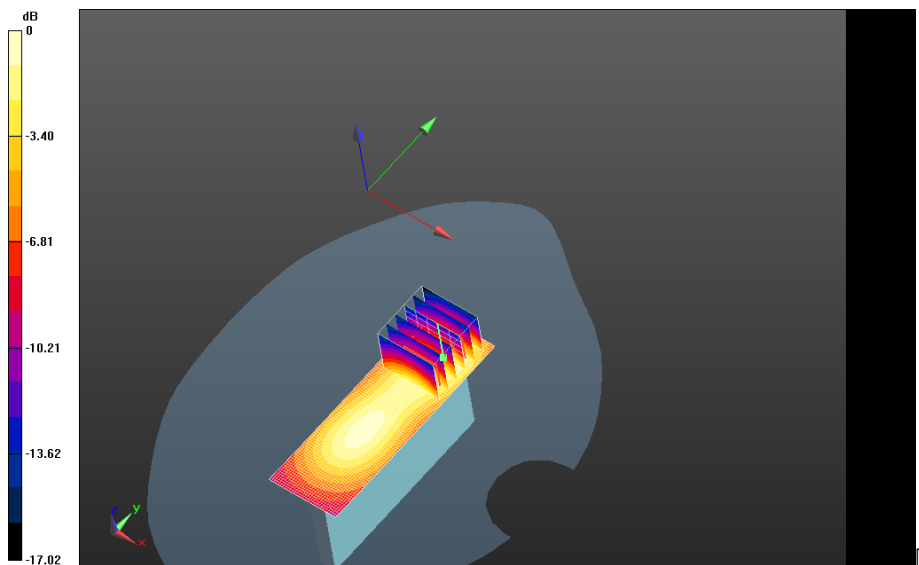
0 dB = 0.646 W/kg = -1.90 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 94(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band IV/10mm Device Left -
UMTS_Band_IV_chan1413_amb_temp_23.3C_liq_temp_21.9C/Area Scan (31x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.184 W/kg

Mobile Hot Spot MSL - UMTS Band IV/10mm Device Left -
UMTS_Band_IV_chan1413_amb_temp_23.3C_liq_temp_21.9C/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 9.769 V/m; **Power Drift = 0.124 dB**

Averaged SAR: SAR(1g) = 0.147 W/kg; SAR(10g) = 0.0859 W/kg
 Maximum value of SAR (interpolated) = 0.240 W/kg



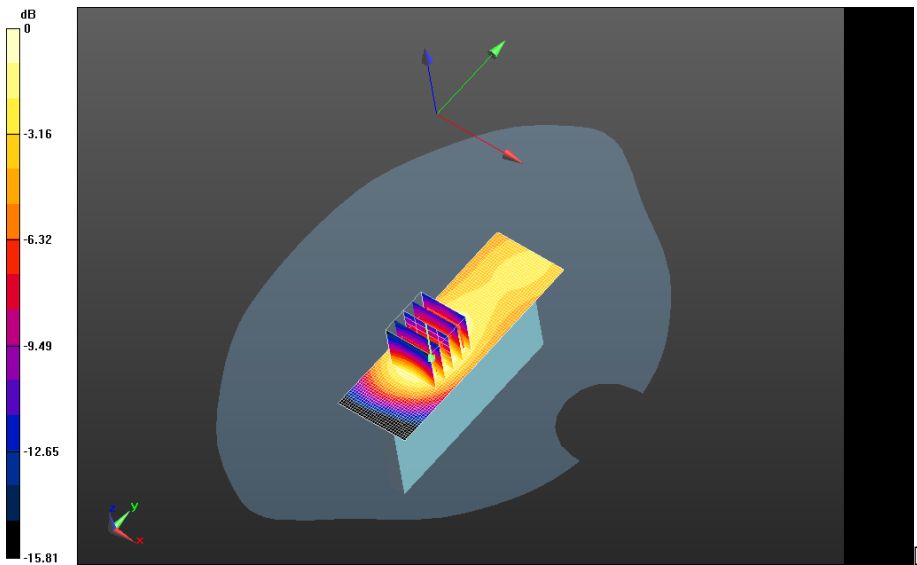
0 dB = 0.619 W/kg = -2.08 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 95(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band IV/10mm Device Right -
UMTS_Band_IV_chan1413_amb_temp_23.3C_liq_temp_21.9C/Area Scan (31x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.0841 W/kg

Mobile Hot Spot MSL - UMTS Band IV/10mm Device Right -
UMTS_Band_IV_chan1413_amb_temp_23.3C_liq_temp_21.9C/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 7.183 V/m; **Power Drift = 0.083 dB**

Averaged SAR: SAR(1g) = 0.0727 W/kg; SAR(10g) = 0.0449 W/kg
 Maximum value of SAR (interpolated) = 0.113 W/kg



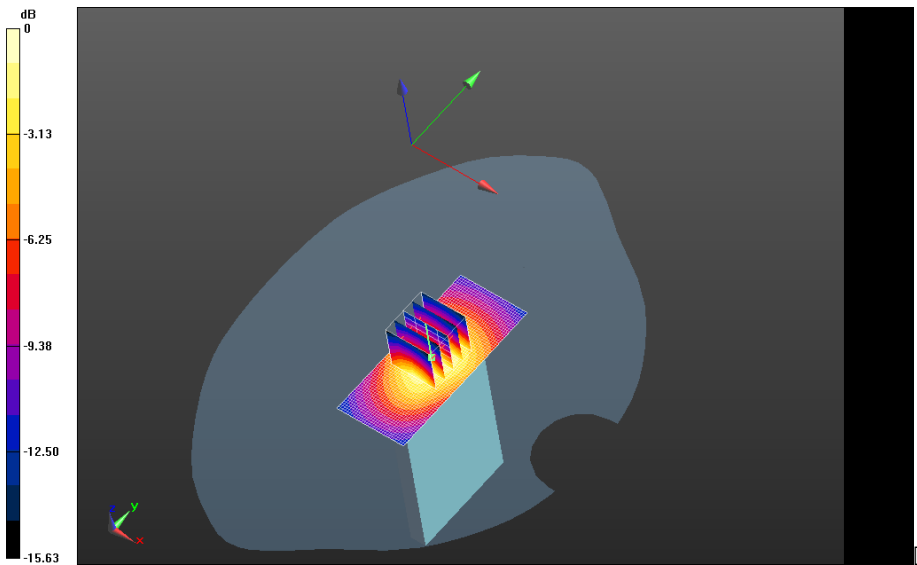
0 dB = 0.176 W/kg = -7.54 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 96(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band IV/10mm Device Bottom -
UMTS_Band_IV_chan1413_amb_temp_23.3C_liq_temp_21.9C/Area Scan (31x71x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.324 W/kg

Mobile Hot Spot MSL - UMTS Band IV/10mm Device Bottom -
UMTS_Band_IV_chan1413_amb_temp_23.3C_liq_temp_21.9C/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 15.460 V/m; **Power Drift = 0.127 dB**

Averaged SAR: SAR(1g) = 0.279 W/kg; SAR(10g) = 0.161 W/kg
 Maximum value of SAR (interpolated) = 0.461 W/kg



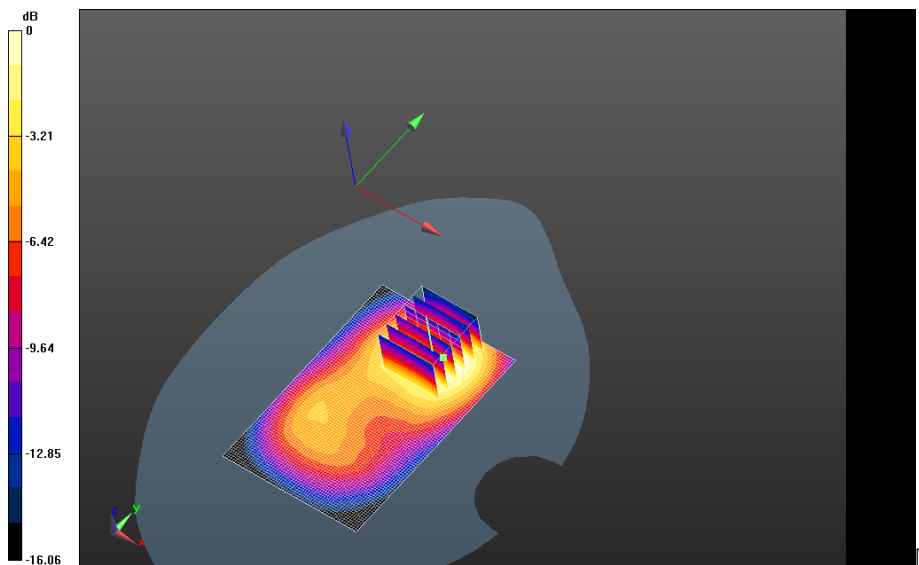
0 dB = 0.0872 W/kg = -10.59 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 97(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band IV/10mm Device Front+HS -
UMTS_Band_IV_chan1413_amb_temp_23.3C_liq_temp_21.9C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.645 W/kg

Mobile Hot Spot MSL - UMTS Band IV/10mm Device Front+HS -
UMTS_Band_IV_chan1413_amb_temp_23.3C_liq_temp_21.9C/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 10.460 V/m; **Power Drift = -0.017 dB**


Averaged SAR: SAR(1g) = 0.506 W/kg; SAR(10g) = 0.320 W/kg
 Maximum value of SAR (interpolated) = 0.804 W/kg



0 dB = 0.342 W/kg = -4.66 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 98(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

LTE Band 2

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 99(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 5/30/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFB6AF

Configuration: Mobile Hot Spot MSL - LTE 2

Communication System: LTE band 2; Communication System Band: LTE band 2; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.547$ S/m; $\epsilon_r = 51.275$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - LTE 2/10mm Device Back -

LTE_2_chan18900_RB1_Offset99_amb_temp_21.0C_liq_temp_20.8C/Area Scan (61x91x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.480 W/kg

Mobile Hot Spot MSL - LTE 2/10mm Device Back -

LTE_2_chan18900_RB1_Offset99_amb_temp_21.0C_liq_temp_20.8C/Zoom Scan

(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 8.938 V/m; **Power Drift = 0.060 dB**

Averaged SAR: SAR(1g) = 0.417 W/kg; SAR(10g) = 0.263 W/kg

Maximum value of SAR (interpolated) = 0.634 W/kg

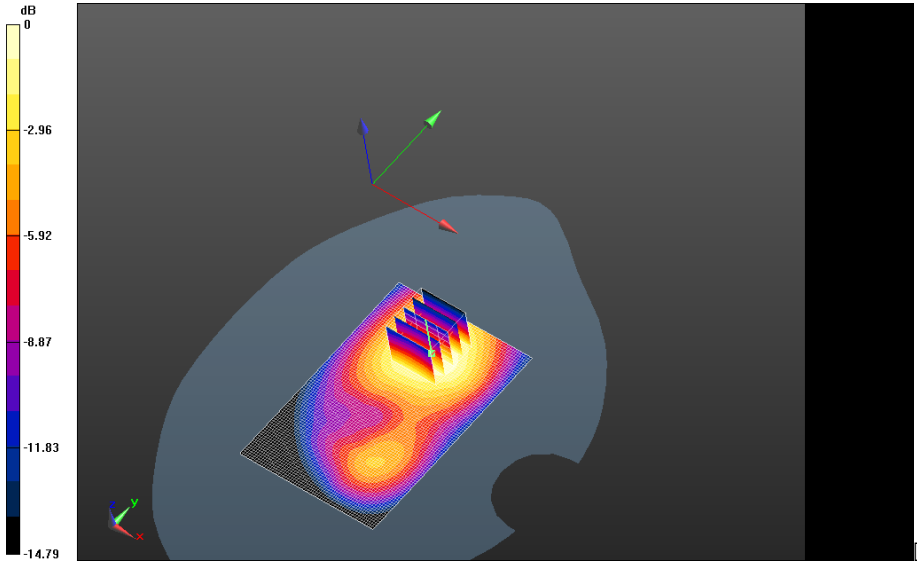
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013


Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW



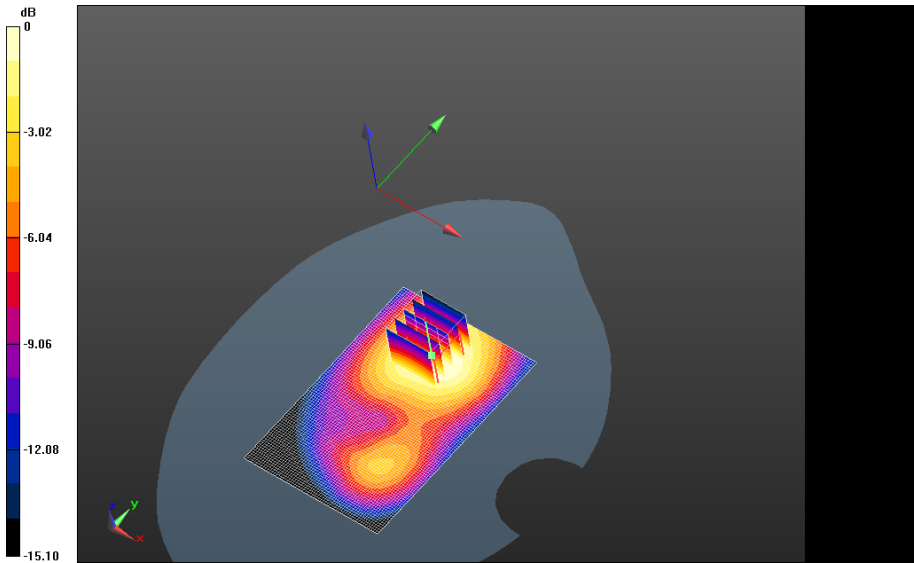
0 dB = 0.492 W/kg = -3.08 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 101(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 2/10mm Device Back -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.0C_liq_temp_20.8C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.500 W/kg

Mobile Hot Spot MSL - LTE 2/10mm Device Back -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.0C_liq_temp_20.8C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 8.718 V/m; **Power Drift = 0.116 dB**

Averaged SAR: SAR(1g) = 0.427 W/kg; SAR(10g) = 0.270 W/kg
 Maximum value of SAR (interpolated) = 0.648 W/kg



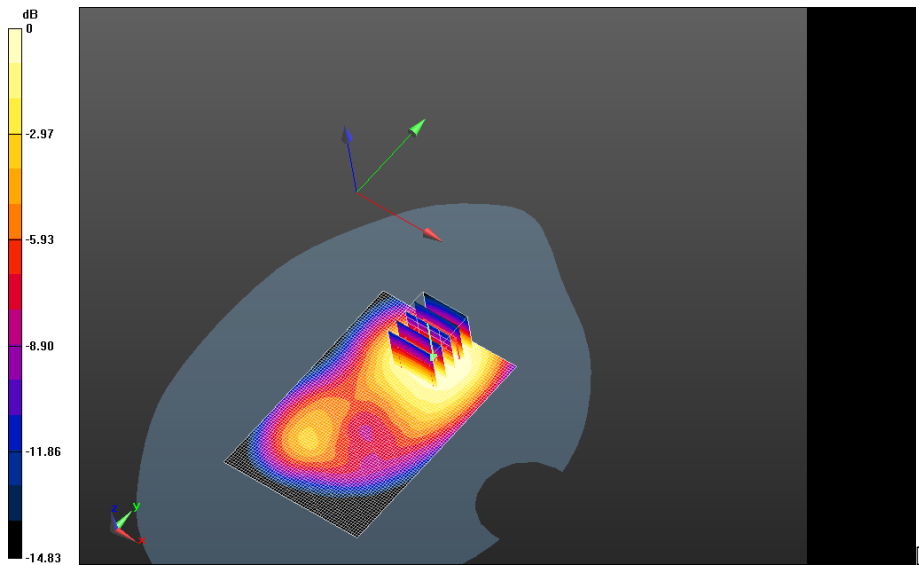
0 dB = 0.492 W/kg = -3.08 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 102(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 2/10mm Device Front -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.2C_liq_temp_20.8C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.616 W/kg

Mobile Hot Spot MSL - LTE 2/10mm Device Front -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.2C_liq_temp_20.8C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 9.365 V/m; **Power Drift = 0.022 dB**

Averaged SAR: SAR(1g) = 0.509 W/kg; SAR(10g) = 0.325 W/kg
 Maximum value of SAR (interpolated) = 0.790 W/kg



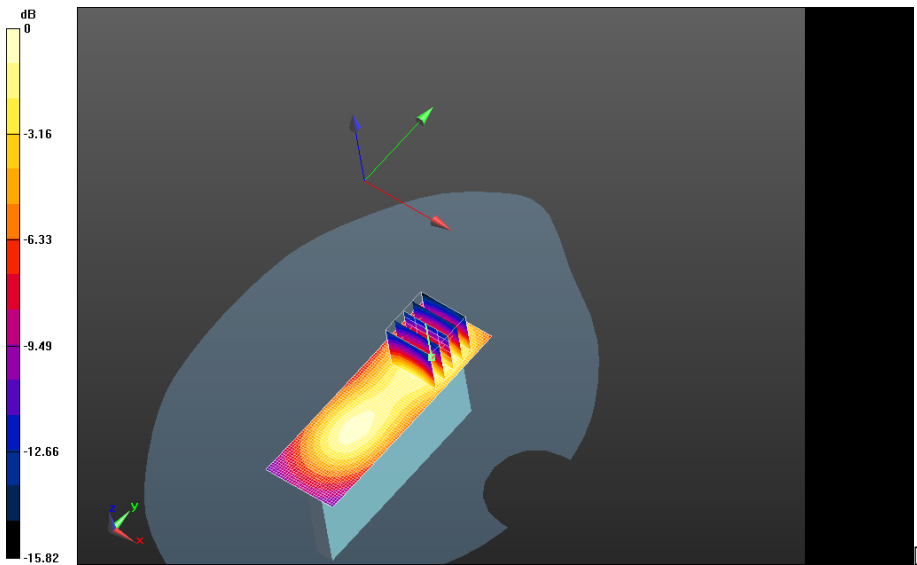
0 dB = 0.498 W/kg = -3.03 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 103(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 2/10mm Device Left -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.2C_liq_temp_20.8C/Area Scan (31x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.195 W/kg

Mobile Hot Spot MSL - LTE 2/10mm Device Left -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.2C_liq_temp_20.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 10.058 V/m; **Power Drift = 0.081 dB**

Averaged SAR: SAR(1g) = 0.166 W/kg; SAR(10g) = 0.0966 W/kg
 Maximum value of SAR (interpolated) = 0.283 W/kg



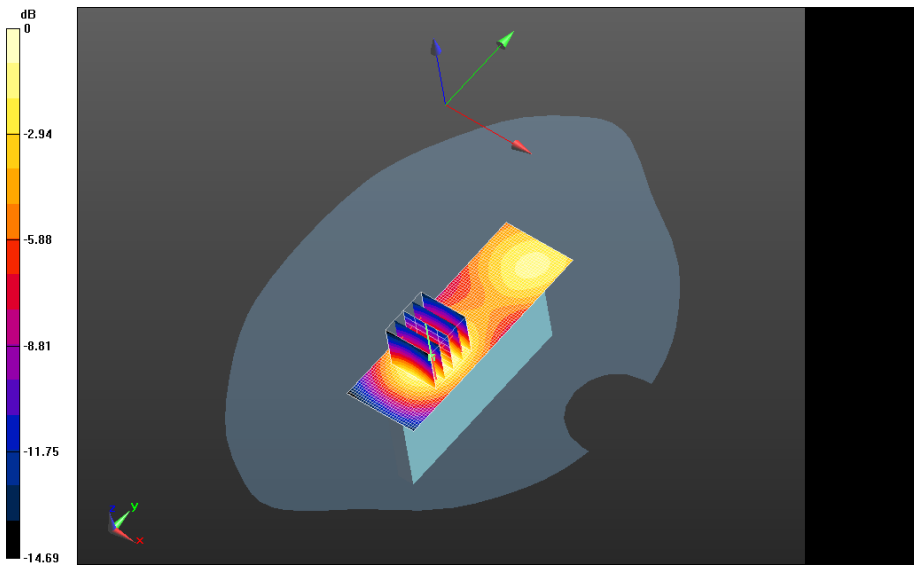
0 dB = 0.603 W/kg = -2.20 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 104(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 2/10mm Device Right -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.2C_liq_temp_20.8C/Area Scan (31x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.179 W/kg

Mobile Hot Spot MSL - LTE 2/10mm Device Right -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.2C_liq_temp_20.8C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 7.850 V/m; **Power Drift = -0.011 dB**

Averaged SAR: SAR(1g) = 0.149 W/kg; SAR(10g) = 0.0889 W/kg
 Maximum value of SAR (interpolated) = 0.239 W/kg



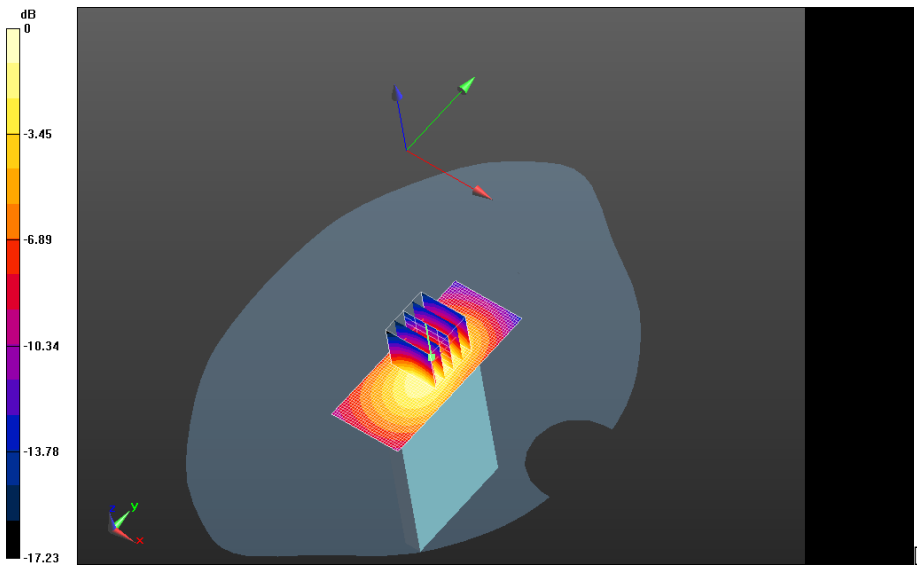
0 dB = 0.204 W/kg = -6.90 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 105(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 2/10mm Device Bottom -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.2C_liq_temp_20.8C/Area Scan (31x71x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.314 W/kg

Mobile Hot Spot MSL - LTE 2/10mm Device Bottom -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.2C_liq_temp_20.8C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 15.349 V/m; **Power Drift = -0.039 dB**

Averaged SAR: SAR(1g) = 0.288 W/kg; SAR(10g) = 0.157 W/kg
 Maximum value of SAR (interpolated) = 0.500 W/kg



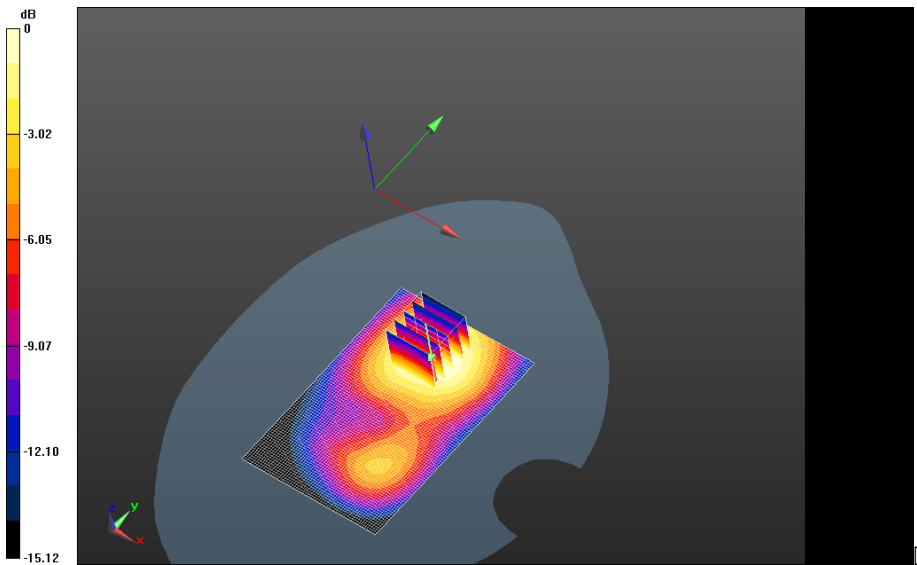
0 dB = 0.178 W/kg = -7.50 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 106(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - LTE 2/10mm Device Back+HS -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.0C_liq_temp_20.8C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.504 W/kg

Mobile Hot Spot MSL - LTE 2/10mm Device Back+HS -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.0C_liq_temp_20.8C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 8.607 V/m; **Power Drift = 0.024 dB**

Averaged SAR: SAR(1g) = 0.432 W/kg; SAR(10g) = 0.273 W/kg
 Maximum value of SAR (interpolated) = 0.658 W/kg



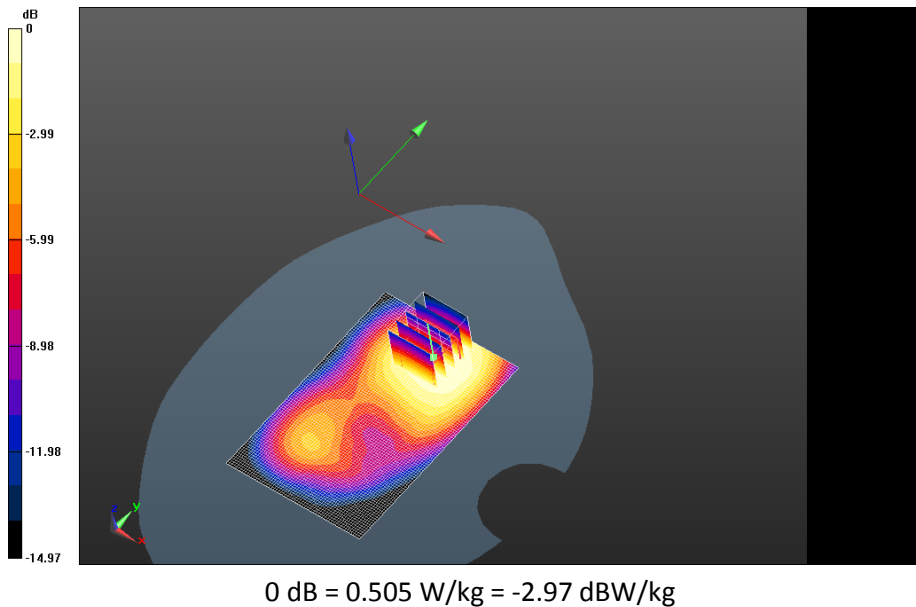
0 dB = 0.359 W/kg = -4.45 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 107(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - LTE 2/10mm Device Front+HS -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.0C_liq_temp_20.8C/Area Scan (61x91x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.624 W/kg

Mobile Hot Spot MSL - LTE 2/10mm Device Front+HS -
LTE_2_chan18900_RB50_Offset50_amb_temp_21.0C_liq_temp_20.8C/Zoom Scan
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 9.274 V/m; **Power Drift = 0.033 dB**

Averaged SAR: SAR(1g) = 0.519 W/kg; SAR(10g) = 0.331 W/kg
 Maximum value of SAR (interpolated) = 0.799 W/kg





Document

Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report

Page

108(117)

Author Data

Andrew Becker

Dates of Test

Mar 04 – May 30, 2013

Test Report No

RTS-6036-1305-06B

FCC ID:

L6ARFR100LW

IC

2503A-RFR100LW



Document
Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report

Page
109(117)

Author Data
Andrew Becker


Dates of Test
Mar 04 – May 30, 2013

Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW

GPRS 1900

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 110(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 3/27/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB035B7

Configuration: Mobile Hot Spot MSL - GPRS 1900

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.513$ S/m; $\epsilon_r = 50.890$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS

1900_mid_chan_amb_temp_23.2C_liq_temp_21.1C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.388 W/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS

1900_mid_chan_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.442 V/m; **Power Drift = -0.142 dB**

Averaged SAR: SAR(1g) = 0.330 W/kg; SAR(10g) = 0.206 W/kg

Maximum value of SAR (interpolated) = 0.497 W/kg

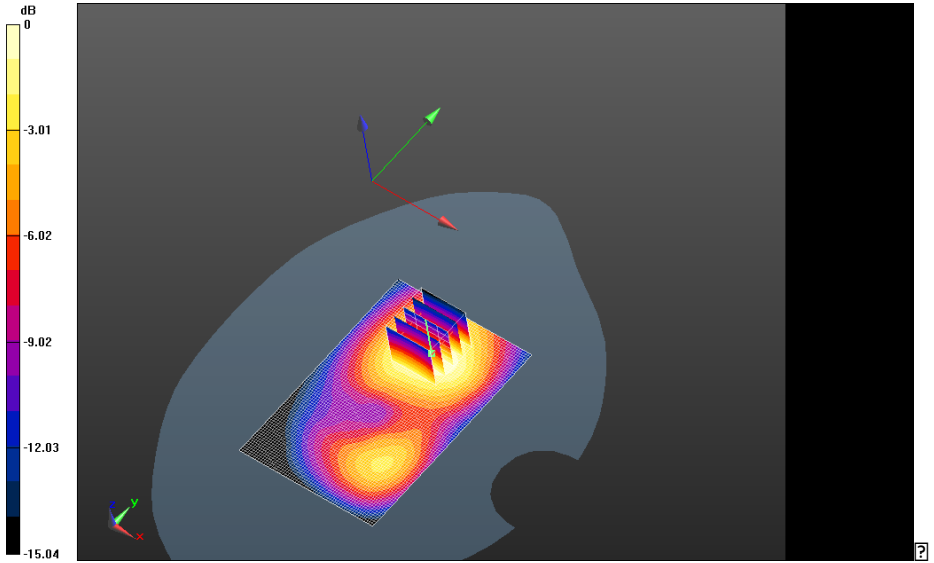
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013


Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW



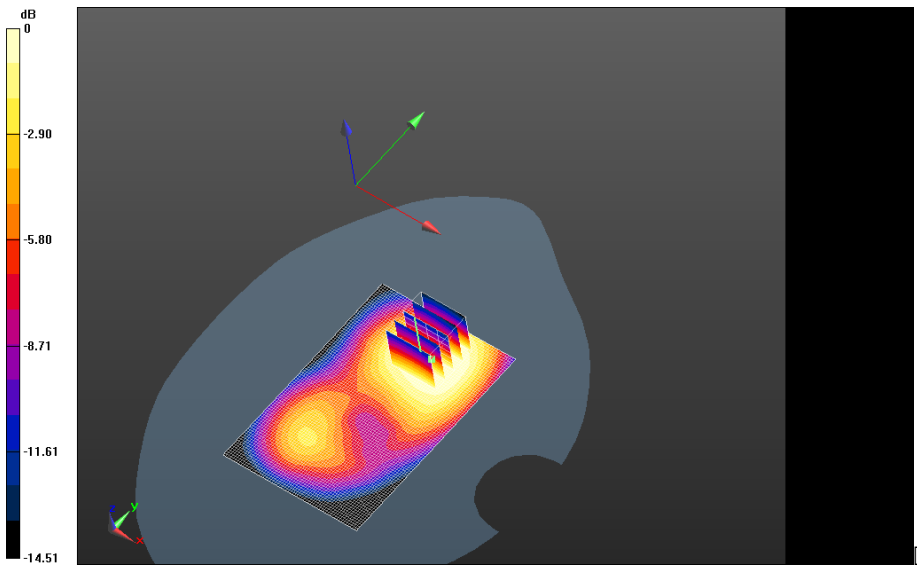
0 dB = 0.387 W/kg = -4.12 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 112(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS
1900_mid_chan_amb_temp_23.0C_liq_temp_21.1C/Area Scan (61x91x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.450 W/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS
1900_mid_chan_amb_temp_23.0C_liq_temp_21.1C/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 7.787 V/m; **Power Drift = -0.086 dB**

Averaged SAR: SAR(1g) = 0.372 W/kg; SAR(10g) = 0.239 W/kg
 Maximum value of SAR (interpolated) = 0.579 W/kg



0 dB = 0.387 W/kg = -4.12 dBW/kg



Document
Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report

Page
113(117)

Author Data
Andrew Becker


Dates of Test
Mar 04 – May 30, 2013

Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW

UMTS Band II

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 114(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 5/10/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2FFFB6AF

Configuration: Mobile Hot Spot MSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.532$ S/m; $\epsilon_r = 50.785$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back -

UMTS_II_mid_chan_amb_temp_23.7C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.769 W/kg

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back -

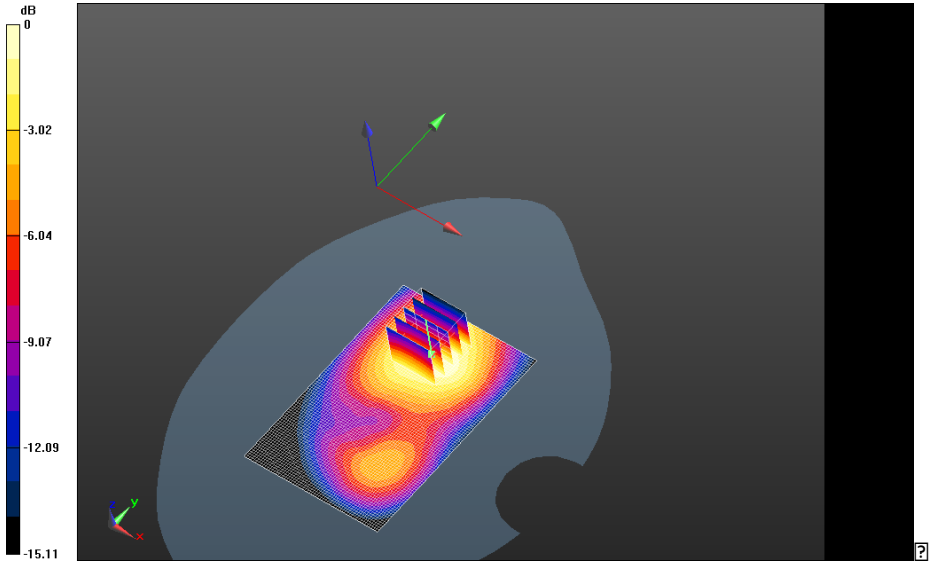
UMTS_II_mid_chan_amb_temp_23.7C_liq_temp_22.0C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 10.832 V/m; **Power Drift = -0.00547 dB**

Averaged SAR: SAR(1g) = 0.646 W/kg; SAR(10g) = 0.409 W/kg

Maximum value of SAR (interpolated) = 0.978 W/kg



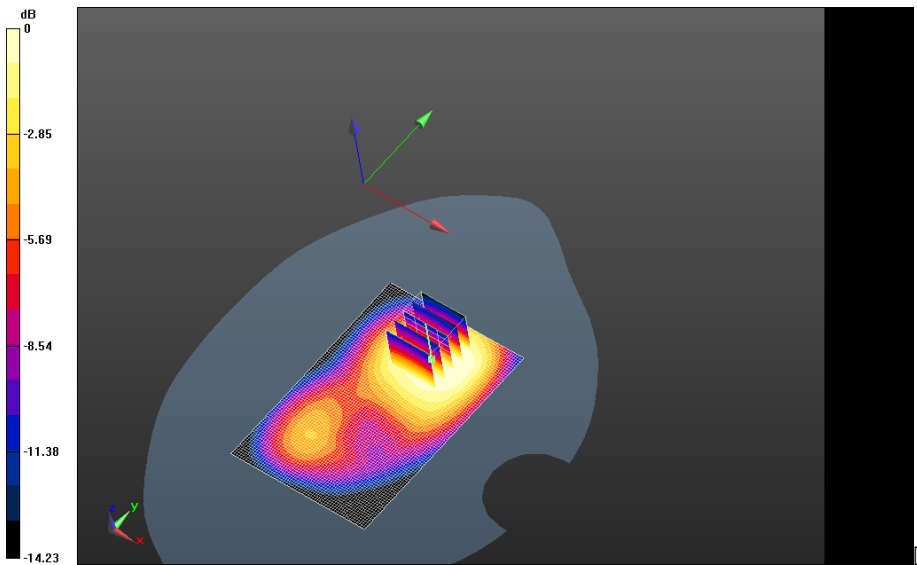
0 dB = 0.758 W/kg = -1.20 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 116(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


Mobile Hot Spot MSL - UMTS Band II/10mm Device Front - UMTS_II_mid_chan_amb_temp_23.7C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.936 W/kg

Mobile Hot Spot MSL - UMTS Band II/10mm Device Front - UMTS_II_mid_chan_amb_temp_23.7C_liq_temp_22.0C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 13.014 V/m; **Power Drift = 0.056 dB**

Averaged SAR: SAR(1g) = 0.790 W/kg; SAR(10g) = 0.504 W/kg
 Maximum value of SAR (interpolated) = 1.22 W/kg



0 dB = 0.758 W/kg = -1.20 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 117(117)
	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Z axis plot for the worst case Hotspot configuration

